

HPC **Gears**

TELESALES:
+44 (0)1246 268080

**NEVER
KNOWINGLY
OUTPRICED**



C37



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HPC Gears Products

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Welcome to **HPC Gears Limited**

Dear Customer

For over 40 years HPC Gears Limited has sought to bring you the best in Gear Transmission Products.

To provide you with a one-stop shop for all your mechanical and transmission needs, our new 1500 page catalogue combines all our **Gear Transmission Products** (including pulleys and belts, bevels, worms and wheels, helical gears, racks and much more) with all our **Mechanical Transmission Products** (including gearboxes, leadscrews and nuts, splined shafts and bushes, bearings, clamps and collars, couplings, clutches and much more).

We are constantly striving to add additional products to our range so if the item you require does not appear in this catalogue please give us a call and our experienced sales team will be happy to help.

Parts are available from our extensive stock for **same day despatch** or even **same day delivery** if needed. However if you require a part specially manufactured to your sample or drawings we can machine to your specification and offer breakdown delivery if required. We have the capacity to make from 3mm diameter to 2 metre diameter and everything in between.

As always our single aim is your 100% complete satisfaction and we look forward to being of service to you very soon.



Tim Hinchliffe
MANAGING DIRECTOR

'Never Knowingly Outpriced'

ADDRESS

Company Reg. No. 3262229
V.A.T. No. GB 684 1312 42

TELEPHONE

FAX

EMAIL

WEBSITE

LOCATION MAP

Sales and Manufacture HPC Gears Ltd .

Unit 14
Foxwood Industrial Park
Chesterfield, Derbyshire
S41 9RN England

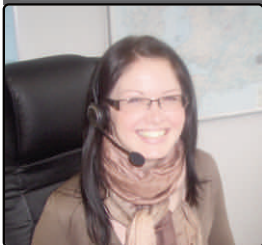
+44 (0) 1246 268080

+44 (0) 1246 260003

sales@hpcgears.com
www.hpcgears.com



TELESALES & TECHNICAL HELP



OPENING HOURS

8am – 5.30pm Monday to Friday

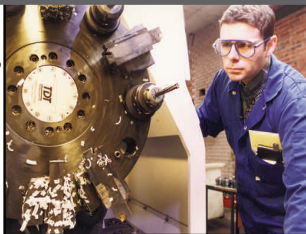
- Quantity discounts
- **NO MINIMUM ORDER CHARGE**
- Free quotes to technical drawings or samples

FAX-BACK ORDER FORM see page 30.2

FAX-BACK TECHNICAL FORM see page 30.1

MANUFACTURING

- Over 150 machines
- Gears from Ø3mm to Ø2 metres
- Tooth pitches from 0.25–25mod and 120–1DP
- Ferrous & non-ferrous materials
- Modifications to standard parts
- **CUSTOM MADE PRODUCTS**
- No order is too large or too small
- Scheduled orders
- **48-HR BREAKDOWN & REPLACEMENT**



WAREHOUSE & DISTRIBUTION



- Over 90,000 products for instant despatch
- Same-day despatch for stock items
- Same-day delivery on request
- **WORLDWIDE DISTRIBUTION**

QUALITY CONTROL



- Fully qualified Inspection team
- Approved by Lloyds Register Quality Assurance BS EN ISO 9001:2008



PAYMENT OPTIONS & ACCOUNTS

NEW ACCOUNTS

Accounts are opened either by email, post or fax.
terms and conditions apply.

CREDIT/DEBIT CARD

- ✓ card number
- ✓ card expiry date
- ✓ three digit security code
- ✓ name on the card
- ✓ statement address



(Instant despatch of in-stock products)

CHEQUE	Cheques made payable to <u>HPC Gears Ltd.</u>		
BANK TRANSFER	National Westminster Bank Plc, Chesterfield, Derbyshire S40 1TJ ENGLAND. Sort Code 60-40-09		
	ACCOUNT NO:	IBAN NO:	BIC:
GBP (£)	43639666	GB14 NWBK 6040 0943 6396 66	NWBK GB 2L
EUROS	06613357	GB86 NWBK 6072 0906 6133 57	NWBK GB 2L
US DOLLAR (\$)	36406953	GB79 NWBK 6073 0136 4069 53	NWBK GB 2L

PRICES

MINIMUM ORDER CHARGE	None
V.A.T.	Added to the price, delivery and packing cost.
PRICES	Prices & discounts for items are shown on each page.
TERMS	Net 30-days from end of invoice month.
DELIVERY	
PACKING & POSTAGE	Charged as extra. Please consult telesales.
SPECIAL DELIVERIES	
CERTIFICATE OF CONFORMITY	Price £15.62 and available upon request.
MATERIAL CONFORMITY	Price £64.88 and available upon request.

PRODUCT DISCOUNTS

EXAMPLE DISCOUNT TABLE

DISCOUNTS	
1 - 5	List
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Quantity discounts are per item. Refer to individual pages for discount structures.

EXAMPLE ONLY

EXPRESS BREAKDOWN SERVICE

**Breakdown
Replacement
Service to
meet your
needs**



For a FREE written quote, send your broken gear to our technical department.

SPECIAL MANUFACTURE

**CUSTOM MADE
PRODUCTS**

We are pleased to quote for manufacture to your drawings. Alternatively send your broken or worn samples and we will quote from one off replacements to large production runs.



DELIVERY COSTS

NOTE: Instant despatch of products which are in-stock.

Some special parts can not always be manufactured quicker than normal delivery.

STANDARD PARTS IN STOCK	Same-day Despatch	List Price
STANDARD PARTS NOT IN STOCK	14 DAYS manufacture time	List Price
STANDARD PARTS shape change	2 DAYS manufacture time	List Price Plus
MODIFIED hardening process	5 DAYS manufacture time	modification charge
NON STANDARD PARTS MODIFIED NOT IN STOCK	14 - 21 DAYS manufacture time	Contact Telesales
PREMIUM MANUFACTURE SPECIAL SERVICE	7- 10 DAYS manufacture time	Price x 1.5
EXPRESS MANUFACTURE SPECIAL SERVICE	2 - 6 DAYS manufacture time	Price x 2
	Please allow 2 additional days	for hardened items

FINDING A PRODUCT

PICTORIAL INDEX

Pages 10-11

NAME INDEX

Section 29

PART NUMBER INDEX

Section 29

If you cannot find the product you want, call telesales.

Section

Sub Section

Sub Section

HPC Part Numbers

Section

Materials

Discount Table

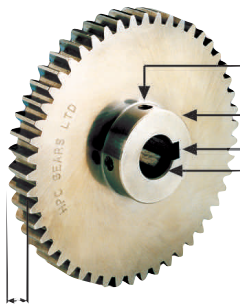
Prices

PART NUMBER	HSE/HT	PCR	CTS	throat Ø	tip Ø	throat Ø	Tip	CROSS	pitch Ø	PRICE	DISCOUNTS	
											Ø (mm)	Ø (mm)

318 Unit 14, Evershott Industrial Estate, Foxworth Green, Chalfont St Giles, Bucks HP85 9NY
Telephone +44(0)1296 268080 Fax +44(0)1296 269003

This catalogue supersedes all previous editions.

MODIFICATIONS TO STANDARD PARTS



FACE WIDTH REDUCED

TAPPED HOLES AND PIN HOLES MAY BE ADDED

BOSS DIAMETER/LENGTH REDUCED

KEYWAY MAY BE ADDED

BORES MAY BE INCREASED (IF GEAR ALLOWS)

All modifications are at the prices below and sizes are in imperial or metric.

ALTERED BORES (INCREASED)	up to $\varnothing 25$ mm	£4.35
	$\varnothing 26$ – $\varnothing 49$ mm	£10.46
	$\varnothing 50$ – $\varnothing 99$ mm	£20.95
	over $\varnothing 100$ mm	£43.58
KEYWAYS	up to 8mm	£6.12
	over 8mm	£18.32
TAPPED HOLES	up to 8mm	£3.51
	over 8mm	£5.22
PIN HOLES	up to 8mm	£2.64
	over 8mm	£3.51

HARDENING

Carburise & case hardened or through hardened	(up to $\varnothing 100$ mm) from £90.00 Per Batch
Chemically blacked	(up to $\varnothing 100$ mm) from £90.00 Per Batch
Induction or flame hardened, case hardened teeth only	(up to $\varnothing 100$ mm) from £134.50 Per Batch



Lloyd's Register
LRQA

Certificate of Approval

This is to certify that the Management System of:

HPC Gears Ltd

Unit 14, Foxwood Industrial Park, Chesterfield, S41 9RN, United Kingdom

has been approved by LRQA to the following standards:

ISO 9001:2008

Issued By: Lloyd's Register Quality Assurance Ltd

Current Issue Date: 29 February 2016
Expiry Date: 14 September 2018
Certificate Identity Number: 10000792

Original Approvals:
ISO 9001 20 February 2001

Approval Numbers: ISO 9001 – 00002523

The scope of this approval is applicable to:

Manufacture, stockholding and distribution of precision gears, gearboxes and mechanical transmission products.



001

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Issued By: Lloyd's Register Quality Assurance Ltd, 1 Tinsley Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom



HPC Gears Ltd

'Never Knowingly Outpriced'

Custom Made Gears

**48hr Breakdown and
Replacement Service**





GEARBOXES

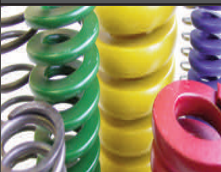
1

LINEAR MOTION

2

COUPLING

3



SHAFTS & BEARING

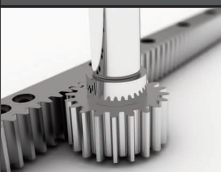
4

FASTENERS

5

MECHANICAL

6



LUBRICANTS

7

MOTORS

8

GROUND RACKS & GEARS

9



RATCHETS & PAWLS

10

TOOTH BAR STOCK

11

PULLEY & BELTS

12



SPROCKETS & CHAINS

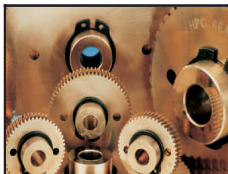
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BEVEL GEARS

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WORM & WHEELS

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ANTIBACK. WORM & WHEELS 16



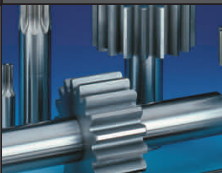
INTERNAL GEARS 17



DOUBLE GEARS 18



ANTIBACKLASH GEARS 19



PINIONS & PINIONS SHAFTS 20



BUDGET RANGE 21



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DID YOU KNOW WE DO CUSTOM MADE GEARS?

www.hpcgears.com



At www.hpcgears.com we offer . . .

- * Express **BREAKDOWN** service.
- * Custom made gears to samples and drawings.
- * From large production runs to one off replacements.
- * 90,000 stock products, available for instant despatch.
- We are never knowingly outpriced.

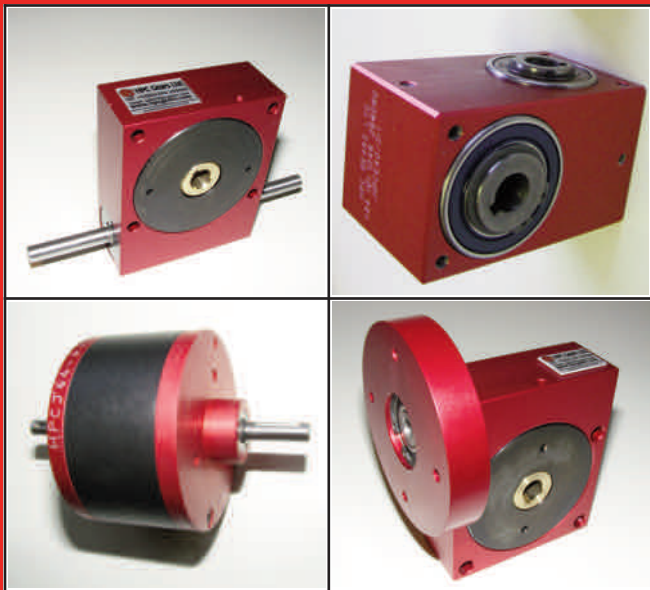
Sales/Technical Team :

Tel : +44 (0) 1246 268080

Email : sales@hpcgears.com

Gearboxes

Pages 1.2 – 1.106



Gearboxes

Output Torque Range
0.94Nm to 3.75Nm

Ratio
6.66:1 - 80:1

Worm / Wheel Reduction

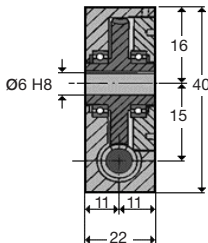
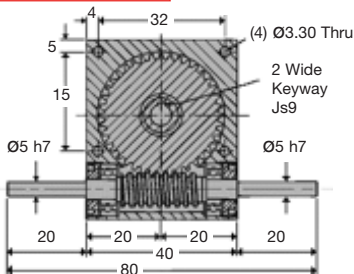
Shaft Input

HPCP15

PRECISION WORM GEAR REDUCERS HPCP15



WEIGHT	0.15 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	6000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio						
		6.66:1	8:1	10:1	13.33:1	20:1	40:1	80:1
Output Torque	3000	1.05	1.13	1.20	1.28	1.43	1.58	0.94
	2000	1.28	1.28	1.35	1.35	1.58	1.80	1.07
	1000	1.58	1.73	1.73	1.88	2.03	2.18	1.28
	500	2.03	2.03	2.10	2.18	2.40	2.63	1.46
	200	2.55	2.63	2.63	2.78	2.93	3.08	1.70
	100	2.93	2.93	3.08	3.15	3.23	3.38	1.91
	50	3.30	3.38	3.38	3.45	3.53	3.60	2.04
10	3.60	3.63	3.68	3.68	3.75	3.75	2.04	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Eff. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP15-6	6.66:1	6000	900	86	Please Consult Technical	£111.26
HPCP15-8	8:1	6000	750	85		£111.26
HPCP15-10	10:1	6000	600	84		£111.26
HPCP15-13	13.33:1	6000	450	78		£111.26
HPCP15-20	20:1	6000	300	71		£111.26
HPCP15-40	40:1	6000	150	60		£111.26
HPCP15-80	80:1	6000	75	32		£111.26

Output Shafts: HPCP20-X (Single), HPCP20-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.2



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Output Torque Range
0.94Nm to 3.75Nm

Ratio
6.66:1 - 80:1

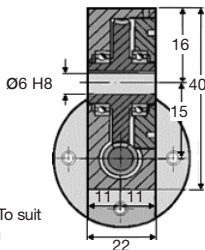
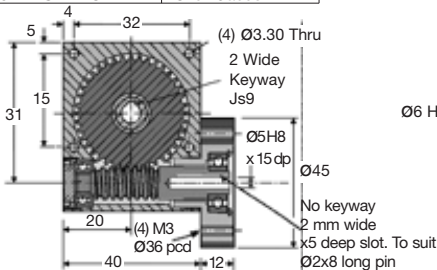
Gearboxes

HPCPF15

Worm / Wheel Reduction

Hollow Input

WEIGHT	0.21 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	6000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM	Reduction ratio						
		6.66:1	8:1	10:1	13.33:1	20:1	40:1	80:1
Output Torque	3000	1.05	1.13	1.20	1.28	1.43	1.58	0.94
	2000	1.28	1.28	1.35	1.35	1.58	1.80	1.07
	1000	1.58	1.73	1.73	1.88	2.03	2.18	1.28
	500	2.03	2.03	2.10	2.18	2.40	2.63	1.46
	200	2.55	2.63	2.63	2.78	2.93	3.08	1.70
	100	2.93	2.93	3.08	3.15	3.23	3.38	1.91
	50	3.30	3.38	3.38	3.45	3.53	3.60	2.04
10	3.60	3.63	3.68	3.68	3.75	3.75	2.04	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF15-6	6.66:1	6000	900	86	Please Consult Technical	£141.87
HPCPF15-8	8:1	6000	750	85		£141.87
HPCPF15-10	10:1	6000	600	84		£141.87
HPCPF15-13	13.33:1	6000	450	78		£141.87
HPCPF15-20	20:1	6000	300	71		£141.87
HPCPF15-40	40:1	6000	150	60		£141.87
HPCPF15-80	80:1	6000	75	32		£141.87

Output Shafts: HPCP20-X (Single), HPCP20-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only



Gearboxes

Output Torque Range
1.25Nm to 5Nm

Ratio
5:1 - 120:1

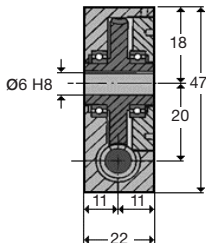
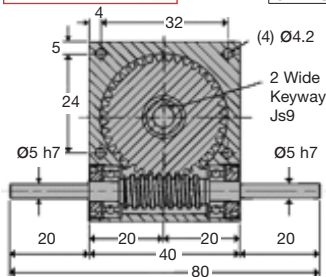
Worm / Wheel Reduction

Shaft Input

HPCP20



WEIGHT	0.18 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	6000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio						
		10:1	12:1	15:1	20:1	30:1	60:1	120:1
Output Torque	3000	1.4	1.5	1.6	1.7	1.9	2.1	1.25
	2000	1.7	1.7	1.8	1.8	2.1	2.4	1.42
	1000	2.1	2.3	2.3	2.5	2.7	2.9	1.70
	500	2.7	2.7	2.8	2.9	3.2	3.5	1.94
	200	3.4	3.5	3.5	3.7	3.9	4.1	2.27
	100	3.9	3.9	4.1	4.2	4.3	4.5	2.55
	50	4.4	4.5	4.5	4.6	4.7	4.8	2.72
10	4.8	4.8	4.9	4.9	5.0	5.0	2.72	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP20-10	10:1	6000	600	86	YES	£123.50
HPCP20-12	12:1	6000	500	85	YES	£123.50
HPCP20-15	15:1	6000	400	84	YES	£123.50
HPCP20-20	20:1	6000	300	78	YES	£123.50
HPCP20-30	30:1	6000	200	71	YES/NO	£123.50
HPCP20-60	60:1	6000	100	60	NO	£123.50
HPCP20-S	5:1-120:1 SPECIAL RATIO					£157.29
HPCP20-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£210.74

Output Shafts: HPCP20-X (Single), HPCP20-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.



Output Torque Range
1.25Nm to 5Nm

Ratio
5:1 - 120:1

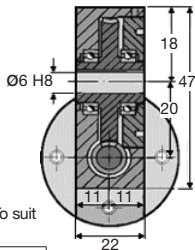
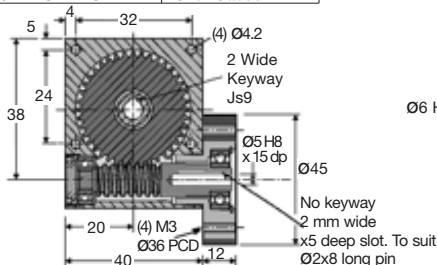
Gearboxes

HPCPF20

Worm / Wheel Reduction

Hollow Input

WEIGHT	0.23 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	6000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio						
		10:1	12:1	15:1	20:1	30:1	60:1	120:1
Output Torque	3000	1.4	1.5	1.6	1.7	1.9	2.1	1.25
	2000	1.7	1.7	1.8	1.8	2.1	2.4	1.42
	1000	2.1	2.3	2.3	2.5	2.7	2.9	1.70
	500	2.7	2.7	2.8	2.9	3.2	3.5	1.94
	200	3.4	3.5	3.5	3.7	3.9	4.1	2.27
	100	3.9	3.9	4.1	4.2	4.3	4.5	2.55
	50	4.4	4.5	4.5	4.6	4.7	4.8	2.72
10	4.8	4.8	4.9	4.9	5.0	5.0	2.72	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Eff. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF20-10	10:1	6000	600	86	YES	£157.47
HPCPF20-12	12:1	6000	500	85	YES	£157.47
HPCPF20-15	15:1	6000	400	84	YES	£157.47
HPCPF20-20	20:1	6000	300	78	YES	£157.47
HPCPF20-30	30:1	6000	200	71	YES/NO	£157.47
HPCPF20-60	60:1	6000	100	60	NO	£157.47
HPCPF20-S	5:1-120:1 SPECIAL RATIO					£195.28
HPCPF20-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£261.54

Output Shafts: HPCP20-X (Single), HPCP20-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003



1.5

Gearboxes PRECISION WORM GEAR REDUCERS HPCPF20

Gearboxes

Output Torque Range
2.5Nm to 8.8Nm

Ratio
5:1 - 120:1

Worm / Wheel Reduction

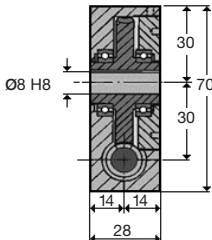
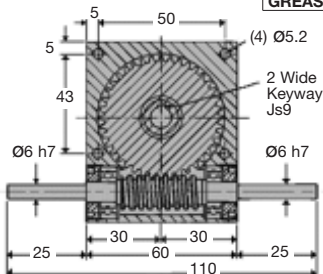
Shaft Input

HPCP30

PRECISION WORM GEAR REDUCERS HPCP30



WEIGHT	0.48 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	5000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	2.5	2.5	2.6	2.7	3.0	3.5
	2000	2.8	2.9	3.0	3.2	3.6	4.1
	1000	3.5	3.7	4.0	4.2	4.5	5.0
	500	4.6	4.7	4.9	5.1	5.3	5.8
	200	5.4	5.6	5.7	5.9	6.2	6.6
	100	6.0	6.0	6.5	6.5	7.0	7.5
	50	7.5	7.8	8.0	8.3	8.3	8.6
	10	8.0	8.0	8.3	8.5	8.5	8.8

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP30-10	10:1	5000	500	90	YES	£152.76
HPCP30-12	12:1	5000	416	88	YES	£152.76
HPCP30-15	15:1	5000	333	86	YES	£152.76
HPCP30-20	20:1	5000	250	84	YES	£152.76
HPCP30-30	30:1	5000	166	78	YES/NO	£152.76
HPCP30-60	60:1	5000	83	70	NO	£152.76
HPCP30-S	5:1-120:1	SPECIAL RATIO				£201.51
HPCP30-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£268.58

Output Shafts: HPCP30-X (Single), HPCP30-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.6



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
2.5Nm to 8.8Nm

Ratio
5:1 - 120:1

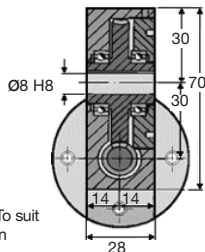
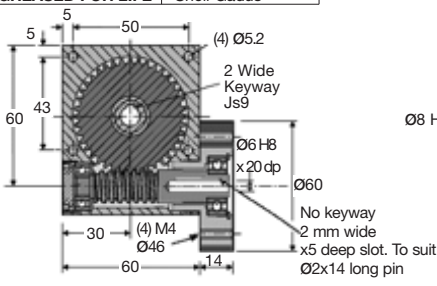
Gearboxes

HPCPF30

Worm / Wheel Reduction

Hollow Input

WEIGHT	0.59 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	5000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	2.5	2.5	2.6	2.7	3.0	3.5
	2000	2.8	2.9	3.0	3.2	3.6	4.1
	1000	3.5	3.7	4.0	4.2	4.5	5.0
	500	4.6	4.7	4.9	5.1	5.3	5.8
	200	5.4	5.6	5.7	5.9	6.2	6.6
	100	6.0	6.0	6.5	6.5	7.0	7.5
	50	7.5	7.8	8.0	8.3	8.3	8.6
	10	8.0	8.0	8.3	8.5	8.5	8.8

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF30-10	10:1	5000	500	90	YES	£189.38
HPCPF30-12	12:1	5000	416	88	YES	£189.38
HPCPF30-15	15:1	5000	333	86	YES	£189.38
HPCPF30-20	20:1	5000	250	84	YES	£189.38
HPCPF30-30	30:1	5000	166	78	YES/NO	£189.38
HPCPF30-60	60:1	5000	83	70	NO	£189.38
HPCPF30-S	5:1-120:1	SPECIAL RATIO				£250.28
HPCPF30-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£333.59

Output Shafts: HPCP30-X (Single), HPCP30-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

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1.7

Gearboxes PRECISION WORM GEAR REDUCERS HPCPF30

Gearboxes

Output Torque Range
5Nm to 18Nm

Ratio
5:1 - 120:1

Worm / Wheel Reduction

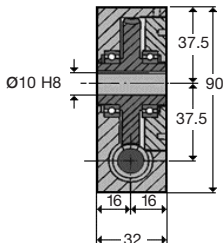
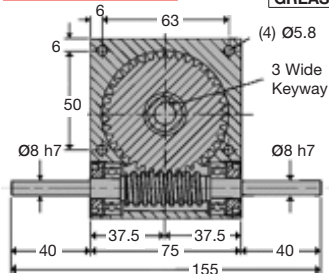
Shaft Input

HPCP40

PRECISION WORM GEAR REDUCERS HPCP40



WEIGHT	0.92 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	5.0	5.2	5.4	5.6	6.4	7.2
	2000	5.5	5.8	6.2	6.6	7.3	8.0
	1000	7.1	7.5	8.0	8.2	9.0	10.0
	500	8.9	9.1	9.6	10.0	10.5	11.4
	200	11.6	11.9	12.3	12.5	13.5	14.2
	100	13.4	13.6	14.1	14.6	15.3	16.0
	50	15.1	15.5	16.2	16.4	17.3	17.6
	10	17.6	17.6	17.6	17.7	17.8	18.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP40-10	10:1	4000	400	89	YES	£207.03
HPCP40-12	12:1	4000	333	87	YES	£207.03
HPCP40-15	15:1	4000	266	85	YES	£207.03
HPCP40-20	20:1	4000	200	83	YES	£207.03
HPCP40-30	30:1	4000	133	76	YES/NO	£207.03
HPCP40-60	60:1	4000	66	65	NO	£207.03
HPCP40-S	5:1-120:1 SPECIAL RATIO					£274.76
HPCP40-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£327.09

Output Shafts: HPCP40-X (Single), HPCP40-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.8



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
5Nm to 18Nm

Ratio
5:1 - 120:1

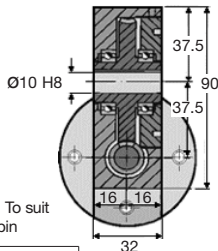
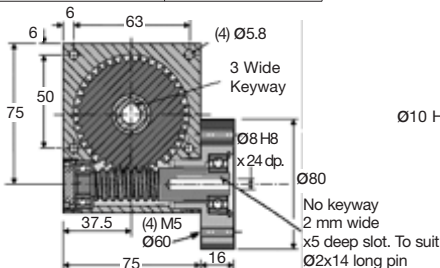
Gearboxes

HPCPF40

Worm / Wheel Reduction

Hollow Input

WEIGHT	1.15 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	5.0	5.2	5.4	5.6	6.4	7.2
	2000	5.5	5.8	6.2	6.6	7.3	8.0
	1000	7.1	7.5	8.0	8.2	9.0	10.0
	500	8.9	9.1	9.6	10.0	10.5	11.4
	200	11.6	11.9	12.3	12.5	13.5	14.2
	100	13.4	13.6	14.1	14.6	15.3	16.0
	50	15.1	15.5	16.2	16.4	17.3	17.6
	10	17.6	17.6	17.6	17.7	17.8	18.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF40-10	10:1	4000	400	89	YES	£257.13
HPCPF40-12	12:1	4000	333	87	YES	£257.13
HPCPF40-15	15:1	4000	266	85	YES	£257.13
HPCPF40-20	20:1	4000	200	83	YES	£257.13
HPCPF40-30	30:1	4000	133	76	YES/NO	£257.13
HPCPF40-60	60:1	4000	66	65	NO	£257.13
HPCPF40-S	5:1-120:1 SPECIAL RATIO					£341.28
HPCPF40-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£427.65

Output Shafts: HPCP40-X (Single), HPCP40-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

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1.9

Gearboxes PRECISION WORM GEAR REDUCERS HPCPF40

Gearboxes

Output Torque Range
10.3Nm to 40Nm

Ratio
5:1 - 120:1

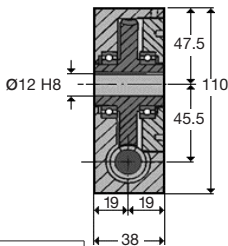
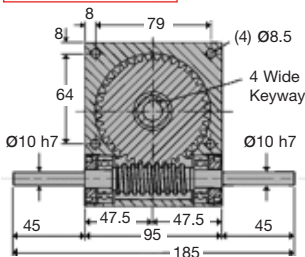
Worm / Wheel Reduction

Shaft Input

HPCP45



WEIGHT	1.70 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3500 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	10.3	10.8	11.3	12.2	13.2	14.7
	2000	11.7	12.2	12.7	13.2	14.7	17.1
	1000	14.7	15.2	16.2	17.1	18.1	20.6
	500	19.1	19.6	20.6	21.6	22.5	24.5
	200	24.4	25.5	26.4	27.0	28.9	30.0
	100	28.3	28.9	29.4	30.3	31.8	33.8
	50	32.3	32.8	33.8	34.3	34.5	35.2
10	39.9	39.9	39.9	40.0	40.0	40.0	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Eff. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP45-10	10:1	3500	350	90	YES	£240.71
HPCP45-12	12:1	3500	291	89	YES	£240.71
HPCP45-15	15:1	3500	233	86	YES	£240.71
HPCP45-20	20:1	3500	175	85	YES	£240.71
HPCP45-30	30:1	3500	116	78	YES/NO	£240.71
HPCP45-60	60:1	3500	58	67	NO	£240.71
HPCP45-S	5:1-120:1 SPECIAL RATIO					£290.71
HPCP45-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£355.63

Output Shafts: HPCP45-X (Single), HPCP45-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.10



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
10.3Nm to 40Nm

Ratio
5:1 - 120:1

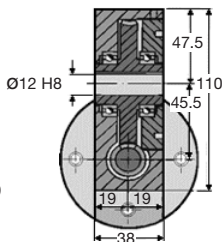
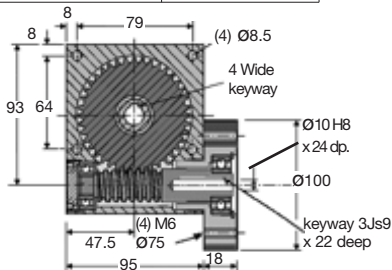
Gearboxes

HPCPF45

Worm / Wheel Reduction

Hollow Input

WEIGHT	2.10 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3500 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	10.3	10.8	11.3	12.2	13.2	14.7
	2000	11.7	12.2	12.7	13.2	14.7	17.1
	1000	14.7	15.2	16.2	17.1	18.1	20.6
	500	19.1	19.6	20.6	21.6	22.5	24.5
	200	24.4	25.5	26.4	27.0	28.9	30.0
	100	28.3	28.9	29.4	30.3	31.8	33.8
	50	32.3	32.8	33.8	34.3	34.5	35.2
	10	39.9	39.9	39.9	40.0	40.0	40.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF45-10	10:1	3500	350	90	YES	£298.95
HPCPF45-12	12:1	3500	291	89	YES	£298.95
HPCPF45-15	15:1	3500	233	86	YES	£298.95
HPCPF45-20	20:1	3500	175	85	YES	£298.95
HPCPF45-30	30:1	3500	116	78	YES/NO	£298.95
HPCPF45-60	60:1	3500	58	67	NO	£298.95
HPCPF45-S	5:1-120:1 SPECIAL RATIO					£361.05
HPCPF45-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£441.71

Output Shafts: HPCP45-X (Single), HPCP45-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

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1.11

Gearboxes PRECISION WORM GEAR REDUCERS HPCPF45

Gearboxes

Output Torque Range
13.4Nm to 57Nm

Ratio
5:1 - 120:1

Worm / Wheel Reduction

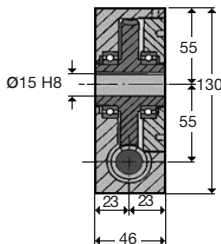
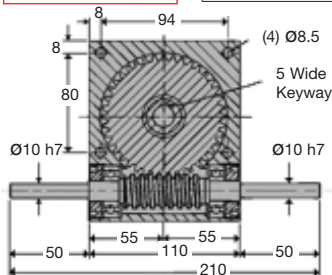
Shaft Input

HPCP55

PRECISION WORM GEAR REDUCERS HPCP55



WEIGHT	2.40 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2) with Steel Hub
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	13.4	14.0	14.8	16.2	17.6	20.4
	2000	16.2	16.9	18.3	19.1	20.4	23.9
	1000	21.1	22.5	23.2	24.6	25.3	28.8
	500	27.4	28.1	28.8	30.2	31.6	35.1
	200	34.4	35.1	36.5	37.9	39.3	42.1
	100	40.0	41.4	42.1	42.8	44.9	46.3
	50	45.6	46.3	47.7	48.4	49.8	50.5
	10	56.8	56.8	56.8	57.0	57.0	57.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Eff. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP55-10	10:1	3000	300	89	YES	£285.24
HPCP55-12	12:1	3000	250	88	YES	£285.24
HPCP55-15	15:1	3000	200	86	YES	£285.24
HPCP55-20	20:1	3000	150	84	YES	£285.24
HPCP55-30	30:1	3000	100	78	YES/NO	£285.24
HPCP55-60	60:1	3000	50	69	NO	£285.24
HPCP55-S	5:1-120:1 SPECIAL RATIO					£327.81
HPCP55-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£430.26

Output Shafts: HPCP55-X (Single), HPCP55-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.12



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Output Torque Range
13.4Nm to 57Nm

Ratio
5:1 - 120:1

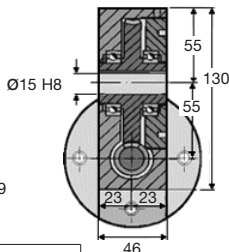
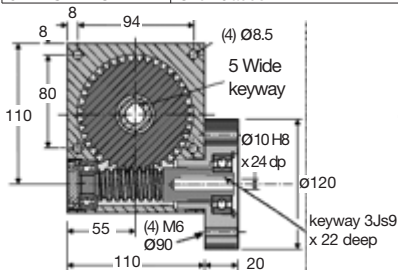
Gearboxes

HPCPF55

Worm / Wheel Reduction

Hollow Input

WEIGHT	3.04 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2) with Steel Hub
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	13.4	14.0	14.8	16.2	17.6	20.4
	2000	16.2	16.9	18.3	19.1	20.4	23.9
	1000	21.1	22.5	23.2	24.6	25.3	28.8
	500	27.4	28.1	28.8	30.2	31.6	35.1
	200	34.4	35.1	36.5	37.9	39.3	42.1
	100	40.0	41.4	42.1	42.8	44.9	46.3
	50	45.6	46.3	47.7	48.4	49.8	50.5
	10	56.8	56.8	56.8	57.0	57.0	57.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF55-10	10:1	3000	300	89	YES	£354.31
HPCPF55-12	12:1	3000	250	88	YES	£354.31
HPCPF55-15	15:1	3000	200	86	YES	£354.31
HPCPF55-20	20:1	3000	150	84	YES	£354.31
HPCPF55-30	30:1	3000	100	78	YES/NO	£354.31
HPCPF55-60	60:1	3000	50	69	NO	£354.31
HPCPF55-S	5:1-120:1 SPECIAL RATIO					£407.18
HPCPF55-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£562.56

Output Shafts: HPCPF55-X (Single), HPCPF55-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

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1.13

Gearboxes PRECISION WORM GEAR REDUCERS HPCPF55

Gearboxes

Output Torque Range
30Nm to 118Nm

Ratio
5:1 - 120:1

Worm / Wheel Reduction

Shaft Input

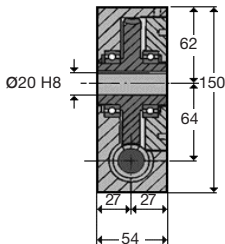
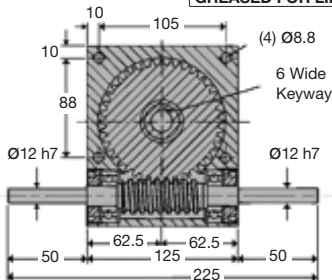
HPCP60

PRECISION WORM GEAR REDUCERS HPCP60

Gearboxes



WEIGHT	4.1 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2) with Steel Hub
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	30	31	33	35	38	44
	2000	33	36	39	41	44	50
	1000	45	47	50	54	58	64
	500	58	60	62	65	69	73
	200	77	78	80	84	88	94
	100	88	89	91	94	97	102
	50	100	102	104	105	107	110
	10	113	114	115	116	116	118

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP60-10	10:1	3000	300	90	YES	£360.57
HPCP60-12	12:1	3000	250	89	YES	£360.57
HPCP60-15	15:1	3000	200	85	YES	£360.57
HPCP60-20	20:1	3000	150	85	YES	£360.57
HPCP60-30	30:1	3000	100	78	YES/NO	£360.57
HPCP60-60	60:1	3000	50	68	NO	£355.57
HPCP60-S	5:1-120:1 SPECIAL RATIO					£377.27
HPCP60-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£535.09

Output Shafts: HPCP60-X (Single), HPCP60-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.14



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
30Nm to 118Nm

Ratio
5:1 - 120:1

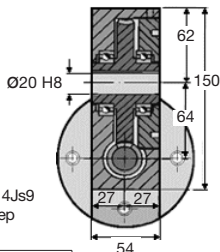
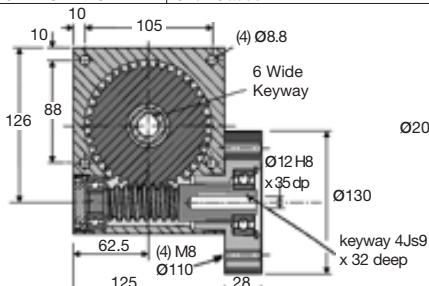
Gearboxes

HPCPF60

Worm / Wheel Reduction

Hollow Input

WEIGHT	5.1 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2) with Steel Hub
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	30	31	33	35	38	44
	2000	33	36	39	41	44	50
	1000	45	47	50	54	58	64
	500	58	60	62	65	69	73
	200	77	78	80	84	88	94
	100	88	89	91	94	97	102
	50	100	102	104	105	107	110
10	113	114	115	116	116	118	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Eff. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF60-10	10:1	3000	300	90	YES	£399.71
HPCPF60-12	12:1	3000	250	89	YES	£399.71
HPCPF60-15	15:1	3000	200	85	YES	£399.71
HPCPF60-20	20:1	3000	150	85	YES	£399.71
HPCPF60-30	30:1	3000	100	78	YES/NO	£399.71
HPCPF60-60	60:1	3000	50	68	NO	£399.71
HPCPF60-S	5:1-120:1		SPECIAL RATIO			£467.02
HPCPF60-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£611.66

Output Shafts: HPCP60-X (Single), HPCP60-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

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1.15

Gearboxes
PRECISION WORM GEAR REDUCERS HPCPF60

Gearboxes

Output Torque Range
38Nm to 164Nm

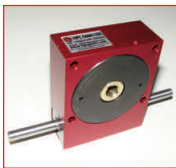
Ratio
5:1 - 120:1

Worm / Wheel Reduction

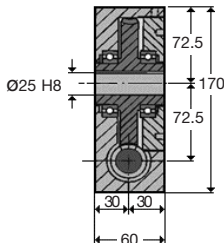
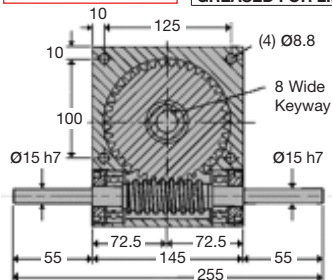
Shaft Input

HPCP70

PRECISION WORM GEAR REDUCERS HPCP70



WEIGHT	6.40 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2) with Steel Hub
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	38	40	42	45	50	56
	2000	47	49	53	55	61	69
	1000	61	65	67	71	73	83
	500	77	81	83	87	91	100
	200	99	101	105	107	113	121
	100	115	119	121	123	129	133
	50	129	133	137	139	144	146
	10	160	160	160	164	164	164

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCP70-10	10:1	3000	300	90	YES	£400.42
HPCP70-12	12:1	3000	250	89	YES	£400.42
HPCP70-15	15:1	3000	200	86	YES	£400.42
HPCP70-20	20:1	3000	150	85	YES	£400.42
HPCP70-30	30:1	3000	100	78	YES/NO	£400.42
HPCP70-60	60:1	3000	50	67	NO	£400.42
HPCP70-S	5:1-120:1		SPECIAL RATIO			£426.61
HPCP70-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£628.14

Output Shafts: HPCP70-X (Single), HPCP70-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.16



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
38Nm to 164Nm

Ratio
5:1 - 120:1

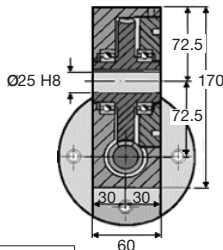
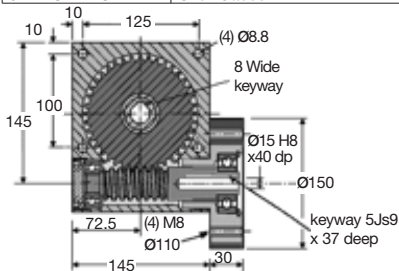
Gearboxes

HPCPF70

Worm / Wheel Reduction

Hollow Input

WEIGHT	7.90 Kg
BACKLASH	0° 30'
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40(EN24)
WHEEL MAT'L	Alum. Bronze (AB2) with Steel Hub
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	20:1	30:1	60:1
Output Torque	3000	38	40	42	45	50	56
	2000	47	49	53	55	61	69
	1000	61	65	67	71	73	83
	500	77	81	83	87	91	100
	200	99	101	105	107	113	121
	100	115	119	121	123	129	133
	50	129	133	137	139	144	146
10	160	160	160	164	164	164	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max Input Speed	Max Output Speed	% Effi. at 1000 Rpm	Backdrive	PRICE EACH 1-5
HPCPF70-10	10:1	3000	300	90	YES	£450.75
HPCPF70-12	12:1	3000	250	89	YES	£450.75
HPCPF70-15	15:1	3000	200	86	YES	£450.75
HPCPF70-20	20:1	3000	150	85	YES	£450.75
HPCPF70-30	30:1	3000	100	78	YES/NO	£450.75
HPCPF70-60	60:1	3000	50	67	NO	£450.75
HPCPF70-S	5:1-120:1		SPECIAL RATIO			£533.28
HPCPF70-A	SPECIAL MINIMUM BACKLASH 0° 8' OF ARC					£645.42

Output Shafts: HPCP70-X (Single), HPCP70-DX (Double): See page 1.23.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only

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1.17

Gearboxes PRECISION WORM GEAR REDUCERS HPCPF70

HPC Gears



We are constantly striving to add additional products to our range so if the item you require does not appear in this catalogue visit :

www.hpcgears.com

Or give us a call
Tel : +44 (0) 1246 268080

Alternatively email
sales@hpcgears.com

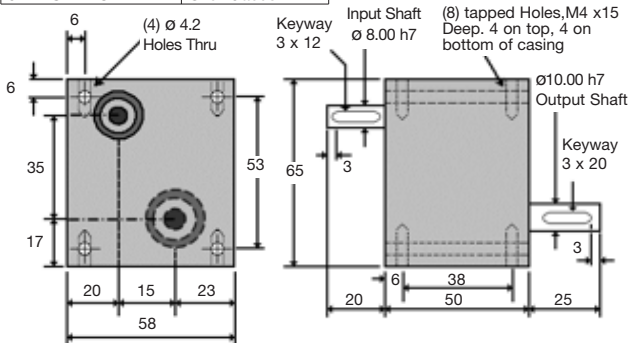
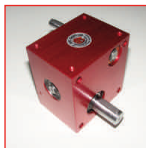
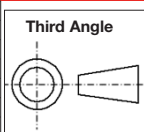
Output Torque Range
2.2Nm to 4.1Nm

Ratio
25:1 - 400:1

Gearboxes

HPCPP35 Double Reduction, Worm Gear Reducers

WEIGHT	0.7 Kg
BACKLASH (approx.)	2° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40 (EN24)
WHEEL MAT'L	Alum. Bronz (AB2)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio		
		100:1	200:1	400:1
Output Torque	3000	2.2	2.3	2.5
	2000	2.5	2.7	2.8
	1000	2.8	3.0	3.1
	500	3.1	3.5	3.6
	100	3.8	3.9	4.0
	50	3.9	4.0	4.0
	10	4.0	4.1	4.1

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output RPM	Self Locking Output	PRICE EACH 1-5
HPCPP35-100	100:1	52	3000	30.0	NO	£292.13
HPCPP35-200	200:1	45	3000	15.0	NO	£292.13
HPCPP35-400	400:1	34	3000	7.5	YES	£292.13
HPCPP35-SP	Standard Ratios: Replace SP with required ratio					£341.86

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.19

Gearboxes
DOUBLE REDUCTION HPCPP35

Gearboxes

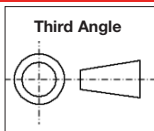
Output Torque Range
6.5Nm to 12.8Nm

Ratio
25:1 - 400:1

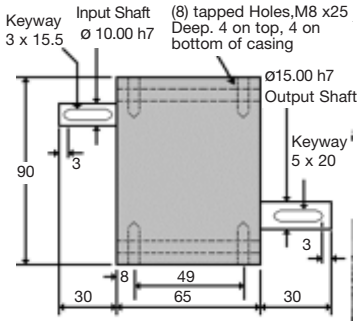
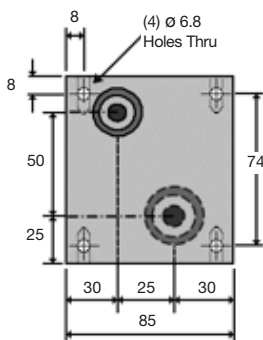
Double Reduction, Worm Gear Reducers

HPCPP50

Gearboxes DOUBLE REDUCTION HPCPP50



WEIGHT	1.8 Kg
BACKLASH (approx.)	2° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40 (EN24)
WHEEL MAT'L	Alum. Bronz (AB2)
GREASED FOR LIFE	Shell Gadus



N.m. Output Torque	RPM Input	Reduction ratio		
		100:1	200:1	400:1
3000	6.5	7.1	8.2	
2000	7.2	7.8	8.9	
1000	6.2	9.0	9.8	
500	9.5	10.2	11.5	
100	11.0	11.6	12.2	
50	12.0	12.3	12.6	
10	12.7	12.8	12.8	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output RPM	Self Locking Output	PRICE EACH 1-5
HPCPP50-100	100:1	54	3000	30.0	NO	£341.86
HPCPP50-200	200:1	48	3000	15.0	NO	£341.86
HPCPP50-400	400:1	36	3000	7.5	YES	£341.86
HPCPP50-SP	Standard Ratios: Replace SP with required ratio					£388.48

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.20



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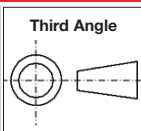
Output Torque Range
17.8Nm to 34Nm

Ratio
25:1 - 400:1

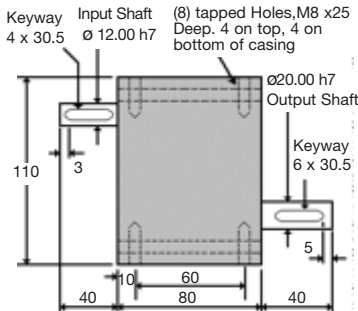
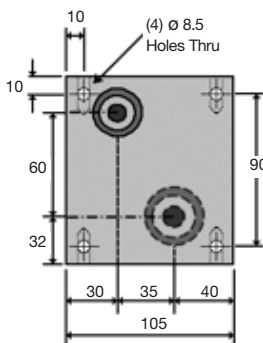
Gearboxes

HPCPP60 Double Reduction, Worm Gear Reducers

WEIGHT	3.3 Kg
BACKLASH (approx.)	2° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	817M40 (EN24)
WHEEL MAT'L	Alum. Bronz (AB2)
GREASED FOR LIFE	Shell Gadus



Gearboxes
DOUBLE REDUCTION HPCPP60



N.m.	RPM Input	Reduction ratio		
		100:1	200:1	400:1
Output Torque	3000	17.8	19.4	22.5
	2000	20.0	21.6	24.8
	1000	22.5	25.0	26.8
	500	26.1	28.0	31.6
	100	30.5	32.0	34.0
	50	33.0	34.0	34.0
	10	34.0	34.1	34.1

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output RPM	Self Locking Output	PRICE EACH 1-5
HPCPP60-100	100:1	55	3000	30.0	NO	£432.00
HPCPP60-200	200:1	50	3000	15.0	NO	£432.00
HPCPP60-400	400:1	37	3000	7.5	YES	£432.00
HPCPP60-SP	Standard Ratios: Replace SP with required ratio					£536.11

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.21

HPC P, PF & PP Type Precision Worm Gear Reducers

Technical

Backlash (P-PF): Backlash figures given are at output. Standard backlash approx. 30 arc mins. Low backlash approx. 8 arc mins. On low backlash gearboxes eccentrics may be used to control backlash.

Backlash (PP): 2° approx.

Torque: Torque figures are given as a guide only. Testing in your application is necessary.

Specials: Specials are available to any specification. Please consult our HPC Gears Technical Department.

Modifications: Are available on all our standard gearboxes. Please consult our HPC Gears Technical Department.

Keyways, Bores & Shafts: All bores are toleranced to H8 ISO 286. All shafts to h7 (ground). Keyways are machined to allow the use of parallel DIN 6885 keys (sliding fit).

Lubrications: Gearboxes are greased for life with Shell Gadus S5 V4 2P2.5 (synthetic high speed bearing grease).

Ratios (P-PF): 10:1 - 120:1. Specials are available. Please consult our HPC Gears Technical Department.

Ratios (PP): 10:1 - 400:1.

Materials

Case: Red anodised billet machined aluminium (6082 T6).

Worm: High carbon steel (817M40).

Wheel (P-PF): Billet machined aluminium bronze (CA104) P15 - P45. P55 - P70 use high carbon steel, output hub fitted with aluminium bronze wheel.

Wheel (PP): Billet machined aluminium bronze (CA104).

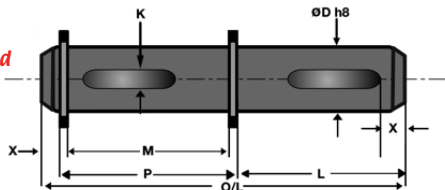
Bearings: High quality steel single row bearings with rubber or steel shields.

Screw Caps: Mild steel with a chemically blacked coating.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C.
- Wider range of operating temperatures are achievable by fitting steel shielded bearings - 30° C to +130° C. Please consult our HPC Gears Technical Department for advice.
- Gearboxes are designed as speed reducers.
- Shafts should always be connected with a flexible coupling.
- Always mount drive components as close to gearbox body as possible to prevent damage to shaft and bearing.
- Avoid all impact to unit on installation as this may cause internal damage.
- We recommend all modifications are carried out by HPC Gears prior to gearbox assembly.

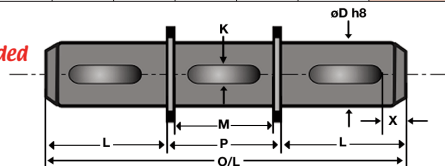
HPCP-X Single Sided



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100+
	List Price		-10%	-15%	-20%	-25%

PART NUMBER	$\varnothing D$	O/L	M	P	X	L	K	PRICE EACH 1-5
SINGLE SIDED								
HPCP20-X	6	50.80	22	23.60	3.00	25	K2 x 22	£15.25
HPCP30-X	8	63.90	28	29.80	3.00	32	K2 x 22	£18.11
HPCP40-X	10	76.60	32	34.20	3.50	40	K3 x 20	£20.35
HPCP45-X	12	88.10	38	40.20	4.00	45	K4 x 25	£21.73
HPCP55-X	15	101.10	46	48.20	4.00	50	K5 x 30	£24.19
HPCP60-X	20	119.80	54	56.60	4.50	60	K6 x 32	£28.30
HPCP70-X	25	135.80	60	62.60	4.50	70	K8 x 40	£32.24

HPCP-DX Double Sided



PART NUMBER	$\varnothing D$	O/L	M	P	X	L	K	PRICE EACH 1-5
DOUBLE SIDED								
HPCP20-DX	6	73.60	22	23.60	1.50	25	K2 x 22	£20.30
HPCP30-DX	8	93.80	28	29.80	5.45	32	K2 x 22	£22.29
HPCP40-DX	10	114.20	32	34.20	9.90	40	K3 x 20	£24.69
HPCP45-DX	12	130.20	38	40.20	4.00	45	K4 x 25	£28.21
HPCP55-DX	15	148.20	46	48.20	9.90	50	K5 x 30	£30.10
HPCP60-DX	20	176.60	54	56.60	4.50	60	K6 x 32	£35.13
HPCP70-DX	25	202.50	60	62.60	4.50	70	K8 x 40	£39.90

Material: 303 Stainless Steel, includes Steel Keys & Circlips.



Gearboxes

Output Torque Range
0.6Nm to 3.84Nm

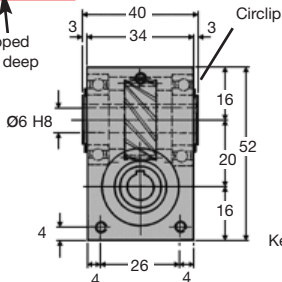
Ratio
1:1 - 40:1

Crossed Helical, Reduction (Hardened Gears) HPCE20

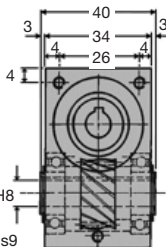
CROSSED HELICAL, REDUCTION GEARBOX HPCE20



(12) tapped
M3 x 8 deep



Circlip



Keyways 2mm Js9

WEIGHT	0.255 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

N.m.	RPM Input	Reduction ratio				
		1:1	2:1	3:1	4:1	5:1
Output Torque	3000	0.6	0.6	0.6	0.6	0.6
	2000	0.7	0.7	0.7	0.7	0.7
	1000	1.0	1.0	1.0	1.0	1.0
	500	1.4	1.4	1.4	1.4	1.4
	100	1.8	1.8	1.8	1.8	1.8
	50	1.9	1.9	1.9	1.9	1.9
	10	2.0	2.0	2.0	2.0	2.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5	
HPCE20-1	1:1	Helical	88	4000	4000	YES	£174.29	
HPCE20-2	2:1	Helical	86	4000	2000	YES	£174.29	
HPCE20-3	3:1	Helical	85	4000	1333	YES	£174.29	
HPCE20-4	4:1	Helical	84	4000	1000	YES	£174.29	
HPCE20-5	5:1	Helical	80	4000	800	YES	£174.29	
HPCE20-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£221.98
HPCE20-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£221.98
HPCE20-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£334.30

Output Shafts: HPCE20-X (Single), HPCE20-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.24



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Output Torque Range
0.6Nm to 3.84Nm

Ratio
1:1 - 40:1

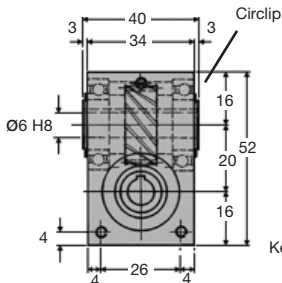
Gearboxes

HPCE20

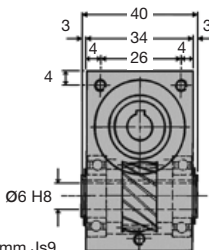
Wormwheel, Reduction (Hardened Worm)

WEIGHT	0.255 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	655M13 Case Hardened
WHEEL MAT'L	Aluminium Bronze CA104
GREASED FOR LIFE	Shell Gadus

(12) tapped M3 x 8 deep



Keyways 2mm Js9



N.m.	RPM Input	Reduction ratio			
		8:1	10:1	20:1	40:1
Output Torque	3000	-	-	-	-
	2000	1.05	1.20	1.36	1.52
	1000	1.31	1.47	1.63	1.80
	500	1.93	2.08	2.22	2.37
	100	2.60	2.70	2.83	2.95
	50	2.95	3.13	3.31	3.40
	10	3.62	3.70	3.80	3.84

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max Speed I/P	Max Speed O/P	Back-drive	PRICE EACH 1-5	
HPCE20-8	8:1	worm wheel	80	2000	250	YES	£174.29	
HPCE20-10	10:1	worm wheel	73	2000	200	YES	£174.29	
HPCE20-20	20:1	worm wheel	67	2000	100	NO	£174.29	
HPCE20-40	40:1	worm wheel	60	2000	50	NO	£174.29	
HPCE20-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£221.98
HPCE20-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£221.98
HPCE20-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£334.30

Output Shafts: HPCE20-X (Single), HPCE20-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.25

Gearboxes CROSSED HELICAL, REDUCTION GEARBOX HPCE20

Gearboxes

Output Torque Range
1.5Nm to 9Nm

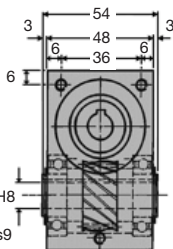
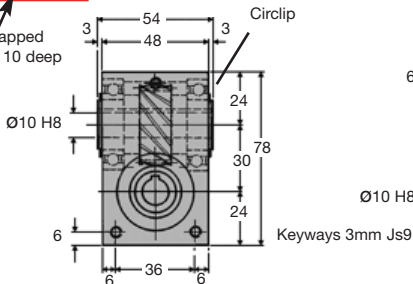
Ratio
1:1 - 40:1

Crossed Helical, Reduction (Hardened Gears) HPCE30

CROSSED HELICAL, REDUCTION GEARBOX HPCE30



(12) tapped
M4 x 10 deep



WEIGHT	0.720 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

N.m.	RPM Input	Reduction ratio				
		1:1	2:1	3:1	4:1	5:1
Output Torque	3000	1.5	1.5	1.5	1.5	1.5
	2000	2.0	2.0	2.0	2.0	2.0
	1000	2.5	2.5	2.5	2.5	2.5
	500	3.0	3.0	3.0	3.0	3.0
	100	4.0	4.0	4.0	4.0	4.0
	50	4.5	4.5	4.5	4.5	4.5
	10	5.0	5.0	5.0	5.0	5.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5	
HPCE30-1	1:1	Helical	90	4000	4000	YES	£200.01	
HPCE30-2	2:1	Helical	88	4000	2000	YES	£200.01	
HPCE30-3	3:1	Helical	87	4000	1333	YES	£200.01	
HPCE30-4	4:1	Helical	86	4000	1000	YES	£200.01	
HPCE30-5	5:1	Helical	80	4000	800	YES	£200.01	
HPCE30-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£323.39
HPCE30-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£323.39
HPCE30-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£323.39

Output Shafts: HPCE30-X (Single), HPCE30-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.26



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Output Torque Range
1.5Nm to 9Nm

Ratio
1:1 - 40:1

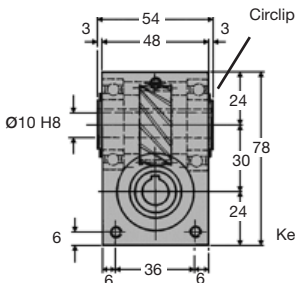
Gearboxes

HPCE30

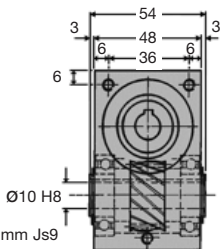
Wormwheel, Reduction (Hardened Worm)

WEIGHT	0.720 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	655M13 Case Hardened
WHEEL MAT'L	Aluminium Bronze CA104
GREASED FOR LIFE	Shell Gadus

(12) tapped
M4 x 10 deep



Keyways 3mm Js9



N.m.	RPM Input	Reduction ratio			
		8:1	10:1	20:1	40:1
Output Torque	3000	-	-	-	-
	2000	-	-	-	-
	1000	3.6	4.2	4.7	5.0
	500	4.9	5.3	5.6	6.0
	100	6.5	7.0	7.1	7.3
	50	7.9	8.4	8.5	8.6
	10	8.5	8.7	8.9	9.0

DISCOUNTS

1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5	
HPCE30-8	8:1	worm wheel	80	1500	187	YES	£200.01	
HPCE30-10	10:1	worm wheel	73	1500	150	YES	£200.01	
HPCE30-20	20:1	worm wheel	67	1500	75	NO	£200.01	
HPCE30-40	40:1	worm wheel	60	1500	37	NO	£200.01	
HPCE30-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£323.39
HPCE30-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£323.39
HPCE30-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£323.39

Output Shafts: HPCE30-X (Single), HPCE30-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.27

Gearboxes CROSSED HELICAL, REDUCTION GEARBOX HPCE30

Gearboxes

Output Torque Range
2.3Nm to 20Nm

Ratio
1:1 - 40:1

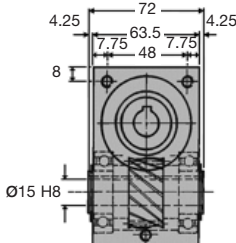
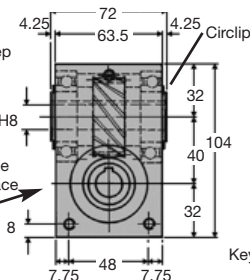
Crossed Helical, Reduction (Hardened Gears) HPCE40

CROSSED HELICAL, REDUCTION GEARBOX HPCE40



(12) tapped
M6 x 14 deep

Grease nipple
fitted on 1 face



Keyways 5mm Js9

WEIGHT	1.67 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

N.m.	RPM Input	Reduction ratio				
		1:1	2:1	3:1	4:1	5:1
Output Torque	3000	2.3	2.3	2.3	2.3	2.3
	2000	2.8	2.8	2.8	2.8	2.8
	1000	3.8	3.8	3.8	3.8	3.8
	500	5.0	5.0	5.0	5.0	5.0
	100	8.0	8.0	8.0	8.0	8.0
	50	9.0	9.0	9.0	9.0	9.0
	10	10.0	10.0	10.0	10.0	10.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5
HPCE40-1	1:1	Helical	92	4000	4000	YES	£264.25
HPCE40-2	2:1	Helical	90	4000	2000	YES	£264.25
HPCE40-3	3:1	Helical	89	4000	1333	YES	£264.25
HPCE40-4	4:1	Helical	88	4000	1000	YES	£264.25
HPCE40-5	5:1	Helical	80	4000	800	YES	£264.25
HPCE40-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio					£334.25
HPCE40-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio					£334.25
HPCE40-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio					£334.25

Output Shafts: HPCE40-X (Single), HPCE40-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.28



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
2.3Nm to 20Nm

Ratio
1:1 - 40:1

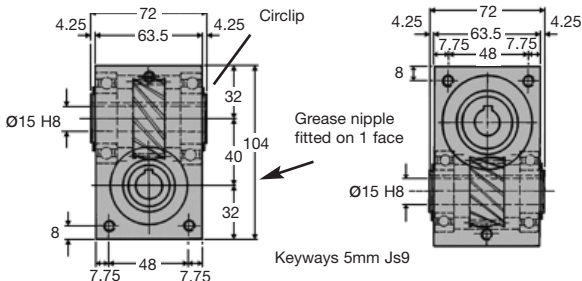
Gearboxes

HPCE40

Wormwheel, Reduction (Hardened Worm)

WEIGHT	1.67 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	655M13 Case Hardened
WHEEL MAT'L	Aluminium Bronze CA104
GREASED FOR LIFE	Shell Gadus

(12) tapped
M6 x 14 deep



N.m.	RPM Input	Reduction ratio			
		8:1	10:1	20:1	40:1
Output Torque	3000	-	-	-	-
	2000	-	-	-	-
	1000	7.3	8.0	8.8	9.7
	500	10.7	11.3	12.2	13.1
	100	14.2	15.0	15.8	16.7
	50	17.1	17.3	17.7	18.2
	10	19.5	19.6	19.8	20.0

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5	
HPCE40-8	8:1	worm wheel	80	1500	187	YES	£264.25	
HPCE40-10	10:1	worm wheel	73	1500	150	YES	£264.25	
HPCE40-20	20:1	worm wheel	67	1500	75	NO	£264.25	
HPCE40-40	40:1	worm wheel	60	1500	37	NO	£264.25	
HPCE40-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£334.25
HPCE40-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£334.25
HPCE40-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£334.25

Output Shafts: HPCE40-X (Single), HPCE40-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.29

Gearboxes CROSSED HELICAL, REDUCTION GEARBOX HPCE40

Gearboxes

Output Torque Range
3.0Nm to 41Nm

Ratio
1:1 - 40:1

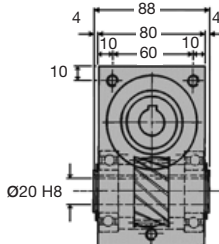
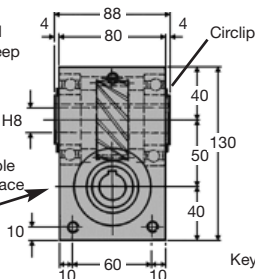
Crossed Helical, Reduction (Hardened Gears) HPCE50

CROSSED HELICAL, REDUCTION GEARBOX HPCE50



(12) tapped
M8 x 16 deep

Ø20 H8
Grease nipple
fitted on 1 face



Keyways 6mm Js9

WEIGHT	3.35 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

N.m.	RPM Input	Reduction ratio				
		1:1	2:1	3:1	4:1	5:1
Output Torque	3000	3.0	3.0	3.0	3.0	3.0
	2000	4.0	4.0	4.0	4.0	4.0
	1000	6.0	6.0	6.0	6.0	6.0
	500	8.0	8.0	8.0	8.0	8.0
	100	12.0	12.0	12.0	12.0	12.0
	50	14.0	14.0	14.0	14.0	14.0
	10	16.0	16.0	16.0	16.0	16.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5
HPCE50-1	1:1	Helical	93	3000	3000	YES	£334.64
HPCE50-2	2:1	Helical	91	3000	1500	YES	£334.64
HPCE50-3	3:1	Helical	90	3000	1000	YES	£334.64
HPCE50-4	4:1	Helical	89	3000	750	YES	£334.64
HPCE50-5	5:1	Helical	80	3000	600	YES	£334.64
HPCE50-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio					£457.95
HPCE50-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio					£457.95
HPCE50-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio					£457.95

Output Shafts: HPCE50-X (Single), HPCE50-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.30



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Output Torque Range
3.0Nm to 41Nm

Ratio
1:1 - 40:1

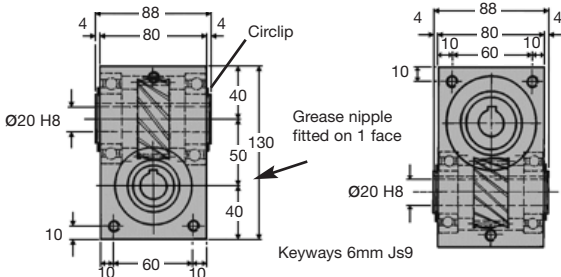
Gearboxes

HPCE50

Wormwheel, Reduction (Hardened Worm)

WEIGHT	3.35 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	655M13 Case Hardened
WHEEL MAT'L	Aluminium Bronze CA104
GREASED FOR LIFE	Shell Gadus

(12) tapped
M8 x 16
deep



N.m.	RPM Input	Reduction ratio			
		8:1	10:1	20:1	40:1
Output Torque	3000	-	-	-	-
	2000	-	-	-	-
	1000	11.3	13.0	15.0	17.0
	500	18.0	20.0	21.0	23.0
	100	25.0	26.0	28.0	30.0
	50	31.0	31.0	32.0	33.0
	10	40.0	40.0	41.0	41.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5	
HPCE50-8	8:1	worm wheel	80	1500	187	YES	£334.64	
HPCE50-10	10:1	worm wheel	73	1500	150	YES	£334.64	
HPCE50-20	20:1	worm wheel	67	1500	75	NO	£334.64	
HPCE50-40	40:1	worm wheel	60	1500	37	NO	£334.64	
HPCE50-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£457.95
HPCE50-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£457.95
HPCE50-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£457.95

Output Shafts: HPCE50-X (Single), HPCE50-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.31

Gearboxes CROSSED HELICAL, REDUCTION GEARBOX HPCE50

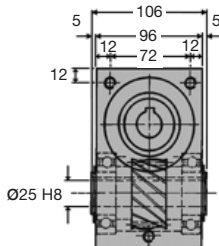
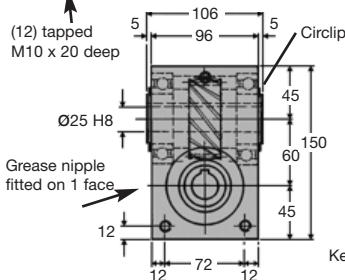
Gearboxes

Output Torque Range
4.5Nm to 62Nm

Ratio
1:1 - 40:1

Crossed Helical, Reduction (Hardened Gears) HPCE60

CROSSED HELICAL, REDUCTION GEARBOX HPCE60



WEIGHT	5.5 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

N.m.	RPM Input	Reduction ratio				
		1:1	2:1	3:1	4:1	5:1
Output Torque	3000	4.5	4.5	4.5	4.5	4.5
	2000	5.5	5.5	5.5	5.5	5.5
	1000	8.0	8.0	8.0	8.0	8.0
	500	10.0	10.0	10.0	10.0	10.0
	100	16.0	16.0	16.0	16.0	16.0
	50	20.0	20.0	20.0	20.0	20.0
	10	24.0	24.0	24.0	24.0	24.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5
HPCE60-1	1:1	Helical	94	3000	3000	YES	£404.07
HPCE60-2	2:1	Helical	92	3000	1500	YES	£404.07
HPCE60-3	3:1	Helical	91	3000	1000	YES	£404.07
HPCE60-4	4:1	Helical	90	3000	750	YES	£404.07
HPCE60-5	5:1	Helical	80	3000	600	YES	£404.07
HPCE60-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio					£540.31
HPCE60-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio					£540.31
HPCE60-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio					£540.31

Output Shafts: HPCE60-X (Single), HPCE60-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.32



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Output Torque Range
4.5Nm to 62Nm

Ratio
1:1 - 40:1

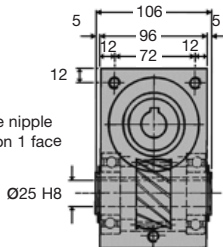
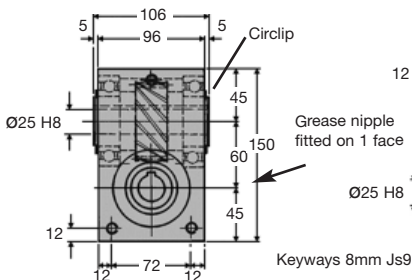
Gearboxes

HPCE60

Wormwheel, Reduction (Hardened Worm)

WEIGHT	5.5 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
WORM MAT'L	655M13 Case Hardened
WHEEL MAT'L	Aluminium Bronze CA104
GREASED FOR LIFE	Shell Gadus

(12) tapped
M10 x 20
deep



Keyways 8mm Js9

N.m.	RPM Input	Reduction ratio			
		8:1	10:1	20:1	40:1
Output Torque	3000	-	-	-	-
	2000	-	-	-	-
	1000	17.8	21.3	22.0	24.0
	500	27.0	29.0	31.0	34.0
	100	37.0	40.2	42.0	44.0
	50	48.0	49.0	50.0	51.0
	10	60.0	60.0	61.0	62.0

DISCOUNTS

1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Type	% Effi. @ 1000 Rpm	Max I/P Speed	Max O/P Speed	Back-drive	PRICE EACH 1-5	
HPCE60-8	8:1	worm wheel	80	1500	187		£404.07	
HPCE60-10	10:1	worm wheel	73	1500	150		£404.07	
HPCE60-20	20:1	worm wheel	67	1500	75		£404.07	
HPCE60-40	40:1	worm wheel	60	1500	37		£404.07	
HPCE60-SP	1:1 - 40:1	Special Ratios: Replace SP with required ratio						£540.31
HPCE60-SPA	1:1 - 40:1	Low Backlash ≤ 30'. Replace SP with required ratio						£540.31
HPCE60-SPLH	1:1 - 40:1	Left Hand Helicals: Replace SP with required ratio						£540.31

Output Shafts: HPCE60-X (Single), HPCE60-DX (Double): See page 1.35

Special bores and other modifications are available. Please contact Technical Sales department.

Testing in your application is necessary. You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.33

Gearboxes

CROSSED HELICAL, REDUCTION GEARBOX HPCE60

HPC E Type Helical Reducers

Technical

Backlash: Backlash figures given are at output. Standard backlash approx. 1°, minimum backlash approx. 30 arc mins.

Torque: Torque figures are given as a guide only. Testing in your application is necessary.

Specials: Specials are available to any specification. Please consult our HPC Gears Technical Department.

Modifications: Are available on all our standard gearboxes. Please consult our HPC Gears Technical Department.

Keyways, Bores: All bores are toleranced to H8 ISO 286. Keyways are broached to DIN 6885 (sliding fit).

Lubrications: Gearboxes are greased for life with Shell Gadus S2 V220AD2 or Shell Alvania HDX 2 high performance grease.

Ratios: 10:1 - 40:1. Specials are available on request. Please consult our HPC Gears Technical Department.

Materials

Case: Red anodised billet machined aluminium (6082T6).

Input Gear: 1:1 - 40:1, hardened alloy steel (655M13).

Output Gear: 1:1- 5:1 hardened alloy steel (655M13). 8:1 - 40:1 Aluminium bronze (CA104).

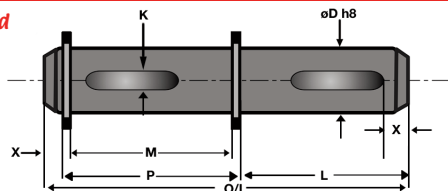
Bearings: High quality steel single row bearings with rubber seals.

Circlips: DIN471 steel.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C. Standard grease.
- Wider range of operating temperatures are achievable by fitting steel shielded bearings - 10° C to +120° C. Please consult our HPC Gears Technical Department for advice.
- Gearboxes are designed as speed reducers.
- Shafts should always be connected with a flexible coupling.
- Always mount drive components as close to gearbox body as possible to prevent damage to shaft and bearing.
- Avoid all impact to unit on installation as this may cause internal damage.
- We recommend all modifications are carried out by HPC Gears prior to gearbox assembly.
- Modifications undertaken by customers will invalidate the warranty.

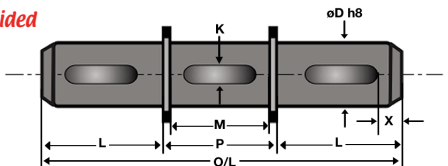
HPCE-X Single Sided



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100+
	List Price	-10%	-15%	-20%	-25%	-30%

PART NUMBER	øD	O/L	M	P	X	L	K	PRICE EACH 1-5
SINGLE SIDED								
HPCE20-X	6	68.80	40	41.60	3.00	25	K2 x 22	£21.46
HPCE30-X	10	98.60	54	56.20	3.50	40	K3 x 20	£24.65
HPCE40-X	15	127.10	72	74.20	4.00	50	K5 x 30	£30.68
HPCE50-X	20	153.80	88	90.60	4.50	60	K6 x 32	£34.04
HPCE60-X	25	182.30	106	108.60	5.00	70	K8 x 40	£36.37

HPCE-DX Double Sided



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100+
	List Price	-10%	-15%	-20%	-25%	-30%

PART NUMBER	øD	O/L	M	P	X	L	K	PRICE EACH 1-5
DOUBLE SIDED								
HPCE20-DX	6	91.60	40	41.60	3.00	25	K2 x 22	£27.37
HPCE30-DX	10	136.20	54	56.20	3.50	40	K3 x 20	£31.43
HPCE40-DX	15	174.20	72	74.20	4.00	50	K5 x 30	£36.50
HPCE50-DX	20	210.60	88	90.60	4.50	60	K6 x 32	£42.60
HPCE60-DX	25	248.60	106	108.60	5.00	70	K8 x 40	£50.54

Material: 303 Stainless Steel, includes Steel Keys & Circlips.



Gearboxes

Output Torque Range
0.53Nm to 1.77Nm

Ratio
1:1 - 2:1

Heavy Duty, Hardened Bevel

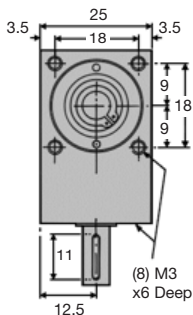
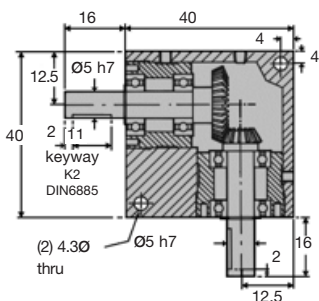
HPCBLH20

HPCBLH20



WEIGHT	0.11 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania

HEAVY DUTY, HARDENED BEVELS & SHAFTS



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	0.66	0.53
	2000	0.72	0.58
	1000	0.88	0.70
	500	1.00	0.80
	100	1.35	1.08
	50	1.48	1.18
	10	1.77	1.41

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH20-1	1:1	88	4000	4000	0.6	£129.67
HPCBLH20-2	2:1	88	4000	2000	0.6	£129.67

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.36



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Bevel Gearboxes

Output Torque Range
1.53Nm to 1.77Nm

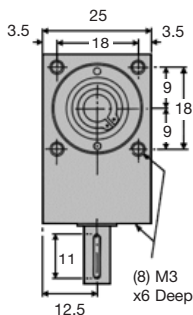
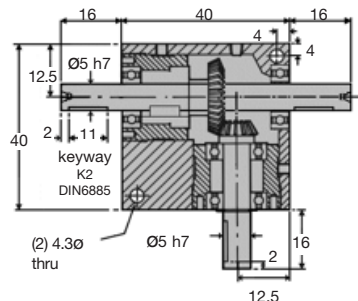
Ratio
1:1 - 2:1

Gearboxes

HPCBLHT20

Heavy Duty, Hardened Bevel Tee

WEIGHT	0.12 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	0.66	0.53
	2000	0.72	0.58
	1000	0.88	0.70
	500	1.00	0.80
	100	1.35	1.08
	50	1.48	1.18
	10	1.77	1.41

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT20-1	1:1	88	4000	4000	0.6	£142.64
HPCBLHT20-2	2:1	88	4000	2000	0.6	£142.64

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.37

Bevel Gearboxes

HEAVY DUTY, HARDENED BEVEL TEE

HPCBLHT20

Gearboxes

Output Torque Range
1.32Nm to 4.4Nm

Ratio
1:1 - 2:1

Heavy Duty, Hardened Bevel

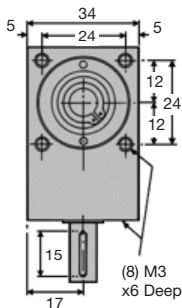
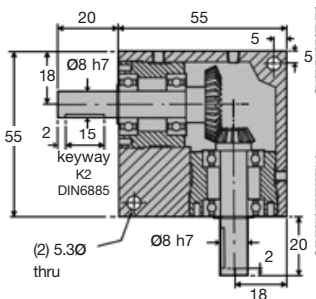
HPCBLH30

HPCBLH30



WEIGHT	0.28 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania

HEAVY DUTY, HARDENED BEVELS & SHAFTS



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	1.65	1.32
	2000	1.81	1.45
	1000	2.20	1.76
	500	2.51	2.00
	100	3.38	2.70
	50	3.70	3.00
	10	4.40	3.54

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH30-1	1:1	88	4000	4000	0.8	£167.66
HPCBLH30-2	2:1	88	4000	2000	0.8	£167.66

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.38



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Bevel Gearboxes

Output Torque Range
1.32Nm to 4.4Nm

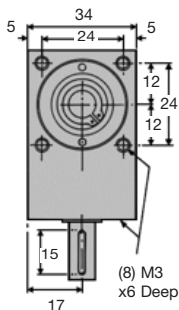
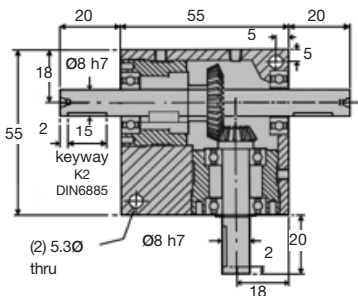
Ratio
1:1 - 2:1

Gearboxes

HPCBLHT30

Heavy Duty, Hardened Bevel Tee

WEIGHT	0.30 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	1.65	1.32
	2000	1.81	1.45
	1000	2.20	1.76
	500	2.51	2.00
	100	3.38	2.70
	50	3.70	3.00
	10	4.40	3.54

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT30-1	1:1	88	4000	4000	0.8	£184.44
HPCBLHT30-2	2:1	88	4000	2000	0.8	£184.44

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.39

Bevel Gearboxes

HEAVY DUTY, HARDENED BEVEL TEE

HPCBLHT30

Gearboxes

Output Torque Range
3Nm to 10.3Nm

Ratio
1:1 - 2:1

Heavy Duty, Hardened Bevel

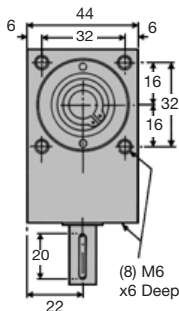
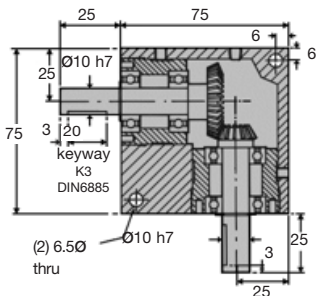
HPCBLH40

HPCBLH40



WEIGHT	0.9 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania

HEAVY DUTY, HARDENED BEVELS & SHAFTS



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	4.0	3.0
	2000	4.4	3.4
	1000	5.1	4.0
	500	5.8	4.6
	100	7.6	6.0
	50	8.5	6.3
	10	10.3	8.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH40-1	1:1	88	4000	4000	1	£225.56
HPCBLH40-2	2:1	88	4000	2000	1	£225.56

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.40



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Bevel Gearboxes

Output Torque Range
3Nm to 10.3Nm

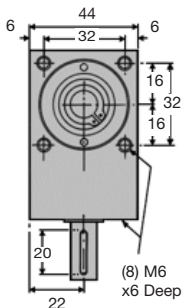
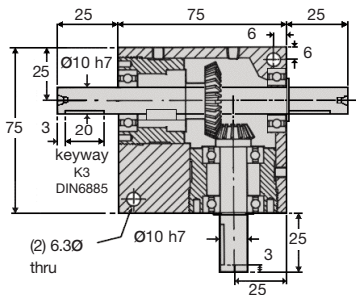
Ratio
1:1 - 2:1

Gearboxes

HPCBLHT40

Heavy Duty, Hardened Bevel Tee

WEIGHT	1.0 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania



N.m. Output Torque	RPM Input	Reduction ratio	
		1:1	2:1
	3000	4.0	3.0
	2000	4.4	3.4
	1000	5.1	4.0
	500	5.8	4.6
	100	7.6	6.0
	50	8.5	6.3
10	10.3	8.0	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT40-1	1:1	88	4000	4000	1	£248.14
HPCBLHT40-2	2:1	88	4000	2000	1	£248.14

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.



Gearboxes

Output Torque Range
7.7Nm to 30Nm

Ratio
1:1 - 2:1

Heavy Duty, Hardened Bevel

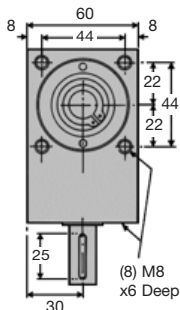
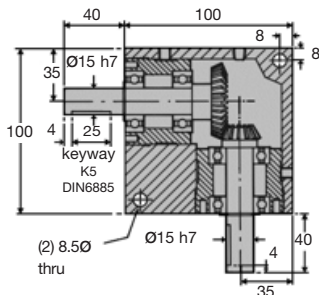
HPCBLH50

HPCBLH50



WEIGHT	2.2 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania

HEAVY DUTY, HARDENED BEVELS & SHAFTS



N.m.	RPM	Reduction ratio	
	Input	1:1	2:1
Output Torque	3000	11.5	7.7
	2000	13.2	8.7
	1000	15.9	10.2
	500	17.5	11.6
	100	23.0	15.0
	50	25.0	17.0
	10	30.0	20.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH50-1	1:1	88	3000	3000	1.5	£339.39
HPCBLH50-2	2:1	88	3000	1500	1.5	£339.39

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.42



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Bevel Gearboxes

Output Torque Range
7.7Nm to 30Nm

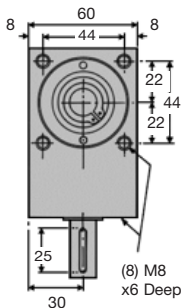
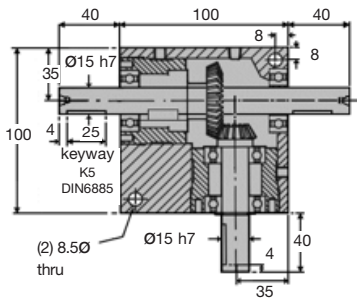
Ratio
1:1 - 2:1

Gearboxes

HPCBLHT50

Heavy Duty, Hardened Bevel Tee

WEIGHT	2.31 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	11.5	7.7
	2000	13.2	8.7
	1000	15.9	10.2
	500	17.5	11.6
	100	23.0	15.0
	50	25.0	17.0
	10	30.0	20.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT50-1	1:1	88	3000	3000	1.5	£372.56
HPCBLHT50-2	2:1	88	3000	1500	1.5	£372.56

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.43

Bevel Gearboxes

HEAVY DUTY, HARDENED BEVEL TEE

HPCBLHT50

Gearboxes

Output Torque Range
19Nm to 70Nm

Ratio
1:1 - 2:1

Heavy Duty, Hardened Bevel

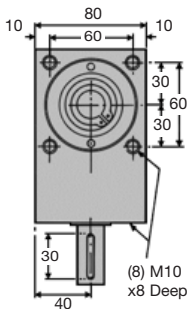
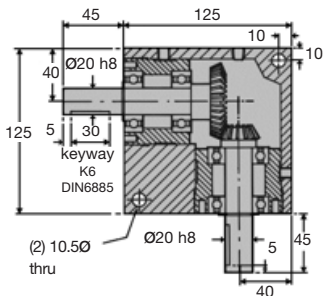
HPCBLH60

HPCBLH60



WEIGHT	4.5 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania

HEAVY DUTY, HARDENED BEVELS & SHAFTS



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	26	19
	2000	30	22
	1000	35	25
	500	40	29
	100	53	38
	50	57	43
	10	70	52

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH60-1	1:1	88	3000	3000	2	£386.32
HPCBLH60-2	2:1	88	3000	1500	2	£386.32

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.44



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Bevel Gearboxes

Output Torque Range
19Nm to 70Nm

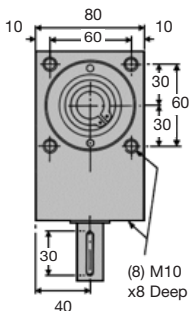
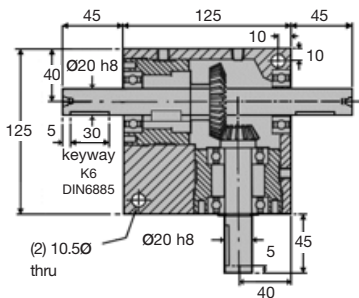
Ratio
1:1 - 2:1

Gearboxes

HPCBLHT60

Heavy Duty, Hardened Bevel Tee

WEIGHT	4.75 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	26	19
	2000	30	22
	1000	35	25
	500	40	29
	100	53	38
	50	57	43
	10	70	52

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT60-1	1:1	88	3000	3000	2	£424.94
HPCBLHT60-2	2:1	88	3000	1500	2	£424.94

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.45

Bevel Gearboxes

HEAVY DUTY, HARDENED BEVEL TEE

HPCBLHT60

Gearboxes

Output Torque Range
26Nm to 128Nm

Ratio
1:1 - 2:1

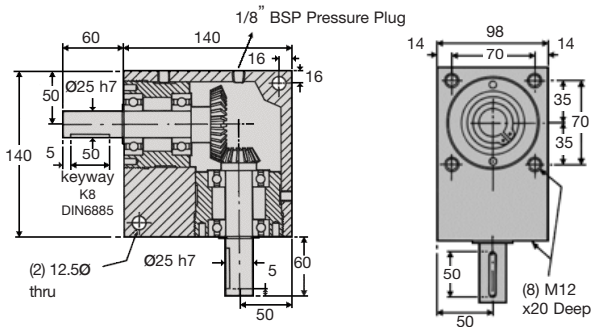
Heavy Duty, Hardened Bevel & Bevel Tee HPCBLH70

HPCBLH70



WEIGHT	7.05 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania

HEAVY DUTY, HARDENED BEVELS & BEVEL TEE



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	43	26
	2000	47	30
	1000	51	34
	500	64	38
	100	85	51
	50	94	60
	10	128	77

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Module	PRICE EACH 1-5
HPCBLH70-1	1:1	88	3000	2	£825.25
HPCBLH70-2	2:1	88	3000	2	£825.25

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.46



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Bevel Gearboxes

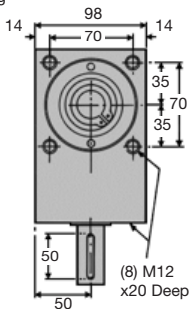
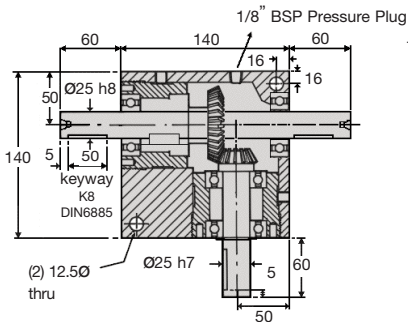
Output Torque Range
26Nm to 128Nm

Ratio
1:1 - 2:1

Gearboxes

HPCBLHT70 Heavy Duty, Hardened Bevel & Bevel Tee

WEIGHT	7.20 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio	
		1:1	2:1
Output Torque	3000	43	26
	2000	47	30
	1000	51	34
	500	64	38
	100	85	51
	50	94	60
	10	128	77

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Module	PRICE EACH 1-5
HPCBLHT70-1	1:1	88	3000	2	£849.00
HPCBLHT70-2	2:1	88	3000	2	£849.00

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.47

Bevel Gearboxes

HEAVY DUTY, HARDENED BEVEL & BEVEL TEE

HPCBLHT70

Gearboxes

Output Torque Range
0.2Nm to 4Nm

Ratio
1:1 - 4:1

Bevel Tee, Right Angled

HPCBL8

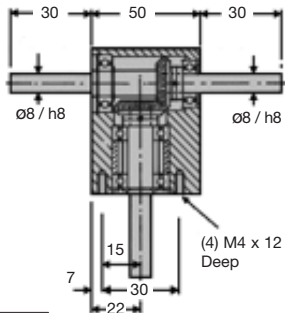
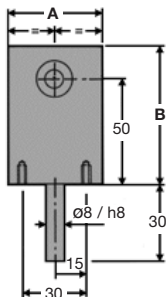
HPCBL8

RIGHT ANGELED 1/1 4/1 RATIO

Bevel Tee Gearboxes



WEIGHT	0.56Kg - 1.1 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	080M40 (EN8)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio			
		1:1	2:1	3:1	4:1
Output Torque	2000	0.4	0.2	0.5	0.8
	1000	0.5	0.3	0.5	0.9
	500	0.5	0.3	0.6	1.1
	200	0.6	0.4	0.7	1.3
	100	0.7	0.4	0.8	1.4
	50	0.8	0.4	0.9	1.6
	10	1.0	0.6	1.2	2.0

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output Speed	A	B	Module	N.m. OUTPUT @ 1000 rpm	PRICE EACH 1-5
HPCBL8-1	1:1	88	2000	2000	50	65	0.8	0.5	£146.76
HPCBL8-2	2:1	88	2000	1000	50	65	0.8	0.3	£146.76
HPCBL8-3	3:1	88	2000	666	50	75	0.8	0.5	£146.76
HPCBL8-4	4:1	88	2000	500	60	80	0.8	0.9	£146.76
HPCBL8XH	(1:1 - 4:1) hardened Gears = NM x 2								£235.38

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.48



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Output Torque Range
1.1Nm to 12Nm

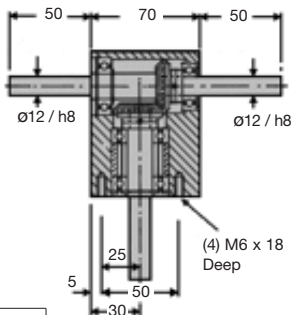
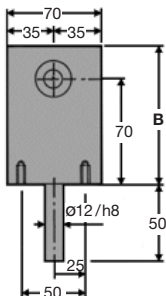
Ratio
1:1 - 4:1

Gearboxes

HPCBL15

Bevel Tee, Right Angled

WEIGHT	1.5Kg - 2.1 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	080M40 (EN8)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio			
		1:1	2:1	3:1	4:1
Output Torque	2000	1.1	2.0	2.3	2.2
	1000	1.2	2.3	2.6	2.5
	500	1.4	2.7	3.0	2.8
	200	1.7	3.2	3.6	3.4
	100	2.0	3.5	4.0	3.7
	50	2.2	3.9	4.5	4.2
	10	2.9	5.0	6.0	5.5

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Effic. @ 1000 rpm	Max Input Speed	Max Output Speed	B	N.m. OUTPUT @ 1000 rpm	PRICE EACH 1-5
HPCBL15-1	1:1	88	2000	2000	90	2.3	£202.58
HPCBL15-2	2:1	88	2000	1000	105	1.2	£202.58
HPCBL15-3	3:1	88	2000	666	110	2.6	£202.58
HPCBL15-4	4:1	88	2000	500	120	2.5	£244.41
HPCBL15-XH	(1:1 - 4:1) Hardened Gears = NM x 2						£300.59

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.49

Bevel Tee Gearboxes

RIGHT ANGELED 1/1 4/1 RATIO

HPCBL15

Gearboxes

Output Torque Range
4Nm to 10Nm

Ratio
1:1

Bevel Tee, Right Angled

HPCBL18

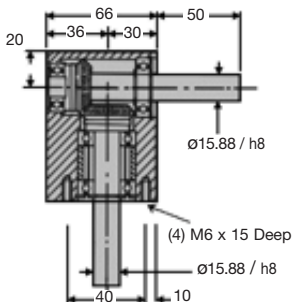
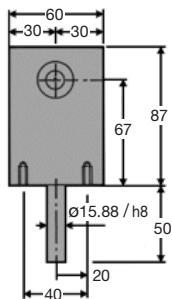
HPCBL18



WEIGHT	1.3 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	080M40 (EN8)
GREASED FOR LIFE	Shell Alvania

HPCBL18 RIGHT ANGELED 1/1 RATIO

Bevel Tee Gearboxes



N.m.	RPM Input	Reduction ratio
		2000
Output Torque	1000	4.0
	500	4.6
	200	5.4
	100	6.4
	50	7.0
	10	7.8
	10	10.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output Speed	Module	N.m. OUTPUT @ 1000 rpm	PRICE EACH 1-5
HPCBL18-XH-1	1:1 Hard	88	2000	2000	1.5	4.6	£205.37

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.50



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Technical

Backlash: 1° approx. on output shaft.

Torque: Torque figures are given as a guide only. Testing in your application is necessary.

Specials: Specials are available to any specification. Please consult our HPC Gears Technical Department.

Modifications: Are available on all our standard gearboxes. Please consult our HPC Gears Technical Department.

Keyways, Bores: All shafts are ground to h7 tolerance. Keyways are to DIN 6885 (sliding fit).

Lubrications: Gearboxes are greased for life with Shell Alvania HDX 2 high performance grease.

Ratios: 1:1 - 4:1. Specials are available. Please consult our HPC Gears Technical Department.

Materials

Case: Red anodised billet machined aluminium (6082 T6).

Bevel Shafts: Hardened alloy steel (655M13). Output on T type boxes shafts not hardened.

Bearing Caps: Mild steel with a chemically black coating.

Bearings: High quality single row ball bearings with rubber seals.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C. Standard grease.
- Wider range of operating temperatures are achievable by fitting steel shielded bearings - 10° C to +120° C. Please consult our HPC Gears Technical Department for advice.
- Gearboxes are designed as speed reducers.
- Shafts should always be connected with a flexible coupling.
- Always mount drive components as close to gearbox body as possible to prevent damage to shaft and bearing.
- Avoid all impact to unit on installation as this may cause internal damage.
- We recommend all modifications are carried out by HPC Gears prior to gearbox assembly.
- Modifications undertaken by customers will invalidate the warranty.

Gearboxes

Output Torque Range
0.78Nm to 3.7Nm

Ratio
2:1 - 7:1

Offset Spur Gear Reducers

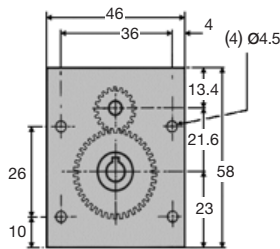
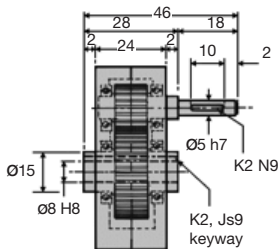
HPCFF10

HPCFF10



OFFSET SPUR GEAR REDUCERS

WEIGHT	0.21 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	817M40 (EN24) & 655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	7:1
Output Torque	2000	1.34	1.29	1.15	1.10	0.94	0.78
	1000	1.55	1.49	1.33	1.27	1.08	0.90
	500	1.85	1.78	1.58	1.51	1.30	1.07
	200	2.08	2.00	1.78	1.71	1.46	1.21
	100	2.44	2.35	2.09	2.00	1.71	1.42
	50	2.74	2.63	2.36	2.25	1.92	1.60
	10	3.70	3.57	3.16	3.03	2.60	2.16

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output Speed	Nm Output @ 1000 rpm	PRICE EACH 1-5
HPCFF10-2	2:1	93	2000	1000	1.55	£125.88
HPCFF10-3	3:1	93	2000	666	1.49	£125.88
HPCFF10-4	4:1	93	2000	500	1.33	£125.88
HPCFF10-5	5:1	93	2000	400	1.27	£125.88
HPCFF10-6	6:1	93	2000	333	1.08	£125.88
HPCFF10-7	7:1	93	2000	285	0.90	£125.88
HPCFF10-XH	Hardened Gears 2:1 to 7:1 multiply torque figures by 2					£222.52

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.52



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Output Torque Range
2.2Nm to 10Nm

Ratio
2:1 - 7:1

Gearboxes

HPCFF15

Offset Spur Gear Reducers

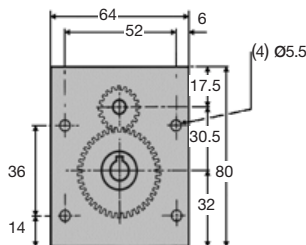
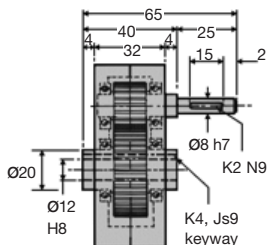
WEIGHT	0.55 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF 817M40 (EN24) &
GEAR MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Gadus



Gearboxes

OFFSET SPUR GEAR REDUCERS

HPCFF15



N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	7:1
Output Torque	2000	3.7	3.5	3.2	2.9	2.6	2.2
	1000	4.3	4.0	3.7	3.4	3.1	2.6
	500	5.0	4.8	4.4	4.0	3.6	3.0
	200	5.7	5.5	5.0	4.4	3.9	3.2
	100	6.7	6.5	5.9	5.1	4.5	3.7
	50	7.5	7.2	6.5	5.7	5.0	4.0
	10	10.0	9.8	9.0	8.0	7.3	6.1

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output Speed	Nm Output @ 1000 rpm	PRICE EACH 1-5
HPCFF15-2	2:1	93	2000	1000	4.30	£153.93
HPCFF15-3	3:1	93	2000	666	4.00	£153.93
HPCFF15-4	4:1	93	2000	500	3.70	£153.93
HPCFF15-5	5:1	93	2000	400	3.40	£153.93
HPCFF15-6	6:1	93	2000	333	3.10	£153.93
HPCFF15-7	7:1	93	2000	285	2.60	£153.93
HPCFF15-XH	Hardened Gears 2:1 to 7:1 multiply torque figures by 2					£276.97

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

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1.53

Gearboxes

Output Torque Range
5.8Nm to 23Nm

Ratio
2:1 - 7:1

Offset Spur Gear Reducers

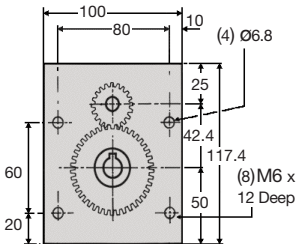
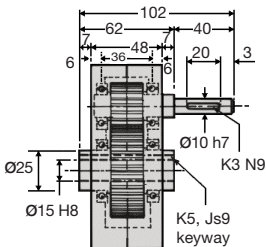
HPCFF20

HPCFF20



OFFSET SPUR GEAR REDUCERS

WEIGHT	1.9 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	817M40 (EN24) & 655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	7:1
Output Torque	2000	9.20	8.70	8.00	6.90	6.60	5.80
	1000	10.8	10.2	9.50	8.20	7.80	6.90
	500	12.5	11.8	11.0	9.60	9.00	8.20
	200	15.0	14.2	13.1	11.5	10.8	9.80
	100	16.7	15.7	14.6	12.8	12.0	10.9
	50	19.2	18.1	16.8	14.5	13.8	12.5
	10	23.0	21.6	20.0	17.5	16.5	15.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output Speed	Nm Output @ 1000 rpm	PRICE EACH 1-5
HPCFF20-2	2:1	93	2000	1000	10.80	£234.13
HPCFF20-3	3:1	93	2000	666	10.20	£234.13
HPCFF20-4	4:1	93	2000	500	9.50	£234.13
HPCFF20-5	5:1	93	2000	400	8.20	£234.13
HPCFF20-6	6:1	93	2000	333	7.80	£234.13
HPCFF20-7	7:1	93	2000	285	6.90	£234.13
HPCFF20-XH	Hardened Gears 2:1 to 7:1 multiply torque figures by 2					£391.15

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.54



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Output Torque Range
21.5Nm to 83Nm

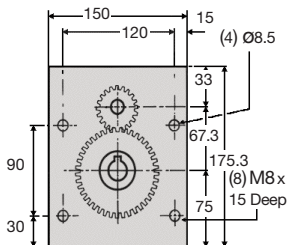
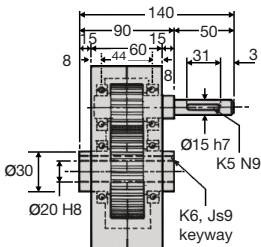
Ratio
2:1 - 7:1

Gearboxes

HPCFF30

Offset Spur Gear Reducers

WEIGHT	5.5 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	817M40 (EN24) & 655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	7:1
Output Torque	2000	33.2	29.1	25.2	24.3	25.3	23.0
	1000	39.1	34.4	29.8	28.7	30.0	27.1
	500	45.2	39.7	34.4	33.1	34.5	31.3
	200	54.3	47.6	41.3	39.7	41.4	37.5
	100	60.4	52.9	45.9	44.2	46.0	41.8
	50	69.0	60.8	53.0	50.8	53.0	48.0
	10	83.0	72.7	63.0	60.7	63.3	57.5

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output Speed	Nm Output @ 1000 rpm	PRICE EACH 1-5
HPCFF30-2	2:1	93	2000	1000	39.10	£312.96
HPCFF30-3	3:1	93	2000	666	34.40	£312.96
HPCFF30-4	4:1	93	2000	500	29.80	£312.96
HPCFF30-5	5:1	93	2000	400	28.70	£312.96
HPCFF30-6	6:1	93	2000	333	27.30	£312.96
HPCFF30-7	7:1	93	2000	285	25.10	£312.96
HPCFF30-XH	Hardened Gears 2:1 to 7:1 multiply torque figures by 2					£487.69

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

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1.55

Gearboxes

OFFSET SPUR GEAR REDUCERS

HPCFF30

Gearboxes

Output Torque Range
59Nm to 420Nm

Ratio
2:1 - 7:1

Parallel Spur Gear Reducers

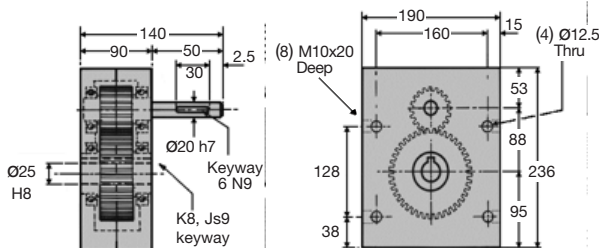
HPCFF40

HPCFF40



PARALLEL SPUR GEAR REDUCERS

WEIGHT	13.5 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	817M40 (EN24) & 655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	7:1
Output Torque	2000	83	83	76	70	61	59
	1000	90	90	82	76	66	64
	500	103	102	95	87	76	73
	200	120	120	110	102	89	86
	100	138	135	126	116	101	98
	50	156	155	146	136	117	113
	10	210	210	196	180	158	152

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output Speed	Nm Output @ 1000 rpm	PRICE EACH 1-5
HPCFF40-2	2:1	93	2000	1000	90	£523.19
HPCFF40-3	3:1	93	2000	666	90	£523.19
HPCFF40-4	4:1	93	2000	500	82	£523.19
HPCFF40-5	5:1	93	2000	400	76	£523.19
HPCFF40-6	6:1	93	2000	333	66	£523.19
HPCFF40-7	7:1	93	2000	285	64	£523.19
HPCFF40-XH	Hardened Gears 2:1 to 7:1 multiply torque figures by 2					£685.59

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.56



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Output Torque Range
111Nm to 850Nm

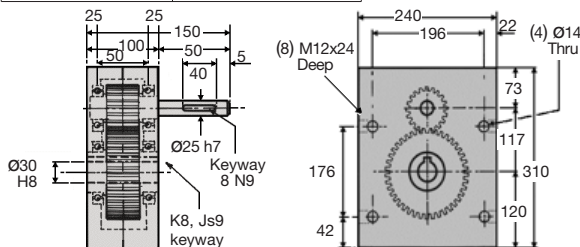
Ratio
2:1 - 7:1

Gearboxes

HPCFF50

Parallel Spur Gear Reducers

WEIGHT	26.3 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	817M40 (EN24) & 655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Gadus



N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	7:1
Output Torque	2000	166	156	147	138	120	111
	1000	180	168	160	149	130	120
	500	207	194	183	172	150	139
	200	242	226	214	200	175	162
	100	276	260	245	220	200	185
	50	318	300	282	264	230	212
	10	425	400	380	356	310	286

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Eff. @ 1000 rpm	Max Input Speed	Max Output Speed	Nm Output @ 1000 rpm	PRICE EACH 1-5
HPCFF50-2	2:1	93	2000	1000	180	£803.35
HPCFF50-3	3:1	93	2000	666	168	£803.35
HPCFF50-4	4:1	93	2000	500	160	£803.35
HPCFF50-5	5:1	93	2000	400	149	£803.35
HPCFF50-6	6:1	93	2000	333	130	£803.35
HPCFF50-7	7:1	93	2000	285	120	£803.35
HPCFF50-XH	Hardened Gears 2:1 to 7:1 multiply torque figures by 2					£964.70

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

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1.57

Gearboxes

PARALLEL SPUR GEAR REDUCERS

HPCFF50

HPC FF Type Gearbox Reducers

Technical

Backlash: 1° approx. on output shaft.

Torque: Torque figures are given as a guide only. Testing in your application is necessary.

Specials: Specials are available to any specification. Please consult our HPC Gears Technical Department.

Modifications: Are available on all our standard gearboxes. Please consult our HPC Gears Technical Department.

Keyways, Shafts and Bores: All shafts are ground to h7 tolerance. Bores are to H8 tolerance. Keys are DIN 6885 (sliding fit).

Lubrications: Gearboxes are greased for life with Shell Gadus S5V42P2.5 high performance grease.

Ratios: 2:1 - 7:1. Specials are available on request. Please consult our HPC Gears Technical Department.

Materials

Case: 2 part billet machine red anodised aluminium (6082T6).

Gears: High carbon steel (817M40) or 655M13 case hardened (2 x torque).

Bearings: High quality single row. Ball bearings with rubber seals.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C. Standard grease.
- Wider range of operating temperatures are achievable by fitting steel shielded bearings - 30° C to +130° C. Please consult our HPC Gears Technical Department for advice.
- Gearboxes are designed as speed reducers.
- Shafts should always be connected with a flexible coupling.
- Always mount drive components as close to gearbox body as possible to prevent damage to shaft and bearing.
- Avoid all impact to unit on installation as this may cause internal damage.
- We recommend all modifications are carried out by HPC Gears prior to gearbox assembly.
- Modifications undertaken by customers will invalidate the warranty.

www.hpcgears.com



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- * Express **BREAKDOWN** service.
- * Custom made gears to samples and drawings.
- * From large production runs to one off replacements.
- * 90,000 stock products, available for instant despatch.
- We are never knowingly outpriced.

Sales/Technical Team :

Tel : +44 (0) 1246 268080

Email : sales@hpcgears.com

Inline Spur Gear Reducers

Output Torque Ratio
0.16 - 0.49Nm 2:1 - 20:1

Double or Single Shafted

J51 / XJ51

J51 / XJ51

INLINE SPUR GEAR REDUCERS

Gearboxes



Plastic Body
Mid-Section

WEIGHT	0.14 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

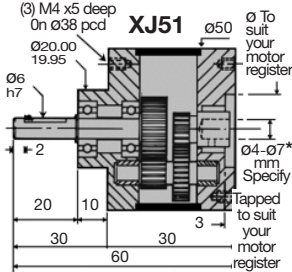
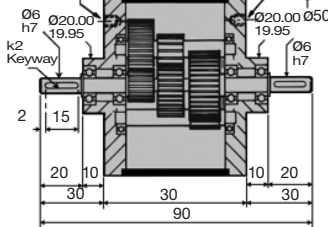
(3) M4 x5 deep
0n Ø38 pcd

J51

(3) M4 x5 deep
0n Ø38 pcd

XJ51

(3) M4 x5 deep
0n Ø38 pcd



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio							
		2:1	3:1	4:1	5:1	10:1	15:1	20:1	
Output Torque	4000	0.16	0.15	0.14	0.13	0.15	0.17	0.18	
	2000	0.19	0.18	0.17	0.15	0.18	0.20	0.21	
	1000	0.22	0.22	0.20	0.18	0.21	0.22	0.23	
	500	0.27	0.25	0.23	0.21	0.24	0.25	0.27	
	200	0.32	0.30	0.27	0.25	0.28	0.30	0.32	
	100	0.36	0.33	0.30	0.28	0.32	0.34	0.36	
	50	0.40	0.38	0.35	0.32	0.36	0.37	0.42	
10	0.48	0.45	0.41	0.38	0.43	0.44	0.49		

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Standard Direction	PRICE EACH 1-5
HPCJ51-2 HPCXJ51-2	2:1 2000	0.22 0.4	Same	£149.69
HPCJ51-3 HPCXJ51-3	3:1 1333	0.22 0.4	Same	£149.69
HPCJ51-4 HPCXJ51-4	4:1 1000	0.20 0.4	Same	£149.69
HPCJ51-5 HPCXJ51-5	5:1 800	0.18 0.4	Same	£149.69
HPCJ51-10 HPCXJ51-10	10:1 400	0.21 0.4	Same	£149.69
HPCJ51-15 HPCXJ51-15	15:1 266	0.22 0.4	Same	£149.69
HPCJ51-20 HPCXJ51-20	20:1 200	0.23 0.4	Same	£149.69
HPCJ51-SP or HPCXJ51-SP	Special Ratios: Replace SP with required ratio			£210.38

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 92%

1.60



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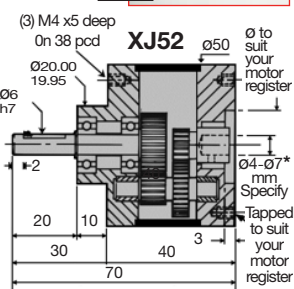
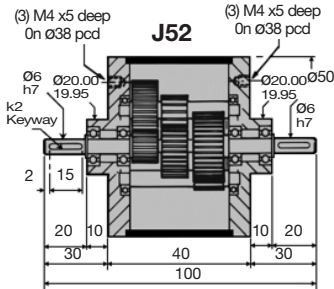
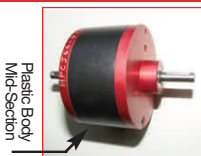
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Ratio **Output Torque** **Inline Spur Gear Reducers**
30:1 - 125:1 **0.27- 0.9Nm**

J52 / XJ52

Double or Single Shafted

WEIGHT	0.14 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Delrin Body / Aluminium Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio						
		30:1	40:1	50:1	60:1	75:1	100:1	125:1
Output Torque	4000	0.27	0.28	0.29	0.30	0.31	0.33	0.34
	2000	0.30	0.32	0.33	0.34	0.35	0.38	0.40
	1000	0.34	0.36	0.38	0.40	0.41	0.42	0.43
	500	0.40	0.41	0.42	0.43	0.46	0.49	0.49
	200	0.46	0.48	0.49	0.52	0.54	0.57	0.59
	100	0.52	0.55	0.57	0.59	0.61	0.65	0.69
	50	0.57	0.62	0.65	0.69	0.73	0.74	0.75
10	0.69	0.73	0.75	0.75	0.75	0.90	0.90	

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ52-30 HPCXJ52-30	30:1	133	0.34	0.4	Opposite	£206.73
HPCJ52-40 HPCXJ52-40	40:1	100	0.36	0.4	Opposite	£206.73
HPCJ52-50 HPCXJ52-50	50:1	80	0.38	0.4	Opposite	£206.73
HPCJ52-60 HPCXJ52-60	60:1	66	0.40	0.4	Opposite	£206.73
HPCJ52-75 HPCXJ52-75	75:1	53	0.41	0.4	Opposite	£206.73
HPCJ52-100 HPCXJ52-100	100:1	40	0.42	0.4	Opposite	£206.73
HPCJ52-125 HPCXJ52-125	125:1	32	0.43	0.4	Opposite	£206.73
HPCJ52-SP or HPCXJ52-SP	Special Ratios: Replace SP with required ratio					£243.64

Other Info.

Efficiency @ 1000 R.P.M: 88%

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

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1.61

Gearboxes

DOUBLE OR SINGLE SHAFTED

J52 / XJ52

Inline Spur Gear Reducers

Output Torque Ratio
0.43 - 1.15Nm 140:1 - 625:1

Double or Single Shafted

J53 / XJ53

J53 / XJ53

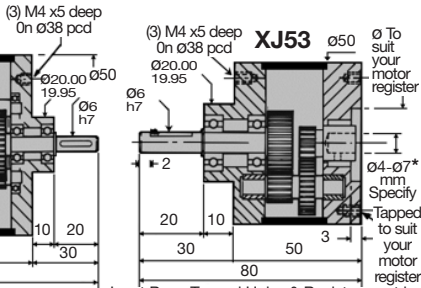
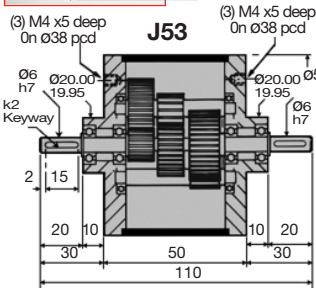
INLINE SPUR GEAR REDUCERS

Gearboxes



Plastic Body
Mid-Section

WEIGHT	0.14 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be

N.m.	RPM Input	Reduction ratio						
		140:1	160:1	200:1	300:1	400:1	500:1	625:1
Output Torque	4000	0.43	0.45	0.46	0.51	0.53	0.55	0.58
	2000	0.50	0.52	0.53	0.58	0.59	0.61	0.63
	1000	0.56	0.57	0.58	0.63	0.65	0.67	0.69
	500	0.63	0.67	0.69	0.69	0.79	0.84	0.96
	200	0.76	0.79	0.79	0.79	0.91	0.99	1.15
	100	0.86	0.91	0.91	0.91	1.15	1.15	1.15
	50	0.95	0.95	0.95	0.95	1.15	1.15	1.15
	10	1.15	1.15	1.15	1.15	1.15	1.15	1.15

specified when ordering.

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ53-140 HPCXJ53-140	140:1	29	0.56	0.4	Same	£276.35
HPCJ53-160 HPCXJ53-160	160:1	25	0.57	0.4	Same	£276.35
HPCJ53-200 HPCXJ53-200	200:1	20	0.58	0.4	Same	£276.35
HPCJ53-300 HPCXJ53-300	300:1	13	0.63	0.4	Same	£276.35
HPCJ53-400 HPCXJ53-400	400:1	10	0.65	0.4	Same	£276.35
HPCJ53-500 HPCXJ53-500	500:1	8	0.67	0.4	Same	£276.35
HPCJ53-625 HPCXJ53-625	625:1	6.4	0.69	0.4	Same	£276.35
HPCJ53-SP or HPCXJ53-SP	Special Ratios: Replace SP with required ratio					£315.91

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M.: 85%

1.62



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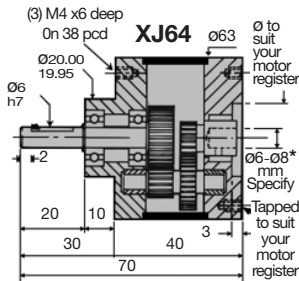
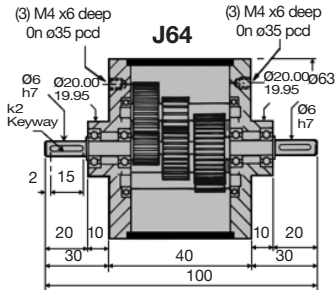
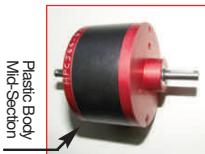
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Ratio **Output Torque** **Inline Spur Gear Reducers**
2:1 - 16:1 **0.66-2.25Nm**

J64 / XJ64

Double or Single Shafted

WEIGHT	0.3 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio						
		2:1	3:1	4:1	6:1	10:1	12:1	16:1
Output Torque	4000	0.66	0.64	0.57	0.75	0.70	0.79	0.80
	2000	0.84	0.81	0.72	0.88	0.81	0.90	0.92
	1000	0.99	0.96	0.85	1.00	0.90	1.04	1.07
	500	1.13	1.10	0.98	1.14	1.01	1.17	1.21
	200	1.32	1.28	1.14	1.35	1.20	1.39	1.43
	100	1.50	1.45	1.30	1.53	1.33	1.58	1.65
	50	1.68	1.63	1.46	1.68	1.53	1.81	1.90
	10	2.00	1.95	1.74	2.00	1.80	2.10	2.25

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ64-2 HPCXJ64-2	2:1	2000	0.99	0.5	Same	£196.00
HPCJ64-3 HPCXJ64-3	3:1	1333	0.96	0.5	Same	£196.00
HPCJ64-4 HPCXJ64-4	4:1	1000	0.85	0.5	Same	£196.00
HPCJ64-6 HPCXJ64-6	6:1	666	1.00	0.5	Same	£196.00
HPCJ64-10 HPCXJ64-10	10:1	400	0.90	0.5	Same	£196.00
HPCJ64-12 HPCXJ64-12	12:1	333	1.04	0.5	Same	£196.00
HPCJ64-16 HPCXJ64-16	16:1	250	1.07	0.5	Same	£196.00
HPCJ64-SP or HPCXJ64-SP	Special Ratios: Replace SP with required ratio					£216.95

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 92%

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1.63

Gearboxes

DOUBLE OR SINGLE SHAFTED

J64 / XJ64

Inline Spur Gear Reducers

Output Torque Ratio
0.8 - 2.95Nm 15:1 - 64:1

Double or Single Shafted

J65 / XJ65

J65 / XJ65

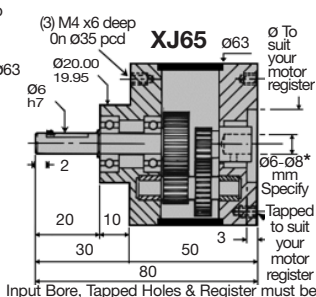
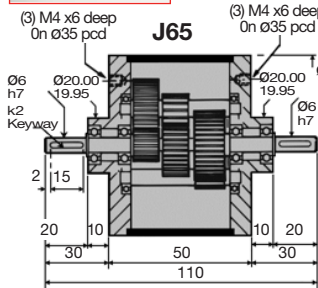
INLINE SPUR GEAR REDUCERS

Gearboxes



Plastic Body
Mid-Section

WEIGHT	0.3 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



N.m.	RPM Input	Reduction ratio						
		15:1	20:1	24:1	32:1	40:1	48:1	64:1
Output Torque	4000	0.80	0.81	0.91	0.92	0.89	0.91	0.92
	2000	0.91	0.93	1.04	1.05	1.03	1.04	1.06
	1000	1.05	1.10	1.16	1.20	1.16	1.19	1.23
	500	1.20	1.27	1.35	1.41	1.37	1.40	1.45
	200	1.40	1.63	1.58	1.63	1.56	1.61	1.63
	100	1.48	1.71	1.80	1.85	1.73	1.82	1.87
	50	1.86	2.02	1.95	2.00	1.94	1.95	1.96
	10	2.20	2.30	2.36	2.45	2.36	2.40	2.95

specified when ordering.

*Plain bore, no keyslot

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ65-15 HPCXJ65-15	15:1	266	1.05	0.5	Opposite	£232.93
HPCJ65-20 HPCXJ65-20	20:1	200	1.10	0.5	Opposite	£232.93
HPCJ65-24 HPCXJ65-24	24:1	166	1.16	0.5	Opposite	£232.93
HPCJ65-32 HPCXJ65-32	32:1	125	1.20	0.5	Opposite	£232.93
HPCJ65-40 HPCXJ65-40	40:1	100	1.16	0.5	Opposite	£232.93
HPCJ65-48 HPCXJ65-48	48:1	83	1.19	0.5	Opposite	£232.93
HPCJ65-64 HPCXJ65-64	64:1	62	1.23	0.5	Opposite	£232.93
HPCJ65-SP or HPCXJ65-SP	Special Ratios: Replace SP with required ratio					£274.06

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M.: 88%

1.64



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

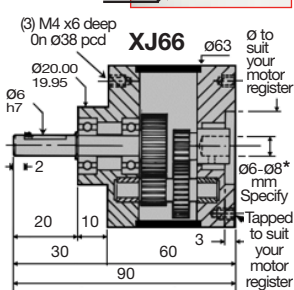
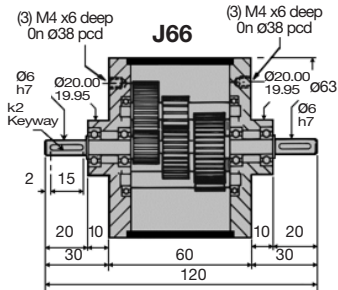
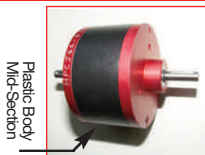
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Ratio **50:1 - 256:1** Output Torque **0.9-2.8Nm** **Inline Spur Gear Reducers**

J66 / XJ66

Double or Single Shafted

WEIGHT	0.3 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio							
		50:1	80:1	96:1	128:1	160:1	192:1	256:1	
Output Torque	4000	0.90	1.01	1.05	1.09	1.13	1.25	1.40	
	2000	1.04	1.13	1.18	1.24	1.30	1.40	1.55	
	1000	1.18	1.30	1.33	1.39	1.44	1.60	1.85	
	500	1.40	1.44	1.50	1.58	1.64	1.78	2.00	
	200	1.60	1.73	1.80	1.87	1.96	2.18	2.42	
	100	1.82	1.96	2.10	2.17	2.28	2.47	2.80	
	50	2.02	2.28	2.45	2.61	2.80	2.80	2.80	
	10	2.50	2.80	2.80	2.80	2.80	2.80	2.80	

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ66-50	HPCXJ66-50	50:1	80	1.18	0.5	Same	£276.16
HPCJ66-80	HPCXJ66-80	80:1	50	1.30	0.5	Same	£276.16
HPCJ66-96	HPCXJ66-96	96:1	41	1.33	0.5	Same	£276.16
HPCJ66-128	HPCXJ66-128	128:1	31	1.39	0.5	Same	£276.16
HPCJ66-160	HPCXJ66-160	160:1	25	1.44	0.5	Same	£276.16
HPCJ66-192	HPCXJ66-192	192:1	21	1.60	0.5	Same	£276.16
HPCJ66-256	HPCXJ66-256	256:1	15	1.85	0.5	Same	£276.16
HPCJ66-SP or HPCXJ66-SP Special Ratios: Replace SP with required ratio							£317.94

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 85%

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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1.65

Gearboxes

DOUBLE OR SINGLE SHAFTED

J66 / XJ66

Inline Spur Gear Reducers

Output Torque
0.99 - 3.38Nm

Ratio
2:1 - 9:1

Double or Single Shafted

K64 / XK64

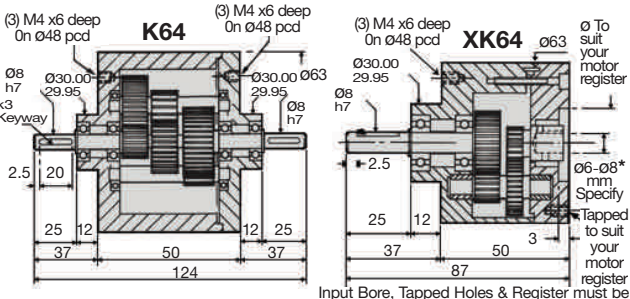
K64 / XK64



WEIGHT	2.6 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS

Gearboxes



N.m.	RPM Input	Reduction ratio							
		2:1	3:1	4:1	5:1	6:1	8:1	9:1	
Output Torque	4000	0.99	0.96	0.86	1.13	1.05	1.19	1.20	
	2000	1.26	1.22	1.08	1.32	1.22	1.35	1.38	
	1000	1.49	1.44	1.28	1.50	1.35	1.56	1.61	
	500	1.70	1.65	1.47	1.71	1.52	1.76	1.82	
	200	1.98	1.92	1.71	2.03	1.80	2.09	2.15	
	100	2.25	2.18	1.95	2.30	2.00	2.37	2.48	
	50	2.52	2.45	2.19	2.52	2.30	2.70	2.85	
	20	3.00	2.93	2.61	3.00	2.70	3.15	3.38	

specified when ordering.

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK64-2 HPCXK64-2	2:1	2000	1.49	0.7	Same	£298.77
HPCK64-3 HPCXK64-3	3:1	1333	1.44	0.7	Same	£298.77
HPCK64-4 HPCXK64-4	4:1	1000	1.28	0.7	Same	£298.77
HPCK64-5 HPCXK64-5	5:1	800	1.50	0.7	Same	£298.77
HPCK64-6 HPCXK64-6	6:1	666	1.35	0.7	Same	£298.77
HPCK64-8 HPCXK64-8	8:1	500	1.56	0.7	Same	£298.77
HPCK64-9 HPCXK64-9	9:1	444	1.61	0.7	Same	£298.77
HPCK64-SP or HPCXK64-SP	Special Ratios: Replace SP with required ratio					£345.37

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M.: 92%

1.66



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Ratio **Output Torque** **Inline Spur Gear Reducers**
10:1 - 27:1 **1.05- 3.81Nm**

K65 / XK65

Double or Single Shafted

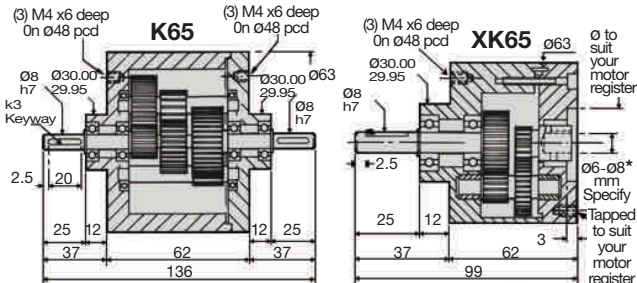
WEIGHT	0.3 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

K65 / XK65



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio						
		10:1	12:1	15:1	18:1	20:1	24:1	27:1
Output Torque	4000	1.05	1.19	1.20	1.22	1.22	1.37	1.38
	2000	1.22	1.35	1.37	1.40	1.40	1.56	1.58
	1000	1.35	1.56	1.58	1.65	1.65	1.74	1.80
	500	1.52	1.76	1.80	1.91	1.91	2.03	2.12
	200	1.80	2.09	2.10	2.45	2.45	2.37	2.45
	100	2.00	2.37	2.22	2.57	2.57	2.70	2.78
	50	2.30	2.72	2.79	3.03	3.03	2.93	3.00
	20	2.70	3.15	3.30	3.45	3.45	3.54	3.81

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK65-10 HPCXK65-10	10:1	400	1.35	0.7	Opposite	£346.66
HPCK65-12 HPCXK65-12	12:1	333	1.56	0.7	Opposite	£346.66
HPCK65-15 HPCXK65-15	15:1	266	1.58	0.7	Opposite	£346.66
HPCK65-18 HPCXK65-18	18:1	222	1.65	0.7	Opposite	£346.66
HPCK65-20 HPCXK65-20	20:1	200	1.65	0.7	Opposite	£346.66
HPCK65-24 HPCXK65-24	24:1	166	1.74	0.7	Opposite	£346.66
HPCK65-27 HPCXK65-27	27:1	148	1.80	0.7	Opposite	£346.66
HPCK65-SP or HPCXK65-SP	Special Ratios: Replace SP with required ratio					£396.93

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 88%

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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1.67

Inline Spur Gear Reducers

Output Torque
1.13 - 3.90Nm

Ratio
2:1 - 10:1

Double or Single Shafted

K83 / XK83

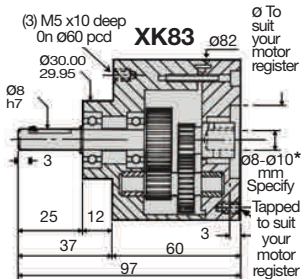
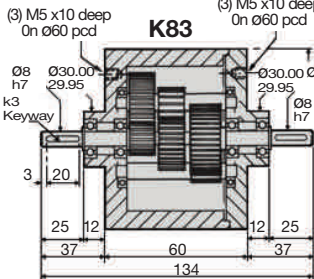
K83 / XK83



WEIGHT	2.6 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS

Gearboxes



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio							
		2:1	3:1	4:1	5:1	6:1	9:1	10:1	
Output Torque	4000	1.13	1.31	1.45	1.45	1.40	1.52	1.54	
	2000	1.45	1.54	1.70	1.70	1.68	1.73	1.75	
	1000	1.70	1.82	1.97	1.91	1.90	1.98	2.05	
	500	1.95	2.10	2.30	2.28	2.22	2.29	2.34	
	200	2.26	2.41	2.62	2.60	2.52	2.61	2.68	
	100	2.58	2.72	2.92	2.88	2.81	2.93	3.00	
	50	2.90	3.18	3.48	3.46	3.45	3.55	3.60	
	20	3.46	3.60	3.80	3.77	3.76	3.81	3.90	

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm Mod.	Standard Direction	PRICE EACH 1-5
HPCK83-2	HPCXK83-2	2:1	2000	1.70	0.8	£414.68
HPCK83-3	HPCXK83-3	3:1	1333	1.82	0.8	£414.68
HPCK83-4	HPCXK83-4	4:1	1000	1.97	0.8	£414.68
HPCK83-5	HPCXK83-5	5:1	800	1.91	0.8	£414.68
HPCK83-6	HPCXK83-6	6:1	666	1.90	0.8	£414.68
HPCK83-9	HPCXK83-9	9:1	444	1.98	0.8	£414.68
HPCK83-10	HPCXK83-10	10:1	400	2.05	0.8	£414.68
HPCK83-SP or HPCXK83-SP Special Ratios: Replace SP with required ratio						£479.32

Other Info.

Efficiency @ 1000 R.P.M.: 92%

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

1.68



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Ratio **Output Torque** **Inline Spur Gear Reducers**
12:1 - 30:1 **1.59- 4.80Nm**

K84 / XK84

Double or Single Shafted

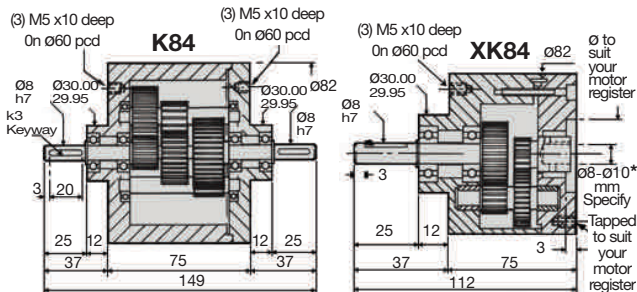
WEIGHT	0.3 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

K84 / XK84



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio					
		12:1	15:1	18:1	20:1	27:1	30:1
Output Torque	4000	1.59	1.66	1.71	1.78	1.83	1.88
	2000	1.83	1.89	1.94	2.01	2.12	2.16
	1000	2.12	2.15	2.18	2.23	2.30	2.40
	500	2.30	2.41	2.54	2.60	2.65	2.70
	200	2.71	2.84	2.95	3.00	3.07	3.14
	100	3.07	3.21	3.36	3.45	3.54	3.68
	50	3.54	3.60	3.66	3.81	4.01	4.14
	20	4.19	4.32	4.33	4.50	4.66	4.80

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	% Effi. @ 1000 rpm	Standard Direction	PRICE EACH 1-5
HPCK84-12 HPCXK84-12	12:1	333	2.12	88	Same	£425.14
HPCK84-15 HPCXK84-15	15:1	266	2.15	85	Same	£425.14
HPCK84-18 HPCXK84-18	18:1	222	2.18	88	Same	£425.14
HPCK84-20 HPCXK84-20	20:1	200	2.23	85	Same	£425.14
HPCK84-27 HPCXK84-27	27:1	148	2.30	88	Same	£425.14
HPCK84-30 HPCXK84-30	30:1	114	2.33	85	Same	£425.14
HPCK84-SP or HPCXK84-SP	Special Ratios: Replace SP with required ratio					£497.00

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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1.69

Inline Spur Gear Reducers

Output Torque Ratio
1.9 - 5.0Nm 36:1 - 81:1

Double or Single Shafted

K85 / XK85

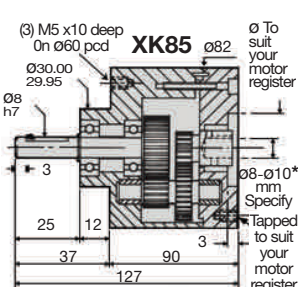
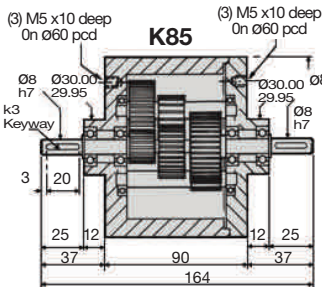
K85 / XK85



WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS

Gearboxes



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m.	RPM Input	Reduction ratio			
		36:1	45:1	54:1	81:1
Output Torque	4000	1.90	1.92	1.95	2.10
	2000	2.18	2.20	2.22	2.30
	1000	2.43	2.46	2.49	2.60
	500	2.75	2.78	2.80	2.86
	200	3.18	3.22	3.26	3.30
	100	3.68	3.72	3.78	3.85
	50	4.18	4.26	4.29	4.36
	20	4.88	4.93	4.97	5.00

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK85-36 HPCXK85-36	36:1	111	2.43	0.8	Same	£492.97
HPCK85-45 HPCXK85-45	45:1	88	2.46	0.8	Same	£492.97
HPCK85-54 HPCXK85-54	54:1	74	2.49	0.8	Same	£492.97
HPCK85-81 HPCXK85-81	81:1	49	2.60	0.8	Same	£492.97
HPCK85-SP or HPCXK85-SP	Special Ratios: Replace SP with required ratio					£564.70

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M.: 85%

1.70



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Ratio
2:1 - 9:1

Output Torque
2.6-9.4Nm

Inline Spur Gear Reducers

L83 / XL83

Double or Single Shafted

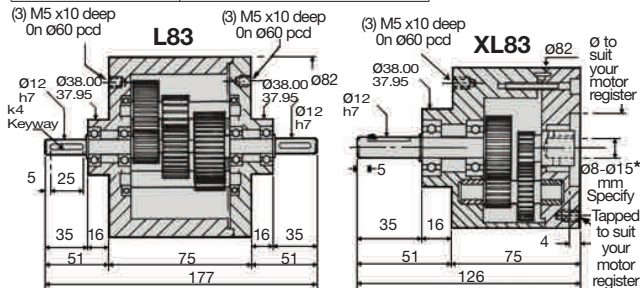
WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

L83 / XL83



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m.	RPM Input	Reduction ratio							
		2:1	3:1	4:1	5:1	6:1	8:1	9:1	
Output Torque	4000	2.6	2.8	3.1	3.2	3.2	3.4	3.5	
	2000	3.1	3.3	3.6	3.6	3.7	3.8	3.9	
	1000	3.6	3.8	4.2	4.3	4.2	4.4	4.5	
	500	4.2	4.4	4.7	4.8	4.7	4.9	5.1	
	200	4.8	5.2	5.5	5.5	5.5	5.8	6.0	
	100	5.5	5.8	6.2	6.4	6.3	6.5	6.8	
	50	6.2	6.7	7.4	7.5	7.3	7.5	7.9	
	20	7.4	7.8	8.4	8.8	8.8	9.1	9.4	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	% Effi. @ 1000 rpm	Standard Direction	PRICE EACH 1-5
HPCL83-2 HPCXL83-2	2:1	2000	3.6	92	Same	£570.75
HPCL83-3 HPCXL83-3	3:1	1333	3.8	92	Same	£570.75
HPCL83-4 HPCXL83-4	4:1	1000	4.2	92	Same	£570.75
HPCL83-5 HPCXL83-5	5:1	800	4.3	92	Same	£570.75
HPCL83-6 HPCXL83-6	6:1	600	4.2	92	Same	£570.75
HPCL83-8 HPCXL83-8	8:1	500	4.4	92	Same	£570.75
HPCL83-9 HPCXL83-9	9:1	444	4.5	92	Same	£570.75
HPCL83-SP or HPCXL83-SP	Special Ratios: Replace SP with required ratio					£640.63

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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1.71

Inline Spur Gear Reducers

Output Torque Ratio
3.20 - 9.60Nm 12:1 - 54:1

Double or Single Shafted

L84 / XL84

L84 / XL84



WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

(3) M5 x10 deep
On $\varnothing 60$ pcd

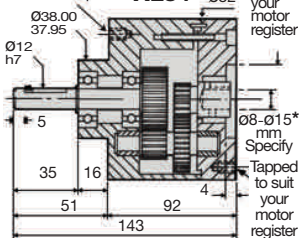
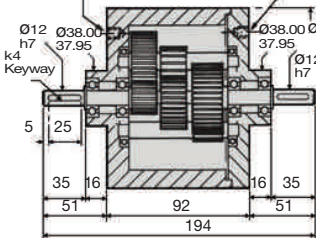
L84

(3) M5 x10 deep
On $\varnothing 60$ pcd

(3) M5 x10 deep
On $\varnothing 60$ pcd

XL84

\varnothing To suit your motor register



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m.	RPM Input	Reduction ratio				
		12:1	16:1	18:1	24:1	27:1
Output Torque	4000	3.20	3.30	3.40	3.40	3.50
	2000	4.00	4.00	4.20	4.30	4.30
	1000	4.60	4.70	4.80	4.80	4.90
	500	5.00	5.10	5.10	5.20	5.30
	200	6.00	6.10	6.20	6.30	6.50
	100	7.00	7.00	7.10	7.10	7.30
	50	8.10	8.10	8.30	8.30	8.40
	20	9.20	9.30	9.30	9.50	9.60

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Standard Direction	PRICE EACH 1-5
HPCL84-12 HPCXL84-12	12:1 333	4.6	1.25 Opposite	£647.51
HPCL84-16 HPCXL84-16	16:1 250	4.7	1.25 Opposite	£647.51
HPCL84-18 HPCXL84-18	18:1 222	4.8	1.25 Opposite	£647.51
HPCL84-24 HPCXL84-24	24:1 166	4.8	1.25 Opposite	£647.51
HPCL84-27 HPCXL84-27	27:1 148	4.9	1.25 Opposite	£647.51
HPCL84-32 HPCXL84-32	32:1 125	4.9	1.25 Same	£647.51
HPCL84-54 HPCXL84-54	54:1 74	5.0	1.25 Same	£647.51
HPCL84-SP or HPCXL84-SP	Special Ratios: Replace SP with required ratio			£719.54

Other Info.

Testing in your application is necessary.

Efficiency @ 1000 R.P.M: 88%

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.72



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Gearboxes

INLINE SPUR GEAR REDUCERS

Ratio 2:1 - 9:1 **Output Torque** 6.9- 21.0Nm **Inline Spur Gear Reducers**

L101 / XL101

Double or Single Shafted

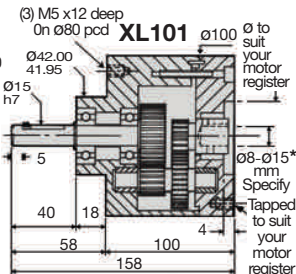
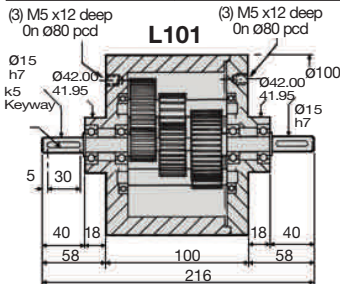
WEIGHT	1.00/2.00 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

L101 / XL101



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m.	RPM Input	Reduction ratio							
		2:1	3:1	4:1	5:1	6:1	8:1	9:1	
Output Torque	3000	6.9	7.1	7.5	7.8	8.0	8.3	8.8	
	2000	7.5	7.9	8.3	8.5	8.7	8.9	9.2	
	1000	8.6	9.0	9.4	9.6	10.0	10.3	10.6	
	500	10.1	10.5	10.8	11.0	11.3	11.8	12.3	
	200	11.5	12.2	12.7	12.0	13.5	13.6	13.8	
	100	13.2	13.9	14.5	14.8	15.1	15.4	15.8	
	50	15.0	15.9	16.9	17.2	17.8	17.9	18.0	
	20	17.8	18.6	19.2	19.6	20.0	20.4	21.0	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL101-2 HPCXL101-2	2:1	1500	8.60	1.5	Same	£606.43
HPCL101-3 HPCXL101-3	3:1	1000	9.00	1.5	Same	£606.43
HPCL101-4 HPCXL101-4	4:1	750	9.40	1.5	Same	£606.43
HPCL101-5 HPCXL101-5	5:1	600	9.60	1.5	Same	£606.43
HPCL101-6 HPCXL101-6	6:1	500	10.00	1.5	Same	£606.43
HPCL101-8 HPCXL101-8	8:1	375	10.30	1.5	Same	£606.43
HPCL101-9 HPCXL101-9	9:1	333	10.60	1.5	Same	£606.43
HPCL101-SP or HPCXL101-SP	Special Ratios: Replace SP with required ratio					£695.02

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 92%

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1.73

Inline Spur Gear Reducers

Output Torque Ratio
8.8 - 25.0Nm 10:1 - 27:1

Double or Single Shafted

L102 / XL101

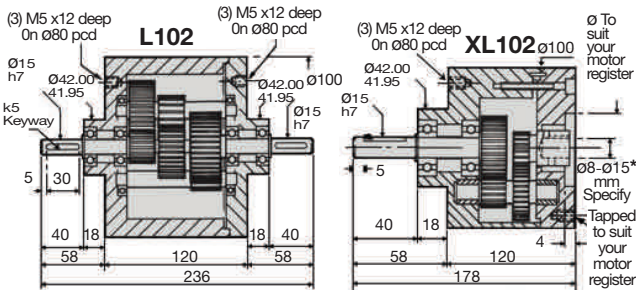
L101 / XL102



WEIGHT	1.50/2.50 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS

Gearboxes



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio					
		10:1	12:1	15:1	18:1	24:1	27:1
Output Torque	3000	8.8	8.9	9.0	9.1	9.5	10.0
	2000	9.3	9.4	9.7	10.0	10.4	10.8
	1000	10.8	11.0	11.0	11.2	11.5	12.0
	500	12.4	12.5	12.5	12.7	13.5	14.0
	200	14.1	14.5	14.7	15.0	15.7	16.5
	100	16.1	16.6	16.7	17.0	17.5	18.2
	50	18.6	19.2	19.5	19.7	20.0	20.4
	10	21.7	22.4	22.6	23.0	23.8	25.0

*Plain bore, no keyslot

DISCOUNTS

1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL102-10	HPCXL102-10	10:1	300	10.80	1.50	Opposite	£692.13
HPCL102-12	HPCXL102-12	12:1	250	11.00	1.50	Opposite	£692.13
HPCL102-15	HPCXL102-15	15:1	200	11.00	1.50	Opposite	£692.13
HPCL102-18	HPCXL102-18	18:1	166	11.20	1.50	Opposite	£692.13
HPCL102-24	HPCXL102-24	24:1	125	11.50	1.50	Opposite	£692.13
HPCL102-27	HPCXL102-27	27:1	111	12.00	1.50	Opposite	£692.13
HPCL102-SP or HPCXL102-SP Special Ratios: Replace SP with required ratio							£779.62

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 88%

1.74



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Ratio 2:1 - 9:1 **Output Torque** 10.3- 34.0Nm **Inline Spur Gear Reducers**

L115 / XL115

Double or Single Shafted

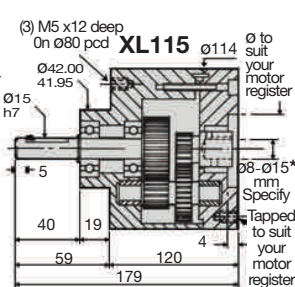
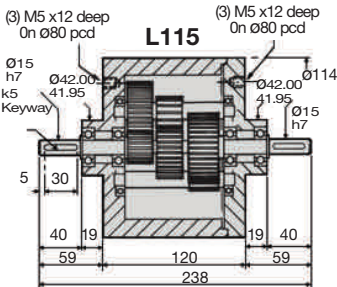
WEIGHT	3.00/4.00 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

L115 / XL115



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio					
		2:1	3:1	4:1	5:1	6:1	9:1
Output Torque	3000	10.3	11.0	11.8	12.9	12.5	13.4
	2000	11.3	12.1	13.0	13.9	13.9	14.9
	1000	13.3	14.2	15.1	16.4	15.9	17.0
	500	15.4	16.2	17.3	18.5	18.0	18.5
	200	18.0	19.0	20.2	21.6	21.0	22.7
	100	20.5	21.7	22.9	24.7	24.0	25.6
	50	23.6	24.9	26.6	28.3	27.1	28.5
	10	28.3	28.3	31.9	33.4	32.6	34.0

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL115-2 HPCXL115-2	2:1	1500	13.3	1.75	Same	£642.10
HPCL115-3 HPCXL115-3	3:1	1000	14.2	1.75	Same	£642.10
HPCL115-4 HPCXL115-4	4:1	750	15.1	1.75	Same	£642.10
HPCL115-5 HPCXL115-5	5:1	600	16.4	1.75	Same	£642.10
HPCL115-6 HPCXL115-6	6:1	500	15.9	1.75	Same	£642.10
HPCL115-9 HPCXL115-9	9:1	333	17.0	1.75	Same	£642.10
HPCL115-SP or HPCXL115-SP Special Ratios: Replace SP with required ratio						£738.43

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M: 92%

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1.75

Inline Spur Gear Reducers

Output Torque Ratio
13.3- 40.0Nm 10:1 - 27:1

Double or Single Shafted

L116 / XL116

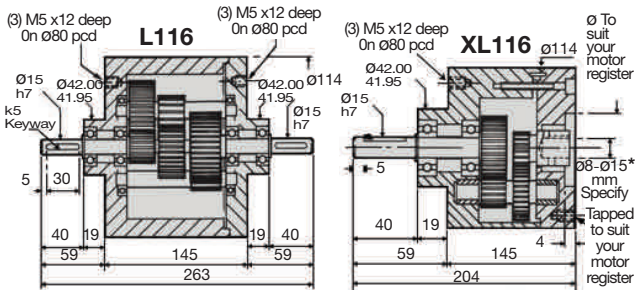
L116 / XL116



WEIGHT	3.00/4.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS

Gearboxes



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction ratio				
		10:1	12:1	15:1	18:1	27:1
Output Torque	3000	13.3	13.6	14.0	14.5	15.8
	2000	14.0	14.6	15.1	15.8	17.2
	1000	16.5	17.0	17.3	17.8	19.2
	500	18.8	19.0	19.5	20.2	22.0
	200	22.0	22.3	23.0	24.0	26.0
	100	25.0	25.3	26.0	27.0	29.0
	50	28.8	29.1	30.2	31.2	32.2
	10	34.0	34.0	35.5	38.0	40.0

*Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm Mod	Standard Direction	PRICE EACH 1-5
HPCL116-10 HPCXL116-10	10:1	300	16.50	1.75 Opposite	£733.39
HPCL116-12 HPCXL116-12	12:1	250	17.00	1.75 Opposite	£733.39
HPCL116-15 HPCXL116-15	15:1	200	17.30	1.75 Opposite	£733.39
HPCL116-18 HPCXL116-18	18:1	167	17.80	1.75 Opposite	£733.39
HPCL116-27 HPCXL116-27	27:1	111	19.20	1.75 Opposite	£733.39
HPCL116-SP or HPCXL116-SP	Special Ratios: Replace SP with required ratio				£837.31

Other Info.

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.

Torque figures are to be used for guidance only.

Efficiency @ 1000 R.P.M.: 88%

1.76



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

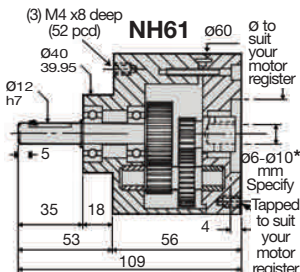
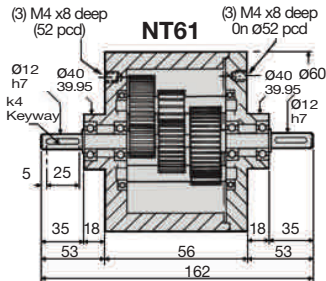
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Ratio 1:1 - 9:1 **Output Torque** 5.2- 17.0Nm **Inline Spur Gear Reducers**

NT61 / NH61

Double or Single Shafted

WEIGHT	0.60/1.20 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction							
		1:1	2:1	3:1	4:1	5:1	6:1	8:1	9:1
Output Torque	3000	5.2	5.2	5.4	5.6	5.9	6.2	6.5	6.8
	2000	5.7	5.7	6.0	6.2	6.4	6.7	7.1	7.5
	1000	6.7	6.7	6.9	7.2	7.5	7.8	8.2	8.6
	500	7.8	7.8	8.1	8.4	8.7	9.1	9.4	9.7
	200	9.1	9.1	9.4	9.8	10.1	10.4	10.8	11.4
	100	10.4	10.4	10.8	11.3	11.6	12.0	12.5	13.1
	50	12.0	12.0	12.0	12.2	12.3	12.5	13.2	14.3
	20	14.3	14.3	14.5	14.6	14.8	15.0	15.8	17.0

*8mm Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	% Effic. @ 1000 rpm	Stand. Direct.	PRICE EACH 1-5
HPCNT61-1 HPCNH61-1	1:1	3000	6.7	92	Opposite	£370.64
HPCNT61-2 HPCNH61-2	2:1	1500	6.7	92	Same	£316.31
HPCNT61-3 HPCNH61-3	3:1	1000	6.9	92	Same	£316.31
HPCNT61-4 HPCNH61-4	4:1	750	7.2	92	Same	£316.31
HPCNT61-5 HPCNH61-5	5:1	600	7.5	88	Opposite	£316.31
HPCNT61-6 HPCNH61-6	6:1	500	7.8	88	Opposite	£316.31
HPCNT61-8 HPCNH61-8	8:1	375	8.2	88	Opposite	£316.31
HPCNT61-9 HPCNH61-9	9:1	333	8.6	88	Opposite	£316.31
HPCNT61-SP or HPCNH61-SP	Special Ratios: Replace SP with required ratio					£335.35

Testing in your application is necessary.

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.



Inline Spur Gear Reducers

Output Torque
7.5 - 23.5Nm

Ratio
1:1 - 27:1

Double or Single Shafted

NT62 / NH62

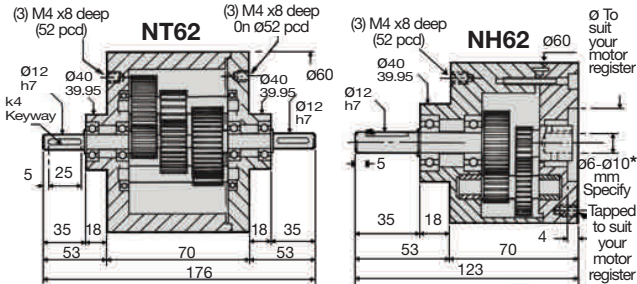
NT62 / NH62



WEIGHT	0.60/1.20 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS

Gearboxes



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction							
		1:1	10:1	12:1	15:1	18:1	20:1	24:1	27:1
Output Torque	3000	7.5	7.5	7.8	8.1	8.3	8.6	8.8	9.2
	2000	8.1	8.1	8.5	8.9	9.0	9.2	9.5	10.0
	1000	9.2	9.2	9.5	10.0	10.1	10.3	10.7	11.2
	500	10.3	10.3	10.7	11.2	11.4	11.7	12.2	12.8
	200	12.5	12.5	13.0	13.8	13.8	13.9	14.4	13.9
	100	13.9	13.9	14.6	15.4	15.6	15.8	16.5	17.3
	50	15.8	15.8	16.5	17.3	17.5	17.7	18.2	19.4
	20	18.8	18.8	19.8	21.0	21.4	22.0	22.7	23.5

*8mm Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direc.	PRICE EACH 1-5
HPCNT62-1 HPCNH62-1	1:1	3000	9.20	0.8/0.1	Opposite	£435.52
HPCNT62-10 HPCNH62-10	10:1	300	9.20	0.8/0.1	Same	£381.92
HPCNT62-12 HPCNH62-12	12:1	250	9.50	0.8/0.1	Same	£381.92
HPCNT62-15 HPCNH62-15	15:1	200	10.00	0.8/0.1	Same	£381.92
HPCNT62-18 HPCNH62-18	18:1	166	10.10	0.8/0.1	Same	£381.92
HPCNT62-20 HPCNH62-20	20:1	150	10.30	0.8/0.1	Same	£381.92
HPCNT62-24 HPCNH62-24	24:1	125	10.70	0.8/0.1	Same	£381.92
HPCNT62-27 HPCNH62-27	27:1	111	11.20	0.8/0.1	Same	£381.92
HPCNT62-SP or HPCNH62-SP Special Ratios: Replace SP with required ratio						£394.01

Testing in your application is necessary.

Efficiency @ 1000 R.P.M.: 85%

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.78



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Ratio **Output Torque** **Inline Spur Gear Reducers**
1:1 - 120:1 **9.2- 30.0Nm**

NT63 / NH63

Double or Single Shafted

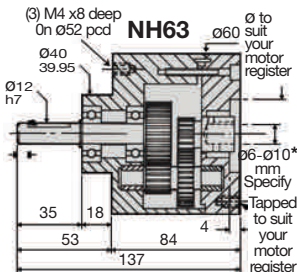
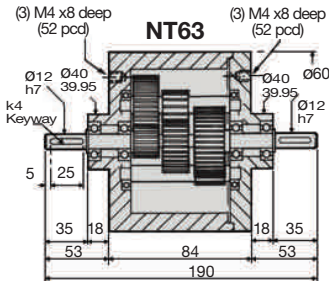
WEIGHT	0.60/1.20 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

NT63 / NH63



Input Bore, Tapped Holes & Register must be specified when ordering.

*8mm Plain bore, no keyslot

N.m.	RPM Input	Reduction								
		1:1	30:1	36:1	40:1	48:1	54:1	81:1	120:1	
Output Torque	3000	9.2	9.2	9.5	10.0	10.5	11.3	12.5	12.5	
	2000	10.0	10.0	10.4	10.8	11.4	12.1	13.1	13.1	
	1000	11.2	11.2	11.8	12.5	13.3	14.0	15.0	15.0	
	500	12.8	12.8	13.3	13.9	14.8	15.9	17.2	17.2	
	200	14.3	14.3	15.3	16.7	17.8	18.9	20.3	20.3	
	100	17.2	17.2	18.0	18.9	20.3	21.7	23.4	23.4	
	50	19.7	19.7	21.0	22.2	23.4	24.8	26.6	26.6	
	20	23.7	23.7	23.7	24.5	25.5	27.0	30.0	30.0	

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direct.	PRICE EACH 1-5
HPCNT63-1 HPCNH63-1	1:1	3000	11.2	0.8	Opposite	£470.34
HPCNT63-30 HPCNH63-30	30:1	100	11.2	0.8	Opposite	£421.61
HPCNT63-36 HPCNH63-36	36:1	83	11.8	0.8	Opposite	£421.61
HPCNT63-40 HPCNH63-40	40:1	75	12.5	0.8	Opposite	£421.61
HPCNT63-48 HPCNH63-48	48:1	62	13.3	0.8	Opposite	£421.61
HPCNT63-54 HPCNH63-54	54:1	55	14	0.8	Opposite	£421.61
HPCNT63-81 HPCNH63-81	81:1	37	15	0.8	Opposite	£421.61
HPCNT63-120 HPCNH63-120	120:1	25	15	0.8	Opposite	£421.61
HPCNT63-SP or HPCNH63-SP	Special Ratios: Replace SP with required ratio					£470.34

Testing in your application is necessary. **Efficiency @ 1000 R.P.M:** 80%
 You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
 Torque figures are to be used for guidance only.

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1.79

Inline Spur Gear Reducers

Output Torque
12.8 - 44.0Nm

Ratio
1:1 - 9:1

Double or Single Shafted

NT91 / NH91

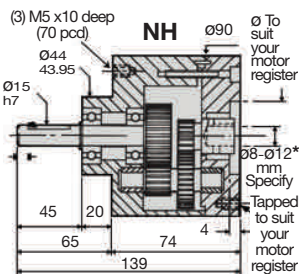
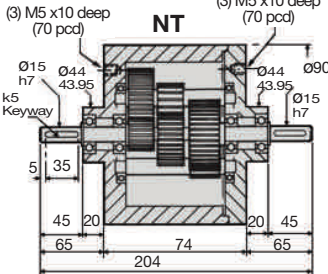
HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

NT91 / NH91



WEIGHT	1.60/3.00 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction							
		1:1	2:1	3:1	4:1	5:1	6:1	8:1	9:1
Output Torque	3000	12.8	12.8	13.0	13.7	14.5	15.4	16.1	17.1
	2000	14.9	14.9	15.4	16.1	16.8	17.7	18.5	19.5
	1000	17.5	17.5	17.7	18.4	19.2	20.1	21.0	21.9
	500	20.1	20.1	20.7	21.5	22.5	23.6	24.7	26.0
	200	23.2	23.2	23.6	24.7	25.9	27.2	28.2	29.5
	100	26.5	26.5	27.2	27.5	27.9	28.4	30.5	33.0
	50	31.8	31.8	32.5	33.8	35.2	36.6	38.0	39.6
	20	35.6	35.6	36.5	38.0	39.8	41.0	42.2	44.0

*8mm Plain bore, no keyslot

DISCOUNTS

1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCNT91-1 HPCNH91-1	1:1	3000	14.9	1.25	Opposite	£490.95
HPCNT91-2 HPCNH91-2	2:1	1500	14.9	1.25	Same	£365.72
HPCNT91-3 HPCNH91-3	3:1	1000	15.4	1.25	Same	£365.72
HPCNT91-4 HPCNH91-4	4:1	750	16.1	1.25	Same	£365.72
HPCNT91-5 HPCNH91-5	5:1	600	16.8	1.25	Opposite	£365.72
HPCNT91-6 HPCNH91-6	6:1	500	17.7	1.25	Opposite	£365.72
HPCNT91-8 HPCNH91-8	8:1	375	18.5	1.25	Opposite	£365.72
HPCNT91-9 HPCNH91-9	9:1	333	19.5	1.25	Opposite	£365.72
HPCNT91-SP or HPCNH91-SP	Special Ratios: Replace SP with required ratio					£381.26

Testing in your application is necessary.

Efficiency @ 1000 R.P.M.: 90%

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.80



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Gearboxes

Ratio 1:1 - 27:1
Output Torque 18.5- 60.0Nm

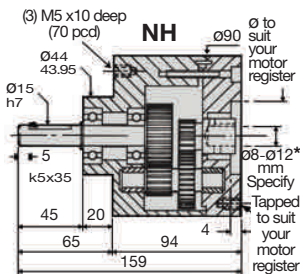
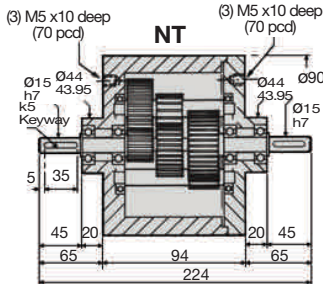
Inline Spur Gear Reducers

NT92 / NH92

Double or Single Shafted

HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

WEIGHT	1.60/3.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction							
		1:1	10:1	12:1	15:1	18:1	20:1	24:1	27:1
Output Torque	3000	18.5	18.5	19.1	20.0	20.7	21.5	22.0	22.5
	2000	21.2	21.2	22.0	22.7	23.6	24.7	25.3	25.8
	1000	24.7	24.7	25.3	26.0	26.7	27.5	28.2	29.0
	500	29.0	29.0	29.7	30.3	31.1	32.0	33.0	34.0
	200	31.5	31.5	32.5	33.5	34.6	36.0	37.5	33.5
	100	36.0	36.0	37.2	38.5	40.0	42.0	42.7	43.5
	50	43.0	43.0	44.6	46.3	47.9	50.0	52.0	53.5
	20	52.0	52.0	52.6	53.4	54.2	55.0	57.0	60.0

*8mm Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direct.	PRICE EACH 1-5
HPCNT92-1 HPCNH92-1	1:1	3000	21.2	1.25	Same	£445.03
HPCNT92-10 HPCNH92-10	10:1	300	21.2	1.25	Same	£391.24
HPCNT92-12 HPCNH92-12	12:1	250	22.0	1.25	Same	£391.24
HPCNT92-15 HPCNH92-15	15:1	200	22.7	1.25	Same	£391.24
HPCNT92-18 HPCNH92-18	18:1	166	23.6	1.25	Same	£391.24
HPCNT92-20 HPCNH92-20	20:1	150	24.7	1.25	Same	£391.24
HPCNT92-24 HPCNH92-24	24:1	125	25.8	1.25	Same	£391.24
HPCNT92-27 HPCNH92-27	27:1	111	25.8	1.25	Same	£391.24
HPCNT92-SP or HPCNH92-SP Special Ratios: Replace SP with required ratio						£445.03

Testing in your application is necessary.

Efficiency @ 1000 R.P.M: 84%

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.



Inline Spur Gear Reducers

Output Torque
20.0 - 68.0Nm

Ratio
1:1 - 9:1

Double or Single Shafted

NT121 / NH121

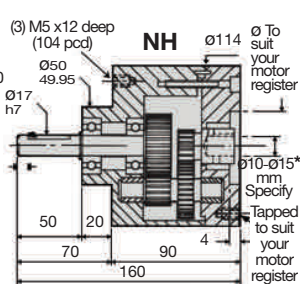
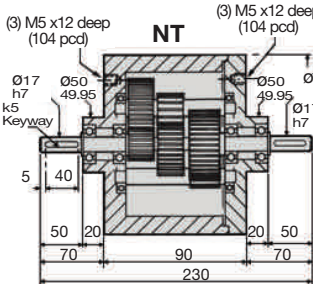
HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

NT121 / NH121



WEIGHT	1.60/3.00 Kg
BACKLASH	3° - 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction							
		1:1	2:1	3:1	4:1	5:1	6:1	8:1	9:1
Output Torque	3000	20.0	20.0	20.0	21.1	22.2	23.5	29.7	26.0
	2000	23.0	23.0	23.6	24.7	26.0	27.4	28.6	30.0
	1000	27.1	27.1	27.5	28.6	29.7	31.0	32.5	34.0
	500	31.5	31.5	32.0	33.3	34.8	36.4	38.0	40.0
	200	35.0	35.0	35.5	37.2	39.0	40.8	42.8	45.0
	100	40.0	40.0	41.0	41.8	42.7	43.6	47.0	51.0
	50	47.2	47.2	48.0	50.2	52.5	55.0	58.0	61.0
	20	53.0	53.0	55.0	57.0	60.0	62.0	65.0	68.0

*10mm Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCNT121-1 HPCNH121-1	1:1	3000	23.0	1.75	Opposite	£506.84
HPCNT121-2 HPCNH121-2	2:1	1500	23.0	1.75	Same	£455.09
HPCNT121-3 HPCNH121-3	3:1	1000	23.6	1.75	Same	£455.09
HPCNT121-4 HPCNH121-4	4:1	750	24.7	1.75	Same	£455.09
HPCNT121-5 HPCNH121-5	5:1	600	26.0	1.75	Same	£455.09
HPCNT121-6 HPCNH121-6	6:1	500	27.4	1.75	Same	£455.09
HPCNT121-8 HPCNH121-8	8:1	375	28.6	1.75	Same	£455.09
HPCNT121-9 HPCNH121-9	9:1	333	30.0	1.75	Same	£455.09
HPCNT121-SP or HPCNH121-SP	Special Ratios: Replace SP with required ratio					£506.84

Testing in your application is necessary.

Efficiency @ 1000 R.P.M: 92%

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

1.82



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Ratio **1:1 - 27:1** Output Torque **32- 90Nm** **Inline Spur Gear Reducers**

NT122 / NH122 Double or Single Shafted

HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

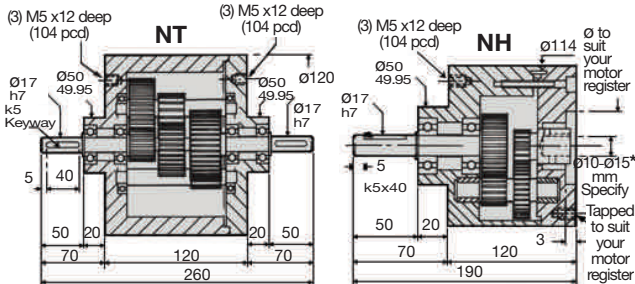
WEIGHT	4.00/5.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Gearboxes

DOUBLE OR SINGLE SHAFTED

NT122 / NH122



Input Bore, Tapped Holes & Register must be specified when ordering.

N.m.	RPM Input	Reduction							
		1:1	10:1	12:1	15:1	18:1	20:1	24:1	27:1
Output Torque	3000	32	32	33	34	35	36	37	38
	2000	36	36	37	38	39	41	42	43
	1000	42	42	43	44	45	46	47	48
	500	49	49	51	52	53	54	55	56
	200	54	54	56	58	60	61	63	65
	100	61	61	64	67	70	72	73	73
	50	73	73	76	78	82	85	86	86
	20	85	85	86	88	89	90	90	90

*10mm Plain bore, no keyslot

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	PART NUMBER	Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direct.	PRICE EACH 1-5
HPCNT122-1	HPCNH122-1	1:1	3000	36	1.75/1.25	Opposite	£576.92
HPCNT122-10	HPCNH122-10	10:1	300	36	1.75/1.25	Opposite	£544.81
HPCNT122-12	HPCNH122-12	12:1	250	37	1.75/1.25	Opposite	£544.81
HPCNT122-15	HPCNH122-15	15:1	200	38	1.75/1.25	Opposite	£544.81
HPCNT122-18	HPCNH122-18	18:1	166	39	1.75/1.25	Opposite	£544.81
HPCNT122-24	HPCNH122-24	24:1	150	42	1.75/1.25	Opposite	£544.81
HPCNT122-27	HPCNH122-27	27:1	125	43	1.75/1.25	Opposite	£544.81
HPCNT122-SP or HPCNH122-SP Special Ratios: Replace SP with required ratio							£578.44

Testing in your application is necessary.

Efficiency @ 1000 R.P.M: 88%

You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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1.83

Gearboxes

HPC J/XJ/K/XK/L/XL/NT/NH Inline Spur Gear Reducers

Technical

Backlash: Depends on ratio. Please consult our HPC Gears Technical Department.

Torque: Torque figures are given as a guide only. Testing in your application is necessary.

Specials: Specials are available to any specification. Please consult our HPC Gears Technical Department.

Modifications: Are available on all our standard gearboxes. Please consult our HPC Gears Technical Department.

Keyways, Shafts and Bores: All shafts are ground to h7 tolerance. Bores are to H8 tolerance. Keys are DIN 6885 (sliding fit).

Lubrications: Gearboxes are greased for life with Shell Avania high performance grease.

Ratios: 1:1 - 6000:1. Specials are available. Please consult our HPC Gears Technical Department.

Materials

Case: J / XJ : Aluminium Red anodised (6082 T6), end caps with black Derlin, centre body. K / XK / L / XL / NT / NH: Aluminium (6082 T6) body and end caps.

Gears: High carbon steel 817M40 or case hardened alloy steel (655M13).

Bearings: High quality single row ball bearings or Oilite[®] sintered bronze bearings.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C. Standard grease.
- Wider range of operating temperatures are achievable by and steel shielded bearings - 10° C to +120° C. Please consult our HPC Gears Technical Department for advice.
- Gearboxes are designed as speed reducers.
- Shafts should always be connected with a flexible coupling.
- Always mount drive components as close to gearbox body as possible to prevent damage to shaft and bearing.
- Avoid all impact to unit on installation as this may cause internal damage.
- We recommend all modifications are carried out by HPC Gears prior to gearbox assembly.
- Modifications undertaken by customers will invalidate the warranty.

www.hpcgears.com



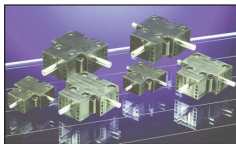
At www.hpcgears.com we offer . . .

- * Express **BREAKDOWN** service.
- * Custom made gears to samples and drawings.
- * From large production runs to one off replacements.
- * 90,000 stock products, available for instant despatch.
- We are never knowingly outpriced.

Sales/Technical Team :

Tel : +44 (0) 1246 268080

Email : sales@hpcgears.com



Features

- ① Light weight and compact
Simple construction with plastic housing.
Uses a plastic resin which has superior chemical and thermal resistance.
 - ② Freedom of installing orientation
Unit has through holes and counter-bores allowing mounting on any orientation.
 - ③ Maintenance free
Grease is applied to gears before shipping.
 - ④ Speed ratio 1:1
- No secondary operations such as adding bolt holes can be performed on the casing. There is a danger that the gearbox will break.
 - When used in applications where oil contamination is undesirable such as in food processing machines, please use preventive measures against oil leaks due to malfunction or the units wearing out.

Point to observe during use

1. Environmental conditions

- Ambient Temperature -10°C ~40°C
- Ambient humidity 80% or less
- Atmosphere Well-ventilated, dust-free air not including corrosive gas and steam.
- Location Indoors

2. Mounting Methods

- Bolt or screw the unit firmly on a flat surface free from variations.
- For screws, we recommend JIS Type 2 grooved screws.
- The dimension of the mounting screws and the recommended tightening torques are given in the table below.

3. Connection with mating machinery

- Before connecting to the mating machinery, please verify the directions of the shaft rotation to avoid breakage of the equipment.
- Please use a flexible coupling to connect the gearbox shaft to a mating shaft.
- Make sure that the shafts of the gearbox and the mating machinery are lined up centre to centre.
- If the gearbox shaft does not have a step, care should be exercised when attaching a coupling so that it does not interfere with the housing.
- There is no keyway on the gearbox shaft. Use clamping type couplings to avoid slippage.

4. Operating precautions

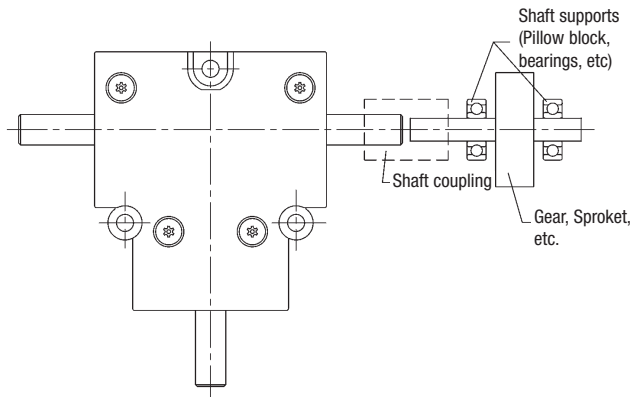
- Do not go near or touch rotating portions of the machine such as the shafts during operation. You may get caught and injure yourself.
- Stop the operation immediately when the noise level or the temperature rises abnormally. Do not restart until all of the causes are analysed and proper repairs are made.
- Do not disassemble or modify these productions. You may destroy the unit.

Recommended tightening torques

Model	Thru-hole		Tapped screw hole		
	Size	Tightening torque (N.m)	Nominal dia.	Effective length (mm)	Tightening torque (N.m)
HPCGBP-04 Type	M3	0.3~0.6	3	7~11	0.4~0.8
HPCGBP-06 Type	M3	0.4~0.8	3	9~13	0.5~1.0
HPCGBP-08 Type	M4	0.5~1.0	4	9~14	0.5~1.0

Selection Hints

- ① HPCGBP series are economical bevel gearboxes. For applications requiring high precision, strength and/or speed, we recommend the use of HPCGBK type bevel gearboxes.
- ② Please avoid overhang and thrust loads on the shafts. By supporting both ends of the shaft on which a gear or sprocket is mounted by means of pillow blocks or bearings as shown below, you can eliminate overhang loads.
- ③ These units are not suitable when you have sudden reversals of rotation or impact loads. Please consider HPCGBK type bevel gearboxes in such applications.



HPCGBP Specification Chart

Type	Specifications	X-axis revolutions per minute (min^{-1})						
		50	100	200	250	300	400	500
HPCGBP-041	X&Y-axis torque (N.cm) {kgf.cm}	9.8 {1.0}	9.8 {1.0}	9.6 {0.98}	9.5 {0.97}	9.4 {0.96}	9.3 {0.95}	9.1 {0.93}
HPCGBP-061	X&Y-axis torque (N.cm) {kgf.cm}	39.2 {4.0}	39.2 {4.0}	38.5 {3.93}	38.2 {3.90}	37.9 {3.87}	37.2 {3.80}	36.5 {3.72}
HPCGBP-081	X&Y-axis torque (N.cm) {kgf.cm}	78.4 {8.0}	78.4 {8.0}	77.0 {7.86}	76.5 {7.80}	75.7 {7.72}	74.4 {7.59}	73.1 {7.46}

Caution 1: Be sure not to exceed the allowable values.

Caution 2: The values in the table are effective when the service factor is 1. When the units are used under other conditions, refer to the Selection Guide.

Gearboxes

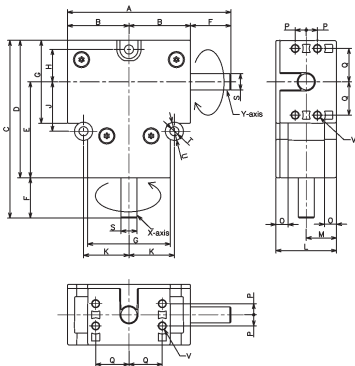
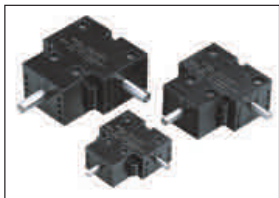
Miniature Bevel Gearboxes

HPCGBP

MINIATURE BEVEL GEARBOXES

Gearboxes

HPCGBP L TYPE



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100+								
	List Price	-5%	-10%	-15%	-20%	-25%								
PART NUMBER	Speed ratio	A	B	C	D	E	F	G	H	J	K	L	M	O
HPCGBP-041L	1:1	51	20.5	55	45	32	10	26	9.5	16	15	18	9	4.5
HPCGBP-061L	1:1	70	27.5	73	58	41	15	34	13.5	20	19	26	13	4.5
HPCGBP-081L	1:1	81	30.5	88	68	47.5	20	41	16	24.5	22.5	30	15	6
PART NUMBER	P	Q	S	T	U	V		Weight (gf)	PRICE EACH					
						Diameter	Depth							
HPCGBP-041L	3	10	∅ 4	∅ 3.5	7	∅ 2.5	11	45	£78.99					
HPCGBP-061L	4.5	14	∅ 6	∅ 3.5	7	∅ 2.5	13	120	£84.94					
HPCGBP-081L	5.5	16.5	∅ 8	∅ 4.5	9	∅ 3.3	14	200	£95.37					

CAUTION 1: The arrow marks on the shafts are intended to show the relative direction of rotation. The units can be driven in the opposite direction as well.

CAUTION 2: In the standard unit, the X-axis rotates clockwise, and the Y-axis counterclockwise.

CAUTION 3: The tolerance of shaft diameter is JIS h8.

CAUTION 4: The shafts do not have keyways. Please use clamping type couplings to avoid slippage.

CAUTION 5: The backlash at the X-axis (input shaft) is about 3.

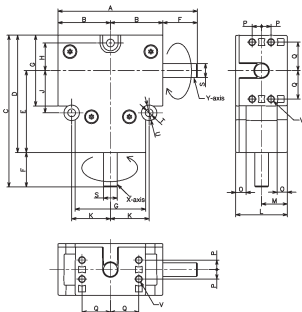
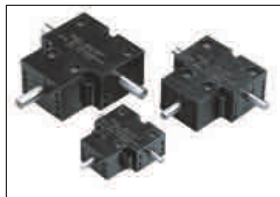
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HPCGBP T TYPE



DISCOUNTS		1 - 5		6-19		20-39		40-59		60-99		100+		
		List Price		-5%		-10%		-15%		-20%		-25%		
PART NUMBER	Speed ratio	A	B	C	D	E	F	G	H	J	K	L	M	O
HPCGBP-041T	1:1	61	20.5	55	45	32	10	26	9.5	16	15	18	9	4.5
HPCGBP-061T	1:1	85	27.5	73	58	41	15	34	13.5	20	19	26	13	4.5
HPCGBP-081T	1:1	101	30.5	88	68	47.5	20	41	16	24.5	22.5	30	15	6
PART NUMBER	P	Q	S	T	U	V		Weight (gf)	PRICE EACH					
						Diameter	Depth							
HPCGBP-041T	3	10	ø 4	ø 3.5	7	ø 2.5	11	45	£78.99					
HPCGBP-061T	4.5	14	ø 6	ø 3.5	7	ø 2.5	13	120	£84.94					
HPCGBP-081T	5.5	16.5	ø 8	ø 4.5	9	ø 3.3	14	200	£95.37					

- CAUTION 1:** The arrow marks on the shafts are intended to show the relative direction of rotation. The units can be driven in the opposite direction as well.
- CAUTION 2:** In the standard unit, the X-axis rotates clockwise, and the Y-axis counterclockwise.
- CAUTION 3:** The tolerance of shaft diameter is JIS h8.
- CAUTION 4:** The shafts do not have keyways. Please use clamping type couplings to avoid slippage.
- CAUTION 5:** The backlash at the X-axis (input shaft) is about 3.



Selection Guide



Essential data for selection

Load torque, type of prime mover, input speed, speed ratio, running time, coupling method, and frequency of start and stop.

Selection Procedure

The performance table in the catalogue is based on the design conditions that the prime mover is a motor, the load is uniform, and the unit runs 10 hours per day.

a) When using the units under any other conditions, it is necessary to correct the value of load to torque by applying the service factors shown in Table 1.

Corrected Load Torque = Load torque applied to gearbox X Service factor (See Table 1)

Service factors (Sf)

Table 1

Loading condition	Service factors (Sf)		
	Less than 3 hrs/day operation	3-10 hrs/day operation	More than 10 hrs/day operation
Uniform load	1 (1)	1 (1.25)	1.25 (1.50)
Light impact load	1 (1.25)	1.25 (1.50)	1.50 (1.75)
Heavy impact load	1.25 (1.50)	1.50 (1.75)	1.75 (2.00)

NOTE 1: Use the factors in parentheses when frequency of starts and stops exceed 10 times per hour.

NOTE 2: Also, use the factors in parentheses when a prime mover other than a motor is used (for example, an internal combustion engine).

Keep the corrected load torque at the speed at less than the allowed X & Y axis torque (Speed ratio 1:1), or the allowable Y axis torque (Speed ratio 1:2) shown in the performance table.

b) Select an appropriate shaft layout from the shaft layout drawing for each model.

c) Check for overhang load space (O.H.L) . Overhang load is a load applied beyond the bearing support. Examining the overhang load is indispensable whenever chains, belts, or gears are used to couple the unit with the mating machinery.

$$\text{O.H.L.} = \frac{\text{TLE} \times \text{K1} \times \text{K2}}{\text{R}} \quad (\text{N}) \quad \{\text{kgf}\}$$

TLE: Corrected load torque applied to the gearbox shaft (N.m){kgf.m}

R: Pitch radius of sprocket, pulley, gear, etc., mounted on the gearbox shaft (m)

K1: Factor depending on the method of coupling (See Table -2)

K2: Factor depending on the position of load (See Table -3)

* The value of O.H.L from the equation above must be smaller than the value of allowable O.H.L on the X-and the Y-axis shown on the performance table.

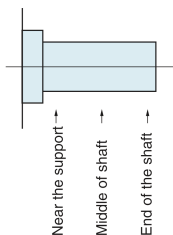
Factor K1 (Table 2)

Coupling method	K1
Chain, timing belt	1.00
Gear	1.25
V belt	1.50

Factor K2 (Table 3)

Position of load	K2
Near the support	0.75
Middle of shaft	1.00
End of the shaft	1.50

● Position of load



d) Select a model capable to satisfy all of a), b) and c) obtained above.

Gearboxes

Spiral Bevel Gearboxes

Selection Examples

Selection Examples

Example 1

Application: Conveyor (uniform load)

Load torque: 78.4 N.m [8 kgf.m]

X-axis rotational speed: 300 min⁻¹

Speed ratio: 1:2

Shaft layout: As illustrated below

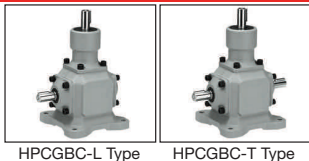
Running time: 12 hours/day

Coupling method: X-axis--Coupling

Y-axis--Chain (positioned at the middle of the shaft)

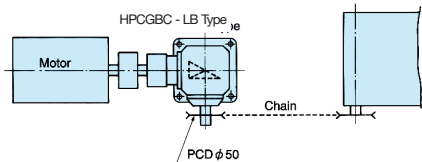
Installation: Horizontal

Location: Indoors



HPCGBC-L Type

HPCGBC-T Type



1 Torque Analysis

Service factor under load is $S_f=1.25$ (Table 1).

Accordingly, corrected load torque applied to Y-axis.

$TLE=78.4 \times 1.25=98 \text{ N.m}$ { $TLE=8 \times 1.25=10 \text{ kgf.m}$ }

2 O.H.L Analysis

O.H.L on the Y-axis

$$\text{O.H.L} = \frac{TLE \times K1 \times K2}{R} = \frac{98 \times 1 \times 1}{2 \times 1000} = 1960 \text{ N}$$

$$\{ \text{O.H.L} = \frac{TLE \times K1 \times K2}{R} = \frac{10 \times 1 \times 1}{2 \times 1000} = 200 \text{ kgf} \}$$

3 Model Selection

A model capable of satisfying all of the design conditions, torque and O.H.L is HPCGBC-322LB.

Example 2

Application: Line shaft drive

Load torque: 58.8 N.m [6 kgf.m] (uniform load) (for each A, B, and C)

Rotational speed: 600 min⁻¹

Speed ratio: 1:1

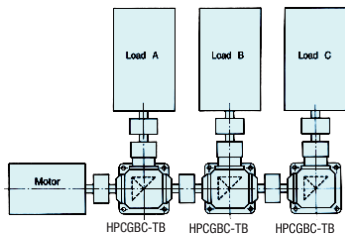
Shaft layout: As illustrated at right

Running time: 8 hours/day

Coupling method: All couplings

Installation: Horizontal

Location: Indoors



In case of an inline shaft drive, load applied to the Y-axis varies with the location of the gearbox. Therefore an adequate model must be selected individually for each position. Service factor (Table 1) under the design condition is $S_f=1.0$ for all gearboxes.

① Gearbox No.1

Corrected load torque applied to the X-axis that drives only load A is:

$$58.8 \times 1.0 = 58.8 \text{ N.m } \{6 \times 1.0 = 6 \text{ kgf.m}\}$$

Corrected load torque applied to the Y-axis that drives load A, B and C is:

$$(58.8 + 58.8 + 58.8) \times 1.0 = 176.4 \text{ N.m}$$

$$\{(6 + 6 + 6) \times 1.0 = 18 \text{ kgf.m}\}$$

HPCGBC-401TB is selected from the performance table.

② Gearbox No.2

Corrected load torque applied to the X-axis that drives only load B is:

$$58.8 \times 1.0 = 58.8 \text{ N.m } \{6 \times 1.0 = 6 \text{ kgf.m}\}$$

Corrected load torque applied to the Y-axis that drives load B and C is:

$$(58.8 + 58.8) \times 1.0 = 117.6 \text{ N.m}$$

$$\{(6 + 6) \times 1.0 = 12 \text{ kgf.m}\}$$

HPCGBC-321TB is selected from the performance table.

③ Gearbox No.3

Corrected load torque applied to the X-axis that drives only load C is:

$$58.8 \times 1.0 = 58.8 \text{ N.m } \{6 \times 1.0 = 6 \text{ kgf.m}\}$$

Corrected load torque applied to the Y-axis that drives only load C is:

$$58.8 \times 1.0 = 58.8 \text{ N.m } \{6 \times 1.0 = 6 \text{ kgf.m}\}$$

HPCGBC-251LB is selected from the performance table.

④ Model selection

No.1 gearbox is **HPCGBC-401TB**

No.2 gearbox is **HPCGBC-321TB**

No.3 gearbox is **HPCGBC-251TB**

Gearboxes

Spiral Bevel Gearboxes

HPCGBK



Features

- ① Compactness
Simplicity of design, enclosed in an aluminum die-cast casing.
- ② Low noise and high efficiency
The spiral bevel gears are made of case-hardened alloy steel.
- ③ Freedom of installing orientation
The unit can be installed easily in any orientation.
- ④ Maintenance-free
High-grade grease is sealed in the casting before shipping.
- ⑤ Selective speed ratio
Gear ratios of 1/1/ or 1/2 are available to meet most applications.

Lubrication

A standard volume of lubricant is sealed at the factory before shipping.

Model	Volume of lubricant	Lubrication
HPCGBK10 Type	10g	Grease The grease contains the Li Extreme Pressure additive NLGI-00
HPCGBK15 Type	30g	
HPCGBK20 Type	50g	

Point to observe during use

1. Environmental space suitable for installation

- ① Ambient Temperature -10°C ~40°C
- ② Ambient humidity 80% or less
- ③ Atmosphere
Well-ventilated, dust-free air not including corrosive gas and steam.
- ④ Location
Indoor

2. Mounting methods

- ① Bolt the unit firmly on a machined plain surface free from vibrations.

- ② No secondary operations such as adding bolt holes can be performed on the casing. Also, do not disassemble or modify the units. There is a danger that the gearbox will break.
- ③ When used in applications where oil contamination is undesirable such as in a food processing machines, please use preventive measures against oil leaks due to malfunction or the units wearing out.

3. Connections with mating machinery

- ① Before connecting to the mating machinery, please verify the direction of the shaft rotation to avoid breakage of the equipment.
- ② Take care not to cause interference with an oil seal or case surface when fitting a coupling, sprocket, pulley, gear, etc. to gearbox shafts, especially for models without steps on the shaft. We recommend an H7 tolerance for the bore.
- ③ In the case of direct connection, alignment must be made accurately so that the gearbox shaft and the mating shaft are inline. We recommend flexible couplings.
- ④ When using a chain, belt or gear drive, position the gearbox shaft and the mating shaft accurately parallel with each other so that a line connecting the centre of one shaft to the centre of the other shaft makes a right angle with the shafts.

4. Operating precautions

- ① Do not get near or touch rotating portions of the machine such as the shafts during operations. You may get caught and injure yourself.
- ② Stop the operation immediately when the noise level or the temperature rises abnormally. Do not restart until all of the causes are analysed and proper repairs are made.
- ③ Sudden reversal of the direction of rotation could affect the gearbox and mating machinery. Be sure to stop the unit before reversing the rotation.
- ④ Be sure to keep the load torque and overhang load (O.H.L.) within the allowable range during operation.

HPGCBK Performance Chart

Speed ratio	Type	Specifications	X-axis revolutions per minute (min ⁻¹)													Allowable thrust load (N) (kgf)	
			50	100	200	300	400	600	900	1200	1500	1800	2500	3600	X-axis	Y-axis	
1:1	HPC GBK-101	Allowable Power (kW)	0.01	0.02	0.05	0.07	0.09	0.14	0.20	0.26	0.31	0.35	0.38	0.44	59 (6)	69 (7)	
		X&Y-axis torque (N.m)(kgf.m)	2.35 (0.24)	2.35 (0.24)	2.25 (0.23)	2.25 (0.23)	2.16 (0.22)	2.16 (0.22)	2.06 (0.21)	2.06 (0.21)	1.96 (0.20)	1.86 (0.19)	1.47 (0.15)	1.18 (0.12)			
		X-axis O.H.L. (N) (kgf)	78 (8)	78 (8)	78 (8)	78 (8)	69 (7)	69 (7)	69 (7)	69 (7)	69 (7)	59 (6)	49 (5)	39 (4)			
		Y-axis O.H.L. (N) (kgf)	127 (13)	127 (13)	118 (12)	118 (12)	118 (12)	118 (12)	108 (11)	108 (11)	108 (11)	98 (10)	78 (8)	59 (6)			
	HPC GBK-151	Allowable Power (kW)	0.05	0.09	0.18	0.27	0.35	0.51	0.75	0.96	1.16	1.30	1.44	1.66	98 (10)	118 (12)	
		X&Y-axis torque (N.m)(kgf.m)	8.82 (0.90)	8.82 (0.90)	8.62 (0.88)	8.53 (0.87)	8.33 (0.85)	8.13 (0.83)	7.94 (0.81)	7.64 (0.78)	7.35 (0.75)	6.86 (0.70)	5.49 (0.56)	4.41 (0.45)			
		X-axis O.H.L. (N) (kgf)	255 (26)	255 (26)	255 (25)	245 (25)	245 (25)	235 (24)	225 (23)	216 (22)	216 (22)	186 (19)	157 (16)	127 (13)			
		Y-axis O.H.L. (N) (kgf)	294 (30)	294 (30)	284 (29)	284 (29)	274 (28)	265 (27)	265 (27)	255 (26)	245 (25)	216 (22)	176 (18)	147 (15)			
	HPC GBK-201	Allowable Power (kW)	0.09	0.18	0.36	0.52	0.68	0.95	1.38	1.78	2.15	2.50	2.55	2.95	196 (20)	274 (28)	
		X&Y-axis torque (N.m)(kgf.m)	17.6 (1.80)	17.6 (1.80)	17.2 (1.75)	16.7 (1.70)	16.2 (1.65)	15.2 (1.55)	14.7 (1.50)	14.2 (1.45)	13.7 (1.40)	13.2 (1.35)	9.80 (1.00)	7.84 (0.80)			
		X-axis O.H.L. (N) (kgf)	353 (36)	353 (36)	343 (35)	333 (34)	333 (34)	323 (33)	314 (32)	304 (31)	294 (30)	265 (27)	216 (22)	176 (18)			
		Y-axis O.H.L. (N) (kgf)	529 (54)	529 (54)	519 (53)	510 (52)	500 (51)	490 (50)	470 (48)	451 (46)	451 (45)	392 (40)	324 (32)	255 (26)			
1:2	HPC GBK-102	Allowable Power (kW)	0.005	0.01	0.02	0.03	0.04	0.06	0.09	0.12	0.14	0.16	0.17	0.20	59 (6)	69 (7)	
		X&Y-axis torque (N.m)(kgf.m)	2.06 (0.21)	2.06 (0.21)	2.06 (0.21)	1.96 (0.20)	1.96 (0.20)	1.96 (0.20)	1.86 (0.19)	1.86 (0.19)	1.76 (0.19)	1.67 (0.17)	1.27 (0.13)	1.08 (0.11)			
		X-axis O.H.L. (N) (kgf)	88 (9)	88 (9)	88 (9)	88 (9)	88 (9)	78 (8)	78 (8)	78 (8)	78 (8)	69 (7)	59 (6)	49 (5)			
		Y-axis O.H.L. (N) (kgf)	137 (14)	137 (14)	137 (14)	127 (13)	127 (13)	127 (13)	127 (13)	118 (12)	118 (12)	108 (11)	88 (9)	69 (7)			
	HPC GBK-152	Allowable Power (kW)	0.02	0.04	0.08	0.13	0.17	0.25	0.36	0.46	0.55	0.62	0.69	0.80	98 (10)	118 (12)	
		X&Y-axis torque (N.m)(kgf.m)	8.43 (0.86)	8.43 (0.86)	8.23 (0.84)	8.13 (0.83)	8.04 (0.82)	7.84 (0.80)	7.55 (0.77)	7.25 (0.74)	7.06 (0.72)	6.57 (0.67)	5.29 (0.54)	4.21 (0.43)			
		X-axis O.H.L. (N) (kgf)	255 (26)	255 (26)	255 (26)	245 (25)	245 (25)	235 (24)	225 (23)	216 (22)	216 (22)	186 (19)	157 (16)	127 (13)			
		Y-axis O.H.L. (N) (kgf)	294 (30)	294 (30)	284 (29)	284 (29)	274 (28)	265 (27)	265 (27)	255 (26)	245 (25)	216 (22)	176 (18)	147 (15)			
	HPC GBK-202	Allowable Power (kW)	0.05	0.10	0.19	0.28	0.37	0.53	0.77	0.99	1.15	1.31	1.40	1.57	196 (20)	274 (28)	
		X&Y-axis torque (N.m)(kgf.m)	19.6 (2.00)	19.6 (2.00)	18.6 (1.90)	18.1 (1.85)	17.6 (1.80)	17.0 (1.73)	16.4 (1.67)	15.7 (1.60)	14.7 (1.50)	13.9 (1.42)	10.8 (1.10)	8.33 (0.85)			
		X-axis O.H.L. (N) (kgf)	372 (38)	372 (38)	363 (37)	363 (37)	353 (36)	343 (35)	333 (34)	323 (33)	314 (32)	274 (28)	235 (24)	186 (19)			
		Y-axis O.H.L. (N) (kgf)	588 (60)	588 (60)	578 (59)	568 (58)	559 (57)	539 (55)	529 (54)	510 (52)	510 (50)	441 (45)	363 (37)	294 (30)			

Caution 1: Be sure not to exceed the allowable values. Units with (1:2) reduction ratio have the slower speed in the Y-axis.

Caution 2: The values in the table are in effect when the service factor is 1. When the units are used under other conditions, refer to the Selection Guides.

Caution 3: Overhang load (O.H.L.) means the load applied to the middle of the overhang shaft, perpendicular to the axis. When using the units under other conditions, refer to the factors K1 and K2 described in the Selection Guide.

Caution 4: When the 1:2 speed ratio is used as a speed increaser (from the Y-axis to the X-axis), the X-axis torque becomes one half of the Y-axis torque shown in the table.

Caution 5: The Y-axis torque of type T is the sum of the values on both right and left axis.

Caution 6: The Y-axis O.H.L. of type T is the sum of the values on both right and left axis.

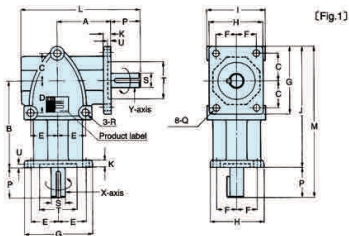
Gearboxes

Spiral Bevel Gearboxes

HPCGBK

Gearboxes SPIRAL BEVEL GEARBOXES

HPCGBK L TYPE



DISCOUNTS

1 - 5	6-19	20-39	40-59	60-99	100+
List Price	-5%	-10%	-15%	-20%	-25%

PART NUMBER	Speed ratio	A	B	C	D	E	F	G	H	I	J	K	L	M	P
HPCGBK-101L	1:1	37	58	18	18	18	14	46	38	40	82	5	82	102	20
HPCGBK-102L	1:2														
HPCGBK-151L	1:1	66	100	31	36	31	22	80	62	66	140	8	137	170	30
HPCGBK-152L	1:2														
HPCGBK-201L	1:1	80	120	36	36	36	26	92	72	76	166	10	168	206	40
HPCGBK-202L	1:2														

PART NUMBER	Q	R	S	T	U	Key NOTE 1	Backlash of shaft rotation NOTE 2	Weight (kgf)	PRICE EACH
HPCGBK-101L	ø 5.5	ø 6.5	ø 10	ø 26 _{H7}	2	1 x 15 ϕ (flat)	16' ~ 44'	0.4	£159.46
HPCGBK-102L							30' ~ 1° 23'		
HPCGBK-151L	ø 8.5	ø 8.5	ø 15	ø 42 _{H7}	3	5 x 5 x 27 ϕ	10' ~ 37'	1.8	£340.83
HPCGBK-152L							19' ~ 1° 09'		
HPCGBK-201L	ø 8.5	ø 8.5	ø 20	ø 52 _{H7}	4	6 x 6 x 35 ϕ	8' ~ 33'	3.1	£462.01
HPCGBK-202L							15' ~ 60'		

NOTE 1: The key dimensions are per JIS B 1301-1976 (Standard grade).

NOTE 2: The backlash angles are measured at the X-axis (input shaft).

CAUTION 1: The arrow marks on the shafts are intended to show the relative direction of rotation. The units can be driven in the opposite direction as well.

CAUTION 2: In the standard unit, the X-axis rotates clockwise, and the Y-axis counterclockwise.

CAUTION 3: The key grooves in the X-axis and the Y-axis do not always coincide in phase with each other.

CAUTION 4: The tolerance of shaft diameter is JIS h7.

CAUTION 5: The pinion gear is mounted on the X-axis (the input side) in 1:2 ratio units.

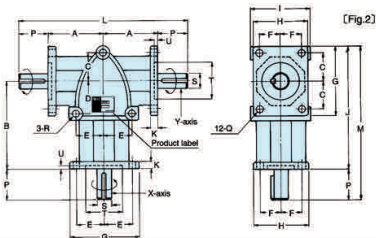
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HPCGBK T TYPE



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100+
	List Price	-5%	-10%	-15%	-20%	-25%

PART NUMBER	Speed ratio	A	B	C	D	E	F	G	H	I	J	K	L	M	P
		HPCGBK-101T	1:1	37	58	18	18	18	14	46	38	40	82	5	114
HPCGBK-102T	1:2														
HPCGBK-151T	1:1	66	100	31	36	31	22	80	62	66	140	8	192	170	30
HPCGBK-152T	1:2														
HPCGBK-201T	1:1	80	120	36	36	36	26	92	72	76	166	10	240	206	40
HPCGBK-202T	1:2														

PART NUMBER	Q	R	S	T	U	Key NOTE 1	Backlash of shaft rotation NOTE 2	Weight (kgf)	PRICE EACH
HPCGBK-101T	∅ 5.5	∅ 6.5	∅ 10	∅ 26H7	2	1 x 15ℓ (flat)	16' ~ 44'	0.5	£172.88
HPCGBK-102T							30' ~ 1° 23'		£172.88
HPCGBK-151T	∅ 8.5	∅ 8.5	∅ 15	∅ 42H7	3	5 x 5 x 27ℓ	10' ~ 37'	2.2	£373.57
HPCGBK-152T							19' ~ 1° 09'		£373.57
HPCGBK-201T	∅ 8.5	∅ 8.5	∅ 20	∅ 52H7	4	6 x 6 x 35ℓ	8' ~ 33'	3.4	£487.35
HPCGBK-202T							15' ~ 60'		£487.35

NOTE 1 : The key dimensions are per JIS B 1301-1976 (Standard grade).

NOTE 2 : The backlash angles are measured at the X-axis (input shaft).

CAUTION 1: The arrow marks on the shafts are intended to show the relative direction of rotation. The units can be driven in the opposite direction as well.

CAUTION 2: The right and left shafts on the Y-axis rotate in the same direction as shown in the illustration.

CAUTION 3: The key grooves in the X-axis and the Y-axis do not always coincide in phase with each other.

CAUTION 4: The tolerance of shaft diameter is JIS h7.

CAUTION 5: The pinion gear is mounted on the X-axis (the input side) in 1:2 ratio units.





Shaft Orientations and Orientation Codes

There are 24 permutations of shaft orientations and rotations, which are standardised for HPCGBC Bevel Gearboxes. Please pay attention to the shaft orientations in addition to the part number when selecting the units.

Caution 1: The diagrams below show the mounting surface.

Caution 2: The arrow marks on the shafts are intended to show the relative directions of rotation. The units can be driven in the opposite directions as well.

Caution 3: "▼" mark indications the surface on which the oiling and drain plugs are located when mounting horizontally. The ones without the marks have the plugs on the rear surface (Standard specifications).

Caution 4: When the unit (other than LI~LL Type, TE~TF Type) is used with the input shaft (X-axis) pointing up and is wall mounted, the lubrication method for the bearings must be altered. Please notify us at the time of the placing your order.

Caution 5: For use other than mounting surface, please see page 1.112.

Features

① **Very strong**

The unit has high grade cast iron housing and uses tapered roller bearings.

② **Low noise and high efficiency**

The spiral bevel gears are made of case-hardened alloy steel.

③ **Freedom of installing orientation**

The unit can be installed easily in any orientation. However, if you cannot use one of the standard orientations, please see page 1.112.

④ **Maintenance-free**

High-grade oil is added to the casing before shipping.

⑤ **Selective speed ratio**

Gear ratios of 1/1 or 1/2 are available to meet most applications.

Lubrication

























A standard volume of lubricant is sealed at the factory before shipping.

Model	Volume of lubricant	Lubrication	
HPCGBC-19 Type	0.3L	Oil	JIS Gear oil Industrial Type 2
HPCGBC-25 Type	0.7L		
HPCGBC-32 Type	1.0L		
HPCGBC-40 Type	1.5L		

Operating preconditions

See HPCGBK (page 1.100)

HPCGBC Shaft Orientations Chart

	HPCGBC-L Type Diagram				HPCGBC-T Type Diagram	
Horizontal Type (Top View)						
	A Type	B Type	C Type	D Type	A Type	B Type
Vertical Type (Front View)						
	E Type	F Type	G Type	H Type	C Type	D Type
						
	I Type	J Type	K Type	L Type	E Type	F Type
						
	M Type	N Type	O Type	P Type	G Type	H Type

HPCGBC Performance Chart Notes

- Caution 1:** Be sure not to exceed the allowable torque values. Units with (1:2) reduction ratio have the slower speed in the Y-axis.
- Caution 2:** The values in the table are in effect when the service factor is 1. When the units are used under other conditions, refer to the Service Factor Tables 2 and 3 (page 1.97).
- Caution 3:** Overhang load (O.H.L) means the load applied to the middle of the overhang shaft, perpendicular to the axis. When using the units under other conditions, refer to the factors K1 and K2 described in Tables 2 and 3 (page 1.97).
- Caution 4:** When the 1:2 speed ratio unit is used as a speed increaser (from the Y-axis to the X-axis), the X-axis torque becomes one half of the Y-axis torque shown in the table.
- Caution 5:** The Y-axis torque of HPCGBC-T Type is the sum of the the values on both right and left axis.
- Caution 6:** The Y-axis O.H.L. of HPCGBC-T Type is the sum of the the values on both right and left axis.
- Caution 7:** The allowable thrust load is half of O.H.L. value in each case.

Gearboxes

Spiral Bevel Gearboxes

HPCGBC

Gearboxes SPIRAL BEVEL GEARBOXES

HPCGBC Performance Chart

Speed ratio	Type	Specifications	X-axis revolutions per minute (min ⁻¹)												
			20	50	100	200	300	400	600	900	1200	1500	1800	2500	3600
1:1	HPCGBC -191	Allowable Power (kW)	0.08	0.20	0.39	0.77	1.15	1.50	2.05	2.67	3.30	3.95	4.40	4.40	4.40
		X&Y-axis torque (N.m)(kgf.m)	37.2 {3.8}	37.2 {3.8}	37.2 {3.8}	36.3 {3.7}	36.3 {3.7}	36.3 {3.6}	32.3 {3.3}	28.4 {2.9}	26.5 {2.7}	24.5 {2.5}	23.5 {2.4}	16.7 {1.7}	10.8 {1.1}
		X-axis O.H.L. (N) (kgf)	1760 {180}	1760 {180}	1760 {180}	1760 {180}	1670 {170}	1620 {165}	1270 {130}	1080 {110}	882 {90}	833 {85}	784 {80}	686 {70}	637 {65}
		Y-axis O.H.L. (N) (kgf)	1960 {200}	1960 {200}	1960 {200}	1960 {200}	1960 {200}	1810 {185}	1470 {150}	1180 {120}	1030 {105}	980 {100}	931 {95}	784 {80}	735 {75}
	HPCGBC -251	Allowable Power (kW)	0.25	0.62	1.24	2.47	3.68	4.70	6.40	8.60	10.5	12.3	13.8	-	-
		X&Y-axis torque (N.m)(kgf.m)	118 {12.0}	118 {12.0}	118 {12.0}	118 {12.0}	116 {11.8}	112 {11.4}	101 {10.3}	91.1 {9.3}	83.3 {8.5}	78.4 {8.0}	73.5 {7.5}	-	-
		X-axis O.H.L. (N) (kgf)	3920 {400}	3920 {400}	3920 {400}	3920 {400}	3630 {370}	3330 {340}	2940 {300}	2450 {250}	2160 {220}	1960 {200}	1760 {180}	-	-
		Y-axis O.H.L. (N) (kgf)	4120 {420}	4120 {420}	4120 {420}	4120 {420}	4020 {410}	3920 {400}	3430 {350}	2940 {300}	2550 {260}	2450 {250}	2250 {230}	-	-
	HPCGBC -321	Allowable Power (kW)	0.36	0.88	1.77	3.53	5.26	6.72	9.15	12.3	15.0	17.5	19.7	-	-
		X&Y-axis torque (N.m)(kgf.m)	167 {17.0}	167 {17.0}	167 {17.0}	167 {17.0}	165 {16.8}	160 {16.3}	144 {14.7}	130 {13.3}	119 {12.1}	112 {11.4}	104 {10.6}	-	-
		X-axis O.H.L. (N) (kgf)	4900 {500}	4900 {500}	4900 {500}	4900 {500}	4610 {470}	4210 {430}	3720 {380}	3140 {320}	2740 {280}	2450 {250}	2160 {220}	-	-
		Y-axis O.H.L. (N) (kgf)	5190 {530}	5190 {530}	5190 {530}	5190 {530}	5100 {520}	4900 {500}	4310 {440}	3720 {380}	3230 {330}	3140 {320}	2840 {290}	-	-
	HPCGBC -401	Allowable Power (kW)	0.62	1.59	3.18	6.32	9.50	12.0	16.1	22.0	26.5	-	-	-	-
		X&Y-axis torque (N.m)(kgf.m)	294 {30.0}	294 {30.0}	294 {30.0}	294 {30.0}	294 {30.0}	284 {29.0}	255 {26.0}	231 {23.6}	211 {21.5}	-	-	-	-
		X-axis O.H.L. (N) (kgf)	9800 {1000}	9800 {1000}	9800 {1000}	7840 {800}	5880 {600}	4900 {500}	4410 {450}	3720 {380}	3430 {350}	-	-	-	-
		Y-axis O.H.L. (N) (kgf)	11760 {1200}	11760 {1200}	11760 {1000}	9800 {1000}	7350 {750}	6370 {650}	5880 {600}	5100 {520}	4020 {410}	-	-	-	-

For HPCGBC Performance Notes, see page 1.105

1.100



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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HPCGBC Performance Chart

Speed ratio	Type	Specifications	X-axis revolutions per minute (min ⁻¹)												
			20	50	100	200	300	400	600	900	1200	1500	1800	2500	3600
1:2	HPCGBC -192	Allowable Power (kW)	0.03	0.07	0.14	0.27	0.40	0.53	0.78	1.15	1.50	1.85	2.17	2.20	2.20
		Y-axis torque (N.m)(kgf.m)	25.5 {2.6}	25.5 {2.6}	25.5 {2.6}	25.5 {2.6}	25.5 {2.6}	24.5 {2.5}	24.5 {2.5}	24.5 {2.5}	23.5 {2.4}	23.5 {2.4}	22.5 {2.3}	16.7 {1.7}	10.8 {1.1}
		X-axis O.H.L. (N) (kgf)	1180 {120}	1180 {120}	1180 {120}	1180 {120}	1180 {120}	1130 {115}	1130 {115}	1080 {110}	1080 {110}	882 {90}	833 {85}	784 {80}	735 {75}
		Y-axis O.H.L. (N) (kgf)	1760 {180}	1760 {180}	1760 {180}	1760 {180}	1760 {180}	1720 {175}	1670 {170}	1470 {150}	1270 {130}	1080 {110}	980 {100}	833 {85}	784 {80}
	HPCGBC -252	Allowable Power (kW)	0.09	0.23	0.45	0.90	1.34	1.78	2.67	4.00	5.30	6.33	7.50	7.50	-
		Y-axis torque (N.m)(kgf.m)	85.3 {8.7}	85.3 {8.7}	85.3 {8.7}	85.3 {8.7}	85.3 {8.7}	84.3 {8.6}	84.3 {8.6}	84.3 {8.6}	84.3 {8.6}	80.4 {8.2}	79.4 {8.1}	56.8 {5.8}	-
		X-axis O.H.L. (N) (kgf)	3920 {400}	3920 {400}	3920 {400}	3920 {400}	3920 {400}	3720 {380}	3630 {370}	3530 {360}	3230 {330}	2740 {280}	2250 {230}	1670 {170}	-
		Y-axis O.H.L. (N) (kgf)	4120 {420}	4120 {420}	4120 {420}	4120 {420}	4020 {410}	3920 {400}	3820 {390}	3720 {380}	3430 {350}	3040 {310}	2650 {270}	2350 {240}	-
	HPCGBC -322	Allowable Power (kW)	0.13	0.32	0.64	1.28	1.91	2.54	3.80	5.72	7.57	9.05	10.7	-	-
		Y-axis torque (N.m)(kgf.m)	123 {12.5}	123 {12.5}	123 {12.5}	123 {12.5}	122 {12.4}	122 {12.4}	121 {12.3}	121 {12.3}	120 {12.2}	115 {11.7}	114 {11.6}	-	-
		X-axis O.H.L. (N) (kgf)	4900 {500}	4900 {500}	4900 {500}	4900 {500}	4900 {500}	4700 {480}	4610 {470}	4410 {450}	4120 {420}	3430 {350}	2840 {290}	-	-
		Y-axis O.H.L. (N) (kgf)	5190 {530}	5190 {530}	5190 {530}	5190 {530}	5100 {520}	4900 {500}	4800 {490}	4700 {480}	4310 {440}	3820 {390}	3330 {340}	-	-
HPCGBC -402	Allowable Power (kW)	0.20	0.48	0.96	1.93	2.90	3.84	5.72	8.55	11.0	13.8	16.4	-	-	
	Y-axis torque (N.m)(kgf.m)	183 {18.7}	183 {18.7}	183 {18.7}	183 {18.7}	183 {18.7}	182 {18.6}	181 {18.5}	180 {18.4}	174 {17.8}	173 {17.6}	172 {17.5}	-	-	
	X-axis O.H.L. (N) (kgf)	9800 {1000}	9800 {1000}	9800 {1000}	9800 {1000}	9800 {1000}	8820 {900}	7840 {800}	6860 {700}	5880 {600}	4900 {500}	3920 {400}	-	-	
	Y-axis O.H.L. (N) (kgf)	11760 {1200}	11760 {1200}	11760 {1200}	11760 {1200}	11760 {1200}	9800 {1000}	8820 {900}	8820 {900}	8820 {900}	7840 {800}	6860 {700}	-	-	

For HPCGBC Performance Notes, see page 1.105

Gearboxes

Spiral Bevel Gearboxes

HPCGBC

Gearboxes SPIRAL BEVEL GEARBOXES



HPCGBC L TYPE

DISCOUNTS	
1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100+	-25%

PART NUMBER	Speed ratio	A	Bb	C	Dp	Dg	E	Eo	F	H	J	Kp	Kg	øM	N	P
HPCGBC-191L □	1:1	257	193	76	180	116	146	129	125	154	109	117.5	53.5	10.5	17	38
HPCGBC-192L □	1:2															
HPCGBC-251L □	1:1	316	259	90	222	157	177.5	155	152	188	133	146	81	14	20	50
HPCGBC-252L □	1:2															
HPCGBC-321L □	1:1	340	277	100	242	168	192.5	174	160	196	151	162	88	14	20	55
HPCGBC-322L □	1:2															
HPCGBC-401L □	1:1	425	337	115	308	208	225	200	195	234	173	210.5	110.5	14	22	75
HPCGBC-402L □	1:2															

PART NUMBER	R	øS	øV	X-axis ø U _p	Y-axis ø U _G	Key NOTE 1	Backlash of shaft rotation NOTE 2	Weight (kgf)	PRICE EACH
HPCGBC-191L □	-	-	66	19	19	6 x 6 x 27	11' ~ 30'	10	£722.72
HPCGBC-192L □				18			17' ~ 47'		£747.22
HPCGBC-251L □	12	82.5	92	25	25	8 x 7 x 40	9' ~ 22'	17	£1005.98
HPCGBC-252L □							15' ~ 36'		£1028.96
HPCGBC-321L □	9	88.5	100	32	32	10 x 8 x 50	9' ~ 21'	22	£1376.53
HPCGBC-322L □							15' ~ 36'		£1410.24
HPCGBC-401L □	14	114.5	124	40	40	12 x 8 x 60	8' ~ 20'	33	£1675.13
HPCGBC-402L □							15' ~ 37'		£1727.19

CAUTION: Please place one of the orientation codes (A-P) from page 1.105 on the box at the end of the part number.

NOTE 1: The key dimensions are per JIS B 1301-1976 (Standard grade).

NOTE 2: The backlash angles are measured at the X-axis (input shaft).

Caution 1: Sizes of the oil plugs are for the supply port → PF1/2 and for the drain port → PT1/4 (standard specifications).

Caution 2: The Bb dimension of L type, when the cover extends beyond the end of the base, is the dimension to the end of the cover.

Caution 3: The key grooves in the X-axis and the Y-axis do not always coincide in phase with each other.

Caution 4: The tolerance of shaft diameter is JIS h6.

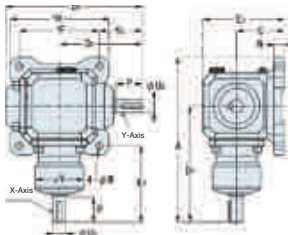
Since these products are assembled to each customer's specifications, the delivery takes several days. These units are not available from stock.

1.102

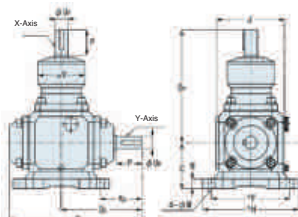


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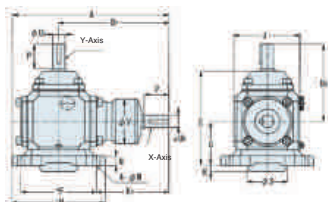
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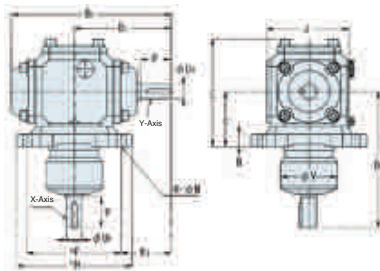
LA, LB Type
(LC, LD Type)



LI, LJ Type
(LK, LL Type)



LE, LF Type
(LG, LH Type)



LM, LN Type
(LO, LP Type)

Gearboxes

Spiral Bevel Gearboxes

HPCGBC

Gearboxes SPIRAL BEVEL GEARBOXES



HPCGBC T TYPE

DISCOUNTS

1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100+	-25%

PART NUMBER	Speed ratio	A	Bc	C	DP	Dg	E	Eo	F	H	J	Kp	Kg	øM	N	P
HPCGBC-191T □	1:1	257	232	76	180	116	146	129	125	154	109	117.5	53.5	10.5	17	38
HPCGBC-192T □	1:2															
HPCGBC-251T □	1:1	316	314	90	222	157	177.5	155	152	188	133	146	81	14	20	50
HPCGBC-252T □	1:2															
HPCGBC-321T □	1:1	340	336	100	242	168	192.5	174	160	196	151	162	88	14	20	55
HPCGBC-322T □	1:2															
HPCGBC-401T □	1:1	425	416	115	308	208	225	200	195	234	173	210.5	110.5	14	22	75
HPCGBC-402T □	1:2															

PART NUMBER	R	øS	øV	X-axis ø Up	Y-axis ø UG	Key NOTE 1	Backlash of shaft rotation NOTE 2	Weight (kgf)	PRICE EACH
HPCGBC-191T □	-	-	66	19	19	6 x 6 x 27ℓ	11' ~ 30'	10	£747.22
HPCGBC-192T □				18			17' ~ 47'		£774.78
HPCGBC-251T □	12	82.5	92	25	25	8 x 7 x 40ℓ	9' ~ 22'	18	£1028.96
HPCGBC-252T □							15' ~ 36'		£1058.04
HPCGBC-321T □	9	88.5	100	32	32	10 x 8 x 50ℓ	9' ~ 21'	23	£1410.22
HPCGBC-322T □							15' ~ 36'		£1431.25
HPCGBC-401T □	14	114.5	124	40	40	12 x 8 x 60ℓ	8' ~ 20'	34	£1727.19
HPCGBC-402T □							15' ~ 37'		£1777.71

CAUTION: Please place one of the orientation codes (A-P) from page 1.105 on the box at the end of the part number.

NOTE 1: The key dimensions are per JIS B 1301-1976 (Standard grade).

NOTE 2: The backlash angles are measured at the X-axis (input shaft).

Caution 1: Sizes of the oil plugs are for the supply port → PF1/2 and for the drain port → PT1/4 (standard specifications).

Caution 2: The Bb dimension of L type, when the cover extends beyond the end of the base, is the dimension to the end of the cover.

Caution 3: The key grooves in the X-axis and the Y-axis do not always coincide in phase with each other.

Caution 4: The tolerance of shaft diameter is JIS h6.

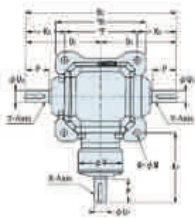
Since these products are assembled to each customer's specifications, the delivery takes several days. These units are not available from stock.

1.104

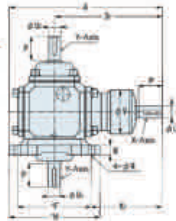


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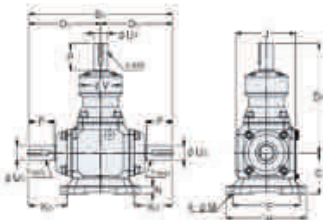
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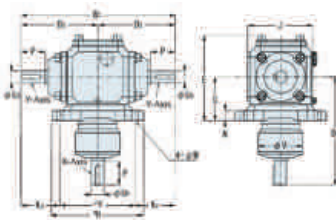
TA, TB Type



TC, TD Type



TE, TF Type



TG, TH Type

Gearboxes

Spiral Bevel Gearboxes

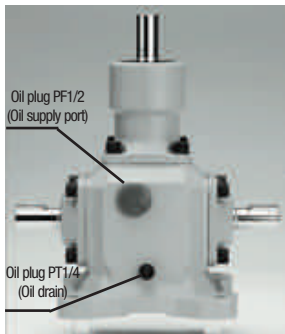
HPCGBC

Gearboxes SPIRAL BEVEL GEARBOXES

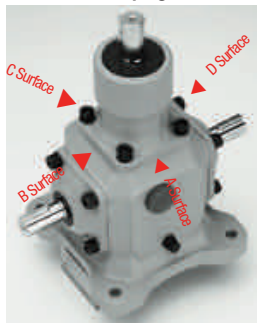
Mounting other than horizontally

The location of oil supply and drain plugs are designed for mounting the base horizontally. We can accept as a special order units that are mounted on the ceiling or on a wall. Please let us know at the time of ordering.

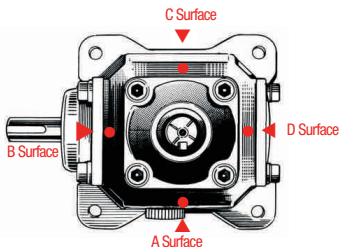
Standard specifications



Additional oil plug locations

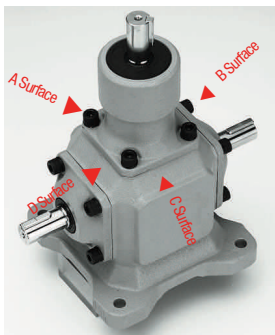


Additional oil plug locations



The mark "●" indicates the possible positions for additional oil plug PT1/4.

Additional oil plug locations



* Starting on the surface containing the standard oil plug as A, go clockwise looking from the top as B, C and D surfaces.

1.106



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Linear Motion

Pages 2.2 – 2.38



Linear Motion

Material

Leadscrews Rolled Finish
Commercial Range (Steel)

Steel EN8 (C35)
DIN 103 Quality 7e

Linear Motion Leadscrews



0.1/300mm Lead Tolerance
0.3/300mm Straightness

For left hand leadscrews use HPC505 instead of HPC500

DISCOUNTS

1 - 5	List Price
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%

PART NUMBER	Tr d x p	d2 min	d2 max	d3 min	L	PRICE EACH 1-5	
						RIGHT HAND	LEFT HAND
						HPC500	HPC505
HPC500-012-010	12 x 3	10.191	10.415	7.8	1000	£14.82	£20.78
HPC500-012-020	12 x 3	10.191	10.415	7.8	2000	£29.64	£41.57
HPC500-012-030	12 x 3	10.191	10.415	7.8	3000	£44.47	£62.36
HPC500-014-010	14 x 3	12.191	12.415	9.8	1000	£17.69	£24.73
HPC500-014-020	14 x 3	12.191	12.415	9.8	2000	£35.38	£49.46
HPC500-014-030	14 x 3	12.191	12.415	9.8	3000	£53.07	£74.19
HPC500-016-010	16 x 4	13.640	13.905	10.8	1000	£20.96	£29.38
HPC500-016-020	16 x 4	13.640	13.905	10.8	2000	£41.92	£58.76
HPC500-016-030	16 x 4	13.640	13.905	10.8	3000	£62.88	£88.14
HPC500-018-010	18 x 4	15.640	15.905	12.8	1000	£25.68	£35.96
HPC500-018-020	18 x 4	15.640	15.905	12.8	2000	£51.36	£71.92
HPC500-018-030	18 x 4	15.640	15.905	12.8	3000	£77.04	£107.88
HPC500-020-010	20 x 4	17.640	17.905	14.8	1000	£32.70	£45.82
HPC500-020-020	20 x 4	17.640	17.905	14.8	2000	£65.35	£91.64
HPC500-020-030	20 x 4	17.640	17.905	14.8	3000	£98.10	£137.46
HPC500-022-010	22 x 5	19.114	19.394	15.5	1000	£36.02	£50.46
HPC500-022-020	22 x 5	19.114	19.394	15.5	2000	£72.05	£100.92
HPC500-022-030	22 x 5	19.114	19.394	15.5	3000	£108.08	£151.38
HPC500-024-010	24 x 5	21.094	21.394	17.5	1000	£32.99	£54.05
HPC500-024-020	24 x 5	21.094	21.394	17.5	2000	£77.20	£108.11
HPC500-024-030	24 x 5	21.094	21.394	17.5	3000	£115.81	£162.16
HPC500-026-010	26 x 5	23.094	23.394	19.5	1000	£45.48	£64.02
HPC500-026-020	26 x 5	23.094	23.394	19.5	2000	£90.96	£128.04
HPC500-026-030	26 x 5	23.094	23.394	19.5	3000	£136.45	£192.06
HPC500-028-010	28 x 5	25.094	25.394	21.5	1000	£53.11	£74.36
HPC500-028-020	28 x 5	25.094	25.394	21.5	2000	£106.23	£148.73
HPC500-028-030	28 x 5	25.094	25.394	21.5	3000	£159.34	£223.10

2.2



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

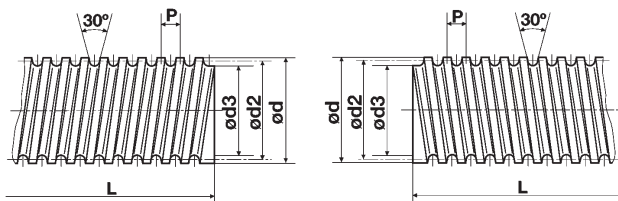
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Material

Steel EN8 (C35)
DIN 103 Quality 7e

Linear Motion

Leadscrews Rolled Finish
Commercial Range (Steel)



For left hand leadscrews use HPC505 instead of HPC500

PART NUMBER	Tr d x p	d2 min	d2 max	d3 min	L	PRICE EACH 1-5	
						RIGHT HAND	LEFT HAND
						HPC500	HPC505
HPC500-030-010	30 x 6	26.547	26.882	21.9	1000	£71.69	£100.37
HPC500-030-020	30 x 6	26.547	26.882	21.9	2000	£143.39	£200.74
HPC500-030-030	30 x 6	26.547	26.882	21.9	3000	£215.09	£301.12
HPC500-032-010	32 x 6	28.547	28.882	23.9	1000	£75.96	£106.37
HPC500-032-020	32 x 6	28.547	28.882	23.9	2000	£151.93	£212.74
HPC500-032-030	32 x 6	28.547	28.882	23.9	3000	£227.90	£319.11
HPC500-036-010	36 x 6	32.547	32.882	27.9	1000	£94.42	£132.21
HPC500-036-020	36 x 6	32.547	32.882	27.9	2000	£188.84	£264.43
HPC500-036-030	36 x 6	32.547	32.882	27.9	3000	£283.27	£396.65
HPC500-040-010	40 x 7	36.020	36.375	30.5	1000	£139.29	£195.00
HPC500-040-020	40 x 7	36.020	36.375	30.5	2000	£278.58	£390.01
HPC500-040-030	40 x 7	36.020	36.375	30.5	3000	£417.87	£585.02
HPC500-044-010	44 x 7	40.020	40.375	34.5	1000	£149.04	£178.86
HPC500-044-020	44 x 7	40.020	40.375	34.5	2000	£298.09	£357.72
HPC500-044-030	44 x 7	40.020	40.375	34.5	3000	£447.14	£536.58
HPC500-048-010	48 x 8	43.468	43.868	37.8	1000	£130.38	-
HPC500-048-020	48 x 8	43.468	43.868	37.8	2000	£260.76	-
HPC500-048-030	48 x 8	43.468	43.868	37.8	3000	£391.15	-
HPC500-050-010	50 x 8	45.468	45.868	39.3	1000	£157.02	£314.41
HPC500-050-020	50 x 8	45.468	45.868	39.3	2000	£314.05	£628.78
HPC500-050-030	50 x 8	45.468	45.868	39.3	3000	£471.08	£943.20
HPC500-060-010	60 x 9	54.935	55.360	48.1	1000	£227.53	£273.04
HPC500-060-020	60 x 9	54.935	55.360	48.1	2000	£455.06	£546.08
HPC500-060-030	60 x 9	54.935	55.360	48.1	3000	£682.60	£819.12

Linear Motion Leadscrews



Linear Motion

Material

Leadscrews Rolled Finish
Commercial Range (Stainless Steel)

Steel 303
DIN 103 Quality 7e

Linear Motion Leadscrews



0.3/300mm Lead Tolerance
0.8/300mm Straightness

DISCOUNTS

1 - 5	List Price
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%

For left hand leadscrews use HPC505 instead of HPC500

PART NUMBER	Tr d x p	d2 min	d2 max	d3 min	L	PRICE EACH 1-5	
						RIGHT HAND	LEFT HAND
						HPC500	HPC505
HPC500-012-210	12 x 3	10.191	10.415	7.8	1000	£42.90	£150.92
HPC500-012-220	12 x 3	10.191	10.415	7.8	2000	£85.81	£301.85
HPC500-012-230	12 x 3	10.191	10.415	7.8	3000	£128.72	£452.78
HPC500-016-210	16 x 4	13.640	13.905	10.8	1000	£68.38	£211.72
HPC500-016-220	16 x 4	13.640	13.905	10.8	2000	£136.76	£423.44
HPC500-016-230	16 x 4	13.640	13.905	10.8	3000	£205.14	£635.16
HPC500-018-210	18 x 4	15.640	15.905	12.8	1000	£84.40	£223.83
HPC500-018-220	18 x 4	15.640	15.905	12.8	2000	£168.80	£447.66
HPC500-018-230	18 x 4	15.640	15.905	12.8	3000	£253.20	£671.50
HPC500-020-210	20 x 4	17.640	17.905	14.8	1000	£97.45	£223.83
HPC500-020-220	20 x 4	17.640	17.905	14.8	2000	£194.90	£447.66
HPC500-020-230	20 x 4	17.640	17.905	14.8	3000	£292.35	£671.50
HPC500-024-210	24 x 5	21.094	21.394	17.5	1000	£142.50	£236.75
HPC500-024-220	24 x 5	21.094	21.394	17.5	2000	£243.53	£473.51
HPC500-024-230	24 x 5	21.094	21.394	17.5	3000	£427.51	£710.26
HPC500-026-210	26 x 5	23.094	23.394	19.5	1000	£204.03	-
HPC500-026-220	26 x 5	23.094	23.394	19.5	2000	£408.06	-
HPC500-026-230	26 x 5	23.094	23.394	19.5	3000	£612.02	-
HPC500-028-210	28 x 5	25.094	25.394	21.5	1000	£174.46	-
HPC500-028-220	28 x 5	25.094	25.394	21.5	2000	£348.92	-
HPC500-028-230	28 x 5	25.094	25.394	21.5	3000	£523.39	-
HPC500-030-210	30 x 6	26.547	26.882	21.9	1000	£193.15	£230.13
HPC500-030-220	30 x 6	26.547	26.882	21.9	2000	£386.30	£460.26
HPC500-030-230	30 x 6	26.547	26.882	21.9	3000	£579.45	£690.39

2.4



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

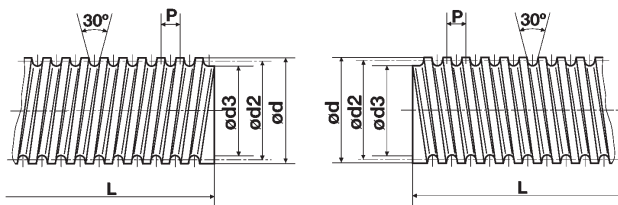
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Material

Steel 303
DIN 103 Quality 7e

Linear Motion

Leadscrews Rolled Finish
Commercial Range (Stainless Steel)



For left hand leadscrews use HPC505 instead of HPC500

PART NUMBER	Tr d x p	d2 min	d2 max	d3 min	L	PRICE EACH 1-5	
						RIGHT HAND	LEFT HAND
						HPC500	HPC505
HPC500-032-210	32 x 6	28.547	28.882	23.9	1000	£183.65	£242.90
HPC500-032-220	32 x 6	28.547	28.882	23.9	2000	£367.30	£485.80
HPC500-032-230	32 x 6	28.547	28.882	23.9	3000	£550.95	£728.71
HPC500-036-210	36 x 6	32.547	32.882	27.9	1000	£199.62	£282.46
HPC500-036-220	36 x 6	32.547	32.882	27.9	2000	£399.24	£564.92
HPC500-036-230	36 x 6	32.547	32.882	27.9	3000	£598.87	£847.38
HPC500-040-210	40 x 7	36.020	36.375	30.5	1000	£219.58	£607.63
HPC500-040-220	40 x 7	36.020	36.375	30.5	2000	£439.17	£1215.26
HPC500-040-230	40 x 7	36.020	36.375	30.5	3000	£658.76	£1822.89
HPC500-050-210	50 x 8	45.468	45.868	39.3	1000	£556.52	£757.94
HPC500-050-220	50 x 8	45.468	45.868	39.3	2000	£795.85	£1515.88
HPC500-050-230	50 x 8	45.468	45.868	39.3	3000	£1193.77	£2273.83

'Never Knowingly Outpriced'



Linear Motion

Material

Leadscrews 2-START Precision Range (Steel)

Steel EN8
DIN 103 Quality 7e

Linear Motion Leadscrews 2-START



*0.05/300mm Lead Tolerance
0.3/300mm Straightness*

DISCOUNTS

1 - 5	List Price
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%

Right Hand

PART NUMBER	$\frac{Tr}{d \times p}$	d2 min	d2 max	d3 min	L	PRICE EACH 1-5
HPC502-012-010	12 x 6 P3	10.164	10.415	7.84	1000	£20.76
HPC502-012-015	12 x 6 P3	10.164	10.415	7.84	1500	£31.14
HPC502-012-020	12 x 6 P3	10.164	10.415	7.84	2000	£41.52
HPC502-012-030	12 x 6 P3	10.164	10.415	7.84	3000	£62.29
HPC502-016-010	16 x 8 P4	13.608	13.905	10.80	1000	£33.25
HPC502-016-015	16 x 8 P4	13.608	13.905	10.80	1500	£49.88
HPC502-016-020	16 x 8 P4	13.608	13.905	10.80	2000	£66.51
HPC502-016-030	16 x 8 P4	13.608	13.905	10.80	3000	£99.77
HPC502-018-010	18 x 8 P4	15.608	15.905	12.80	1000	£39.77
HPC502-018-015	18 x 8 P4	15.608	15.905	12.80	1500	£59.65
HPC502-018-020	18 x 8 P4	15.608	15.905	12.80	2000	£79.55
HPC502-018-030	18 x 8 P4	15.608	15.905	12.80	3000	£119.32
HPC502-020-010	20 x 8 P4	17.608	17.905	14.80	1000	£45.75
HPC502-020-015	20 x 8 P4	17.608	17.905	14.80	1500	£68.62
HPC502-020-020	20 x 8 P4	17.608	17.905	14.80	2000	£91.50
HPC502-020-030	20 x 8 P4	17.608	17.905	14.80	3000	£137.25
HPC502-024-010	24 x 10 P5	21.058	21.394	17.50	1000	£67.86
HPC502-024-015	24 x 10 P5	21.058	21.394	17.50	1500	£101.79
HPC502-024-020	24 x 10 P5	21.058	21.394	17.50	2000	£135.72
HPC502-024-030	24 x 10 P5	21.058	21.394	17.50	3000	£203.58
HPC502-030-010	30 x 12 P6	26.547	26.882	21.90	1000	£83.34
HPC502-030-015	30 x 12 P6	26.547	26.882	21.90	1500	£125.01
HPC502-030-020	30 x 12 P6	26.547	26.882	21.90	2000	£166.69
HPC502-030-030	30 x 12 P6	26.547	26.882	21.90	3000	£250.03

2.6



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

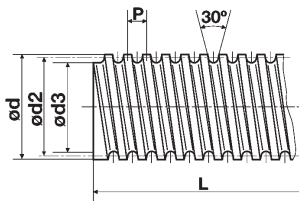
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Material

Steel EN8
DIN 103 Quality 7e

Linear Motion

Leadscrews 2-START
Precision Range (Steel)



Right Hand

PART NUMBER	Tr d x p	d2 min	d2 max	d3 min	L	PRICE EACH 1-5
HPC502-036-010	36 x 12 P6	32.547	32.882	27.90	1000	£101.80
HPC502-036-015	36 x 12 P6	32.547	32.882	27.90	1500	£152.70
HPC502-036-020	36 x 12 P6	32.547	32.882	27.90	2000	£203.60
HPC502-036-030	36 x 12 P6	32.547	32.882	27.90	3000	£305.40
HPC502-040-010	40 x 14 P7	35.978	36.375	30.50	1000	£183.36
HPC502-040-015	40 x 14 P7	35.978	36.375	30.50	1500	£275.03
HPC502-040-020	40 x 14 P7	35.978	36.375	30.50	2000	£366.72
HPC502-040-030	40 x 14 P7	35.978	36.375	30.50	3000	£550.08

'Never Knowingly Outpriced'

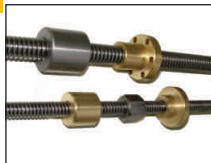


Linear Motion

Imperial Leadscrews Acme Thread Precision Range BS1104 (1957)

Material

Steel CEAX280



*0.1/300mm Lead Tolerance
0.1/300mm Straightness
Class of fit : 3G Acme*

DISCOUNTS

1 - 4	List Price
5-9	-4%
10-24	-10%
25+	-15%

For left hand leadscrews use LH instead of RH

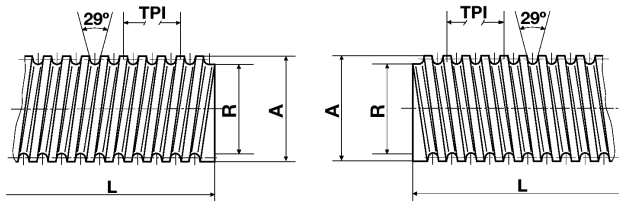
PART NUMBER	Acme Thread - inch dimensions (nominal)				PRICE EACH 1-4	
	Diameter A	Treads Per Inch TPI	Root R	Length (MT) L ⁺	RIGHT HAND	LEFT HAND
					RH	LH
HPC05010/RH-005	0.500	10	0.40	0.5	£32.27	£40.34
HPC05010/RH-010	0.500	10	0.40	1.0	£48.41	£59.81
HPC06258/RH-005	0.625	8	0.50	0.5	£39.44	£49.30
HPC06258/RH-010	0.625	8	0.50	1.0	£59.16	£73.95
HPC06258/RH-015	0.625	8	0.50	1.5	£88.74	£110.93
HPC07508/RH-005	0.750	8	0.63	0.5	£42.29	£52.86
HPC07508/RH-010	0.750	8	0.63	1.0	£63.44	£79.29
HPC07508/RH-015	0.750	8	0.63	1.5	£95.15	£118.94
HPC10005/RH-010	1.000	5	0.80	1.0	£70.11	£87.64
HPC10005/RH-015	1.000	5	0.80	1.5	£105.17	£131.46
HPC10005/RH-020	1.000	5	0.80	2.0	£140.23	£175.29
HPC10005/RH-025	1.000	5	0.80	2.5	£175.29	£219.11
HPC12504/RH-010	1.250	4	1.00	1.0	£192.81	£108.51
HPC12504/RH-015	1.250	4	1.00	1.5	£124.02	£162.77
HPC12504/RH-020	1.250	4	1.00	2.0	£173.62	£217.03
HPC12504/RH-025	1.250	4	1.00	2.5	£217.03	£271.28
HPC15004/RH-010	1.500	4	1.25	1.0	£110.18	£137.72
HPC15004/RH-015	1.500	4	1.25	1.5	£165.27	£206.57
HPC15004/RH-020	1.500	4	1.25	2.0	£220.37	£275.46
HPC15004/RH-025	1.500	4	1.25	2.5	£275.46	£344.31
HPC15004/RH-030	1.500	4	1.25	3.0	£330.56	£413.19

Material

Steel CEAX280

Linear Motion

Imperial Leadscrews Acme Thread Precision Range BS1104 (1957)



For left hand leadscrews use LH instead of RH

PART NUMBER	Diameter A	Treads Per Inch TPI	Root R	Length (MT) L*	PRICE EACH 1-4	
					RIGHT HAND	LEFT HAND
					RH	LH
HPC20003/RH-010	2.000	3	1.67	1.0	£145.24	£181.54
HPC20003/RH-015	2.000	3	1.67	1.5	£217.86	£272.32
HPC20003/RH-020	2.000	3	1.67	2.0	£290.49	£363.11
HPC20003/RH-025	2.000	3	1.67	2.5	£363.11	£453.89
HPC20003/RH-030	2.000	3	1.67	3.0	£435.73	£542.43
HPC25002/RH-010	2.500	2	2.00	1.0	£207.01	£258.76
HPC25002/RH-015	2.500	2	2.00	1.5	£310.52	£388.15
HPC25002/RH-020	2.500	2	2.00	2.0	£414.03	£517.54
HPC25002/RH-025	2.500	2	2.00	2.5	£517.54	£646.92
HPC25002/RH-030	2.500	2	2.00	3.0	£621.05	£776.31
HPC25002/RH-035	2.500	2	2.00	3.5	£724.56	£905.69

** For longer lengths, seamless joined screws or special materials contact our Technical Staff.*

We specialise in manufacturing from drawings and damaged samples.

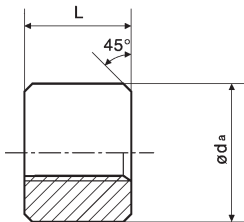


Linear Motion

Material

Threaded Nuts Precision Range (Steel)

Steel 1.0727 - Round
DIN 103 Quality 8 H



DISCOUNTS

Quantity	List Price
1 - 5	
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%

For left hand threaded nuts use HPC516 instead of HPC511

PART NUMBER	Tr d x p	da	L	PRICE EACH 1-5	
				RIGHT HAND	LEFT HAND
				HPC511	HPC516
HPC511-012-100	12 x 3	26	24	£12.43	£13.67
HPC511-012-110	12 x 3	26	18	£4.02	£5.41
HPC511-014-100	14 x 3	30	28	£12.73	£13.98
HPC511-014-110	14 x 3	30	21	£5.12	£6.84
HPC511-016-100	16 x 4	36	32	£14.82	£16.28
HPC511-016-110	16 x 4	36	24	£6.42	£6.87
HPC511-018-100	18 x 4	40	36	£15.60	£17.16
HPC511-018-110	18 x 4	40	27	£7.98	£10.63
HPC511-020-100	20 x 4	45	40	£13.05	£18.85
HPC511-020-110	20 x 4	45	30	£10.78	£12.93
HPC511-022-100	22 x 5	45	44	£14.19	£18.54
HPC511-022-110	22 x 5	45	33	£14.72	£14.19
HPC511-024-100	24 x 5	50	48	£15.62	£21.90
HPC511-024-110	24 x 5	50	36	£15.62	£21.90
HPC511-026-100	26 x 5	55	52	£21.94	£20.01
HPC511-026-110	26 x 5	55	39	£21.94	£20.01
HPC511-028-100	28 x 5	60	56	£20.84	£29.20
HPC511-028-110	28 x 5	60	42	£20.84	£29.20

Linear Motion Imperial Threaded Flanged Nuts

2.10



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

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For left hand threaded nuts use HPC516 instead of HPC511

PART NUMBER	Tr d x p	da	L	PRICE EACH 1-5	
				RIGHT HAND	LEFT HAND
				HPC511	HPC516
HPC511-030-100	30 x 6	60	60	£22.34	£26.76
HPC511-030-110	30 x 6	60	45	£22.34	£26.76
HPC511-032-100	32 x 6	60	64	£23.80	£28.50
HPC511-032-110	32 x 6	60	48	£23.80	£28.50
HPC511-036-100	36 x 6	75	72	£41.99	£50.27
HPC511-036-110	36 x 6	75	54	£41.99	£50.27
HPC511-040-100	40 x 7	80	80	£51.35	£61.43
HPC511-040-110	40 x 7	80	60	£51.35	£61.43
HPC511-044-100	44 x 7	80	88	£61.99	£69.13
HPC511-044-110	44 x 7	80	66	£61.99	£69.13
HPC511-048-100	48 x 8	90	96	£81.40	£89.52
HPC511-048-110	48 x 8	90	72	£81.40	£89.52
HPC511-050-100	50 x 8	90	100	£103.93	£90.27
HPC511-050-110	50 x 8	90	75	£116.00	£89.52
HPC511-060-100	60 x 9	100	120	£147.72	£116.13
HPC511-060-110	60 x 9	100	90	£147.72	£116.27
HPC511-070-100	70 x 10	110	140	£176.70	£130.01
HPC511-070-110	70 x 10	110	105	£176.70	£130.01

'Never Knowingly Outpriced'

Linear Motion Imperial Threaded Flanged Nuts



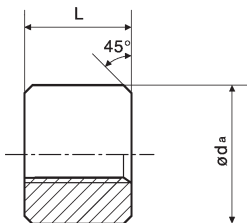
Linear Motion

Material

Threaded Nuts

Precision Range (Nylon)

Nylon PA6.6 - Round
DIN 103 Quality 7H



DISCOUNTS

1 - 5	List Price
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%

For left hand threaded nuts use HPC516 instead of HPC511

PART NUMBER	Tr $\frac{d \times p}{}$	da	L	PRICE EACH 1-5	
				RIGHT HAND	LEFT HAND
				HPC511	HPC516
HPC511-012-800	12 x 3	26	24	£14.75	£20.67
HPC511-014-800	14 x 3	30	28	£25.82	£28.40
HPC511-016-800	16 x 4	36	32	£19.29	£26.94
HPC511-018-800	18 x 4	40	36	£63.48	£69.82
HPC511-020-800	20 x 4	45	40	£26.55	£37.36
HPC511-022-800	22 x 5	45	44	£74.54	£82.11
HPC511-024-800	24 x 5	50	48	£35.04	£47.54
HPC511-026-800	26 x 5	55	52	£82.82	£91.10
HPC511-028-800	28 x 5	60	56	£96.41	£96.41
HPC511-030-800	30 x 6	60	60	£50.65	£68.41
HPC511-032-800	32 x 6	60	64	£119.78	£146.63
HPC511-036-800	36 x 6	75	72	£59.20	£79.44
HPC511-040-800	40 x 7	80	80	£91.48	£122.60
HPC511-050-800	50 x 8	90	100	£189.90	£250.67
HPC511-060-800	60 x 9	100	120	£246.38	£289.08

Material

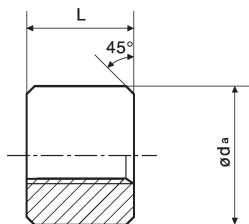
Cast Iron - Round
DIN 103 Quality 8 H

Linear Motion

Threaded Nuts Precision Range (Cast Iron)

DISCOUNTS

1 - 5	List Price
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%



For left hand threaded nuts use HPC516 instead of HPC511

PART NUMBER	Tr d x p	da	L	PRICE EACH 1-5	
				RIGHT HAND	LEFT HAND
				HPC511	HPC516
HPC511-012-500	12 x 3	26	24	£21.63	£27.03
HPC511-014-500	14 x 3	30	28	£16.05	£24.15
HPC511-016-500	16 x 4	36	32	£25.28	£27.80
HPC511-018-500	18 x 4	40	36	£25.17	£27.68
HPC511-020-500	20 x 4	45	40	£25.17	£27.68
HPC511-022-500	22 x 5	45	44	£25.42	£27.95
HPC511-024-500	24 x 5	50	48	£27.45	£30.21
HPC511-026-500	26 x 5	55	52	£27.89	£30.68
HPC511-028-500	28 x 5	60	56	£29.46	£32.42
HPC511-030-500	30 x 6	60	60	£33.08	£36.38
HPC511-032-500	32 x 6	60	64	£61.82	£36.85
HPC511-036-500	36 x 6	75	72	£39.49	£43.44
HPC511-040-500	40 x 7	80	80	£80.46	£88.53
HPC511-044-500	44 x 7	80	88	£96.94	£107.03
HPC511-048-500	48 x 7	90	96	£118.92	£130.81
HPC511-050-500	50 x 8	90	100	£118.92	£130.81
HPC511-060-500	60 x 9	100	120	£231.97	£159.40
HPC511-070-500	70 x 9	110	140	£274.30	£176.26



Linear Motion

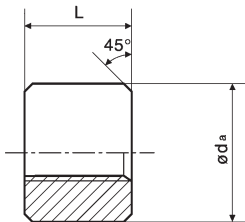
Material

Threaded Nuts

Precision Range (Bronze)

Bronze - SAE 660 - Round

DIN 103 Quality 8 H



DISCOUNTS

1 - 5	List Price
6-19	-20%
20-39	-28%
40-59	-35%
60-99	-45%
1000+	-50%

For left hand threaded nuts use HPC516 instead of HPC511

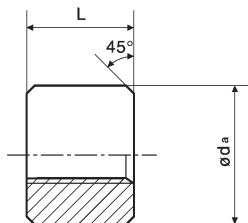
PART NUMBER	Tr d x p	da	L	PRICE EACH 1-5	
				RIGHT HAND	LEFT HAND
				HPC511	HPC516
HPC511-010-600	10 x 3	22	20	£20.14	£28.17
HPC511-012-600	12 x 3	26	24	£16.70	£23.39
HPC511-014-600	14 x 3	30	28	£29.18	£39.38
HPC511-016-600	16 x 4	36	32	£29.71	£41.64
HPC511-018-600	18 x 4	40	36	£39.53	£55.41
HPC511-020-600	20 x 4	45	40	£51.89	£72.66
HPC511-022-600	22 x 5	45	44	£57.90	£81.07
HPC511-024-600	24 x 5	50	48	£72.03	£76.94
HPC511-026-600	26 x 5	55	52	£80.37	£107.49
HPC511-028-600	28 x 5	60	56	£88.58	£132.25
HPC511-030-600	30 x 6	60	60	£101.05	£141.49
HPC511-032-600	32 x 6	60	64	£124.90	£174.90
HPC511-036-600	36 x 6	75	72	£136.91	£191.66
HPC511-040-600	40 x 7	80	80	£158.81	£189.98
HPC511-044-600	44 x 7	80	88	£175.69	£196.37
HPC511-048-600	48 x 7	90	96	£188.46	£262.60
HPC511-050-600	50 x 8	90	100	£197.39	£279.72
HPC511-060-600	60 x 9	100	120	£296.50	£429.46
HPC511-070-600	70 x 10	110	140	£310.62	£467.74

Linear Motion Imperial Threaded Flanged Nuts



MaterialBronze - SAE 660 DIN 103- Round
Quality 8 H**Linear Motion****Threaded Nuts 2-START**
Precision Range**DISCOUNTS**

	List Price
1 - 5	-20%
6-19	-28%
20-39	-35%
40-59	-45%
60-99	-50%
1000+	

**Right Hand**

PART NUMBER	da	L	Tr d x p	PRICE EACH 1-5
HPC512-012-600	26	24	12 x 6 P3	£38.31
HPC512-016-600	36	32	16 x 8 P4	£42.43
HPC512-018-600	40	36	18 x 8 P4	£45.20
HPC512-020-600	45	40	20 x 8 P4	£51.99
HPC512-022-600	45	44	22 x 10 P5	£109.80
HPC512-024-600	50	48	24 x 10 P5	£56.16
HPC512-030-600	60	60	30 x 12 P6	£131.59
HPC512-036-600	75	72	36 x 12 P6	£153.78
HPC512-040-600	80	80	40 x 14 P7	£176.66

'Never Knowingly Outpriced'

Linear Motion Imperial Threaded Flanged Nuts



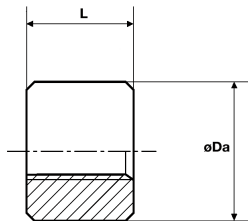
Linear Motion

Imperial Threaded Round Nuts

Precision Range BS1104 (1957)

Material

Cast Iron
Grade 250



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100-199	-25%
200+	-30%

For left hand leadscrews use LH instead of RH

PART NUMBER	Thread Diameter	Threads Per Inch	Diameter (mm) ϕDa	Length (mm) L^*	PRICE EACH 1-5	
					RIGHT HAND	LEFT HAND
					RH	LH
HPCB05010CI/RH	1/2"	10 tpi	38	25	£38.95	£44.52
HPCB06258CI/RH	5/8"	8 tpi	47	29	£40.89	£46.74
HPCB07508CI/RH	3/4"	8 tpi	55	32	£44.79	£51.19
HPCB10005CI/RH	1"	5 tpi	70	45	£53.79	£60.10
HPCB12504CI/RH	1 1/4"	4 tpi	85	60	£56.47	£64.55
HPCB15004CI/RH	1 1/2"	4 tpi	115	60	£83.75	£95.71
HPCB20003CI/RH	2"	3 tpi	150	90	£134.38	£153.59
HPCB25002CI/RH	2 1/2"	2 tpi	150	115	£169.45	£193.66

* For longer lengths, seamless joined screws or special materials contact our Technical Staff.

We specialise in manufacturing from drawings and damaged samples.

Linear Motion Imperial Threaded Round Nuts

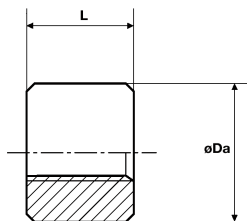
Material

Bronze
SAE660

Linear Motion Imperial Threaded Round Nuts Precision Range BS1104 (1957)

DISCOUNTS

	List Price
1 - 5	
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100-199	-25%
200+	-30%



For left hand leadscrews use LH instead of RH

PART NUMBER	Thread Diameter	Threads Per Inch	Diameter (mm) $\varnothing Da$	Length (mm) L^*	PRICE EACH 1-5	
					RIGHT HAND	LEFT HAND
					RH	LH
HPCB05010PB/RH	1/2"	10 tpi	38	25	£40.89	£46.74
HPCB06258PB/RH	5/8"	8 tpi	47	29	£42.84	£48.97
HPCB07508PB/RH	3/4"	8 tpi	55	32	£50.63	£57.87
HPCB10005PB/RH	1"	5 tpi	70	45	£74.00	£84.58
HPCB12504PB/RH	1 1/4"	4 tpi	85	60	£112.96	£129.10
HPCB15004PB/RH	1 1/2"	4 tpi	115	60	£173.34	£198.11
HPCB20003PB/RH	2"	3 tpi	150	90	£354.87	£405.13
HPCB25002PB/RH	2 1/2"	2 tpi	150	115	£490.83	£560.95

** For longer lengths, seamless joined screws or special materials contact our Technical Staff.*

We specialise in manufacturing from drawings and damaged samples.

Linear Motion Imperial Threaded Round Nuts



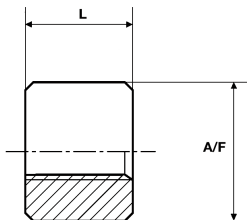
Linear Motion

Imperial Threaded Square Nuts

Precision Range BS1104 (1957)

Material

Cast Iron
Grade 250



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100-199	-25%
200+	-30%

For left hand leadscrews use LH instead of RH

PART NUMBER	Thread Diameter	Threads Per Inch	Square (mm) A/F	Length (mm) L*	PRICE EACH 1-5	
					RIGHT HAND	LEFT HAND
					RH	LH
HPCC05010CI/RH	1/2"	10 tpi	38	25	£44.79	£51.19
HPCC06258CI/RH	5/8"	8 tpi	47	29	£48.68	£55.65
HPCC07508CI/RH	3/4"	8 tpi	55	32	£52.58	£60.10
HPCC10005CI/RH	1"	5 tpi	70	45	£75.95	£86.81
HPCC12504CI/RH	1 1/4"	4 tpi	85	60	£103.22	£117.97
HPCC15004CI/RH	1 1/2"	4 tpi	100	60	£116.86	£133.56
HPCC20003CI/RH	2"	3 tpi	100	90	£216.19	£247.08
HPCC25002CI/RH	2 1/2"	2 tpi	110	115	£309.68	£353.93

* For longer lengths, seamless joined screws or special materials contact our Technical Staff.

We specialise in manufacturing from drawings and damaged samples.

Linear Motion Imperial Threaded Square Nuts



Material

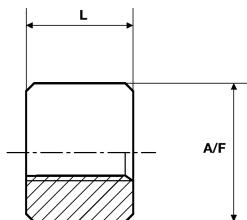
Bronze
SAE660

Linear Motion

Imperial Threaded Square Nuts Precision Range BS1104 (1957)

DISCOUNTS

1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100-199	-25%
200+	-30%



For left hand leadscrews use LH instead of RH

PART NUMBER	Thread Diameter	Threads Per Inch	Square (mm) A/F	Length (mm) L*	PRICE EACH 1-5	
					RIGHT HAND	LEFT HAND
					RH	LH
HPCC05010PB/RH	1/2"	10 tpi	38	25	£79.84	£91.26
HPCC06258PB/RH	5/8"	8 tpi	47	29	£87.64	£100.17
HPCC07508PB/RH	3/4"	8 tpi	55	32	£103.22	£117.97
HPCC10005PB/RH	1"	5 tpi	70	45	£144.12	£164.72
HPCC12504PB/RH	1 1/4"	4 tpi	85	60	£225.93	£258.21
HPCC15004PB/RH	1 1/2"	4 tpi	100	60	£276.57	£316.09
HPCC20003PB/RH	2"	3 tpi	100	90	£442.13	£505.30
HPCC25002PB/RH	2 1/2"	2 tpi	110	115	£654.44	£747.93

* For longer lengths, seamless joined screws or special materials contact our Technical Staff.

We specialise in manufacturing from drawings and damaged samples.

Linear Motion Imperial Threaded Square Nuts



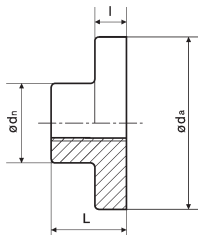
Flanged Trapezoidal Nuts

Cast Iron GG25 DIN 103

Precision Range

Round, Flanged without holes, Quality 8 H

Linear Motion Metric Threaded Flanged Nuts



DISCOUNTS

Quantity	List Price
1 - 5	
6-19	-10%
20-39	-20%
40-59	-30%
60-99	-35%
100-499	-40%
500-999	-50%
1000+	-60%

For left hand flanged trapezoidal nuts use HPC516 instead of HPC511

PART NUMBER	Tr d x p	L	l	da	dn	PRICE EACH 1-5	
						RIGHT HAND	LEFT HAND
						HPC511	HPC516
HPC511-012-570	12 x 3	20	7	42	24	£45.12	£40.19
HPC511-014-570	14 x 3	24	10	52	30	£37.78	£41.55
HPC511-016-570	16 x 4	24	10	52	30	£37.78	£41.55
HPC511-018-570	18 x 4	26	11	62	38	£38.65	£47.33
HPC511-020-570	20 x 4	26	11	62	38	£38.65	£42.53
HPC511-022-570	22 x 5	33	13	77	50	£40.97	£45.08
HPC511-024-570	24 x 5	33	13	77	50	£40.97	£45.08
HPC511-026-570	26 x 5	33	13	77	50	£40.97	£45.08
HPC511-028-570	28 x 5	48	15	90	58	£47.23	£51.96
HPC511-030-570	30 x 6	48	15	90	58	£62.83	£69.21
HPC511-032-570	32 x 6	60	20	115	80	£76.44	£84.10
HPC511-036-570	36 x 6	60	20	115	80	£76.44	£84.10
HPC511-040-570	40 x 7	65	20	140	80	£146.56	£161.24
HPC511-044-570	44 x 7	65	20	140	80	£146.56	£161.24
HPC511-048-570	48 x 8	70	20	170	90	£174.60	£192.06
HPC511-050-570	50 x 8	70	20	170	90	£174.60	£192.00

Material

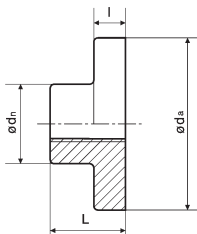
Linear Motion

Bronze SAE660 DIN 103

Flanged Trapezoidal Nuts
Round, Flanged without holes, Quality 8 H

Precision Range

DISCOUNTS	
1 - 5	List Price
6-19	-10%
20-39	-20%
40-59	-30%
60-99	-35%
100-499	-40%
500-999	-50%
1000+	-60%



For left hand flanged trapezoidal nuts use HPC516 instead of HPC511

PART NUMBER	Tr d x p	L	I	da	dn	PRICE EACH 1-5	
						RIGHT HAND	LEFT HAND
						HPC511	HPC516
HPC511-012-670	12 x 3	20	7	42	24	£45.76	£50.32
HPC511-014-670	14 x 3	24	10	52	30	£53.00	£58.29
HPC511-016-670	16 x 4	24	10	52	30	£53.00	£54.83
HPC511-018-670	18 x 4	26	11	62	38	£57.10	£62.84
HPC511-020-670	20 x 4	26	11	62	38	£59.04	£62.84
HPC511-022-670	22 x 5	33	13	77	50	£78.30	£103.35
HPC511-024-670	24 x 5	33	13	77	50	£87.06	£111.96
HPC511-026-670	26 x 5	33	13	77	50	£101.79	£121.98
HPC511-028-670	28 x 5	48	15	90	58	£119.71	£131.68
HPC511-030-670	30 x 6	48	15	90	58	£138.43	£154.61
HPC511-032-670	32 x 6	60	20	115	80	£210.99	£232.08
HPC511-036-670	36 x 6	60	20	115	80	£210.99	£232.08
HPC511-040-670	40 x 7	65	20	140	80	£325.86	£358.44
HPC511-044-670	44 x 7	65	20	140	80	£366.20	£402.81
HPC511-048-670	48 x 8	70	20	170	90	£512.63	£563.89
HPC511-050-670	50 x 8	70	20	170	90	£512.63	£563.89

Linear Motion Metric Threaded Flanged Nuts

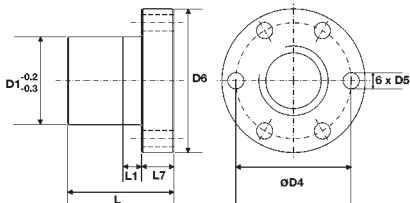


Flanged Trapezoidal Nuts

Precision Range

Bronze SAE660 DIN 103

Round, Flanged with holes, Quality 8 H



For left hand flanged trapezoidal nuts use HPC516 instead of HPC511

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

With Holes

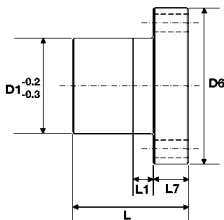
PART NUMBER	Tr $\frac{Tr}{d \times p}$	D1	D4	D5	D6	L	L1	L7	PRICE EACH 1-5	
									RIGHT HAND	LEFT HAND
									HPC511	HPC516
HPC511-012-671	12 x 3	28	38	6	48	35	8	12	£56.36	£78.92
HPC511-014-671	14 x 3	28	38	6	48	35	8	12	£56.74	£79.50
HPC511-016-671	16 x 4	28	38	6	48	44	8	12	£56.89	£87.27
HPC511-018-671	18 x 4	28	38	6	48	44	8	12	£57.66	£80.74
HPC511-020-671	20 x 4	32	45	7	55	44	8	12	£84.61	£118.51
HPC511-022-671	22 x 5	32	45	7	55	44	8	12	£86.22	£121.31
HPC511-024-671	24 x 5	32	45	7	55	44	8	12	£91.87	£165.68
HPC511-028-671	28 x 5	38	50	7	62	46	8	14	£105.97	£165.88
HPC511-030-671	30 x 6	38	50	7	62	46	8	14	£120.66	£168.95
HPC511-032-671	32 x 6	45	58	7	70	54	10	16	£134.75	£188.67
HPC511-036-671	36 x 6	45	58	7	70	59	10	16	£137.95	£193.17
HPC511-040-671	40 x 7	63	78	9	95	73	10	16	£196.08	£274.53
HPC511-050-671	50 x 8	72	90	11	110	97	10	18	£315.85	£354.92
HPC511-060-671	60 x 9	85	105	11	125	99	10	20	£380.12	£458.95

Material**Linear Motion**

Bronze SAE660 DIN 103

Flanged Trapezoidal Nuts

Round, Flanged without holes, Quality 8 H

Precision Range

For left hand flanged trapezoidal nuts use HPC516 instead of HPC511

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

Without Holes

PART NUMBER	Tr d x p	D1	D4	D5	D6	L	L1	L7	PRICE EACH 1-5	
									RIGHT HAND	LEFT HAND
									HPC511	HPC516
HPC511-012-672	12 x 3	28	-	-	48	35	8	12	£48.16	£67.44
HPC511-014-672	14 x 3	28	-	-	48	35	8	12	£47.91	£66.17
HPC511-016-672	16 x 4	28	-	-	48	44	8	12	£48.62	£68.08
HPC511-018-672	18 x 4	28	-	-	48	44	8	12	£78.99	£68.99
HPC511-020-672	20 x 4	32	-	-	55	44	8	12	£72.30	£101.25
HPC511-022-672	22 x 5	32	-	-	55	44	8	12	£73.66	£103.12
HPC511-024-672	24 x 5	32	-	-	55	44	8	12	£78.50	£141.54
HPC511-030-672	30 x 6	38	-	-	62	46	8	14	£103.10	£144.35
HPC511-032-672	32 x 6	45	-	-	70	54	10	16	£115.13	£161.19
HPC511-036-672	36 x 6	45	-	-	70	59	10	16	£117.86	£165.03
HPC511-040-672	40 x 7	63	-	-	95	73	10	16	£167.52	£234.54
HPC511-050-672	50 x 8	72	-	-	110	97	10	18	£269.82	£353.01
HPC511-060-672	60 x 9	85	-	-	125	99	10	20	£324.73	£467.74

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

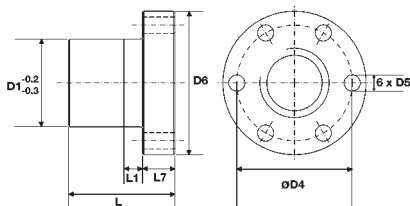
**2.23**
Linear Motion Metric Threaded Flanged Nuts

Linear Motion

Material

Flanged Nuts 2 starts
Precision Range

Bronze SAE660 DIN 103
Round Flanged with Holes, Quality 8 H



Linear Motion Metric Threaded Flanged Nuts

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

Right Hand

With Holes

PART NUMBER	Tr d x p	D1	D4	D5	D6	L	L1	L7	PRICE EACH 1-5
HPC512-012-671	12 x 6 P3	28	38	6	48	35	8	12	£55.23
HPC512-016-671	16 x 8 P4	28	38	6	48	44	8	12	£55.23
HPC512-018-671	18 x 8 P4	28	38	6	48	44	8	12	£56.12
HPC512-020-671	20 x 8 P4	32	45	7	55	44	8	12	£82.17
HPC512-024-671	24 x 10 P5	32	45	7	55	44	8	12	£109.08
HPC512-030-671	30 x 12 P6	38	50	7	62	46	8	14	£123.47
HPC512-036-671	36 x 12 P6	45	58	7	70	59	10	16	£186.06
HPC512-040-671	40 x 14 P7	63	78	9	95	73	10	16	£265.06

'Never Knowingly Outpriced'



HPC Gears Linear Motion



SPECIAL *Splined Shafts & Sleeves, Leadscrews & Nuts:
Please send your drawing or samples for us to quote.*

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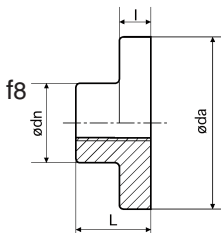
Linear Motion

Imperial Threaded Flanged Nuts

Precision Range BS1104 (1957)

Material

Cast Iron
Grade 250



DISCOUNTS

1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100-199	-25%
200+	-30%

For left hand leadscrews use LH instead of RH

PART NUMBER	Thread Dia.	Threads Per Inch	Width (mm) l	Dia. (mm) f8 Ødn	Dia. (mm) Øda	Length (mm) L*	PRICE EACH 1-5	
							RIGHT HAND	LEFT HAND
							RH	LH
HPCA05010CI/RH	1/2"	10 tpi	5	20	35	25	£40.89	£46.74
HPCA06258CI/RH	5/8"	8 tpi	6	25	44	29	£44.79	£51.19
HPCA07508CI/RH	3/4"	8 tpi	7	30	52	32	£46.74	£53.42
HPCA10005CI/RH	1"	5 tpi	8	38	65	45	£56.47	£64.55
HPCA12504CI/RH	1 1/4"	4 tpi	10	45	80	60	£66.21	£75.68
HPCA15004CI/RH	1 1/2"	4 tpi	12	55	110	60	£87.64	£100.17
HPCA20003CI/RH	2"	3 tpi	15	70	140	90	£148.02	£169.17
HPCA25002CI/RH	2 1/2"	2 tpi	20	90	170	115	£204.50	£233.73

* For longer lengths, seamless joined screws or special materials contact our Technical Staff.

We specialise in manufacturing from drawings and damaged samples.

Material

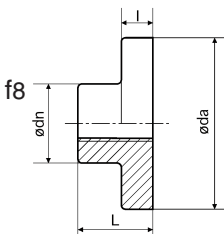
Bronze
SAE660

Linear Motion

Imperial Threaded Flanged Nuts Precision Range BS1104 (1957)

DISCOUNTS

1 - 5	List Price
6-19	-5%
20-39	-10%
40-59	-15%
60-99	-20%
100-199	-25%
200+	-30%



For left hand leadscrews use LH instead of RH

PART NUMBER	Thread Dia.	Threads Per Inch	Width (mm) l	Dia. (mm) f8 ødn	Dia. (mm) øda	Length (mm) L*	PRICE EACH 1-5	
							RIGHT HAND	LEFT HAND
							RH	LH
HPCA05010PB/RH	1/2"	10 tpi	5	20	35	25	£41.62	£48.97
HPCA06258PB/RH	5/8"	8 tpi	6	25	44	29	£52.58	£60.10
HPCA07508PB/RH	3/4"	8 tpi	7	30	52	32	£56.47	£64.55
HPCA10005PB/RH	1"	5 tpi	8	38	65	45	£79.84	£91.26
HPCA12504PB/RH	1 1/4"	4 tpi	10	45	80	60	£118.80	£135.78
HPCA15004PB/RH	1 1/2"	4 tpi	12	55	110	60	£180.30	£207.01
HPCA20003PB/RH	2"	3 tpi	15	70	140	90	£323.32	£369.51
HPCA25002PB/RH	2 1/2"	2 tpi	20	90	170	115	£562.89	£643.31

* For longer lengths, seamless joined screws or special materials contact our Technical Staff.

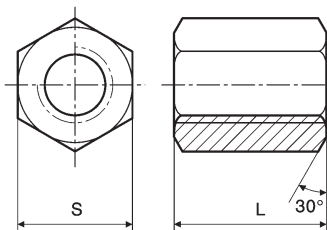
We specialise in manufacturing from drawings and damaged samples.

Linear Motion
Imperial Threaded Flange Nuts



Threaded Nuts Precision Range

Steel DIN 103 - Hexagonal
Quality 8 H



For left hand threaded nuts use HPC516 instead of HPC511

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	Tr d x p	L	S	PRICE EACH 1-5	
				RIGHT HAND	LEFT HAND
				HPC511	HPC516
HPC511-012-150	12 x 3	18	18	£4.02	£5.91
HPC511-014-150	14 x 3	21	22	£4.76	£6.68
HPC511-016-150	16 x 4	24	27	£5.44	£7.62
HPC511-018-150	18 x 4	27	27	£6.40	£8.99
HPC511-020-150	20 x 4	30	30	£7.04	£9.87
HPC511-022-150	22 x 5	33	32	£7.88	£11.56
HPC511-024-150	24 x 5	36	36	£9.33	£13.67
HPC511-026-150	26 x 5	42	41	£23.31	£25.63
HPC511-028-150	28 x 5	42	41	£14.40	£21.12
HPC511-030-150	30 x 6	45	46	£17.57	£25.77
HPC511-032-150	32 x 6	48	46	£21.03	£30.83
HPC511-036-150	36 x 6	54	55	£24.56	£35.99
HPC511-040-150	40 x 7	60	65	£36.96	£54.17
HPC511-044-150	44 x 7	66	65	£62.02	£80.56
HPC511-048-150	48 x 8	72	75	£85.07	£93.56
HPC511-050-150	50 x 8	75	75	£131.90	£158.28
HPC511-060-150	60 x 9	90	90	£214.78	£273.98
HPC511-070-150	70 x 10	105	90	£260.50	£324.88

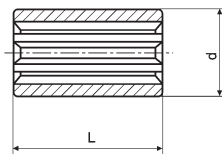
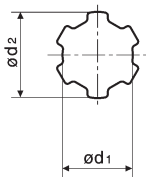
Linear Motion Imperial Threaded Flanged Nuts

Material

Steel 1.0727 (45 S 20 K)
Round Steel

Linear Motion

Splined Sleeves Precision Range



a^* : Number of Keys

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price		-10%	-20%	-30%	-35%	-40%	-50%

PART NUMBER	$a^* \times d_1$	$x \ d_2$	L	d	PRICE EACH 1-5
HPC294-011-004	6 x 11	x14	40	30	£29.69
HPC294-013-004	6 x 13	x16	40	35	£31.05
HPC294-016-004	6 x 16	x20	40	40	£32.88
HPC294-018-004	6 x 18	x22	40	42	£34.91
HPC294-021-004	6 x 21	x25	40	45	£36.05
HPC294-021-006	6 x 21	x25	60	38	£47.61
HPC294-023-006	6 x 23	x28	60	50	£46.04
HPC294-026-006	6 x 26	x32	60	60	£53.45
HPC294-028-006	6 x 28	x34	60	70	£62.14
HPC294-029-006	6 x 29.7	x34.93	60	75	£84.59
HPC294-029-008	6 x 29.7	x34.93	80	50.8	£109.31
HPC294-032-006	8 x 32	x38	60	75	£67.58
HPC294-036-006	8 x 36	x42	60	80	£85.50
HPC294-042-006	8 x 42	x48	60	90	£89.58
HPC294-046-006	8 x 46	x54	60	90	£107.28

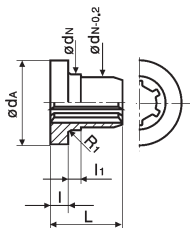
'Never Knowingly Outpriced'



Splined Sleeves Precision Range

Phosphor Bronze
Flanged Phosphor Bronze without holes

Linear Motion Splined Sleeves



a^* : Number of Keys

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	$a^* \times d1$	$x \ d2$	$\odot dA$	(h7) $\odot dN$	L	l	l1	PRICE EACH 1-5
HPC294-611-603	6 x 11	x14	43	24	35	10	6	£129.40
HPC294-613-603	6 x 13	x16	43	24	35	10	8	£146.89
HPC294-616-604	6 x 16	x20	48	28	45	12	8	£163.17
HPC294-618-604	6 x 18	x22	55	32	45	12	10	£171.44
HPC294-621-604	6 x 21	x25	55	32	45	12	10	£174.80
HPC294-623-605	6 x 23	x28	62	38	50	14	10	£174.80
HPC294-626-605	6 x 26	x32	62	38	50	14	10	£200.03
HPC294-628-606	6 x 28	x34	75	48	60	15	11	£242.01
HPC294-629-606	6 x 29.7	x34.93	75	48	60	15	11	£305.93
HPC294-632-606	8 x 32	x38	75	48	60	15	11	£275.68
HPC294-636-608	8 x 36	x42	95	63	80	16	12	£310.97
HPC294-642-608	8 x 42	x48	95	63	80	16	12	£326.09
HPC294-646-610	8 x 46	x54	110	72	80	18	12	£440.40

'Never Knowingly Outpriced'

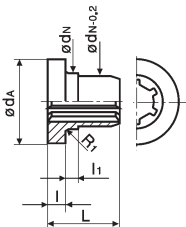
Material

Steel EN8 (C45)
Flanged Steel without holes

Linear Motion

Splined Sleeves Precision Range

a* : Number of Keys



Linear Motion Splined Sleeves

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
List Price		-10%	-20%	-30%	-35%	-40%	-50%	-60%

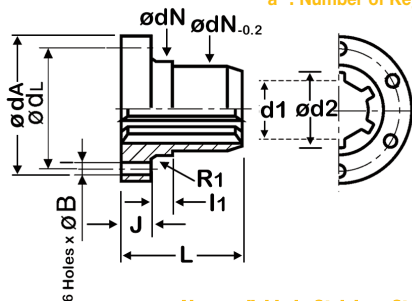
PART NUMBER	a* x d1	x d2	ϕdA	(h7) ϕdN	L	l	PRICE EACH 1-5
HPC294-011-603	6 x 11	x14	41	22	30	8	£121.12
HPC294-013-603	6 x 13	x16	43	24	30	8	£140.63
HPC294-016-604	6 x 16	x20	52	28	40	9	£161.95
HPC294-018-605	6 x 18	x22	60	32	50	9	£177.38
HPC294-021-605	6 x 21	x25	62	34	50	10	£190.99
HPC294-023-606	6 x 23	x28	68	40	60	10	£218.68
HPC294-026-606	6 x 26	x32	70	42	60	10	£245.00
HPC294-028-607	6 x 28	x34	78	48	70	12	£274.50
HPC294-029-607	6 x 29.7	x34.93	80	50	70	12	£342.57
HPC294-032-607	8 x 32	x38	80	50	70	12	£308.53
HPC294-036-608	8 x 36	x42	93	58	80	14	£344.82
HPC294-042-609	8 x 42	x48	95	60	80	16	£374.33
HPC294-046-610	8 x 46	x54	99	65	80	16	£401.54



Splined Sleeves Precision Range

Phosphor Bronze
Flanged Phosphor Bronze with holes

a^* : Number of Keys



Also available in Stainless Steel

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price		-10%	-20%	-30%	-35%	-40%	-50%

PART NUMBER	$a^* \times d1$	$\times d2$	$\odot dA$	(h7) $\odot dN$	L	J	I1	$\odot dL$	$6 \times \odot B$	PRICE EACH 1-5
HPC294-611-703	6 x 11	x14	43	24	35	10	6	32	4.3	£143.68
HPC294-613-703	6 x 13	x16	43	24	35	10	8	32	4.3	£163.17
HPC294-616-704	6 x 16	x20	48	28	45	12	8	38	5.3	£181.50
HPC294-618-704	6 x 18	x22	55	32	45	12	10	45	6.4	£189.92
HPC294-621-704	6 x 21	x25	55	32	45	12	10	45	6.4	£194.96
HPC294-623-705	6 x 23	x28	62	38	50	14	10	50	6.4	£200.03
HPC294-626-705	6 x 26	x32	62	38	50	14	10	50	6.4	£220.17
HPC294-628-706	6 x 28	x34	75	48	60	15	11	62	8.4	£267.27
HPC294-629-706	6 x 29.7	x34.93	75	48	60	15	11	62	8.4	£339.55
HPC294-632-706	8 x 32	x38	75	48	60	15	11	62	8.4	£304.21
HPC294-636-708	8 x 36	x42	95	63	80	16	12	78	8.4	£346.27
HPC294-642-708	8 x 42	x48	95	63	80	16	12	78	8.4	£363.08
HPC294-646-710	8 x 46	x54	110	72	80	18	12	90	10.5	£485.79

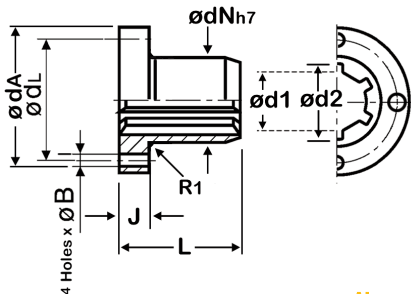
Material

Steel EN8 (C45)
Flanged Steel with holes

Linear Motion

Splined Sleeves Precision Range

a* : Number of Keys



Also available in Stainless Steel

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	a* x d1	x d2	odA	(h7) odN	L	J	odL	4xodB	PRICE EACH 1-5
HPC294-011-703	6 x 11	x14	41	22	30	8	30	4.3	£134.51
HPC294-013-703	6 x 13	x16	43	24	30	8	32	4.3	£156.28
HPC294-016-704	6 x 16	x20	52	28	40	9	38	5.3	£179.66
HPC294-018-705	6 x 18	x22	60	32	50	9	46	5.3	£196.89
HPC294-021-705	6 x 21	x25	62	34	50	10	48	6.4	£212.33
HPC294-023-706	6 x 23	x28	68	40	60	10	54	6.4	£245.00
HPC294-026-706	6 x 26	x32	70	42	60	10	56	6.4	£267.69
HPC294-028-707	6 x 28	x34	78	48	70	12	63	8.4	£306.27
HPC294-029-707	6 x 29.7	x34.93	80	50	70	12	65	8.4	£378.86
HPC294-032-707	8 x 32	x38	80	50	70	12	65	8.4	£344.82
HPC294-036-708	8 x 36	x42	93	58	80	14	73	8.4	£381.14
HPC294-042-709	8 x 42	x48	95	60	80	16	75	10.5	£415.16
HPC294-046-710	8 x 46	x54	99	65	80	16	80	10.5	£444.66

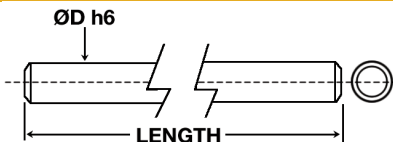


Linear Motion

Materials

Linear Shafting, Stainless Hardened & Ground X90 CrMoV18 1.4112

Linear Motion Linear Shafting



* Price per standard length

DISCOUNTS	1 - 5	6-9	10-19	20-49	50-99	100-199	200+
	List Price	-20%	-25%	-30%	-40%	-42%	-45%
PART NUMBER	Nom. Dia. ØD h6	Tolerance µm	Standard Length	Maximum Length	Weight per m Kg	Depth of Hardening	* PRICE EACH 1-5
HPCZ-3-300B	3	0/-8	300	1000	0.055	0.8 ± 0.5	£102.06
HPCZ-4-300B	4	0/-8	300	3000	0.098	0.8 ± 0.5	£87.83
HPCZ-5-1000B	5	0/-8	1000	3000	0.15	0.8 ± 0.5	£70.47
HPCZ-6-1000B	6	0/-8	1000	3000	0.22	0.8 ± 0.5	£57.80
HPCZ-8-1000B	8	0/-9	1000	3000	0.39	0.8 ± 0.5	£57.80
HPCZ-10-1000B	10	0/-9	1000	3000	0.61	1.0 ± 1.0	£71.74
HPCZ-12-1000B	12	0/-11	1000	6000	0.89	1.0 ± 1.0	£71.74
HPCZ-15-1000B	15	0/-11	1000	6000	1.38	1.0 ± 1.0	£101.66
HPCZ-16-1000B	16	0/-11	1000	6000	1.57	1.0 ± 1.0	£90.19
HPCZ-20-1000B	20	0/-13	1000	6000	2.46	1.5 ± 1.0	£123.58
HPCZ-25-1000B	25	0/-13	1000	6000	3.86	1.5 ± 1.0	£171.27
HPCZ-30-1000B	30	0/-13	1000	6000	5.54	2.0 ± 1.5	£231.48
HPCZ-40-1000B	40	0/-13	1000	6000	9.86	2.0 ± 1.5	£285.26
HPCZ-50-1000B	50	0/-13	1000	6000	15.41	2.0 ± 1.5	£444.53
HPCZ-60-1000B	60	0/-13	1000	6000	22.19	2.0 ± 1.5	£769.08

Extras

*h6 tolerance : For use with linear Bearings. Other tolerances available.
Special machining, other materials and imperial sizes available.*

2.34

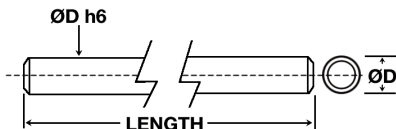


Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials
CF53/CK53 Steel

Linear Motion

Linear Shafting, Steel Hardened & Ground



* Price per
standard length

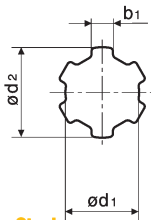
DISCOUNTS	1 - 5	6-9	10-19	20-49	50-99	100-199	200+
	List Price	-20%	-25%	-30%	-40%	-42%	-45%
PART NUMBER	Nom. Dia. ØD h6	Tolerance µm	Standard Length	Maximum Length	Weight per m Kg	Depth of Hardening	* PRICE EACH 1-5
HPCZ-4-1000A	4	0/-8	1000	3000	0.098	0.5 ± 0.5	£61.77
HPCZ-5-1000A	5	0/-8	1000	3000	0.15	0.5 ± 0.5	£46.65
HPCZ-6-1000A	6	0/-8	1000	3000	0.22	0.5 ± 0.5	£21.92
HPCZ-8-1000A	8	0/-9	1000	3000	0.39	0.5 ± 0.5	£21.92
HPCZ-10-1000A	10	0/-9	1000	3000	0.61	0.8 ± 0.5	£27.88
HPCZ-12-1000A	12	0/-11	1000	6000	0.89	0.8 ± 0.5	£27.88
HPCZ-14-1000A	14	0/-11	1000	6000	1.21	0.8 ± 0.5	£33.88
HPCZ-15-1000A	15	0/-11	1000	6000	1.38	0.8 ± 0.5	£48.11
HPCZ-16-1000A	16	0/-11	1000	6000	1.57	0.8 ± 0.5	£31.87
HPCZ-18-1000A	18	0/-11	1000	6000	1.99	0.8 ± 0.5	£35.86
HPCZ-20-1000A	20	0/-13	1000	6000	2.46	1.2 ± 0.8	£39.90
HPCZ-22-1000A	22	0/-13	1000	6000	2.98	1.2 ± 0.8	£89.69
HPCZ-25-1000A	25	0/-13	1000	6000	3.86	1.2 ± 0.8	£63.77
HPCZ-30-1000A	30	0/-13	1000	6000	5.54	1.5 ± 1.0	£63.77
HPCZ-40-1000A	40	0/-16	1000	6000	9.86	1.5 ± 1.0	£126.25
HPCZ-50-1000A	50	0/-16	1000	6000	15.41	1.5 ± 1.0	£161.75
HPCZ-60-1000A	60	0/-19	1000	6000	22.19	1.5 ± 1.0	£230.28
HPCZ-80-1000A	80	0/-19	1000	6000	39.45	3.2 ± 1.5	£271.41

Extras

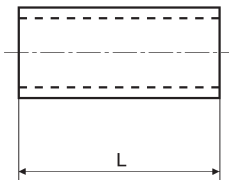
h6 tolerance : For use with linear Bearings. Other tolerances available.

Special machining, other materials and imperial sizes available.





a^* : Number of Keys

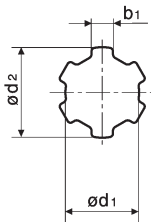


Also available in Stainless Steel

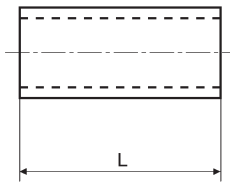
DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	$a^* \times d_1$	$x \ d_2$	b	Length mm	PRICE EACH 1-5
	0	-0.07	0		
	-0.08	-0.27	-0.08		
HPC294-111-025	6 x 11	x14	3	250	£24.46
HPC294-111-050	6 x 11	x14	3	500	£31.99
HPC294-111-100	6 x 11	x14	3	1000	£37.64
HPC294-111-200	6 x 11	x14	3	2000	£75.28
HPC294-111-300	6 x 11	x14	3	3000	£112.92
HPC294-113-025	6 x 13	x16	3.5	250	£28.30
HPC294-113-050	6 x 13	x16	3.5	500	£37.01
HPC294-113-100	6 x 13	x16	3.5	1000	£43.54
HPC294-113-200	6 x 13	x16	3.5	2000	£87.09
HPC294-113-300	6 x 13	x16	3.5	3000	£130.63
HPC294-116-025	6 x 16	x20	4	250	£44.82
HPC294-116-050	6 x 16	x20	4	500	£58.60
HPC294-116-100	6 x 16	x20	4	1000	£68.95
HPC294-116-200	6 x 16	x20	4	2000	£137.90
HPC294-116-300	6 x 16	x20	4	3000	£206.85
HPC294-118-025	6 x 18	x22	5	250	£53.08
HPC294-118-050	6 x 18	x22	5	500	£69.41
HPC294-118-100	6 x 18	x22	5	1000	£81.66
HPC294-118-200	6 x 18	x22	5	2000	£163.32
HPC294-118-300	6 x 18	x22	5	3000	£244.99

PART NUMBER	a ⁺ x d1 0 -0.08	x d2 -0.07 -0.27	b 0 -0.08	Length mm	PRICE EACH 1-5
HPC294-121-025	6 x 21	x25	5	250	£72.18
HPC294-121-050	6 x 21	x25	5	500	£90.30
HPC294-121-100	6 x 21	x25	5	1000	£99.79
HPC294-121-200	6 x 21	x25	5	2000	£199.58
HPC294-121-300	6 x 21	x25	5	3000	£299.38
HPC294-123-025	6 x 23	x28	6	250	£70.78
HPC294-123-050	6 x 23	x28	6	500	£92.76
HPC294-123-100	6 x 23	x28	6	1000	£108.88
HPC294-123-200	6 x 23	x28	6	2000	£217.77
HPC294-123-300	6 x 23	x28	6	3000	£326.66
HPC294-126-025	6 x 26	x32	6	250	£100.25
HPC294-126-050	6 x 26	x32	6	500	£131.10
HPC294-126-100	6 x 26	x32	6	1000	£154.24
HPC294-126-200	6 x 26	x32	6	2000	£308.49
HPC294-126-300	6 x 26	x32	6	3000	£462.73
HPC294-128-025	6 x 28	x34	7	250	£106.15
HPC294-128-050	6 x 28	x34	7	500	£138.81
HPC294-128-100	6 x 28	x34	7	1000	£163.31
HPC294-128-200	6 x 28	x34	7	2000	£326.63
HPC294-128-300	6 x 28	x34	7	3000	£489.94
HPC294-129-025	6 x 28.14	x34.94	8.64	250	£129.75
HPC294-129-050	6 x 28.14	x34.94	8.64	500	£169.68
HPC294-129-100	6 x 28.14	x34.94	8.64	1000	£199.63
HPC294-129-200	6 x 28.14	x34.94	8.64	2000	£399.27
HPC294-129-300	6 x 28.14	x34.94	8.64	3000	£598.90
HPC294-132-025	8 x 32	x38	6	250	£141.56
HPC294-132-050	8 x 32	x38	6	500	£185.12
HPC294-132-100	8 x 32	x38	6	1000	£217.79
HPC294-132-200	8 x 32	x38	6	2000	£435.58
HPC294-132-300	8 x 32	x38	6	3000	£653.37



a^* : Number of Keys



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	$a^* \times d_1$ 0 -0.08	$x d_2$ -0.07 -0.27	b 0 -0.08	Length mm	PRICE EACH 1-5
HPC294-136-025	8 x 36	x42	7	250	£174.00
HPC294-136-050	8 x 36	x42	7	500	£227.53
HPC294-136-100	8 x 36	x42	7	1000	£267.69
HPC294-136-200	8 x 36	x42	7	2000	£535.38
HPC294-136-300	8 x 36	x42	7	3000	£674.57
HPC294-142-025	8 x 42	x48	8	250	£235.36
HPC294-142-050	8 x 42	x48	8	500	£307.78
HPC294-142-100	8 x 42	x48	8	1000	£362.10
HPC294-142-200	8 x 42	x48	8	2000	£724.21
HPC294-142-300	8 x 42	x48	8	3000	£1086.31
HPC294-146-025	8 x 46	x54	9	250	£280.18
HPC294-146-050	8 x 46	x54	9	500	£366.38
HPC294-146-100	8 x 46	x54	9	1000	£431.04
HPC294-146-200	8 x 46	x54	9	2000	£862.08
HPC294-146-300	8 x 46	x54	9	3000	£1293.13

'Never Knowingly Outpriced'

Couplings

Pages 3.2 – 3.113



Couplings

Stainless Steel Bellows



Materials & Finishes

Hubs : *Al. Alloy 2014T6 and Clear anodised finish*

Bellows : *Spring quality stainless steel*

Joint assembly : *Copper C106, heat treated Zinc plate, clear passivate*

Fasteners : *Alloy steel, black oiled*

General description

Precision couplings with excellent kinematic properties. The 3 types offer differing combinations of stiffness, radial compensation and axial motion.

Where to use

High-end servo drives, pulse generators, scanners, positioning slides, metering valves, etc.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

500 Nm

Standard bores

3mm to 20mm

Temperature range

-40 °C to +120 °C

Electrically isolating

No, unless used with insulating bore adaptors.

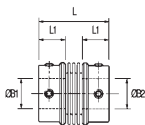
Connection

Clamp, Set Screw or Spigot

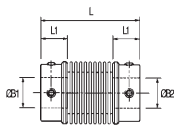
Couplings

Stainless Steel Bellows

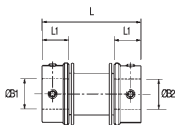
Set screw hubs



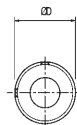
Ref. HPC530
Short type
for precisely
aligned shafts



Ref. HPC532
Long type
for greater angular
offsets or axial motion

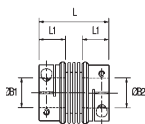


Ref. HPC534
Stretched type
for greater radial
misalignment and lower
bearing loads

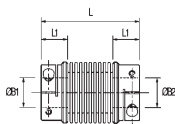


Typical

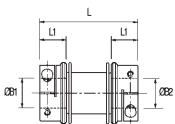
Clamp hubs



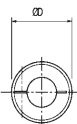
Ref. HPC536
HPC537
Short type
for precisely
aligned shafts



Ref. HPC538
HPC539
Long type
for greater angular
offsets or axial motion

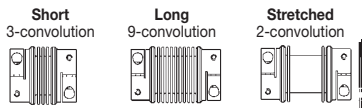


Ref. HPC540
HPC541
Stretched type
for greater radial
misalignment and lower
bearing loads



Typical

Comparative properties



Parameter	Short	Long	Stretched
Peak Torque	2	1	3
Torsional Stiffness	3	1	2
Angular Axial Compensation	2	3	1
Axial Compensation	2	3	1
Radial Compensation	1	3	2

The properties of the 3 types compared on a scale of 1 to 3. 3 = best.



Couplings

Stainless Steel Bellows

Performance

PART NUMBER		Coupling Size	① Peak torque Nm	② Max compensation		
Set Screw Hubs	Clamp Hubs			Angular deg	Radial mm	Axial +/- mm
HPC530	HPC537	20	2.0	2	0.06	0.35
HPC532	HPC539		1.0	6	0.50	1.00
HPC534	HPC541		2.5	1.3	0.20	0.20
HPC530	HPC536	26	3.2	2	0.06	0.36
HPC532	HPC538		1.6	6	0.50	1.00
HPC534	HPC540		4.0	1.3	0.20	0.20
HPC530	HPC536	34	7.5	2.5	0.10	0.60
HPC532	HPC538		3.8	8	1.00	1.90
HPC534	HPC540		9.4	1.5	0.30	0.30
HPC530	HPC536	41	10.0	2.5	0.15	0.80
HPC532	HPC538		15.0	8	1.20	2.50
HPC534	HPC540		12.5	1.8	0.40	0.50

- ① **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor
- ② Max. compensation values are mutually exclusive.
- ③ Torsional stiffness values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.

Standard Bores

Bore Size	ØB1, ØB2 + 0.03 / - 0 mm										
	3	3.175	4	4.763	5	6	6.350	8	9	9.525	10
20	●	●	●	●	●	●	●	●			
26			●	●	●	●	●	●	●	●	●
34						●	●	●	●	●	●
41							●	●	●	●	●
Bore ref.	14	16	18	19	20	22	24	28	30	31	32
Corresponding bore adaptor					251		253	255			257

Couplings

Stainless Steel Bellows

PART NUMBER		Coupling Size	Flexural stiffness			
Set Screw Hubs	Clamp Hubs		Torsional Nm/rad	Angular N/deg	Radial N/mm	Axial N/mm
HPC530	HPC537	20	315	1.03	115	17.7
HPC532	HPC539		170	0.33	6.7	7.8
HPC534	HPC541		225	0.33	8.2	7.1
HPC530	HPC536	26	755	1.27	238	5.7
HPC532	HPC538		380	0.39	8.2	3.3
HPC534	HPC540		615	1.52	14.6	6.4
HPC530	HPC536	34	1740	1.34	227	6.6
HPC532	HPC538		915	0.62	12.7	3.8
HPC534	HPC540		1455	1.98	23.2	27.9
HPC530	HPC536	41	2880	1.58	144	13.1
HPC532	HPC538		1310	0.52	9.3	3.8
HPC534	HPC540		2245	2.30	19.2	7.2

Coupling Size	Bore Size											
	ØB1, ØB2 + 0.03 / - 0 mm											
	11	12	12.700	14	15	15.875	16	18	19	19.050	20	
20												
26	●	●										
34	●	●	●	●	●	●	●					
41	●	●	●	●	●	●	●	●	●	●	●	
Bore ref.	33	35	36	38	40	41	42	45	46	47	48	
Corresponding bore adaptor			259				260					261



Couplings

Stainless Steel Bellows

Dimensions & Order Codes

Couplings Stainless Steel Bellows

PART NUMBER		Coupling Size	ØD	L ±1.0	④ L1	ØB1, ØB2 max
Set Screw Hubs	Clamp Hubs					
HPC530.20.----	-	20	20.0	31.0	11.0	8
HPC532.20.----	-			45.2		
HPC534.20.----	-			43.6		
-	HPC537.20.----			31.0		
-	HPC539.20.----			45.2		
-	HPC541.20.----			43.6		
HPC530.26.----	-	26	26.0	37.5	14.0	12
HPC532.26.----	-			54.3		
HPC534.26.----	-			53.2		
-	HPC536.26.----			37.5		
-	HPC538.26.----			54.3		
-	HPC540.26.----			53.2		
HPC530.34.----	-	34	34.0	40.0	14.0	16
HPC532.34.----	-			57.0		
HPC534.34.----	-			56.6		
-	HPC536.34.----			40.0		
-	HPC538.34.----			57.0		
-	HPC540.34.----			56.6		
HPC530.41.----	-	41	41.0	49.7	18.0	20
HPC532.41.----	-			71.4		
HPC534.41.----	-			70.7		
-	HPC536.41.----			49.7		
-	HPC538.41.----			71.4		
-	HPC540.41.----			70.7		

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.4 & 3.5).

Please identify both bores to complete the part number eg. HPC530.20.14 28

Part Number ØB1 ØB2

Couplings

Stainless Steel Bellows

DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Fasteners			Mi	M	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Screw	Torque Nm	Wrench mm			
HPC530.20.----	-	M4	2.27	2	90	18	£63.42
HPC532.20.----	-				100	19	£66.79
HPC534.20.----	-				90	18	£64.05
-	HPC537.20.----	4-40	2.33	2	90	16	£65.65
-	HPC539.20.----				100	18	£69.06
-	HPC541.20.----				90	17	£66.30
HPC530.26.----	-	M5	4.62	2.5	350	35	£70.38
HPC532.26.----	-				400	39	£76.95
HPC534.26.----	-				370	34	£72.19
-	HPC536.26.----	M3	2.43	2.5	330	34	£71.13
-	HPC538.26.----				380	38	£77.69
-	HPC540.26.----				350	33	£72.94
HPC530.34.----	-	M5	4.62	2.5	975	58	£75.40
HPC532.34.----	-				1128	65	£84.51
HPC534.34.----	-				988	59	£78.94
-	HPC536.34.----	M3	2.43	2.5	925	56	£76.30
-	HPC538.34.----				1078	63	£85.39
-	HPC540.34.----				938	57	£79.90
HPC530.41.----	-	M6	7.61	3	2490	102	£83.28
HPC532.41.----	-				2740	110	£95.25
HPC534.41.----	-				2477	102	£88.71
-	HPC536.41.----	M4	5.66	3	2390	99	£82.54
-	HPC538.41.----				2660	107	£94.54
-	HPC540.41.----				2377	99	£87.97

- ④ Length of support thro' bore. Shafts can near-butt.
 ⑤ Maximum recommended tightening torque.
 ⑥ Values apply with max bores.

Mi: Moment of inertia $kgm^2 \times 10^{-8}$

M: Mass $kg \times 10^{-3}$



Couplings

Nickel Bellows



Materials & Finishes

Hubs : Aluminium Alloy

Bellows : Electrodeposited nickel

Fasteners : Alloy steel

General description

Precision couplings with excellent kinematic properties. The 2 types offer differing combinations of stiffness, radial compensation and axial motion.

Where to use

High-end servo drives, pulse generators, scanners, positioning slides, metering valves, etc.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

12.5 Nm

Standard bores

3mm to 20mm

Temperature range

-40 °C to +120 °C

Electrically isolating

No, unless used with insulating bore adaptors.

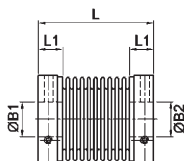
Connection

Clamp or Set Screw

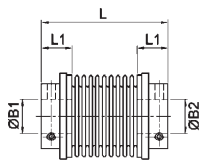
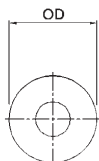
Couplings

Nickel Bellows

Set screw hubs

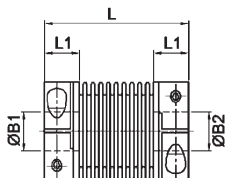


Ref. HPC321

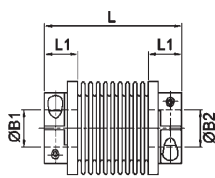


Ref. HPC321

Clamp hubs



Ref. HPC323



Ref. HPC323

The convolutions of these couplings are formed by the electrolytic deposition of nickel. This produces stress-free convolutions with closely controlled wall thickness.

Nickel bellows couplings are characterised by their quality of rotational positional integrity. This is achieved through high torsional stiffness in a coupling that is still able to accommodate large amounts of lateral and angular misalignment due to low spring rates in these directions. These couplings are used primarily in instrumentation and similar sensitive applications.

Couplings

Nickel Bellows

Couplings Nickel Bellows

Dimensions & Order Codes

PART NUMBER		Coupling Size	Number of convolutions	Dimensions		
Set Screw Hubs	Clamp Hub			O.D	O/A Length L	Max Shaft Depth L1
HPC321.07.----	-	7	8	6.35	14	4
HPC321.12.----	-	12	14	12	23	6
HPC321.17.----	-	17	14	17	27	7
-	HPC323.17.----			16.3	29	8
HPC321.25.----	-	25	10	25	33	7
-	HPC323.25.----			25	37	9
HPC321.36.----	-	36	7	36.3	42.3	9.5
-	HPC323.36.----			36.3	46.9	11.8
HPC321.50.----	-	50	11	51	59.3	10.5
-	HPC323.50.----			51	61.9	11.8

Performance

Size	Peak Torque (Ncm)	Wind up Arcs/Ncm	Max misalignment compensation		
			Angular Deg	Radial mm	Axial mm
7	4.9	285	10	0.19	0.65
12	13	75	15	0.54	1.72
17	50	20	10	0.43	1.78
25	328	4.0	8	0.46	2.07
36	918	1.2	6	0.46	3.28
50	1624	0.6	9	1.12	6.1

Available Bores

Coupling Size	Bore Size	ØB1, B2 H8							
		3	3.175	4	4.763	5	6	6.350	8
7	●	●	●						
12	●	●	●	●	●	●	●	●	
17	●	●	●	●	●	●	●	●	S
25						●	●	●	
36									
50									
Bore ref.		14	16	18	19	20	22	24	28

S= Setscrew only

3.10



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Couplings

Nickel Bellows

DISCOUNTS		1 - 19	20-39	40-59	60-99	100 +		
		List Price	-15%	-20%	-25%	-30%		
PART NUMBER		Dimensions			Fasteners			PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Max Bores	Mi	M	Size	Torque (Ncm)	A/F (mm)	
HPC321.07.----	-	3.175	1.3	1.5	M2	41	0.9	£106.32
HPC321.12.----	-	6.35	18.5	10	M2.5	79	1.3	£98.78
HPC321.17.----	-	10	36.2	8.5	M3	132	1.5	£108.73
-	HPC323.17.----	6.35	46.6	11.0	M2	35	1.5	£131.21
HPC321.25.----	-	12.7	161.0	19.5	M3	132	1.5	£122.24
-	HPC323.25.----	12.7	245.0	28.5	M2.5	66	2.0	£147.52
HPC321.36.----	-	19.05	601.0	39.0	M6	510	3.0	£164.67
-	HPC323.36.----	19.05	2960.0	85.0	M4	262	3.0	£187.43
HPC321.50.----	-	20	952.0	52.0	M6	860	3.0	£393.91
-	HPC323.50.----	20	3560.0	105.0	M4	262	3.0	£459.94

Size	Nominal Spring Rates			
	Torsional (Nm/rad)	Angular (N/deg)	Radial (N/mm)	Axial (N/mm)
7	7	<0.15	6.9	3.5
12	27	<0.15	4.2	2.2
17	103	0.15	12.3	4.0
25	515	0.41	38.1	11.2
36	1719	0.32	87.8	20.2
50	3438	<0.15	57.8	17.6

Order codes: Please combine the coupling part number in the above table with the bore reference in the available bores table. Please identify both bores to complete the part number eg:

HPC321.07.14 16

Part Number ØB1 ØB2

Coupling Size \ Bore Size	ØB1, B2 H8						
	9.525	10	12	12.700	16	19.050	20
7							
12							
17	S	S					
25	●	●	●	●			
36		●	●	●	●		
50			●	●	●	●	●
<i>Bore ref.</i>	31	32	35	36	42	47	48

Mi: Moment of inertia $\text{kgm}^2 \times 10^{-8}$

M: Mass $\text{kg} \times 10^{-3}$



Couplings

Flexible Membrane - Rivetted Series



Materials & Finishes

Hubs :	<i>Al. Alloy 2014 T6 Clear anodised finish</i>
Membranes :	<i>Spring quality stainless steel Heat treated Brass rivets flanked by formed steel</i>
Rivet assembly :	<i>washers. Steel, zinc plate & colour passivate</i>
Fasteners :	<i>Alloy steel</i>

General description

Precision couplings with excellent kinematic properties. dynamically balanced construction.

Single-stage versions make up into 'whirl' free Cardans. The 2-stage versions offer short envelopes and low bearing loads respectively.

Where to use

High-end servo drives, pulse generators, scanners, positioning slides, high speed dynamometers, unsupported drive shafts, etc.

Speeds

Up to 5000 rpm in standard form.

Up to 30000 rpm in balanced form.

Peak torque largest size

100 Nm

Standard bores

3mm to 16mm

Temperature range

-40° C to +120° C

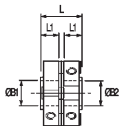
Electrically isolating

No, unless used with insulating bore adaptors.

Connection

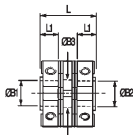
Clamp or Set Screw

Set screw hubs



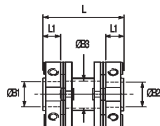
Ref. HPC460

For use in pairs or with floating shafts



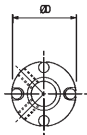
Ref. HPC464

For precisely aligned shafts



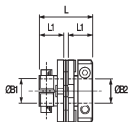
Ref. HPC468

For greater radial misalignment and lower bearing loads



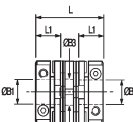
Typical

Clamp hubs



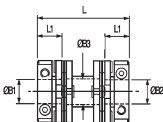
Ref. HPC462

For use in pairs or with floating shafts



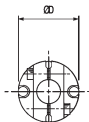
Ref. HPC466

For precisely aligned shafts



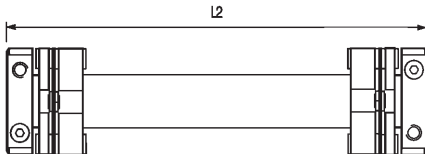
Ref. HPC470

For greater radial misalignment and lower bearing loads



Typical

Drive shafts



Unless specified otherwise, drive shafts are supplied with set screw hubs inboard.

Drive shafts are supplied to order.

Please specify:

- Coupling size
- Hub style and bore diameter at each end
- Keyway details
- Coupling size
- Overall length L2
- Minimum torsional stiffness, if critical
- Quantity

Couplings

Flexible Membrane - Rivetted Series

Performance

Couplings Flexible Membrane

PART NUMBER		Coupling Size	① Peak torque Nm	② Max compensation		
Set Screw Hubs	Clamp Hubs			Angular deg	Radial mm	Axial +/- mm
HPC460	HPC462	19	0.9	2	0	0.1
HPC464	HPC466			4	0.2	0.2
HPC468	HPC470			4	0.4	0.2
HPC460	HPC462	26	2.3	2	0	0.1
HPC464	HPC466			4	0.2	0.2
HPC468	HPC470			4	0.4	0.2
HPC460	HPC462	33	5.6	1.5	0	0.1
HPC464	HPC466			3	0.2	0.2
HPC468	HPC470			3	0.4	0.2
HPC460	HPC462	41	11.3	1	0	0.1
HPC464	HPC466			2	0.2	0.2
HPC468	HPC470			2	0.4	0.2

① **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor

② Max. compensation values are mutually exclusive.

③ Torsional stiffness values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.

Standard Bores

Coupling Size	Bore Size								
	ØB1, ØB2 + 0.03 / - 0 mm								
	3	3.175	4	4.763	5	6	6.350	8	9
19	●	●	●	●	●	●	●		
26			●	●	●	●	●	●	●
33						●	●	●	●
41							●	●	●
Bore ref.	14	16	18	19	20	22	24	28	30
Corresponding bore adaptor					251		253	255	

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes.

Couplings

Flexible Membrane - Rivetted Series

Couplings Flexible Membrane

PART NUMBER		Coupling Size	Flexural stiffness			
Set Screw Hubs	Clamp Hubs		Torsional Nm/rad	Angular N/deg	Radial N/mm	Axial N/mm
HPC460	HPC462	19	220	0.4	-	< 7
HPC464	HPC466		150	0.25	14	
HPC468	HPC470		145	0.3	4	
HPC460	HPC462	26	585	0.75	-	< 7
HPC464	HPC466		385	0.5	37	
HPC468	HPC470		400	0.4	7	
HPC460	HPC462	33	1560	2	-	< 8
HPC464	HPC466		935	1	48	
HPC468	HPC470		980	1.2	13	
HPC460	HPC462	41	2710	4	-	< 8
HPC464	HPC466		1980	2	100	
HPC468	HPC470		2020	2	25	

Coupling Size	Bore Size									
	ØB1, ØB2 + 0.03 / - 0 mm									
	9.525	10	11	12	12.700	14	15	15.875	16	
19										
26	●	●								
33	●	●	●	●	●					
41	●	●	●	●	●	●	●	●	●	●
Bore ref.	31	32	33	35	36	38	40	41	42	
Corresponding bore adaptor		257			259					260



Couplings

Flexible Membrane - Rivetted Series

Dimensions & Order Codes

Couplings Flexible Membrane

PART NUMBER		Coupling Size	ØD	L	④ L1	ØB1, ØB2 max	⑤ ØB3
Set Screw Hubs	Clamp Hubs						
HPC460.19.----		19	19.2	13.0	5.6	6.35	N/A
HPC464.19.----	-			19.6			7.3
HPC468.19.----	-			27.3			
-	HPC462.19.----			20.2	9.2		N/A
-	HPC466.19.----			26.8			7.3
-	HPC470.19.----			34.5			
HPC460.26.----	-	26	25.6	15.8	6.9	10	N/A
HPC464.26.----	-			22.4			11.0
HPC468.26.----	-			30.1			
-	HPC462.26.----			21.8	10.0		N/A
-	HPC466.26.----			28.4			11.0
-	HPC470.26.----			36.1			
HPC460.33.----	-	33	33.5	22.5	10.0	12.7	N/A
HPC464.33.----	-			32.1			14.1
HPC468.33.----	-			42.8			
-	HPC462.33.----			30.5	14.0		N/A
-	HPC466.33.----			40.1			14.1
-	HPC470.33.----			50.8			
HPC460.41.----	-	41	41.5	27.1	12.0	16	N/A
HPC464.41.----	-			38.5			17.5
HPC468.41.----	-			50.1			
-	HPC462.41.----			37.1	17.0		N/A
-	HPC466.41.----			48.5			17.5
-	HPC470.41.----			60.1			

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.14 & 3.15).

Please identify both bores to complete the part number eg. HPC460.19. 14 24

Part Number ØB1 ØB2

Flexible Membrane - Rivetted Series

DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Fasteners			⑦	⑦	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Screw	⑥ Torque Nm	Wrench mm	Mi	M	
HPC460.19.----	-	M3	0.94	1.5	30	7	£39.06
HPC464.19.----	-				50	10	£57.14
HPC468.19.----	-				60	12	£57.14
-	HPC462.19.----	M2.5	1.32	2	40	9	£47.56
-	HPC466.19.----				60	13	£67.39
-	HPC470.19.----				60	14	£67.39
HPC460.26.----	-	M4	2.27	2	120	15	£42.68
HPC464.26.----	-				160	18	£61.36
HPC468.26.----	-				200	23	£61.36
-	HPC462.26.----	M2.5	1.32	2	130	16	£51.87
-	HPC466.26.----				160	20	£77.85
-	HPC470.26.----				210	25	£77.85
HPC460.33.----	-	M5	4.62	2.5	560	37	£55.74
HPC464.33.----	-				800	52	£77.67
HPC468.33.----	-				830	55	£77.67
-	HPC462.33.----	M3	2.43	2.5	520	37	£79.27
-	HPC466.33.----				730	51	£96.76
-	HPC470.33.----				760	55	£96.76
HPC460.41.----	-	M6	7.61	3	1540	69	£69.25
HPC464.41.----	-				2250	97	£114.72
HPC468.41.----	-				2450	107	£114.72
-	HPC462.41.----	M4	5.66	3	1530	72	£99.50
-	HPC466.41.----				2220	100	£124.74
-	HPC470.41.----				2370	109	£124.74

- ④ Length of support thro' bore.
 ⑤ Clearance bore thro' spacer.
 ⑥ Maximum recommended tightening torque.
 ⑦ Values apply with max bores.

Mi: Moment of inertia $kgm^2 \times 10^{-8}$

M: Mass $kg \times 10^{-3}$



Couplings

Flexible Membrane - Bolted Series



Materials & Finishes

Hubs & spacer : *Al. Alloy 2014 T6
Clear anodised finish*

Membranes : *Spring quality stainless steel
Heat treated*

Bolt assembly : *Bolt, alloy steel, black oiled finish
Bush assembly, steel, zinc plate & black
chromate
Safety washer, carbon steel, black/brown
oiled finish*

Fasteners : *Alloy steel, black oiled*

General description

Precision couplings with excellent kinematic properties. Dynamically balanced construction.

Single-stage versions make up into 'whirl' free Cardans. The 2-stage versions offer short envelopes and low bearing loads respectively.

Where to use

High-end servo drives, pulse generators, scanners, positioning slides, high speed dynamometers, unsupported drive shafts, etc.

Speeds

Up to 5000 rpm in standard form.

Up to 30000 rpm in balanced form.

Peak torque largest size

100 Nm

Standard bores

3mm to 28mm

Temperature range

-40 °C to +120 °C

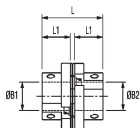
Electrically isolating

No, unless used with insulating bore adaptors.

Connection

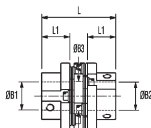
Clamp or Set Screw

Set screw hubs



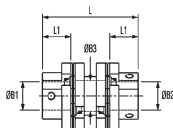
Ref. HPC660

For use in pairs or with floating shafts



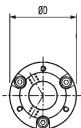
Ref. HPC664

For precisely aligned shafts



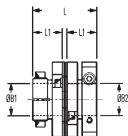
Ref. HPC668

For greater radial misalignment and lower bearing loads



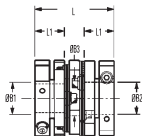
Typical

Clamp hubs



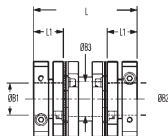
Ref. HPC662

For use in pairs or with floating shafts



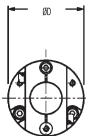
Ref. HPC666

For precisely aligned shafts



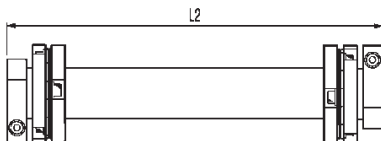
Ref. HPC670

For greater radial misalignment and lower bearing loads



Typical

Drive shafts



Unless specified otherwise, drive shafts are supplied with set screw hubs inboard and/or bonded to link shaft.

Drive shafts are supplied to order.

Please specify:

- Coupling size
- Hub style and bore diameter at each end
- Keyway details
- Overall length L2
- Minimum torsional stiffness, if critical
- Quantity

Couplings

Flexible Membrane - Bolted Series

Performance

PART NUMBER		Coupling Size	① Peak torque Nm	② Max compensation		
Set Screw Hubs	Clamp Hubs			Angular deg	Radial mm	Axial +/- mm
HPC660	HPC662	41	11.3	1	0	0.1
HPC664	HPC666			2	0.2	0.2
HPC668	HPC670			2	0.4	0.2
HPC660	HPC662	52	30	1	0	0.1
HPC664	HPC666			2	0.2	0.2
HPC668	HPC670			2	0.4	0.2
HPC660	HPC662	66	60	1	0	0.1
HPC664	HPC666			2	0.2	0.2
HPC668	HPC670			2	0.4	0.2

- ① **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor
- ② Max. compensation values are mutually exclusive.
- ③ Torsional stiffness values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.

Standard Bores

Bore Size Coupling Size	ØB1, ØB2 + 0.03 / - 0 mm									
	6.350	8	9	9.525	10	11	12	12.700	14	15
41	●	●	●	●	●	●	●	●	●	●
52		●	●	●	●	●	●	●	●	●
66							●	●	●	●
<i>Bore ref.</i>	24	28	30	31	32	33	35	36	38	40
Corresponding bore adaptor	253	255			257			259		

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes.

Couplings

Flexible Membrane - Bolted Series

PART NUMBER		Coupling Size	Flexural stiffness			
Set Screw Hubs	Clamp Hubs		Torsional Nm/rad	Angular N/deg	Radial N/mm	Axial N/mm
HPC660	HPC662	41	4000	3.7	-	< 8
HPC664	HPC666		2800	1.6	97	
HPC668	HPC670		2600	1.6	23	
HPC660	HPC662	52	7500	10.0	-	< 9
HPC664	HPC666		4800	5.0	313	
HPC668	HPC670		4800	5.0	57	
HPC660	HPC662	66	19000	84.0	-	< 9
HPC664	HPC666		12000	23.0	379	
HPC668	HPC670		12000	23.0	93	

Coupling Size	Bore Size	ØB1, ØB2 + 0.03 / - 0 mm									
		15.875	16	18	19	19.050	20	24	25	25.400	28
41		●	●								
52		●	●	●	●	●	●				
66		●	●	●	●	●	●	●	●	●	●
<i>Bore ref.</i>		41	42	45	46	47	48	51	52	53	54
Corresponding bore adaptor			260				261			262	263



Couplings

Flexible Membrane - Bolted Series

Dimensions & Order Codes

Couplings Flexible Membrane

PART NUMBER		Coupling Size	ØD	L	④ L1	ØB1, ØB2 max	⑤ ØB3
Set Screw Hubs	Clamp Hubs						
HPC660.41.----	-	41	41.5	36.9	17.1	16	N/A
HPC664.41.----	-			47.9			16.8
HPC668.41.----	-			59.7			17.5
-	HPC662.41.----			36.9			N/A
-	HPC666.41.----			47.9			16.8
-	HPC670.41.----			59.7			17.5
HPC660.52.----	-			52			52.0
HPC664.52.----	-	55.0	22.0				
HPC668.52.----	-	72.4	N/A				
-	HPC662.52.----	50.0	22.9		22.0		
-	HPC666.52.----	60.8					
-	HPC670.52.----	78.1					
HPC660.66.----	-	66	66.0		60.4	28.0	
HPC664.66.----	-			73.6	28.7		
HPC668.66.----	-			94.7	30.2		
-	HPC662.66.----			56.4	26.0	N/A	
-	HPC666.66.----			69.6		28.7	
-	HPC670.66.----			90.7		30.2	

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.20 & 3.21).

Please identify both bores to complete the part number eg. HPC660.41. 24 42

Part Number ØB1 ØB2

Flexible Membrane - Bolted Series

DISCOUNTS		1 - 19	20-39	40-59	60-99	100 +	
		List Price	-15%	-20%	-25%	-30%	
PART NUMBER		Fasteners			⑦	⑦	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Screw	⑥ Torque Nm	Wrench mm	Mi	M	
HPC660.41.----	-	M6	7.60	3	1160	63	£108.25
HPC664.41.----	-				1680	90	£163.65
HPC668.41.----	-				1790	101	£172.70
-	HPC662.41.----	M4	5.66	3	1400	74	£138.20
-	HPC666.41.----				2010	101	£193.74
-	HPC670.41.----				2250	112	£202.79
HPC660.52.----	-	M6	7.60	3	3740	124	£223.76
HPC664.52.----	-				5490	168	£289.86
HPC668.52.----	-				6840	208	£301.60
-	HPC662.52.----	M5	11.4	4	5660	164	£232.09
-	HPC666.52.----				7470	208	£298.05
-	HPC670.52.----				8870	247	£309.83
HPC660.66.----	-	M8	18.3	4	13370	272	£279.23
HPC664.66.----	-				18040	360	£376.95
HPC668.66.----	-				23400	447	£428.87
-	HPC662.66.----	M5	11.4	4	14200	269	£356.97
-	HPC666.66.----				19300	357	£454.69
-	HPC670.66.----				24320	444	£506.61

- ④ Length of support thro' bore.
- ⑤ Clearance bore thro' spacer.
- ⑥ Maximum recommended tightening torque.
- ⑦ Values apply with max bores.

Mi: Moment of inertia $kgm^2 \times 10^{-8}$

M: Mass $kg \times 10^{-3}$



Couplings

Universal / Lateral Offset Series



Materials & Finishes

Hub sizes 18 & 27:	Brass BS 2874 CZ121
Hub sizes 34, 41 & 70:	Al. Alloy 2014 T6, Irridite NCP
Fasteners:	Alloy steel, black oiled
Clamp rings (sizes 18 & 27):	Al. Alloy 2014 T6, Irridite NCP
Clamp rings, all sizes:	Acetal (black)

General description

Unique, general purpose light duty couplings with generous angular and radial misalignment compensation.
Resist axial motion, can anchor unrestricted shafts and perform light push/pull duties.

Where to use

Encoder, resolver, tacho, potentiometer drives. Small positioning slides, dosing pumps & light drives generally.

Speeds

Up to 3000 rpm.

Peak torque largest size

12 Nm

Standard bores

3mm to 22mm

Temperature range

-20 °C to +60 °C

Electrically isolating

Yes

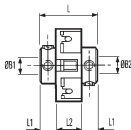
Connection

Clamp or Set Screw

Couplings

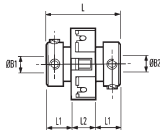
Universal / Lateral Offset Series

Set screw hubs



Ref. HPC201

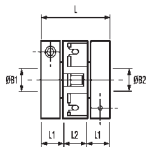
Small bores



Ref. HPC203

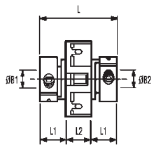
Large bores

Clamp hubs



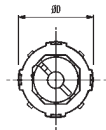
Ref. HPC207

Collet hub & ring clamp



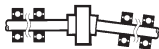
Ref. HPC205, HPC206

Integral leaf clamp



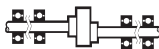
Typical

Installation



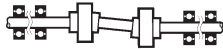
right

Up to 10° angular offset, depending on type



right

Up to 1mm radial offset for extreme misalignments



wrong

Standard Uni-Lats cannot be used in pairs. Special versions are available for use in this mode. Please enquire.

Couplings

Universal / Lateral Offset Series

Performance at 20° C

Coupling Size	① Peak Torque (Nm)	② Max compensation @ 3000 r.p.m.		③ Torsional	
		Angular deg	Radial mm	Rate deg / Nm	Stiffness Nm / rad
18	0.3	2	0.2	2.3	25
27	1.7		0.2	0.6	92
34	2.5		0.25	0.4	146
41	3.5		0.25	0.19	299
70	12.0		0.25	0.19	1300

Standard Bores

* Note that adaptor HPC254 is dedicated to coupling ref. HPC201.27. Use adaptor HPC255 for all other 8mm diameters.

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes.

Bore Size Coupling Size	ref.	ØB1, ØB2 + 0.03 / - 0 mm									
		3	3.175	4	4.763	5	6	6.350	7.938	8	9.525
18	HPC201.18	●	●	●	●	●					
	HPC203.18						●	●			
	HPC207.18	●	●	●	●	●	●	●			
27	HPC201.27	●	●	●	●	●	●	●	●	* ●	
	HPC203.27										●
	HPC207.27					●	●	●		●	●
34	HPC201.34						●	●		●	●
	HPC203.34										
	HPC206.34						●	●	●	●	●
41	HPC201.41						●	●		●	●
	HPC203.41										
	HPC205.41						●	●		●	●
70	HPC203.70										
	HPC205.70										
Bore ref.		14	16	18	19	20	22	24	27	28	31
Corresponding bore adaptor						251		253		254* 255	

Couplings

Universal / Lateral Offset Series

Coupling Size	Axial		Static break torque Nm
	⁴ Max loading $\pm N$	Stiffness N / mm	
18	19	155	0.9
27	31	350	5.0
34	34	300	7.5
41	39	250	10.5
70	75	540	68

- 1 Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.
- 2** Couplings can provide up to 1mm radial and 10° angular compensation (5° for ref. HPC207) when required. Observe given values for maximum backlash-free life. Electrical isolation between shafts > 3kv for all models when offset ≤ 5°.
- 3** Values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.
- 4** Momentary values.

Coupling Size	Bore Size ref.	ØB1, ØB2 + 0.03 / - 0 mm									
		10	12	12.7	14	15.875	16	18	19	19.05	20
18	HPC201.18										
	HPC203.18										
	HPC207.18										
27	HPC201.27										
	HPC203.27	●									
	HPC207.27	●									
34	HPC201.34	●									
	HPC203.34		●	●							
	HPC206.34	●									
41	HPC201.41	●	●	●							
	HPC203.41				●	●	●				
	HPC205.41	●	●	●							
70	HPC203.70		●	●	●	●	●	●	●	●	●
	HPC205.70		●	●	●	●	●	●	●	●	●
Bore ref.		32	35	36	38	41	42	45	46	47	48
Corresponding bore adaptor		257		259			260				261



Couplings

Universal / Lateral Offset Series

Dimensions & Order Codes

PART NUMBER		Coupling Size	ØD	L	⑤	⑥	ØB1, ØB2 max
Set Screw Hubs	Clamp Hubs				L1	L2	
HPC201.18.----	-	18	18.0	14.2	4.6	5.1	5
HPC203.18.----	-			19.1	7.0		6.35
-	HPC207.18.----.219			19.1			
HPC201.27.----	-	27	28.0	19.1	6.1	6.9	8
HPC203.27.----	-			25.4	9.3		10
-	HPC207.27.----.218						
HPC201.34.----	-	34	33.7	25.2	8.1	8.9	10
HPC203.34.----	-			30.7	10.9		12.7
-	HPC206.34.----					10.0	
HPC201.41.----	-	41	41.4	28.4	8.6	11.2	12.7
HPC203.41.----	-			38.1	13.5		16.0
-	HPC205.41.----					12.7	
HPC203.70.----	-	70	69.0	74.0	28.5	17.0	22
-	HPC205.70.----						22

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.26 & 3.27).

Please identify both bores to complete the part number eg. HPC201.18. 14 20

Part Number ØB1 ØB2

DISCOUNTS

1 - 5	6-25	26-65	66-99	100 +
List Price	-8%	-16%	-28%	-38%

PART NUMBER		Fasteners			⑧	⑧	PRICE EACH 1-5
Set Screw Hubs	Clamp Hubs	Screw	⑦ Torque Nm	Wrench mm	Mi	M	
HPC201.18.----	-	M3	0.94	1.5	20	7	£22.41
HPC203.18.----	-						£22.41
-	HPC207.18.----.219	4-40	2.33	2.0	55	11	£33.17
HPC201.27.----	-	M3	0.94	1.5	91	16	£24.38
HPC203.27.----	-						£24.38
-	HPC207.27.----.218	M3	2.43	2.5	220	26	£36.35
HPC201.34.----	-	M4	2.27	2.0	165	17	£34.73
HPC203.34.----	-						£34.73
-	HPC206.34.----	4-40	2.33		183	20	£39.30
HPC201.41.----	-	M4	2.27	2.0	476	30	£42.29
HPC203.41.----	-	M5	4.62	2.5			£42.29
-	HPC205.41.----	M4	5.66	3.0	550	40	£46.42
HPC203.70.----	-	M6	7.60	3.0	7315	189	£99.45
-	HPC205.70.----	M6	19.3	5.0	7315	189	£107.50

- ⑤ Length of support thro' bore. Shaft must not penetrate beyond L1 when in operation.
- ⑥ Nominal distance between shafts inserted to L1.
- ⑦ Maximum recommended tightening torque.
- ⑧ Values apply with max bores.

Mi: Moment of inertia $\text{kgm}^2 \times 10^{-8}$

M: Mass $\text{kg} \times 10^{-3}$



Couplings

Sliding Disc (Oldham) Brass/Aluminium



Materials & Finishes

Hub sizes 06 to 13: Brass BS 2874 CZ121

Hub sizes 19 to 57: Al. Alloy 2014A T6

Fasteners: Alloy steel, black oiled

Blind & blank hubs: Irridite NCP finish

Thro' hubs: Clear anodised finish

Torque discs
Types HPC236 - Acetal (black)
Types HPC238 - Nylon 11 (natural)

General description

General purpose, robust, easy to use 3-part couplings with replaceable wear elements. Generous radial compensation and pull-apart / re-engage facility for blind assemblies.

Where to use

Stepper drives for most applications including positioning slides, pumps, actuators, etc.

Speeds

Up to 3000 rpm.

Peak torque largest size

44 Nm

Standard bores

2mm to 30mm

Temperature range

-20 °C to +60 °C

Electrically isolating

Yes

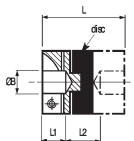
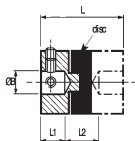
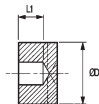
Connection

Clamp or Set Screw

Couplings

Sliding Disc (Oldham) Brass/Aluminium

Blind hubs



Controlled bore depth L1 provides a register when pre-assembling hubs to shafts

Set screw style

Clamp style

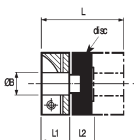
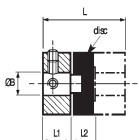
Ref. HPC232,
HPC243

Set screw style

Ref. HPC234,
HPC235, HPC245

Clamp style

Thro' hubs



Thro' bores allow disc replacement without disturbing shaft alignment

Set screw style

Clamp style

Ref. HPC450,
HPC454

Set screw style

Ref. HPC452,
HPC453, HPC456

Clamp style

Standard discs (larger sizes are webbed)

Acetal - High torsional stiffness, good bearing properties, long backlash-free life.



Nylon 11 - Resilient, isolates noise & vibration. Performance approximately 25% that of acetal disc.

Thro' bored discs

Thro' bored discs allow shafts to near-butt, standard thro' hole diameter = $\text{ØD} \times 0.5$. To order, add suffix 'T' to order code, eg., **HPC236.25T**.



Other thro' hole diameters are manufactured to order. Specify the disc ref. and thro' hole diameter. This should equal the larger shaft diameter + 2 x max radial error.

Note that thro' bored discs reduce torsional stiffness.

Please contact our sales department for a quotation.



Couplings

Sliding Disc (Oldham) Brass/Aluminium

Performance (At 20° C With Standard Acetal Disc)

Coupling Size	① Peak Torque (Nm)	② Max compensation @ 3000 r.p.m.		
		Angular deg	Radial mm	Axial +/-mm
06	0.06	0.5	0.1	0.05
09	0.21		0.1	0.05
13	0.5		0.1	0.05
19	1.7		0.2	0.1
25	4		0.2	0.1
33	9		0.2	0.15
41	17		0.25	0.15
50	30		0.25	0.2
57	44		0.25	0.2

- ① **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.
- ② Couplings can provide up to ($\varnothing D \times 0.1$) radial compensation in extreme cases. Observe given values for maximum backlash-free life. Axial compensation is set on installation. Electrical isolation between shafts > 3kV.
- ③ Values apply at 50% peak torque with no misalignment, measured shaft-to-shaft with largest standard bores.
- ④ Thro' hubs can be provided with keyways.

Standard Bores ^④ For All Types

Coupling Size	Bore Size $\varnothing B + 0.03 / - 0 \text{ mm}$											
	2	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12
06	●	●	●									
09		●	●	●	●	●						
13		●	●	●	●	●	●	●				
19				●	●	●	●	●	●			
25							●	●	●	●	●	●
33									●	●	●	●
41										●	●	●
50										●	●	●
57												●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35

Couplings

Sliding Disc (Oldham) Brass/Aluminium

Coupling Size	③ Torsional		Static break torque Nm
	Rate deg / Nm	Stiffness Nm/ Rad	
06	5.7	10	0.7
09	1.9	30	2
13	0.88	65	4
19	0.50	115	8
25	0.28	205	13
33	0.093	615	53
41	0.048	1200	57
50	0.042	1375	95
57	0.022	2610	150

NB. Size 33 available in both 'standard' and 'long' versions.

Couplings Sliding Disc (Oldham)

Coupling Size \ Bore Size	ØB + 0.03 / - 0 mm											
	12.7	14	15	15.875	16	18	19	19.05	20	24	25	30
06												
09												
13												
19												
25												
33	●	●	●	●	●							
41	●	●	●	●	●	●	●	●	●			
50	●	●	●	●	●	●	●	●	●	●	●	
57	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	36	38	40	41	42	45	46	47	48	51	52	56



Couplings

Sliding Disc (Oldham) Brass/Aluminium

Dimensions & Order Codes

Couplings Sliding Disc (Oldham)

PART NUMBER		Coupling Type & Size	ØD	L	5	6	ØB1 Max	8	8
Set Screw Style	Clamp Style								
HPC232.06.--	-	06	6.4	12.7	3.8	5.1	3.18	6	2.5
HPC232.09.--	-	09	9.5	12.7	3.8	5.1	5	18	4
HPC232.13.--	-	13	12.7	15.9	4.3	7.3	6.35	26	11
HPC232.19.--	-	19	19.1	22.0	6.3	9.4	8	67	12
-	HPC234.19.--								
HPC232.25.--	-	25	25.4	28.4	8.6	11.2	12	252	31
-	HPC234.25.--								
HPC232.33.--	-	33	33.3	42.0	13.0	16.0	16	1074	72
-	HPC234.33.--								
HPC243.33.--	-		33.3	48.0	13.0	22.0	16	1278	86
-	HPC245.33.--								
HPC232.41.--	-	41	41.3	50.8	16.7	17.4	20	3327	148
-	HPC234.41.--								
HPC450H19.--	-	19	19.1	26.0	9.4	7.2	8	59	13
-	HPC453H19.--								
HPC450H25.--	-	25	25.4	32.4	11.6	9.2	12	252	31
-	HPC452H25.--								
HPC450H33.--	-	33	33.3	42.0	15.0	12.0	16	1080	67
-	HPC452H33.--								
HPC454H33.--	-		33.3	48.0	15.0	18.0	16	1133	74
-	HPC456H33.--								
HPC450H41.--	-	41	41.3	50.8	17.8	15.3	20	3177	142
-	HPC452H41.--								
HPC450H50.--	-	50	50.0	59.6	20.6	18.4	25.4	7550	208
-	HPC452H50.--								
HPC450H57.--	-	57	57.1	78.0	28.4	21.2	30	12410	361
-	HPC452H57.--								

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.32 & 3.33).

Please note that the hubs and discs are sold separately, i.e:

HPC232.06.11 - Hub with 2mm bore

HPC232.06.16 - Hub with 3.175mm bore

HPC236.06 - Black Acetal Disc

To order a complete coupling you must order TWO hubs and ONE disc.

Couplings

Sliding Disc (Oldham) Brass/Aluminium

DISCOUNTS

1 - 5	6-19	20-39	40-59	60-99	100 +
List Price	-12%	-25%	-33%	-37%	-42%

Fasteners			PRICE EACH 1-5	Acetal (black) Std.	PRICE EACH 1-5	Nylon 11 (Natural)	PRICE EACH 1-5
Size	7 Torque (Nm)	Wrench (mm)					
M3	0.94	1.5	£9.01	HPC236.06	£1.45	HPC238.06	£1.60
M3	0.94	1.5	£7.84	HPC236.09	£1.45	HPC238.09	£1.60
M3	0.94	1.5	£8.86	HPC236.13	£1.09	HPC238.13	£1.47
M3	0.94	1.5	£8.86	HPC236.19	£1.35	HPC238.19	£2.47
4-40	2.33	2.0	£10.21				
M4	2.27	2.0	£12.91	HPC236.25	£2.80	HPC238.25	£3.46
M3	2.43	2.5	£14.17				
M5	4.62	1.5	£15.53	HPC836.33	£4.16	HPC838.33	£5.03
M4	2.33	2.0	£19.33				
M4	2.27	3.0	£19.33	HPC236.33	£4.16	HPC238.33	£5.03
M4	5.66	2.5	£20.81				
M5	4.62	2.5	£20.96	HPC236.41	£5.93	HPC238.41	£7.72
M4	5.66	3.0	£22.43				
M5	4.62	2.5	£11.79	HPC236.19	£1.35	HPC238.19	£2.47
4-40	2.33	2.0	£12.78				
M5	4.62	2.5	£16.13	HPC236.25	£2.80	HPC238.25	£3.46
M3	2.43	2.5	£17.75				
M6	7.61	3.0	£24.16	HPC836.33	£4.16	HPC838.33	£5.03
M4	5.66	3.0	£26.03				
M6	7.61	3.0	£24.16	HPC236.33	£4.16	HPC238.33	£5.03
M4	5.66	3.0	£26.03				
M6	7.61	3.0	£27.23	HPC236.41	£5.93	HPC238.41	£7.72
M4	5.66	3.0	£26.03				
M8	18.36	4.0	£52.93	HPC236.50	£13.32	-	-
M5	11.40	4.0	£55.76				
M8	18.36	4.0	£59.47	HPC236.57	£19.87	-	-
M6	19.34	5.0	£61.64				

- 5 **Blind hubs:** Length of parallel bore +/- 0.2. Bores may terminate in 118° incl. angle.
Thro' hubs: Max permissible hub penetration.
- 6 **Blind hubs:** Nominal distance between unchamfered shafts bottomed out to L1.
Thro' hubs: Nominal distance between shafts with standard (unbored) disc.
- 7 Maximum recommended tightening torque.
- 8 Values apply to complete couplings with max bores.

Mi: Moment of inertia $kgm^2 \times 10^{-8}$

M: Mass $kg \times 10^{-3}$



Couplings

Sliding Disc (Oldham) Stainless Steel



Materials & Finishes

Hubs:	<i>Stainless Steel 303 S31 - Natural Finish</i>
Fasteners:	<i>Stainless Steel</i>
Discs:	<i>Torque disc details on page 3.27</i>
Temp. Range:	<i>-20° C to +60° C</i>
Max. Rotational Speed	<i>3000 rev/min</i>

Performance (At 20° C With Standard Acetal Disc)

Coupling Size	Peak Torque (Nm)	Max compensation @ 3000 r.p.m.		
		Angular deg	Radial mm	Axial +/- mm
25	4	0.5	0.2	0.1
33	9		0.2	0.15
41	17		0.25	0.15
50	30		0.25	0.12

Dimensions & Order Codes

PART NUMBER		Coupling Type & Size	ØD	L	L1	L2	ØB1 Max	Mi	M
Set Screw Style	Clamp Style								
HPC850H25.--	-	25	25.4	32.4	11.6	9.2	12.0	587	76
-	HPC852H25.--								
HPC850H33.--	-	33	33.3	42.0	15.0	12.0	16.0	2091	165
-	HPC852H33.--								
HPC850H41.--	-	41	41.3	50.8	17.8	15.3	20.0	6822	305
-	HPC852H41.--								
HPC850H50.--	-	50	50.0	59.6	20.6	20.6	25.4	17368	510
-	HPC852H50.--								

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.32 & 3.33).

Please note that the hubs and discs are sold separately, i.e. :

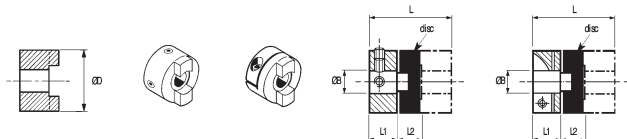
- HPC850H25.22 - Hub with 6mm bore
- HPC850H25.35 - Hub with 12mm bore
- HPC236.25 - Black Acetal Disc

To order a complete coupling you must order TWO hubs and ONE disc.

Couplings

Sliding Disc (Oldham) Stainless Steel

Thro' hubs



Thro' bores allow disc replacement without disturbing shaft alignment

Set screw style

Clamp style

Ref. HPC850

Set screw style

Ref. HPC852

Clamp style

Coupling Size	Torsional		Static break torque (Nm)
	Rate deg / Nm	Stiffness Nm/ Rad	
25	0.28	205	13
33	0.093	615	53
41	0.048	1200	57
50	0.042	1375	95

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price		-12%	-25%	-33%	-37%

Fasteners			PRICE EACH 1-5	Acetal (black) Std.	PRICE EACH 1-5	Nylon 11 (Natural)	PRICE EACH 1-5
Size	Torque (Nm)	A/F (mm)					
M5	2.1	2.5	£25.78	HPC236.25	£2.80	HPC238.25	£3.46
M3	1.2	2.5	£28.04				
M6	3.8	3.0	£38.63	HPC836.33	£4.16	HPC838.33	£5.03
M4	2.9	3.0	£40.86				
M6	3.8	3.0	£43.01	HPC236.41	£5.93	HPC238.41	£7.72
M5	5.9	4.0	£43.43				
M8	9.0	4.0	£52.93	HPC236.50	£13.32	N/A	N/A
M6	9.8	5.0	£80.86				

Mi: Moment of inertia $\text{kgm}^2 \times 10^{-8}$

M: Mass kg $\times 10^{-3}$



Couplings

Material

6-Beam (Non-Relieved)

Stainless Steel



Materials & Finishes

Couplings: *Stainless Steel 303 S31*

Fasteners: *Stainless Steel*

General description

General purpose single piece couplings.

6 Beam couplings are available in three standard materials: Stainless Steel, Aluminium and Acetal.

Where to use

Stepper and servo drives, encoders, general purpose light duty power transmission applications.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

140 Nm

Temperature range

-40 °C to +140 °C

Electrically isolating

Aluminium	}	No
Stainless Steel		
Acetal		Yes

Connection

Clamp or Set Screw

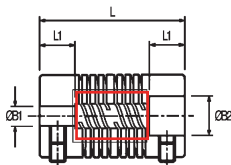
Standard Bores

Bore Size Coupling Size	ØB1, ØB2 + 0.03 / - 0 mm													
	2	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.7	
9	●	●	●	●	●									
13		●	●	●	●	●	●	●						
16		●	●	●	●	●	●	●	●					
19					●	●	●	●	●	●	●			
25						●	●	●	●	●	●	●	●	●
32									●	●	●	●	●	●
38									●	●	●	●	●	●
44										●	●	●	●	●
51											●	●	●	●
57												●	●	●
64													●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36	

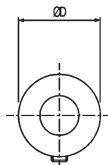
● B1 only

● B1 & B2

Set screw hubs

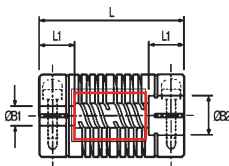


Ref. HPC702 6-Beam Non-Relieved

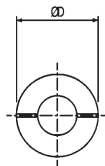


Typical

Clamp hubs



Ref. HPC703 6-Beam Non-Relieved



Typical

Coupling Size	Bore Size													
	ØB1, ØB2 + 0.03 / - 0 mm													
	14	15.88	16	18	19	19.05	20	24	25	25.4	28	30	31.75	32
9														
13														
16														
19														
25														
32	●	●	●											
38	●	●	●	●	●	●	●							
44	●	●	●	●	●	●	●	●	●					
51	●	●	●	●	●	●	●	●	●	●	●			
57	●	●	●	●	●	●	●	●	●	●	●	●	●	●
64	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	38	41	42	45	46	47	48	51	52	53	54	56	57	58

Couplings

Material

6-Beam (Non-Relieved)

Stainless Steel

Dimensions & Order Codes

Couplings 6-Beam (Non-Relieved)

PART NUMBER		Coupling Type & Size	ØD	L	L1	Bore Diameters		
Set Screw Style	Clamp Style					Min B1	Min B2	Max B1 & B2
HPC702.09.....	-	09	9.5	19.6	5.3	2.0	4.0	4.76
-	HPC703.09.....							
HPC702.13.....	-	13	12.7	25.4	6.5	3.0	5.0	6.35
-	HPC703.13.....							
HPC702.16.....	-	16	15.9	25.4	6.5	3.0	6.0	8.0
-	HPC703.16.....							
HPC702.19.....	-	19	19.1	28.0	6.5	4.76	6.35	10.0
-	HPC703.19.....							
HPC702.25.....	-	25	25.4	38.1	11.0	5.0	8.0	12.7
-	HPC703.25.....							
HPC702.32.....	-	32	31.8	57.2	16.0	8.0	10.0	19.0
-	HPC703.32.....							16.0
HPC702.38.....	-	38	38.1	66.7	18.0	8.0	12.0	22.0
-	HPC703.38.....							19.0
HPC702.44.....	-	44	44.5	76.2	20.0	9.0	14.0	25.0
-	HPC703.44.....							22.0
HPC702.51.....	-	51	50.8	95.3	25.0	10.0	16.0	28.0
-	HPC703.51.....							26.0
HPC702.57.....	-	57	57.2	130.0	32.0	10.0	20.0	32.0
-	HPC703.57.....							30.0
HPC702.64.....	-	64	63.5	150.0	38.0	12.0	25.0	38.0
-	HPC703.64.....							36.0

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.38 & 3.39).

Please identify both bores to complete the part number eg. HPC702.09. 11 19

Part Number ØB1 ØB2



DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Set Screw	Cap Screw	② Angular	② Parallel	③ Peak	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs			Offset Deg.	Offset mm	Torque Nm	
HPC702.09.----	-	M2.5	M1.6	3	0.12	1.5	£47.61
-	HPC703.09.----						£68.03
HPC702.13.----	-	M3	M2	5	0.17	3.0	£47.61
-	HPC703.13.----						£57.48
HPC702.16.----	-	M4	M2.5	5	0.2	5.0	£52.38
-	HPC703.16.----						£72.94
HPC702.19.----	-	M4	M2.5	7	0.25	8.0	£59.56
-	HPC703.19.----						£67.50
HPC702.25.----	-	M5	M3	7	0.38	16.0	£85.80
-	HPC703.25.----						£100.59
HPC702.32.----	-	M6	M4	7	0.5	25.0	£129.66
-	HPC703.32.----						£162.07
HPC702.38.----	-	M6	M5	7	0.6	36.0	£126.30
-	HPC703.38.----						£169.95
HPC702.44.----	-	M6	M5	7	0.8	48.0	£200.40
-	HPC703.44.----						£280.67
HPC702.51.----	-	M8	M6	7	0.9	73.0	£218.68
-	HPC703.51.----						£293.31
HPC702.57.----	-	M8	M6	7	0.95	102.0	£287.98
-	HPC703.57.----						£529.37
HPC702.64.----	-	M8	M8	7	1.0	140.0	£423.51
-	HPC703.64.----						£635.26

- ① Length of supported bore.
- ② Max. compensation values are mutually exclusive.
- ③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.

6-beam couplings

If either shaft extends beneath the beams, the area outlined in red must be relieved to provide clearance under the flexure (see page 3.39).

Please contact our sales department for a quotation.



Couplings

Material

6-Beam (Non-Relieved)

Aluminium

Materials & Finishes

Couplings: Aluminium L168 or better

Fasteners: Alloy steel. black oiled



General description

General purpose single piece couplings.

6 Beam couplings are available in three standard materials: Stainless Steel, Aluminium and Acetal.

Where to use

Stepper and servo drives, encoders, general purpose light duty power transmission applications.

Speeds

Up to 5000 rpm in standard form.

Electrically isolating

Aluminium	}	No
Stainless Steel		Yes
Acetal		

Peak torque largest size

140 Nm

Temperature range

-40°C to +120°C

Connection

Clamp or Set Screw

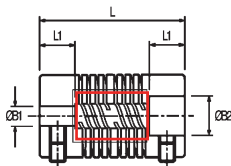
Standard Bores

Bore Size Coupling Size	ØB1, ØB2 + 0.03 / - 0 mm												
	2	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.7
9	●	●	●	●	●								
13		●	●	●	●	●	●	●					
16		●	●	●	●	●	●	●	●				
19					●	●	●	●	●	●	●		
25						●	●	●	●	●	●	●	●
32									●	●	●	●	●
38									●	●	●	●	●
44										●	●	●	●
51										●	●	●	●
57										●	●	●	●
64											●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36

● B1 only

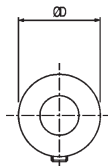
● B1 & B2

Set screw hubs



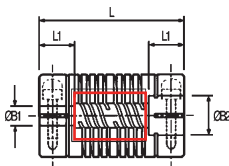
Ref. HPC706

6-Beam Non-Relieved



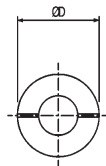
Typical

Clamp hubs



Ref. HPC707

6-Beam Non-Relieved



Typical

Bore Size Coupling Size	ØB1, ØB2 + 0.03 / - 0 mm													
	14	15.88	16	18	19	19.05	20	24	25	25.4	28	30	31.75	32
9														
13														
16														
19														
25														
32	●	●	●											
38	●	●	●	●	●	●	●							
44	●	●	●	●	●	●	●	●	●					
51	●	●	●	●	●	●	●	●	●	●	●			
57	●	●	●	●	●	●	●	●	●	●	●	●	●	●
64	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Bore ref.	38	41	42	45	46	47	48	51	52	53	54	56	57	58

Couplings

Material

6-Beam (Non-Relieved)

Aluminium

Dimensions & Order Codes

Couplings 6-Beam (Non-Relieved)

PART NUMBER		Coupling Type & Size	ØD	L	L1	Bore Diameters		
Set Screw Style	Clamp Style					Min B1	Min B2	Max B1 & B2
HPC706.09.----	-	09	9.5	19.6	5.3	2.0	4.0	4.76
-	HPC707.09.----							
HPC706.13.----	-	13	12.7	22.9	6.5	3.0	5.0	6.35
-	HPC707.13.----							
HPC706.16.----	-	16	15.9	25.4	6.5	3.0	6.0	8.0
-	HPC707.16.----							
HPC706.19.----	-	19	19.1	26.5	6.5	4.76	6.35	10.0
-	HPC707.19.----							
HPC706.25.----	-	25	25.4	38.1	11.0	5.0	8.0	12.7
-	HPC707.25.----							
HPC706.32.----	-	32	31.8	57.2	16.0	8.0	10.0	19.0
-	HPC707.32.----							16.0
HPC706.38.----	-	38	38.1	66.7	18.0	8.0	12.0	22.0
-	HPC707.38.----							19.0
HPC706.44.----	-	44	44.5	76.2	20.0	9.0	14.0	25.0
-	HPC707.44.----							22.0
HPC706.51.----	-	51	50.8	95.3	25.0	10.0	16.0	28.0
-	HPC707.51.----							26.0
HPC706.57.----	-	57	57.2	130.0	32.0	10.0	20.0	32.0
-	HPC707.57.----							30.0
HPC706.64.----	-	64	63.5	150.0	38.0	12.0	25.0	38.0
-	HPC707.64.----							36.0

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.42 & 3.43).

Please identify both bores to complete the part number eg. HPC706.09. 11 19

Part Number ØB1 ØB2



DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Set Screw	Cap Screw	② Angular	② Parallel	③ Peak	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs			Offset Deg.	Offset mm	Torque Nm	
HPC706.09.----	-	M2.5	M1.6	3	0.12	1.0	£20.11
-	HPC707.09.----						£34.03
HPC706.13.----	-	M3	M2	5	0.17	2.0	£26.39
-	HPC707.13.----						£27.92
HPC706.16.----	-	M4	M2.5	5	0.2	3.4	£30.41
-	HPC707.16.----						£39.83
HPC706.19.----	-	M4	M2.5	7	0.25	5.3	£28.58
-	HPC707.19.----						£35.02
HPC706.25.----	-	M5	M3	7	0.38	10.0	£34.11
-	HPC707.25.----						£42.08
HPC706.32.----	-	M6	M4	7	0.5	15.0	£84.08
-	HPC707.32.----						£81.84
HPC706.38.----	-	M6	M5	7	0.6	22.0	£86.32
-	HPC707.38.----						£99.89
HPC706.44.----	-	M6	M5	7	0.8	30.0	£132.79
-	HPC707.44.----						£120.18
HPC706.51.----	-	M8	M6	7	0.9	40.0	£136.99
-	HPC707.51.----						£141.16
HPC706.57.----	-	M8	M6	7	0.95	55.0	£350.59
-	HPC707.57.----						£407.85
HPC706.64.----	-	M8	M8	7	1.0	75.0	£356.12
-	HPC707.64.----						£481.30

- ① Length of supported bore.
- ② Max. compensation values are mutually exclusive.
- ③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.

6-beam couplings

If either shaft extends beneath the beams, the area outlined in red must be relieved to provide clearance under the flexure (see page 3.43).

Please contact our sales department for a quotation.



Couplings

Material

6-Beam (Non-Relieved)

Acetal

Couplings 6-Beam (Non-Relieved)



Materials & Finishes

Couplings: Acetal (natural)

Fasteners: Stainless Steel

General description

General purpose single piece couplings.

6 Beam couplings are available in three standard materials: Stainless Steel, Aluminium and Acetal.

Where to use

Stepper and servo drives, encoders, general purpose light duty power transmission applications.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

4.0 Nm

Temperature range

-20°C to +60°C

Electrically isolating

Aluminium	}	No
Stainless Steel		
Acetal		

Connection

Clamp or Set Screw

Standard Bores

Bore Size Coupling Size	ØB1, ØB2 + 0.03 / - 0 mm												
	2	3	3.175	4	4.763	5	6	6.350	8	9.525	10	12	12.7
13		●	●	●	●	●	●						
16		●	●	●	●	●	●	●	●				
19					●	●	●	●	●	●			
25						●	●	●	●	●	●	●	
32									●	●	●	●	●
Bore ref.	11	14	16	18	19	20	22	24	28	31	32	35	36

● B1 only

● B1 & B2

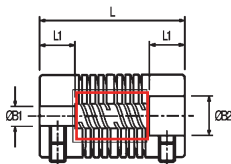
3.46



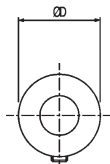
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Set screw hubs

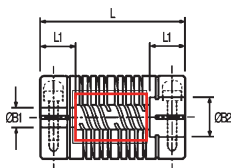


Ref. HPC710 6-Beam Non-Relieved

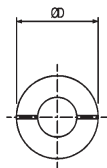


Typical

Clamp hubs



Ref. HPC711 6-Beam Non-Relieved



Typical

Bore Size	ØB1, ØB2 + 0.03 / - 0 mm													
	14	15.88	16	18	19	19.05	20	24	25	25.4	28	30	31.75	32
13														
16														
19														
25														
32	●	●	●											
Bore ref.	38	41	42	45	46	47	48	51	52	53	54	56	57	58

Couplings

Material

6-Beam (Non-Relieved)

Acetal

Dimensions & Order Codes

PART NUMBER		Coupling Type & Size	ØD	L	L1	Bore Diameters		
Set Screw Style	Clamp Style					Min B1	Min B2	Max B1 & B2
HPC710.13.----	-	13	12.7	22.9	6.5	3.0	5.0	6.0
-	HPC711.13.----							
HPC710.16.----	-	16	15.9	25.4	6.5	3.0	6.0	8.0
-	HPC711.16.----							
HPC710.19.----	-	19	19.1	26.5	6.5	4.0	6.35	9.53
-	HPC711.19.----							
HPC710.25.----	-	25	25.4	38.1	11.0	5.0	8.0	12.0
-	HPC711.25.----							
HPC710.32.----	-	32	31.8	57.2	16.0	8.0	10.0	16.0
-	HPC711.32.----							

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.46 & 3.47).

Please identify both bores to complete the part number eg. HPC710.13. 14 22

Part Number ØB1 ØB2

DISCOUNTS	1 - 19	20-39	40-59	60-99	100 +
	List Price		-15%	-20%	-25%

PART NUMBER		Set Screw	Cap Screw	② Angular	② Parallel	③ Peak	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs			Offset Deg.	Offset mm	Torque Nm	
HPC710.13.----	-	M3	M2	5	0.17	0.51	£32.27
-	HPC711.13.----						£37.20
HPC710.16.----	-	M4	M2.5	5	0.2	0.91	£33.44
-	HPC711.16.----						£38.09
HPC710.19.----	-	M4	M2.5	7	0.25	1.3	£35.99
-	HPC711.19.----						£39.01
HPC710.25.----	-	M5	M3	7	0.38	2.5	£47.50
-	HPC711.25.----						£52.16
HPC710.32.----	-	M6	M4	7	0.5	4.0	£65.08
-	HPC711.32.----						£70.73

- ① Length of supported bore.
- ② Max. compensation values are mutually exclusive.
- ③ **Peak torque.** Select a size where Peak Torque exceeds the application torque x service factor.

6-beam couplings

If either shaft extends beneath the beams, the area outlined in red must be relieved to provide clearance under the flexure (see page 3.47). Please contact our sales department for a quotation.

Couplings

Material

Single Beam

Stainless Steel

Couplings
Single Beam



Materials & Finishes

Couplings: *Stainless Steel 303 S31*

Fasteners: *Stainless Steel*

General description

More flexible than Multi-Beam but less torsional rigidity.

Where to use

Stepper drives, encoders, general purpose light duty power transmission applications.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

30 Nm

Standard bores

3mm to 26mm

Temperature range

-40 °C to +140 °C

Electrically isolating

Aluminium No
Stainless Steel

Connection

Clamp or Set Screw

3.50



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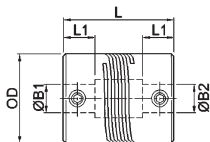
Material

Stainless Steel

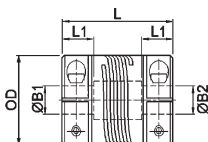
Couplings

Single Beam

Set screw hubs



Clamp hubs



Performance

Coupling Size	Peak Torque (Nm)	Max misalignment compensation			Nominal stiffness at std. bore size	
		Angular deg	Radial mm	Axial mm	Bore	Torsional (Nm/rad)
16	1.2	5	0.25	0.25	5	16
19	2.3	5	0.25	0.25	6	33
25	4.3	5	0.25	0.25	10	45
32	7.8	5	0.25	0.25	12	84
38	20	5	0.25	0.25	16	195
50	30	5	0.25	0.25	20	320



Couplings

Material

Single Beam

Stainless Steel

Dimensions & Order Codes

Couplings Single Beam

PART NUMBER		Coupling	Dimensions					
Set Screw Style	Clamp Style		Size	ØD	L	L1	Min B1	Min B2
HPC820.16.----	-	16	15.9	20	6.0	3	4	6.35
-	HPC821.16.----			22	6.5			
HPC820.19.----	-	19	19.1	20	6.0	4	4.76	8
-	HPC821.19.----			28	8.0			
HPC820.25.----	-	25	25.4	24	7.5	5	6	10
-	HPC821.25.----			30	10.0			
HPC820.32.----	-	32	31.8	30	10.0	6	8	16
-	HPC821.32.----			38	12.0			
HPC820.38.----	-	38	38.1	50	16.0	8	12	19
-	HPC821.38.----			50	16.0			
HPC820.50.----	-	50	50.8	54	18.0	10	16	26
-	HPC821.50.----			54	18.0			

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see below).

Please identify both bores to complete the part number eg. HPC820.16. 14 24

Part Number ØB1 ØB2

Standard Bores

Coupling Size	Bore Size + 0.03 / - 0 mm										
	3	3.175	4	4.763	5	6	6.350	7.938	8	9	9.525
16	●	●	●	●	●	●	●				
19			●	●	●	●	●		●		
25					●	●	●	●	●	●	●
32						●	●	●	●	●	●
38											●
50											
Bore ref.	14	16	18	19	20	22	24	27	28	30	31

● B1 only

● B1 & B2

3.52



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Material

Stainless Steel

Couplings

Single Beam

DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Fasteners				Mass Kg $\times 10^{-3}$	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Set Screw	Cap Screw	Torque (Nm)	A/F (mm)		
HPC820.16.----	-	M4	-	1.05	2.0	25.6	£39.48
-	HPC821.16.----	-	M2.5	0.68	2.0	26.0	£53.16
HPC820.19.----	-	M4	-	1.05	2.0	35.8	£44.31
-	HPC821.19.----	-	M2.5	0.68	2.0	47.7	£59.90
HPC820.25.----	-	M5	-	2.10	2.5	78	£59.99
-	HPC821.25.----	-	M3	1.20	2.5	91	£77.09
HPC820.32.----	-	M6	-	3.75	3.0	152	£92.26
-	HPC821.32.----	-	M4	2.85	3.0	186	£113.35
HPC820.38.----	-	M6	-	3.75	3.0	365	£146.64
-	HPC821.38.----	-	M5	5.85	4.0	350	£180.54
HPC820.50.----	-	M8	-	9.00	4.0	680	£193.60
-	HPC821.50.----	-	M6	9.75	5.0	660	£264.03

Couplings Single Beam

Coupling Size	Bore Size + 0.03 / - 0 mm										
	10	12	12.7	14	15	15.875	16	19.050	20	24	25
16											
19											
25	●										
32	●	●	●	●	●	●					
38	●	●	●	●	●	●	●				
50			●	●	●	●	●	●	●	●	●
<i>Bore ref.</i>	32	35	36	38	40	41	42	47	48	52	53



**Materials & Finishes**

Couplings: Aluminium L 168 or better

Fasteners: Alloy steel, black oiled

General description

More flexible than Multi-Beam but less torsional rigidity.

Where to use

Stepper drives, encoders, general purpose light duty power transmission applications.

Speeds

Up to 5000 rpm in standard form.

Peak torque largest size

30 Nm

Standard bores

3mm to 26mm

Temperature range

-40 °C to +120 °C

Electrically isolating

Aluminium No
Stainless Steel

Connection

Clamp or Set Screw

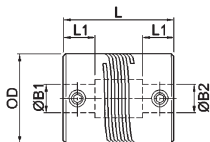
Material

Aluminium

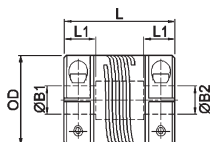
Couplings

Single Beam

Set screw hubs



Clamp hubs



Couplings Single Beam

Performance

Coupling Size	Peak Torque (Nm)	Max misalignment compensation			Nominal stiffness at std. bore size	
		Angular deg	Radial mm	Axial mm	Bore	Torsional (Nm/rad)
16	0.6	5	0.25	0.25	5	6
19	1.1	5	0.25	0.25	6	12
25	2.2	5	0.25	0.25	10	17
32	4.1	5	0.25	0.25	12	32
38	10	5	0.25	0.25	16	70
50	15	5	0.25	0.25	20	119



Couplings

Material

Single Beam

Aluminium

Dimensions & Order Codes

Couplings Single Beam

PART NUMBER		Coupling	Dimensions					
Set Screw Style	Clamp Style		Size	ØD	L	L1	Min B1	Min B2
HPC826.16.----	-	16	15.9	20	6.0	3	4	6.35
-	HPC827.16.----			22	6.5			
HPC826.19.----	-	19	19.1	20	6.0	4	4.76	8
-	HPC827.19.----			28	8.0			
HPC826.25.----	-	25	25.4	24	7.5	5	6	10
-	HPC827.25.----			30	10.0			
HPC826.32.----	-	32	31.8	30	10.0	6	8	16
-	HPC827.32.----			38	12.0			
HPC826.38.----	-	38	38.1	50	16.0	8	12	19
-	HPC827.38.----			50	16.0			
HPC826.50.----	-	50	50.8	54	18.0	10	16	26
-	HPC827.50.----			54	18.0			

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see below).

Please identify both bores to complete the part number eg. HPC826.16. 14 24

Part Number ØB1 ØB2

Standard Bores

Coupling Size	Bore Size + 0.03 / - 0 mm										
	3	3.175	4	4.763	5	6	6.350	7.938	8	9	9.525
16	●	●	●	●	●	●	●				
19			●	●	●	●	●		●		
25					●	●	●	●	●	●	●
32						●	●	●	●	●	●
38											●
50											
Bore ref.	14	16	18	19	20	22	24	27	28	30	31

● B1 only

● B1 & B2

3.56



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Material

Aluminium

Couplings

Single Beam

DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Fasteners				Mass Kg $\times 10^{-3}$	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Set Screw	Cap Screw	Torque (Nm)	A/F (mm)		
HPC826.16.----	-	M4	-	2.27	2.0	8.8	£26.77
-	HPC827.16.----	-	M2.5	1.32	2.0	9.8	£35.56
HPC826.19.----	-	M4	-	2.27	2.0	13.1	£27.70
-	HPC827.19.----	-	M2.5	1.32	2.0	17.3	£37.79
HPC826.25.----	-	M5	-	4.62	2.5	28	£33.54
-	HPC827.25.----	-	M3	2.43	2.5	33	£45.54
HPC826.32.----	-	M6	-	7.61	3.0	55	£56.56
-	HPC827.32.----	-	M4	5.66	3.0	67	£73.03
HPC826.38.----	-	M6	-	7.61	3.0	127	£74.26
-	HPC827.38.----	-	M5	11.40	4.0	130	£101.26
HPC826.50.----	-	M8	-	18.36	4.0	241	£157.22
-	HPC827.50.----	-	M6	19.34	5.0	237	£227.15

Couplings Single Beam

Bore Size Coupling Size	+ 0.03 / - 0 mm										
	10	12	12.7	14	15	15.875	16	19.050	20	24	25
16											
19											
25	●										
32	●	●	●	●	●	●					
38	●	●	●	●	●	●	●				
50			●	●	●	●	●	●	●	●	●
Bore ref.	32	35	36	38	40	41	42	47	48	52	53





Materials & Finishes

Couplings: Nylon type engineering polymer

Fasteners: Stainless Steel

General description

Unique coupling design gives excellent combination of radial flexibility with torsional stiffness.

Where to use

Encoders, tachogenerators, small pumps, motors and drives.

Speeds

Up to 10000 rpm

Temperature range

-20 °C to +150 °C

Peak torque largest size

25 Nm

Electrically isolating

Yes

Standard bores

3mm to 12.7mm

Connection

Clamp or Set Screw

Dimensions & Order Codes

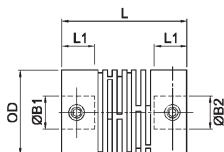
PART NUMBER		Coupling Size	Dimensions				
Set Screw Style	Clamp Style		ØD	O/A Length L	Max Shaft Depth L1	Min Bore	Max Bore
HPC636.13.----	-	13	13	18	5.0	3	6.35
-	HPC637.13.----						
HPC636.19.----	-	19	19	28	8.0	3	9.53
-	HPC637.19.----						
HPC636.25.----	-	25	25	36	10.0	6	12.7
-	HPC637.25.----						

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see page 3.59).

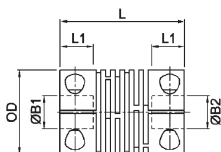
Please identify both bores to complete the part number eg. HPC636.13. 14 24

Part Number ØB1 ØB2

Set screw hubs



Clamp hubs



Performance

Coupling Size	Peak Torque (Nm)	Torsional Stiffness (Nm/rad)	Max misalignment / displacement		
			Angular deg	Radial mm	Axial mm
13	0.25	5.5	3	0.15	0.2
19	0.8	12.0	4	0.15	0.2
25	2.5	18.0	5	0.3	0.3

DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Fasteners				Mass Kg x 10 ⁻³	PRICE EACH 1-19
Set Screw Hubs	Clamp Hubs	Set Screw	Cap Screw	Torque (Ncm)	A/F (mm)		
HPC636.13.----	-	M2	-	0.08	0.9	3.0	£18.88
-	HPC637.13.----	-	M2	0.23	1.5		£24.03
HPC636.19.----	-	M3	-	0.32	1.5	7.5	£21.01
-	HPC637.19.----	-	M2.5	0.51	2.0		£28.65
HPC636.25.----	-	M4	-	1.05	2.0	17.4	£25.42
-	HPC637.25.----	-	M3	0.90	2.5		£34.52

Standard Bores

Coupling Size	Bore Size + 0.05 / - 0 mm													
	3	3.175	4	4.763	5	6	6.350	7.938	8	9.525	10	12	12.7	
13	●	●	●	●	●	●	●							
19			●	●	●	●	●	●	●	●				
25						●		●	●	●	●	●	●	●
Bore ref.	14	16	18	19	20	22	24	27	28	31	32	35	36	

Couplings

Flexible Jaw

Couplings Flexible Jaw



Materials & Finishes

Hub sizes 14 to 30: Al. Alloy 2024

Hub size 40: Cast Aluminium LM9

Membranes: Polyurethane

Fastener: Alloy steel, black oiled

General description

High torque capacity and high speed are available from this naturally balanced coupling.

Where to use

Light power drives where misalignment is small.

Speeds

Up to 40,000 rpm.

Peak torque largest size

133 Nm

Standard bores

3mm to 16mm

Temperature range

-40 °C to +80 °C

Electrically isolating

Yes

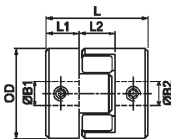
Connection

Clamp or Set Screw

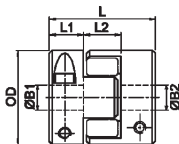
Couplings

Flexible Jaw

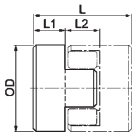
Set Screw Hubs



Thro' Clamp Hubs

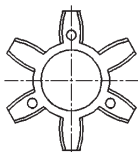


Pilot hubs



User-adaptable for special needs, e.g. fitting within tubes. Blank hubs are supplied centred with no provision for fastening. External dimensions identical with blind hubs. Except size 40 which has 6.35mm pilot hole.

Elements



Polyurethane elements are available with three hardness levels; hard, standard and soft which exhibit different operating characteristics. Other features of polyurethane are:

- Resistance to oils, grease and many solvents
- Good atmospheric and chemical resistance
- Excellent shock and vibration damping

Couplings

Flexible Jaw

Performance (At 20° C)

Couplings Flexible Jaw

Coupling Size	Spider Rigidity Duro ①	Misalignment		Speed R.P.M max
		Angular deg	Radial mm	
14	80 Blue	2	0.10	40000
	92 White			
	98 Red			
20	80 Blue	2	0.15	28000
	92 White			
	98 Red			
30	80 Blue	2	0.20	19000
	92 White			
	98 Red			
40	80 Blue	2	0.38	14000
	92 White			
	98 Red			

- Spider Durometer is shore 'A' hardness
- Values apply at 50% nominal torque, measured shaft-to-shaft with largest standard bores.
- Nominal Torque. Select a size where Nominal Torque exceeds application torque x service factor

Standard Bores

Coupling Size	Bore Size + 0.03 / - 0 mm							
	3	3.175	4	4.763	5	6	6.350	8
14	●	●	●	●	●	●	●	
20			●	●	●	●	●	
30						●	●	●
40								●
Bore ref.	14	16	18	19	20	22	24	28

Couplings

Flexible Jaw

Couplings Flexible Jaw

Coupling Size	Torsional ^②		Backlash Free Torque Nm	Torque Nominal Nm	Torque Max Nm
	Rate deg / Nm	Stiffness Nm/ Rad			
14	6.7	8.5	0.22	0.67	1.34
	3.9	14.7		1.12	2.24
	2.29	25.0		1.90	3.80
20	3.37	17	0.45	1.80	3.60
	2.05	28		2.93	6.00
	1.22	47		4.85	9.70
30	1.24	71	1.00	3.95	7.90
	0.40	143		7.33	14.60
	0.25	228		12.40	24.80
40	0.34	170	2.40	4.85	9.70
	0.17	344		9.80	19.60
	0.10	573		16.70	33.40

Coupling Size	Bore Size + 0.03 / - 0 mm							
	9.525	10	12	12.7	14	15	15.875	16
14								
20								
30	●	●	●	●	●			
40	●	●	●	●	●	●	●	●
<i>Bore ref.</i>	31	32	35	36	38	40	41	42



Couplings

Flexible Jaw

Dimensions & Order Codes

Couplings Flexible Jaw

PART NUMBER			Coupling Type & Size	ØD	L	④	L2	⑤	⑥
Set Screw Style	Clamp Style	Pilot Hub				L1		ØB1 max	Mi
HPC802.14.--	-	-	14	14.0	22.0	7.0	8.0	6.35	18.4
-	HPC803.14.--	-							
-	-	HPC800.14.--							
HPC802.20.--	-	-	20	20.0	30.0	10.0	10.0	9.0	106.0
-	HPC803.20.--	-							
-	-	HPC800.20.--							
HPC802.30.--	-	-	30	30.0	35.0	11.0	13.0	14.0	606.0
-	HPC803.30.--	-							
-	-	HPC800.30.--							
HPC802.40.--	-	-	40	40.0	66.0	25.0	16.0	16.0	4230.0
-	HPC803.40.--	-							
-	-	HPC800.40.--							

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.62 & 3.63).

Please note that the hubs and discs are sold separately, i.e. :

HPC802.14.14 - Hub with 3mm bore

HPC802.14.24 - Hub with 6.35mm bore

HPC804.14 - Soft (Blue) element

To order a complete coupling you must order TWO hubs and ONE element.

- ④ Maximum permissible hub penetration.
- ⑤ Hubs can be provided with keyways or 'D' bores.
- ⑥ Values apply to complete couplings with max bores.
- ⑦ Maximum recommended tightening torque.

Mi: Moment of inertia $\text{kgm}^2 \times 10^{-8}$

Couplings

Flexible Jaw

DISCOUNTS

1 - 5	6-19	20-39	40-59	60 +
List Price	-5%	-10%	-20%	-25%

7 Fasteners			ELEMENT Ref.			6 Mass kg x10 ⁻³	PRICE EACH 1-5
Screw	Torque Nm	Wrench mm	Soft (Blue)	Med (White)	Hard (Red)		
M3	0.94	1.5	HPC804.14	HPC805.14	HPC806.14	7.0	£22.59
M2.5	1.32	2.5					£25.70
-	-	-					£19.92
M3	0.94	1.5	HPC804.20	HPC805.20	HPC806.20	17.0	£26.84
M3	2.43	2.5					£29.97
-	-	-					£22.71
M4	2.27	2.0	HPC804.30	HPC805.30	HPC806.30	51.0	£38.53
M3	2.43	2.5					£43.29
-	-	-					£33.88
M5	4.62	2.5	HPC804.40	HPC805.40	HPC806.40	108.0	£48.32
M4	5.66	3.0					£53.31
-	-	-					£42.38

Couplings Flexible Jaw

ELEMENT Ref.

Soft (Blue)	PRICE EACH 1-5	Med (White)	PRICE EACH 1-5	Hard (Red)	PRICE EACH 1-5
HPC804.14	£5.98	HPC805.14	£5.98	HPC806.14	£5.98
HPC804.20	£7.67	HPC805.20	£7.67	HPC806.20	£8.06
HPC804.30	£8.86	HPC805.30	£8.86	HPC806.30	£8.86
HPC804.40	£16.56	HPC805.40	£16.56	HPC806.40	£16.56



Couplings

Double Loop



Materials & Finishes

- Hubs:** *Steel 230M07 pb Zn plated + clear passivate
OR
Stainless Steel 303 S31 natural finish*
- Flexing Element:** *Hytrel*
- Fastener:** *Steel Hub: Alloy steel, black oiled
Stainless Steel Hub: stainless steel*

General description

Exceptional flexibility in all three directions, radial, angular and axial.

Where to use

Light power drives, pumps and small generators.

Speeds

Up to 3000 rpm.

Peak torque largest size

18 Nm

Standard bores

3mm to 16mm

Temperature range

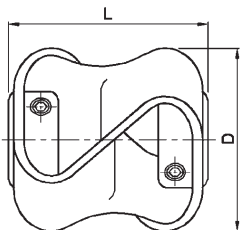
-40 °C to +100 °C

Electrically isolating

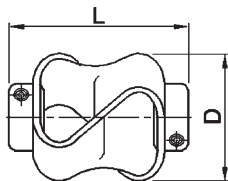
Yes

Connection

Set Screw



Sizes: 20, 30, 40



Size: 10

Performance

Coupling Size	Max Torque 1 (Nm)	Max Torque 2 (Nm)	max misalignment / displacement		
			Angular deg	Radial mm	Axial \pm mm
10	0.5	0.8	10	2.6	4.5
20	1.8	3	15	3.2	7.5
30	5	8	15	3.2	8.5
40	10	18	15	3.2	11

Torque 1 = torque at maximum displacement

Torque 2 = torque at 1 deg. angular, 2mm axial and 0.5mm radial displacement

Couplings

Double Loop

Dimensions & Order Codes

Couplings Double Loop

PART NUMBER		Dimensions				
steel zinc plated hubs	stainless steel hubs	Coupling Type & Size	Max Diameter	Length L ± 1.0	Bore length	Max Bores
HPC047.10.----	-	10	27	27	7.9	9.53
-	HPC049.10.----					
HPC047.20.----	-	20	48	48	12.7	12.7
-	HPC049.20.----					
HPC047.30.----	-	30	54	55	16.0	16.0
-	HPC049.30.----					
HPC047.40.----	-	40	56	56	16.0	16.0
-	HPC049.40.----					

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages below).

Please identify both bores to complete the part number eg. HPC047.10. 14 31

Part Number \varnothing B1 \varnothing B2

Standard Bores *

Bore Size Coupling Size	+ 0.05 / - 0 mm								
	3	3.175	4	4.763	5	6	6.350	7.938	8
10	●	●	●	●	●	●	●	●	●
20						●	●	●	●
30									
40									
Bore ref.	14	16	18	19	20	22	24	27	28

* Couplings with dissimilar bores are non-standard

Couplings

Double Loop

DISCOUNTS

1 - 19	20-39	40-59	60-99	100 +
List Price	-15%	-20%	-25%	-30%

PART NUMBER		Fasteners				PRICE EACH 1-19
steel zinc plated hubs	stainless steel hubs	Size	Torque (Nm)	A/F (mm)	Mass kg x10 ⁻³	
HPC047.10.----	-	M3	0.94	1.5	25	£20.04
-	HPC049.10.----		0.32			£30.06
HPC047.20.----	-	M4	2.27	2.0	92	£22.36
-	HPC049.20.----		2.0			£33.54
HPC047.30.----	-	M5	4.62	2.5	124	£24.68
-	HPC049.30.----		2.1			£37.05
HPC047.40.----	-	M6	7.61	3.0	136	£24.68
-	HPC049.40.----		3.75			£40.53

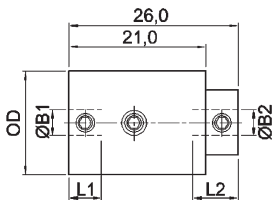
Couplings Double Loop

Coupling Size	Bore Size	+ 0.05 / - 0 mm							
		9.525	10	12	12.7	14	15	15.875	16
10	●								
20	●	●	●	●	●				
30	●	●	●	●	●	●	●	●	●
40	●	●	●	●	●	●	●	●	●
<i>Bore ref.</i>		31	32	35	36	38	40	41	42



Couplings

Adjustable Friction Clutches



Materials & Finishes

<i>Housing, adjuster ring, adaptors:</i>	<i>Al. Alloy 2014 T6 Irridite NCP finish</i>
<i>Hub:</i>	<i>Steel, heat treated</i>
<i>Clutch plates:</i>	<i>Size 25 Steel, heat treated Size 48 Brass</i>
<i>Bearings</i>	<i>Sintered bronze</i>
<i>Fastener:</i>	<i>Alloy steel, black oiled</i>

The adjustable friction clutches are rotary friction devices with adjustable drag or slip torque. Controlled slip takes place between the hub and housing whenever the load exceeds the set torque.

- Three sizes - up to 3Nm torque capacity
- 4 interface styles
- Set screw or clamp connection
- Compact proportions
- Use a torque limiter, tensioning, or overrun device

The construction is simple and robust and comprises a series of steel clutch plates engaging a hub and a series of friction rings engaging a housing. Pressure is brought to bear on the plates and friction rings by an adjuster acting through a spring and pressure plate. The load can be connected to either the steel inner hub or the aluminum alloy housing.

As a torque limiter, the adjustable friction clutch interrupts continuity between power source and load when this reaches a pre-determined level.

As a tensioning device, the adjustable friction clutch typically maintains tension in a filament or tape winding operation by exerting drag on the feed spool.

As an overrun device, the adjustable friction clutch absorbs residual inertia of a motor when the load is braked or reaches a terminal stop.

Couplings

Adjustable Friction Clutches

Size 25 Set Screw Shaft Fixing



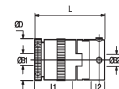
Ref. HPC271 (2 plate)
HPC279 (6 plate)

Basic clutch (thro' bore)



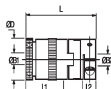
Ref. HPC273 (2 plate)
HPC281 (6 plate)

Basic clutch + sleeve
adaptor



Ref. HPC277 (2 plate)
HPC285 (6 plate)

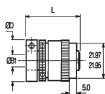
Basic clutch + Oldham
(set screw) coupling



Ref. HPC267 (2 plate)
HPC269 (6 plate)

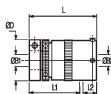
Basic clutch + Oldham
(clamp) coupling

Size 25 Clamp Shaft Fixing



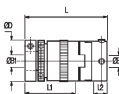
Ref. HPC401 (2 plate)
HPC409 (6 plate)

Basic clutch (thro' bore)



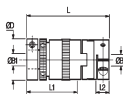
Ref. HPC403 (2 plate)
HPC411 (6 plate)

Basic clutch + sleeve
adaptor



Ref. HPC407 (2 plate)
HPC415 (6 plate)

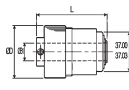
Basic clutch + Oldham
(set screw) coupling



Ref. HPC397 (2 plate)
HPC399 (6 plate)

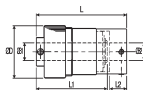
Basic clutch + Oldham
(clamp) coupling

Size 48 Set Screw Shaft Fixing



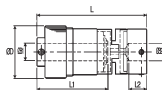
Ref. HPC279

Basic clutch (thro' bore)



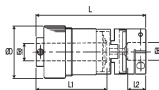
Ref. HPC281

Basic clutch + sleeve
adaptor



Ref. HPC285

Basic clutch + Oldham
(set screw) coupling



Ref. HPC269

Basic clutch + Oldham
(clamp) coupling

Couplings

Adjustable Friction Clutches

Performance Data

Size	Size 16	Size 25	Size 48
Power dissipation at 20° C 2-PLATE 6-PLATE	0.5 watt	7 watts 8.6 watts	18 watts
Backlash	0° max	2° max	zero
Max surface temperature	80° C	80° C	80° C
Max speed continuous slip	1000 rpm	1000 rpm	600 rpm

Standard Bores

Coupling Size	Bore Size	ØB1, ØB2 + 0.03 / - 0 mm							
		4	6	6.350	7.938	8	9.525	10	12
16	At B1 end	●							
	At B2 end	●							
25	At B1 end		●	●	●	●			
	At B2 end		●	●	●	●	●	●	●
48	At B1 end					●	●	●	●
	At B2 end						●	●	●
Bore ref.		22	22	24	27	28	31	32	35
Corresponding bore adaptor				253		255		257	

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes. See page 3.90 for details.

Couplings

Adjustable Friction Clutches

Couplings Adjustable Friction Clutches

'Never Knowingly Outpriced'

Coupling Size	Bore Size	ØB1, ØB2 + 0.03 / - 0 mm							
		12.7	14	15.875	16	18	19	19.05	20
16	At B1 end								
	At B2 end								
25	At B1 end								
	At B2 end								
48	At B1 end	●	●	●	●				
	At B2 end	●	●	●	●	●	●	●	●
Bore ref.		36	38	41	42	45	46	47	48
Corresponding bore adaptor		259			260				261



Couplings

Adjustable Friction Clutches

Dimensions & Order Codes

Couplings Adjustable Friction Clutches

PART NUMBER		Size & Model	ØD	L	① L1	② L2	ØB1 max	ØB2 max	Max drag torque Ncm
Set Screw Hub	Clamp Hub								
HPC311.16.----	-	16	16.0	26.0	5.0	7.0	4	4	0.5
HPC267.25.----	-	25	25.8	46.5	25.0	8.6	8	12	53
HPC271.25.----	-			thro'	-	-			
HPC273.25.----	-			36.0	25.0	9.0		12	
HPC277.25.----	-			46.5	25.0	8.6		12	
-	HPC397.25.----			54.5	33.0	8.6		12	
-	HPC401.25.----	2-PLATE	25.8	34.4	thro'	-	8	-	53
-	HPC403.25.----			44.0	33.0	9.0		12	
-	HPC407.25.----			54.5	33.0	8.6		12	
-	-			54.5	33.0	8.6		12	
HPC269.25.----	-	25	25.8	53.4	31.0	8.6	8	12	132
HPC279.25.----	-			thro'	-	-			
HPC281.25.----	-			42.5	31.0	9.0		12	
HPC285.25.----	-			53.4	31.0	8.6		12	
-	HPC399.25.----			60.8	39.0	8.6		12	
-	HPC409.25.----	6-PLATE	25.8	40.7	thro'	-	8	-	132
-	HPC411.25.----			50.3	39.0	9.0		12	
-	HPC415.25.----			60.8	39.0	8.6		12	
-	-			60.8	39.0	8.6		12	
HPC269.48.----	-	48	48.0	102.0	65.0	16.7	16	20	300
HPC279.48.----	-			thro'	-	-		20	
HPC281.48.----	-			83.0	65.0	16.0		20	
HPC285.48.----	-			102.0	65.0	16.7		20	

Order codes: Please combine the coupling part number in the above table with the bore reference in the standard bores table (see pages 3.72 & 3.73).

Please identify both bores to complete the part number eg. HPC311.16. 22 22

Part Number ØB1 ØB2

Couplings

Adjustable Friction Clutches

DISCOUNTS			1 - 20		21-99		100-499		500 +	
			List Price		-20%		-25%		-30%	
Fasteners at B1 end			Fasteners at B2 end			Moment Of inertia ² kgm ² x10 ⁻⁸	Mass kg x10 ⁻³	PRICE EACH 1-20		
Screw	² Torque Nm	Wrench mm	Screw	² Torque Nm	Wrench mm					
M3	0.94	1.5	M3	0.94	1.5	30	14	£87.99		
M3	0.94	1.5	M3	2.43	2.5	416	58	£79.92		
			-	-	-	242	37	£56.65		
			M4	2.27	2	382	50	£68.44		
			M4	2.27	2	425	58	£79.36		
M3	2.43	2.5	M3	2.43	2.5	508	68	£87.99		
			-	-	-	317	47	£63.86		
			M4	2.27	2	441	60	£77.02		
			M4	2.27	2	511	69	£88.83		
M3	0.94	1.5	M3	2.43	2.5	529	68	£90.50		
			-	-	-	312	48	£67.11		
			M4	2.27	2	451	60	£78.97		
			M4	2.27	2	516	69	£78.97		
M3	2.43	2.5	M3	2.43	2.5	617	79	£88.83		
			-	-	-	381	58	£73.47		
			M4	2.27	2	530	71	£86.69		
			M4	2.27	2	590	80	£98.41		
M6	7.60	3.0	M4	5.66	3	8037	390	£132.14		
			-	-	-	5548	278	£125.97		
			M5	4.62	2.5	7135	350	£129.71		
			M5	4.62	2.5	8037	390	£137.62		

Couplings Adjustable Friction Clutches



Couplings

Adjustable Friction Clutches

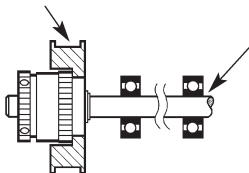
How to install

Basic Clutch - Refs. HPC271, HPC279, HPC401 & HPC409

Controlled slip occurs between pulley and shaft.

Pulley (or gear etc.) bonded to register.
Press fits not permissible.

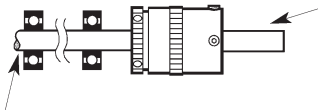
Motor, gearbox, or other externally supported shafts can pass thro' hollow hub. Please enquire for clutch/pulley assemblies.



Basic Clutch + Sleeve Adaptor - Refs. HPC273, HPC281, HPC403 & HPC411

Controlled slip occurs between LH & RH shafts. Clutch orientation not important, supported shaft may be entered either end.

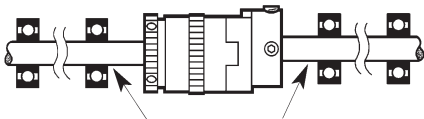
Small spools, paddles, knobs, etc. can be attached after fitting a suitable stub shaft. Side loads must be minimal. Avoid connecting both ends of this clutch to externally supported shafts.



Motor, gearbox, or other externally supported shaft

Basic Clutch + Flexible Coupling - Refs. HPC267, HPC269, HPC277, HPC285, HPC397, HPC399, HPC407 & HPC415

Controlled slip occurs between LH & RH shafts.



Motor, gearbox, or externally supported shafts

Characteristics

The characteristics of dry plate clutches favour those applications which can tolerate relatively imprecise drag torques. Three tendencies should be noted:

Breakaway Torque

After a period during which no slipping has taken place, the breakaway torque can be up to 2 1/2 times the set value.

Torque Decay

There is an inverse relationship between clutch temperature and slipping torque. The slipping torque reduces from the set value as the power being dissipated causes the clutch temperature to rise. When slipping continuously, torque settles at approximately 70% of the value set on a new clutch and at approximately 80% of the value set on a used clutch. This characteristic is not speed dependent.

Speed Related Torque Fluctuations

Variations in slipping speed cause a momentary increase in the prevailing output torque. The clutches behave more consistently at high speed/low torque than at low speed/high torque. High speed in this instance starts at approximately 500 rpm.

Where applications call for sustained slipping, the housing temperature should be maintained below 80° C. Clutches mounted concentrically within pulleys, gear wheels, etc. will be more effective at dissipating heat generated during slipping.

Calculating For Power Dissipation

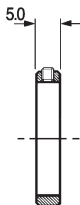
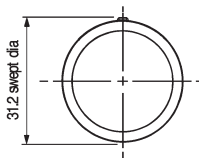
Given the slipping speed in rpm and the drag torque in Nm, the following equation can be used for calculating the power dissipation in watts (W).

$$W = \frac{\text{Nm} \cdot \text{rpm}}{9.55}$$

Couplings

Adjustable Friction Clutches

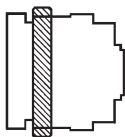
Locking Ring



Order ref.

HPC294.25

Size 25 only



Fit locking ring flush with end of housing as shown. Lightly tension locking screw to secure the adjuster. Wrench size 1.5

Locking Ring

In some circumstances it is possible for the adjuster ring to unscrew during operation. The adjuster ring can be secured by fitting locking ring ref. **HPC294.25**.

Removing The Adjuster Ring

- 1) If this should be necessary, be sure to replace the pressure plate first, then the spring washers. Ensure that the top most friction ring is fully engaged with the splines. *A disengaged friction ring will cause the clutch to malfunction.*
- 2) To remove the adjuster ring, first remove the clamp. With set screw hubs the adjuster ring cannot be removed if the set screws protrude above the hub diameter. Flattening or dimpling of shafts is recommended and may be necessary with shafts larger than $\text{Ø}6.35$ to avoid the screws fouling the adjuster ring.

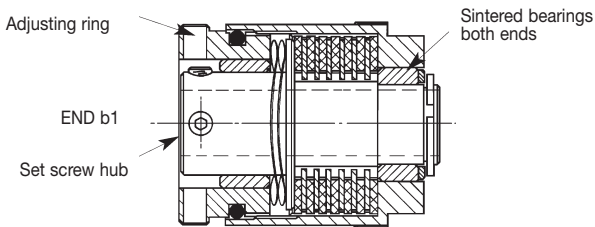
Waved Washers

Two waved washers are fitted to these clutches. In some instances, better torque control may result from removing one of them, particularly when working in the lower torque ranges.

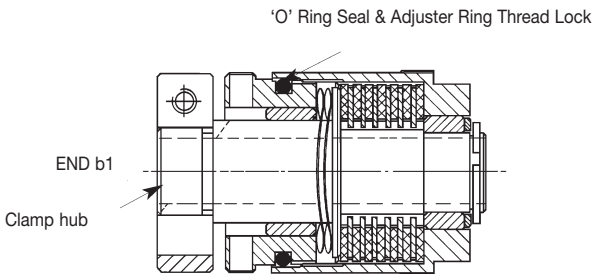
Couplings

Adjustable Friction Clutches

Construction - Size 25 Adjustable Friction Clutch



Sectional view of 6-plate clutch Ref.-HPC279.25 Shafts are secured by set screws accessed through radial holes in the adjuster ring.



Sectional view of 6-plate clutch Ref. HPC409.25 Shafts are secured by a split hub and ring clamp method which does not score the shafts.

Couplings

Bore Reducers



General description

Bore adaptors offer a convenient way of adapting a coupling to a variety of shaft diameters, typically at the R & D stage. A range of motor options, for example, can be accommodated with one coupling and a selection of bore reducers.

When fitted to set screw hubs, adaptors prevent the screws from scoring the shafts and permit repeated re-positioning and easy removal of the coupling.

The adaptors feature a feathered head, which sits in the chamfer at the bore entry and prevents over-insertion.

Type	HPC251	HPC253	HPC254	HPC255
∅D	5	6.35	8	8
L	4.3	6.6	5.8	8.1
To fit bores coded	20	24	28	28
minor ∅B	Adaptor ref.			
2	HPC251-2	HPC253-2		
3	HPC251-3	HPC253-3	HPC254-3	HPC255-3
3.05	HPC251-3.05	HPC253-3.05	HPC254-3.05	HPC255-3.05
3.18	HPC251-3.18	HPC253-3.18	HPC254-3.18	HPC255-3.18
4	HPC251-4	HPC253-4	HPC254-4	HPC255-4
4.76		HPC253-4.76	HPC254-4.76	HPC255-4.76
5		HPC253-5	HPC254-5	HPC255-5
6			HPC254-6	HPC255-6
material	brass			

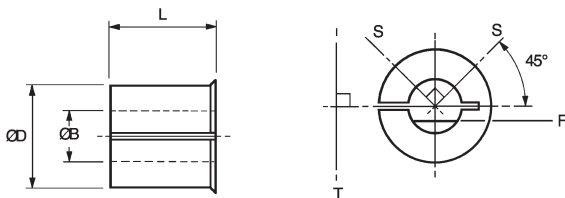
Couplings

Bore Reducers

DISCOUNTS

1 - 9	10 +
List Price	-8%

PART NUMBER	PRICE EACH 1-9	PART NUMBER	PRICE EACH 1-9	PART NUMBER	PRICE EACH 1-9	PART NUMBER	PRICE EACH 1-9
HPC251-2	£3.31	HPC253-2	£3.31	HPC254-3	£3.31	HPC255-3	£3.31
HPC251-3	£3.31	HPC253-3	£3.31	HPC254-3.05	£3.31	HPC255-3.05	£3.31
HPC251-3.05	£3.31	HPC253-3.05	£3.31	HPC254-3.18	£3.31	HPC255-3.18	£3.31
HPC251-3.18	£3.31	HPC253-3.18	£3.31	HPC254-4	£3.31	HPC255-4	£3.31
HPC251-4	£3.31	HPC253-4	£3.31	HPC254-4.76	£3.31	HPC255-4.76	£3.31
-	-	HPC253-4.76	£3.31	HPC254-5	£3.31	HPC255-5	£3.31
-	-	HPC253-5	£3.31	HPC254-6	£3.31	HPC255-6	£3.31



Bore For optimum fastening, install bore reducers as shown.

'S' represents screws in set screw hub.

'T' represents tangential screw in clamp hub.

'F' shows recommended orientation of flattened shaft in set screw hub.

Note that both traction and concentricity may be affected with using an adaptor. For best results shafts with h6 tolerance or better are recommended. Undersized shafts become progressively less effective. For similar reasons, flatted shafts with more than 1/4 of their diameter removed are not recommended.

For insulating bore adaptors, suffix part number with G.
eg. HPC257.4G

Couplings

Bore Reducers

DISCOUNTS

1 - 9	10 +
List Price	-8%

PART NUMBER	PRICE EACH 1-9	PART NUMBER	PRICE EACH 1-9	PART NUMBER	PRICE EACH 1-9
HPC257-4	£4.77	HPC259-5	£4.77	HPC260-6	£4.77
HPC257.4-76	£4.77	HPC259-6	£4.77	HPC260-6.35	£4.77
HPC257-5	£4.77	HPC259-6.35	£4.77	HPC260-7	£4.77
HPC257-6	£4.77	HPC259-7	£4.77	HPC260-7.94	£4.77
HPC257-6.35	£4.77	HPC259-7.94	£4.77	HPC260-8	£4.77
HPC257-7	£4.77	HPC259-8	£4.77	HPC260-9	£4.77
HPC257-7.94	£4.77	HPC259-9	£4.77	HPC260-9.52	£4.77
HPC257-8	£4.77	HPC259-9.52	£4.77	HPC260-10	£4.77
		HPC259-10	£4.77	HPC260-11	£4.77
				HPC260-12	£4.77
				HPC260-12.7	£4.77
				HPC260-14	£4.77

Note that both traction and concentricity may be affected with using an adaptor. For best results shafts with h6 tolerance or better are recommended. Undersized shafts become progressively less effective. For similar reasons, flatted shafts with more than 1/4 of their diameter removed are not recommended.

For insulating bore adaptors, suffix part number with G.
eg. HPC257.4G

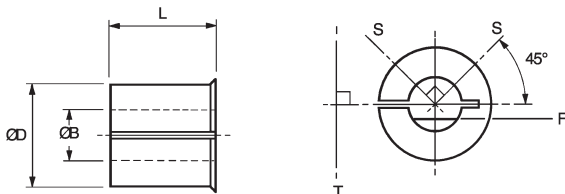
Couplings

Bore Reducers

Couplings Bore Reducers

DISCOUNTS	1 - 9	10 +
	List Price	-8%

PART NUMBER	PRICE EACH 1-9
HPC261-7.94	£8.06
HPC261-8	£8.06
HPC261-9	£8.06
HPC261-9.52	£8.06
HPC261-10	£8.06
HPC261-11	£8.06
HPC261-12	£8.06
HPC261-12.7	£8.06
HPC261-14	£8.06
HPC261-15	£8.06
HPC261-15.88	£8.06
HPC261-16	£8.06
HPC261-18	£8.06



Bore For optimum fastening, install bore reducers as shown.

'S' represents screws in set screw hub.

'T' represents tangential screw in clamp hub.

'F' shows recommended orientation of flattened shaft in set screw hub.



Couplings

Bore Reducers

Couplings Bore Reducers

Type	HPC257	HPC259	HPC260	HPC261
øD	10	12.7	16	20
L	8.1	10.7	13.2	20
To fit bores coded	32	36	42	48
minor øB	Adaptor ref.			
2				
3				
3.05				
3.17				
4	HPC257-4			
4.76	HPC257-4.76			
5	HPC257-5	HPC259-5		
6	HPC257-6	HPC259-6	HPC260-6	
6.35	HPC257-6.35	HPC259-6.35	HPC260-6.35	
7	HPC257-7	HPC259-7	HPC260-7	
7.94	HPC257-7.94	HPC259-7.94	HPC260-7.94	HPC261-7.94
8	HPC257-8	HPC259-8	HPC260-8	HPC261-8
9		HPC259-9	HPC260-9	HPC261-9
9.52		HPC259-9.52	HPC260-9.52	HPC261-9.52
10		HPC259-10	HPC260-10	HPC261-10
11			HPC260-11	HPC261-11
12			HPC260-12	HPC261-12
12.70			HPC260-12.7	HPC261-12.7
14			HPC260-14	HPC261-14
15				HPC261-15
15.87				HPC261-15.87
16				HPC261-16
18				HPC261-18
19				
19.05				
20				
22				
22.22				
24				
25				
25.40				
material	aluminium alloy			

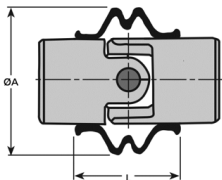
Couplings

Universal Joints Retaining Covers

Material
PVC & Neoprene

DISCOUNTS

1 - 9	List Price
10-24	-2%
25-49	-4%
50 +	-6%



PART NUMBER	Joint Size Dia.	To Fit	A	L	PRICE EACH 1-5
PVC					
HPCA9050	16	HPCME16/ HPCSME16	47.36	31.75	£18.18
HPCA9054	20	HPCME20/ HPCSME20	57.15	39.69	£22.71
HPCA9052	25	HPCME25/ HPCSME25	66.68	46.83	£24.80
HPCA9053	32	HPCME32/ HPCSME32	79.38	60.33	£32.01
HPCA9056	45	HPCME45/ HPCSME45	125.41	76.20	£35.11
HPCA9057	50	HPCME50/ HPCSME50	141.29	84.93	£39.24
HPCA9058	63	HPCME63/ HPCSME63	155.58	103.98	£42.34

PART NUMBER	Joint Size Dia.	To Fit	A	L	PRICE EACH 1-5
Neoprene					
HPCA15028	13	HPCME13/ HPCSME13	23.81	26.99	£20.30
HPCA9028	16	HPCME16/ HPCSME16	23.81	26.99	£21.68
HPCA9029	20	HPCME20/ HPCSME20	31.75	31.75	£28.39
HPCA9030	25	HPCME25/ HPCSME25	38.10	46.83	£37.58
HPCA9031	32	HPCME32/ HPCSME32	44.45	56.36	£40.02
HPCA9032	40	HPCME40/ HPCSME40	60.33	74.61	£42.59
HPCA9033	45	HPCME45/ HPCSME45	76.20	79.38	£43.89
HPCA9034	50	HPCME50/ HPCSME50	82.55	87.31	£49.05

Couplings Uni. Joints Retaining Covers



Couplings

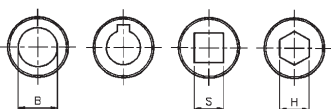
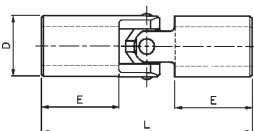
Single Universal Joints

Material
Steel & Stainless Steel



DISCOUNTS

1 - 9	List Price
10-24	-2%
25-49	-4%
50 +	-6%



* All bores supplied solid (unbored as standard).

Couplings Universal Joints

PART NUMBER		D	L	E Min	* B	'B' Max					PRICE EACH 1-5	
Steel	Stainless					MB	WK	S	H	SBT	Steel	Stainless
HPCME16	HPCSME16	16	58	19	8	10	8	-	-	45	£56.58	£128.43
HPCME20	HPCSME20	20	64	19	10	13	11	10	10	88	£57.40	£140.63
HPCME25	HPCSME25	25	86	26	12	16	14	12	12	180	£62.17	£149.82
HPCME32	HPCSME32	32	95	28	16	22	18	16	16	405	£76.49	£180.46
HPCME40	HPCSME40	40	108	30	20	25	22	19	19	860	£91.81	£235.50
HPCME45	HPCSME45	45	127	36	20	30	25	22	22	1250	£116.99	£302.74
HPCME50	HPCSME50	50	140	41	25	35	30	25	25	1730	£194.13	£394.55
HPCME63	HPCSME63	63	178	52	32	45	35	32	32	3400	£259.19	£556.49

B : Standard round bore available to order,
if required please add an additional £15.00 per end

MB : Max round bore available

WK : Max round bore available with keyway, please contact sales for a quote

S : Max square bore available, please contact sales for a quote

H : Max hexagon bore available, please contact sales for a quote

SBT: Static Breaking Torque (Nm)

3.86



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

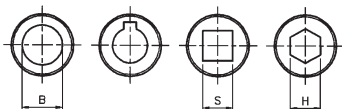
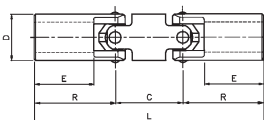
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Material

Steel & Stainless Steel

Couplings**Double Universal Joints****DISCOUNTS**

1 - 9	List Price
10-24	-2%
25-49	-4%
50 +	-6%



* All bores supplied solid (unbored as standard).

PART NUMBER		D	L	E Min	R	C	* B	'B' Max				SBT	PRICE EACH 1-5	
Steel	Stainless							MB	WK	S	H		Steel	Stainless
HPCMF16	HPCSMF16	16	83	16	28	25	8	10	8			45	£124.39	£247.25
HPCMF20	HPCSMF20	20	92	18	31	30	10	13	11	10	10	88	£127.92	£302.74
HPCMF25	HPCSMF25	25	122	25	43	36	12	16	14	12	12	180	£145.60	£339.38
HPCMF32	HPCSMF32	32	143	27.5	47.5	47	16	22	18	16	16	405	£196.65	£403.58
HPCMF40	HPCSMF40	40	164	30	54	56	20	25	22	19	19	860	£219.21	£531.98
HPCMF45	HPCSMF45	45	190	33.5	63.5	63	20	30	25	22	22	1250	£265.93	£660.37
HPCMF50	HPCSMF50	50	210	41	70	70	25	35	30	25	25	1730	£328.81	£871.40
HPCMF63	HPCSMF63	63	262	52	89	84	32	45	35	32	32	3400	£439.41	£1146.75

B : Standard round bore available to order,
if required please add an additional £15.00 per end

MB : Max round bore available

WK : Max round bore available with keyway, please contact sales for a quote

S : Max square bore available, please contact sales for a quote

H : Max hexagon bore available, please contact sales for a quote

SBT : Static Breaking Torque (Nm)



Couplings

Material

Single Universal Joints

Acetal Body



Materials & Finishes

Bodies: Acetal

Cross-pieces: Brass BS 2874 CZ121, CZ122, (HPC101, HPC103, HPC109, HPC111)

Bore Inserts: Brass BS 2874 CZ121 (HPC103, HPC111)
Al. Alloy 2014A T6 (HPC105)

Fasteners: Alloy steel, black oiled

General description

Light duty plastic universal joints.

Low mass, corrosion resistant, ideal where conventional steel joints would be under-utilised.

Where to use

Intermittent applications in business machines, instrumentation, lab equipment, analytical apparatus, etc., where steel joints would be under-utilised.

Speeds

Up to 1000 rpm

Electrically isolating

Yes

Peak torque largest size

10.7 Nm

Connection

Set Screw, Bonding or Cross-Pinning

Standard bores

3 to 20 mm

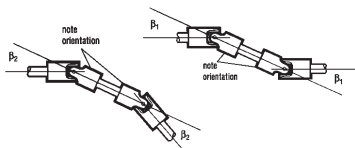
Temperature range

-20 °C to +60 °C

Constant velocity

The velocity ratio of single universal joints is not constant when the working angle is greater than zero. Their geometry gives rise to sinusoidal fluctuations at the output that increase with the working angle and which vary between:

$\omega \cos \beta$ and $\omega \sec \beta$
 where ω = angular velocity
 and β = operating angle



For example, when the operating angle is 5° , the maximum error is $\pm 0.4\%$; at 7° it is $\pm 0.8\%$, and at 10° it is $\pm 1.5\%$. A motor shaft turning at a constant 1000 rpm, driving through a single universal joint set at an operating angle of 5° , produces an output that fluctuates between 996 rpm and 1004 rpm twice each revolution. The fluctuations are cancelled out when using a double joint or two single joints connected back to back.

To maintain constant velocity ratio, ensure that:

- The orientation of two single joints is correct; the inboard forks should align as in double joints.
- The working angle of both joints, or both halves of a double joint, is the same.

Adjustable Torque

Peak torque values apply when the working angle is zero. Adjusted torque takes account of dynamic loading at the bearings. To find adjusted torque, determine application speed, torque and operating angle,

Then:

- multiply speed x working angle
- subtract the result from 10000
- divide the answer into 10000
- apply the result to the application torque.

eg. speed = 400 rpm

application torque = 0.1Nm

working angle = 20°

Accordingly:

- $400 \text{ rpm} \times 20^\circ = 8000$
- $10000 - 8000 = 2000$
- $10000 / 2000 = 5$
- $5 \times 0.1 \text{ Nm} = 0.5 \text{ Nm}$

Select a joint where Peak Torque exceeds 0.5Nm, ie., size 13 or larger.

Note: To remain within the capacity of the joint, the result of speed x working angle must be less than 10000.

Couplings

Material

Single Universal Joints

Acetal Body

Single Joints - Performance (At 20° C)

Couplings Universal Joints

Coupling Size	Brass Cross-piece HPC101, HPC103, HPC105				Max angular compensation @ 1000 rev/min
	Peak Torque (Nm)	Static Break Torque Nm	Torsional rate deg/Nm	Torsional Stiffness Nm/rad	
06	0.11	0.45	19.7	2.9	45
09	0.36	1.9	6.8	8.4	45
13	0.85	4.5	3.2	18	45
16	1.6	6.8	1.7	34	45
20	2.8	17	0.94	61	40
25	5.6	34	0.51	112	40
32	10.7	72	0.25	229	40

Standard Bores

Coupling Size	Bore tolerances HPC101 = +0.04/-0.0mm HPC103 = +0.03/-0.0mm									
	3	3.175	4	4.763	5	6	6.350	8	9.525	10
06	●	●	●	●						
09	●	●	●	●	●	●	●			
13			●	●	●	●	●	●		
16						●	●	●	●	●
20								●	●	●
25										●
32										
<i>Bore ref.</i>	14	16	18	19	20	22	24	28	31	32

●	Moulded bores only	●	Sleeved bores only	●	Moulded or sleeved bores only
---	--------------------	---	--------------------	---	-------------------------------

3.90



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Material

Acetal Body

Couplings**Single Universal Joints****Couplings Universal Joints**

Coupling Size	Bore tolerances HPC101 = +0.04/-0.0mm HPC103 = +0.03/-0.0mm									
	Bore Size	12	12.7	14	15.875	16	18	19	19.05	20
06										
09										
13										
16										
20		•								
25	•	•								
32			•	•	•	•	•	•	•	•
<i>Bore ref.</i>	35	36	38	41	42	45	46	47	48	



Couplings

Material

Single Universal Joints

Acetal Body

Single Joints - Dimensions and Order Codes

Couplings Universal Joints

1



PART NUMBER	Dimensions							Moment of inertia Kgm ² x 10 ⁻⁸
¹ Brass Cross-piece	Coupling Type & Size	OD	L	L1	L2	L3	B1, B2 Max	
HPC101.06.----	06	7.1	19.1	3.3	5.3	8.6	4.76	0.3
HPC103.06.----			27.2	-	9.3		3.18	1.1
HPC101.09.----	09	11.1	28.5	4.3	8.6	11.4	6.35	4.0
HPC103.09.----			37.6	-	13.1		5.0	13.5
HPC101.13.----	13	14.3	35.6	5.6	10.4	14.8	8.0	14.3
HPC103.13.----			46.2	-	15.7		6.35	44.6
HPC101.16.----	16	17.5	53.3	8.9	15.2	23.0	11.0	32.3
HPC103.16.----			67.6	-	22.3		10.0	136
HPC105.20.----	20	23.0	62.0	8.0	17.0	28.0	12.7	147
HPC105.25.----	25	28.5	74.0	10.0	20.0	34.0	14	463
HPC105.32.----	32	36.5	86.0	10.0	21.0	44.0	20	1339

Order codes: Please combine the universal joint part number in the above table with the bore reference in the standard bores table (see pages 3.90 & 3.91).

Please identify both bores to complete the part number eg. HPC101.06.14 19

Part Number ØB1 ØB2

3.92



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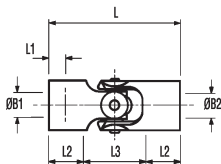
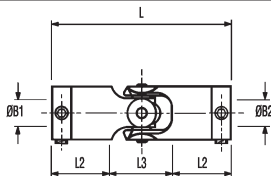
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Material

Acetal Body

Couplings**Single Universal Joints****DISCOUNTS**

1 - 5	6-15	16-40	41-99	100 +
List Price	-5%	-10%	-15%	-20%

**Type HPC101, HPC105****Type HPC103**

Fasteners			Mass kg $\times 10^{-3}$	PART NUMBER	PRICE EACH 1-5
Size	Torque (Nm)	A/F (mm)		Size	
-	-	-	0.7	HPC101.06.----	£6.03
M3	0.94	1.5	3.1	HPC103.06.----	£17.05
-	-	-	2.7	HPC101.09.----	£5.75
M3	0.94	1.5	9.3	HPC103.09.----	£17.05
-	-	-	5.7	HPC101.13.----	£6.21
M3	0.94	1.5	17.7	HPC103.13.----	£19.68
-	-	-	12.2	HPC101.16.----	£6.79
M4	2.27	2.0	35.0	HPC103.16.----	£22.46
-	-	-	25.7	HPC105.20.----	£19.78
-	-	-	56	HPC105.25.----	£25.38
-	-	-	103	HPC105.32.----	£24.73

Couplings Universal Joints

Couplings

Material

Double Universal Joints

Acetal Body



Materials & Finishes

Bodies: Acetal

Cross-pieces: Brass BS 2874 CZ121, CZ122, (HPC101, HPC103, HPC109, HPC111)

Bore Inserts: Brass BS 2874 CZ121 (HPC103, HPC111)
Al. Alloy 2014A T6 (HPC105)

Fasteners: Alloy steel, black oiled

General description

Light duty plastic universal joints.

Low mass, corrosion resistant, ideal where conventional steel joints would be under-utilised.

Where to use

Intermittent applications in business machines, instrumentation, lab equipment, analytical apparatus, etc., where steel joints would be under-utilised.

Speeds

Up to 1000 rpm

Electrically isolating

Yes

Peak torque largest size

10.7 Nm

Connection

Set Screw, Bonding or Cross-Pinning

Standard bores

3 to 20 mm

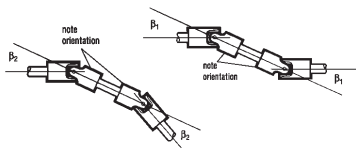
Temperature range

-20 °C to +60 °C

Constant velocity

The velocity ratio of single universal joints is not constant when the working angle is greater than zero. Their geometry gives rise to sinusoidal fluctuations at the output that increase with the working angle and which vary between:

$\omega \cos \beta$ and $\omega \sec \beta$
 where ω = angular velocity
 and β = operating angle



For example, when the operating angle is 5° , the maximum error is $\pm 0.4\%$; at 7° it is $\pm 0.8\%$, and at 10° it is $\pm 1.5\%$. A motor shaft turning at a constant 1000 rpm, driving through a single universal joint set at an operating angle of 5° , produces an output that fluctuates between 996 rpm and 1004 rpm twice each revolution. The fluctuations are cancelled out when using a double joint or two single joints connected back to back.

To maintain constant velocity ratio, ensure that:

- The orientation of two single joints is correct; the inboard forks should align as in double joints.
- The working angle of both joints, or both halves of a double joint, is the same.

Adjustable Torque

Peak torque values apply when the working angle is zero. Adjusted torque takes account of dynamic loading at the bearings. To find adjusted torque, determine application speed, torque and operating angle,

Then:

- multiply speed x working angle
- subtract the result from 10000
- divide the answer into 10000
- apply the result to the application torque.

eg. speed = 400 rpm

application torque = 0.1Nm

working angle = 20°

Accordingly:

- $400 \text{ rpm} \times 20^\circ = 8000$
- $10000 - 8000 = 2000$
- $10000 / 2000 = 5$
- $5 \times 0.1 \text{ Nm} = 0.5 \text{ Nm}$

Select a joint where Peak Torque exceeds 0.5Nm, ie., size 13 or larger.

Note: To remain within the capacity of the joint, the result of speed x working angle must be less than 10000.

Couplings

Material

Double Universal Joints

Acetal Body

Standard Bores

Coupling Size	Bore tolerances HPC101 = +0.04/-0.0mm HPC103 = +0.03/-0.0mm											
	Bore Size	3	3.175	4	4.763	5	6	6.350	8	9.525	10	
06	●	●	●	●								
09	●	●	●	●	●	●	●					
13			●	●	●	●	●	●				
16						●	●	●	●	●	●	
20								●	●	●	●	
25											●	
32												
Bore ref.	14	16	18	19	20	22	24	28	31	32		
●	Moulded bores only		●			Sleeved bores only		●				Moulded or sleeved bores only

Material

Acetal Body

Couplings**Double Universal Joints**

Coupling Size	Bore Size								
	12	12.7	14	15.875	16	18	19	19.05	20
06									
09									
13									
16									
20		•							
25	•	•							
32			•	•	•	•	•	•	•
<i>Bore ref.</i>	35	36	38	41	42	45	46	47	48

Couplings Universal Joints

Couplings

Material

Double Universal Joints

Acetal Body

Double Joints - Dimensions and Order Codes

Couplings Universal Joints

1



PART NUMBER	Coupling Type & Size	Dimensions						B1, B2 Max	Mi
		OD	L	L1	L2	L3	L4		
HPC109.06.----	06	7.1	27.2	3.3	5.3	16.7	8.1	4.76	0.6
HPC111.06.----			35.3	-	9.3			3.18	1.3
HPC109.09.----	09	11.1	41.7	4.3	8.6	24.6	13.2	6.35	5.9
HPC111.09.----			50.8	-	13.1			5.0	15.3
HPC109.13.----	13	14.3	51.4	5.6	10.4	30.7	15.9	8.0	23.7
HPC111.13.----			62.1	-	15.7			6.35	50.4
HPC109.16.----	16	17.5	75.5	8.9	15.2	45.2	22.2	11.0	63.5
HPC111.16.----			89.8	-	22.3			10.0	178.0

Order codes: Please combine the universal joint part number in the above table with the bore reference in the standard bores table (see pages 3.96 & 3.97). Please identify both bores to complete the part number eg. HPC109.06. 14 19

Mi: Moment of inertia $kgm^2 \times 10^{-8}$

Part Number $\emptyset B1 \emptyset B2$

3.98



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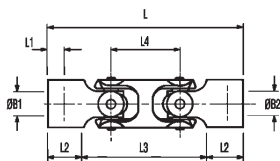
Material

Acetal Body

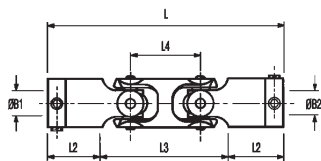
Double Universal Joints

DISCOUNTS

1 - 5	6-15	16-40	41-99	100 +
List Price	-5%	-10%	-15%	-20%



Type HPC109



Type HPC111

Fasteners			Mass kg $\times 10^{-3}$	PART NUMBER	PRICE EACH 1-19
Size	Torque (Nm)	A/F (mm)		Size	
-	-	-	1.1	HPC109.06.----	£11.62
M3	0.94	1.5	3.5	HPC111.06.----	£19.56
-	-	-	4.5	HPC109.09.----	£10.48
M3	0.94	1.5	11.1	HPC111.09.----	£19.56
-	-	-	9.6	HPC109.13.----	£11.62
M3	0.94	1.5	21.6	HPC111.13.----	£24.03
-	-	-	19.7	HPC109.16.----	£12.55
M4	2.27	2.0	42.4	HPC111.16.----	£27.22

Couplings Universal Joints



Couplings

Universal Joints, Brass Cross Pieces and Tubes



Materials & Finishes

Bodies: Acetal

Cross-pieces: Brass BS 2874 CZ121 CZ122, (HPC101, HPC103, HPC109, HPC111)

Bore Inserts: Brass BS 2874 CZ121 (HPC103, HPC111)
Al. Alloy 2014A T6 (HPC105)

Fasteners: Alloy steel, black oiled

General description

Light duty plastic universal joints.

Low mass, corrosion resistant, ideal where conventional steel joints would be under-utilised.

Where to use

Intermittent applications in business machines, instrumentation, lab equipment, analytical apparatus, etc., where steel joints would be under-utilised.

Speeds

Up to 1000 rpm

Electrically isolating

Yes

Peak torque largest size

10.7 Nm

Connection

Set Screw, Bonding or Cross-Pinning

Standard bores

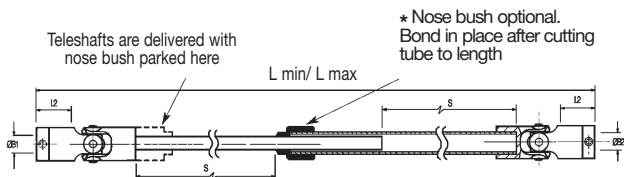
3 to 20 mm

Temperature range

-20 °C to +60 °C

Couplings

Universal Joints, Brass Cross Pieces and Tubes

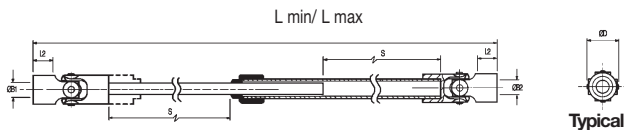


Refs. HPC128 & HPC495

Joints sleeved with headed brass inserts fitted 2 screws per end

**End A
(inner tube)**

**End B
(outer tube)**



Refs. HPC130 & HPC497

Joints sleeved with metal inserts. Attached to shafts by cross-pinning or bonding

Couplings

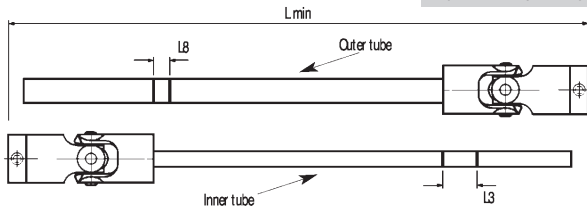
Universal Joints, Brass Cross Pieces and Tubes

Extensible drive shafts (teleshafts), are useful when the distance between actuator and load varies during operation, or needs to accommodate component variances, or when a quick disconnect facility is needed in the drive line.

HPC teleshafts are in keeping with the light duty capabilities of plastics universal joints and employ precision drawn square brass tubes as the telescoping medium. These can easily be cut by the user to provide an extensible drive shaft with customised dimensions.

There are 2 ways to arrive at a customised teleshaft: empirically (shown below), or with tables that provide all necessary data on stroke and tube lengths for teleshafts with and without nose bushes up to 520mm retracted length.

Size	L3	L8
09	8.6	3.2
13	10.4	4.3
16	15.2	6.1
20	17.0	8.2
25	20.0	10.3
32	21.0	18.0



Standard Bores

Bore Size	ØB1, ØB2 + 0.03 / - 0 mm						
	3.175	4	4.763	5	6	6.350	8
Coupling Size							
09	●	●	●	●			
13		●	●	●	●	●	
16					●	●	●
20							
25							
32							
Bore ref.	16	18	19	20	22	24	28
Corresponding bore adaptor				251		253	255

Diameters for which a bore adaptor is shown can be adapted to smaller shaft sizes. See page 3.84 for details.

Universal Joints, Brass Cross Pieces and Tubes

Empirical method (based on the retracted length)

- Disengage the teleshaft, remove the nose bush parked on the inner tube and keep it in case you need to use it later. Then lay the 2 halves of the teleshaft side by side.
- Slide one half alongside the other so that overall length L min matches the intended length of the teleshaft when fully retracted. With a felt tip pen, draw a line across the outer tube at the point where this is level with the inboard end of the universal joint.
- If you are sure that the teleshaft will satisfactorily extend the required amount, cut the tube at the line.
- Mark the inner tube in the same way, then add an amount equivalent to dimension L3 for your teleshaft size and draw a second line. Cut the tube at this second line.
- Now re-engage the tubes, taking care to orientate them correctly so that the inboard forks of the joints are in the same plane, and retract the teleshaft. The overall length should be as intended, and both tubes should bottom out simultaneously.
- If required, the nose bush can now be fitted by bonding it to the outer tube with an instant adhesive, (factory fitted bushes are retained by a barbing technique). The bush will add an amount equivalent to dimension L8 to the retracted length. Cutting this amount from the outer tube will reinstate the intended retracted length.
- The purpose of the nose bush is to eliminate any torsional free play that may be apparent in the tubes due to working clearances.

Coupling Size	Bore Size							
	ØB1, ØB2 + 0.03 / - 0 mm							
	9.525	10	12	12.7	15.875	16	19.05	20
09								
13								
16	●	●						
20	●	●						
25			●	●				
32					●	●	●	●
<i>Bore ref.</i>	31	32	35	36	41	42	47	48
<i>Corresponding bore adaptor</i>		257		259		260		261

Couplings

Universal Joints, Brass Cross Pieces and Tubes

Dimensions and Order Codes

PART NUMBER		Teleshaft Size	ØD	L ±1.0 min	L max	Stroke S	L2
① Standard tubes self-colour brass	Wear-resistant tubes Niflor coated						
HPC128.09.240.-----	HPC495.09.240.-----	09	11.1	240	389	149	13.1
HPC128.13.300.-----	HPC495.13.300.-----	13	14.3	300	484	184	15.7
HPC128.16.450.-----	HPC495.16.450.-----	16	17.5	450	730	280	22.3
HPC130.20.464.-----	HPC497.20.464.-----	20	23.0	464	745	281	17.0
HPC130.25.500.-----	HPC497.25.500.-----	25	28.5	500	784	284	20.0
HPC130.32.564.-----	HPC497.32.564.-----	32	36.5	564	868	304	21.0

① Niflor is a proprietary PTFE impregnated electroless nickel plating process.

② Max shaft penetration.

③ Values apply with max bores.

• A range of standard telescopes is available which can be shortened to achieve an infinite number of length/stroke requirements. The lengths L min shown in the table above are the longest of the standard range in each size. Specific lengths are produced by cutting an equal amount from both ends of the nearest standard size. See next page for recommended procedure.

• Custom Teleshaft assemblies can be factory made subject to minimum order quantities.

• *The nose bush eliminates any torsional free play that may be apparent in the tubes due to working clearances.

• Full details of the standard range and product order codes are available on request. Please ask for a HPC Teleshaft data sheet.

Order codes: Please combine the universal joint part number in the above table with the bore reference in the standard bores table (see pages 3.102 & 3.103).

Please identify both bores to complete the part number eg. HPC128.09.240. 18 20

Part Number ØB1 ØB2

Teleshaft Size	ØB1,	Mass kg x 10 ⁻³ ③	PART NUMBER	PRICE EACH 1-5	PART NUMBER	PRICE EACH 1-5
	ØB2 max		① Standard tubes self-colour brass		Wear-resistant tubes Niflor coated	
09	240	149	HPC128.09.240.----	£36.51	HPC495.09.240.----	£40.20
13	300	184	HPC128.13.300.----	£41.94	HPC495.13.300.----	£52.57
16	450	280	HPC128.16.450.----	£45.86	HPC495.16.450.----	£62.75
20	464	281	HPC130.20.464.----	£52.36	HPC497.20.464.----	£75.95
25	500	284	HPC130.25.500.----	£72.89	HPC497.25.500.----	£109.13
32	564	304	HPC130.32.564.----	£80.29	HPC497.32.564.----	£140.08

How to order customised teleshafts

Please specify your teleshaft by completing the questionnaire.

Teleshaft size

Teleshaft ref.

Bore diameter End A

Bore diameter End B

Fitted nose bush (end B only)

Speed of rotation rpm

Please specify:

L min and/or

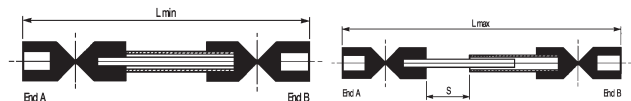
L max and/or

Stroke S

If more than one parameter is specified, which one is critical?

Please quote pcs

Projected annual qtys pcs



Couplings

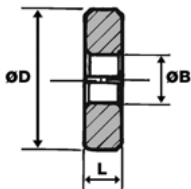
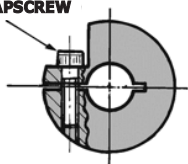
Material

Hub Clamps

Stainless Steel, Mild Steel



CAPSCREW



Couplings Hub Clamps

DISCOUNTS	1-5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	C	Available Bores ØB	CM	W	M	PRICE EACH 1-5
STAINLESS								
HPCCC3	16	5	M3	Ø3, Ø4, Ø5, Ø6	Ø21	7	1.39 x 10 ⁻⁷	£16.41
HPCCC5	22	5	M3	Ø5, Ø6, Ø7, Ø8	Ø26	12	4.52 x 10 ⁻⁷	£18.83
HPCCC8	25	8	M4	Ø8, Ø9, Ø10	Ø32	25	1.30 x 10 ⁻⁶	£20.83
HPCCC10	30	8	M4	Ø10, Ø11, Ø12, Ø13	Ø35	35	2.55 x 10 ⁻⁶	£20.83
HPCCC12	32	10	M5	Ø12, Ø13, Ø14, Ø15	Ø37	46	4.30 x 10 ⁻⁶	£23.40
HPCCC15	35	10	M5	Ø15, Ø16, Ø17, Ø18	Ø40	57	5.93 x 10 ⁻⁶	£24.91
HPCCC20	38	10	M5	Ø19, Ø20, Ø22, Ø23	Ø43	65	7.73 x 10 ⁻⁶	£27.09
MILD STEEL								
HPCCC25	48	15	M6	Ø25	Ø57	140	2.97 x 10 ⁻⁵	£33.33
HPCCC30	55	15	M6	Ø30	Ø62	180	4.88 x 10 ⁻⁵	£38.83
HPCCC35	60	15	M6	Ø35	Ø65	203	6.63 x 10 ⁻⁵	£47.47
HPCCC40	65	15	M6	Ø40	Ø72	222	8.84 x 10 ⁻⁵	£54.93

C : Capscrew

CM : Clearance Min.

W : Weight (g)

M : Moment of Inertia (kg.m²)

When ordering add bore diameter to part number

eg. CC10 with 12mm bore = CC10-12

3.106



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

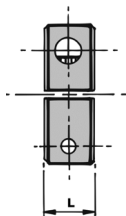
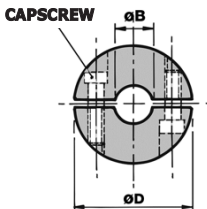
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Material

Stainless Steel, Mild Steel

Couplings

Hub Clamps



Couplings Hub Clamps

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	C	Available Bores ØB	CM	W	M	PRICE EACH 1-5
STAINLESS								
HPCCT3	16	5	M3	Ø3, Ø4, Ø5	Ø21	7	1.23 x 10 ⁻⁷	£16.44
HPCCT3-6	16	5	M3	Ø6	Ø21	7	1.23 x 10 ⁻⁷	£16.44
HPCCT5	22	5	M3	Ø5, Ø6, Ø7	Ø26	11	4.16 x 10 ⁻⁷	£18.83
HPCCT5-8	22	5	M3	Ø8	Ø26	11	4.16 x 10 ⁻⁷	£18.83
HPCCT8	25	8	M4	Ø8, Ø9, Ø10	Ø32	23	1.23 x 10 ⁻⁶	£20.83
HPCCT10	30	8	M4	Ø10, Ø11, Ø12, Ø13	Ø35	32	2.52 x 10 ⁻⁶	£20.83
HPCCT12	32	10	M5	Ø12, Ø13, Ø14, Ø15	Ø37	50	4.14 x 10 ⁻⁶	£23.40
HPCCT15	38	10	M5	Ø15, Ø16, Ø17, Ø18	Ø40	65	7.81 x 10 ⁻⁶	£24.91
HPCCT17	40	10	M5	Ø17, Ø18, Ø19, Ø20	Ø43	68	9.17 x 10 ⁻⁶	£27.10
HPCCT20	43	10	M5	Ø19, Ø20, Ø22, Ø23	Ø43	83	1.25 x 10 ⁻⁵	£30.10
MILD STEEL								
HPCCT25	48	15	M6	Ø25	Ø57	148	2.72 x 10 ⁻⁵	£38.37
HPCCT30	55	15	M6	Ø30	Ø62	188	4.41 x 10 ⁻⁵	£47.08
HPCCT35	60	15	M6	Ø35	Ø65	210	6.05 x 10 ⁻⁵	£55.12
HPCCT40	65	15	M6	Ø40	Ø72	213	8.05 x 10 ⁻⁵	£63.35

C : Capscrew

CM : Clearance Min.

W : Weight (g)

M : Moment of Inertia (kg.m²)

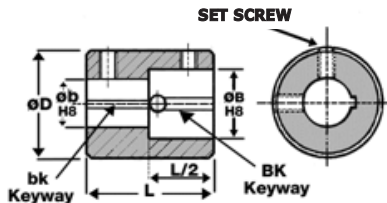


Couplings

Material

Shaft Couplings

Mild Steel 045M10 (EN32)



Couplings Shaft Clamps

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	øB H8	øB MA	K BK	øb H8	K bk	S	MO	W	PRICE EACH 1-5
HPCAF10	20	30	10	10.0	3	10	3	M4	3.39×10^{-6}	53	£22.87
HPCAF12-10/12	28	36	12	12.0	4	10	3	M5	1.62×10^{-5}	135	£24.34
HPCAF12	28	36	12	12.0	4	12	4	M5	1.62×10^{-5}	138	£24.34
HPCAF15-10/15	28	36	15	15.0	5	10	3	M5	1.53×10^{-5}	129	£24.34
HPCAF15-12/15	28	36	15	15.0	5	12	4	M5	1.53×10^{-5}	123	£24.34
HPCAF15	28	36	15	15.0	5	15	5	M5	1.53×10^{-5}	117	£24.34
HPCAF20-15/20	32	40	20	20.0	6	15	5	M6	2.65×10^{-5}	167	£30.75
HPCAF20	32	40	20	20.0	6	20	6	M6	2.65×10^{-5}	145	£30.75
HPCAF24	40	54	24	24.0	8	24	8	M6	8.99×10^{-5}	349	£35.76
HPCAF25-20/25	40	54	25	25.0	8	20	6	M8	8.71×10^{-5}	343	£35.76
HPCAF25	40	54	25	25.0	8	25	8	M8	8.71×10^{-5}	300	£35.76
HPCAF30-25/30	50	54	30	30.0	8	25	8	M8	2.21×10^{-4}	552	£39.35
HPCAF30	50	54	30	30.0	8	30	8	M8	2.21×10^{-4}	505	£39.35

MA: Maximum Available

K : Keyway

S : Set screw

MO: Moment of Inertia (kg.m²)

W : Weight (g)

3.108



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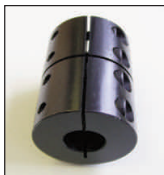
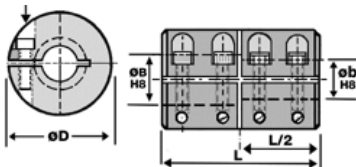
Material

Mild Steel 045M10 (EN32)

Couplings

Shaft Clamps

SET SCREW



Couplings Shaft Clamps

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	øB H8	øB MA	øb H8	S	MO	W	PRICE EACH 1-5
HPCSC5	22	30	5	10.0	5	M3	4.92×10^{-6}	75	£21.69
HPCSC5-5/6	22	30	6	10.0	5	M3	4.92×10^{-6}	75	£27.88
HPCSC6	22	30	6	10.0	6	M3	4.99×10^{-6}	71	£27.88
HPCSC8-6/8	22	30	8	10.0	6	M3	5.08×10^{-6}	70	£27.88
HPCSC8	22	30	8	10.0	8	M3	5.08×10^{-6}	70	£27.88
HPCSC10-8/8	30	40	8	13.0	8	M4	2.27×10^{-5}	182	£35.78
HPCSC10	30	40	10	13.0	10	M4	2.27×10^{-5}	177	£35.78
HPCSC12-10/10	36	50	10	19.5	10	M5	6.06×10^{-5}		£37.43
HPCSC12-10/12	36	50	12	19.5	10	M5	6.06×10^{-5}	343	£37.43
HPCSC12	36	50	12	19.5	12	M5	6.06×10^{-5}	330	£37.43
HPCSC15-12/12	40	50	12	23.0	12	M5	9.13×10^{-5}		£44.63
HPCSC15-12/15	40	50	15	23.0	12	M5	9.13×10^{-5}	360	£44.63
HPCSC15	40	50	15	23.0	15	M5	9.13×10^{-5}	376	£44.63
HPCSC20-15/15	50	65	15	25.0	15	M6	2.81×10^{-4}		£49.39
HPCSC20-15/20	50	65	20	25.0	15	M6	2.81×10^{-4}	850	£49.39
HPCSC20	50	65	20	25.0	20	M6	2.81×10^{-4}	830	£49.39
HPCSC25-20/20	60	65	20	33.0	20	M8	5.79×10^{-4}		£91.36
HPCSC25-20/25	60	65	25	33.0	20	M8	5.79×10^{-4}	1100	£91.36
HPCSC25	60	65	25	33.0	25	M8	5.79×10^{-4}	1100	£91.36
HPCSC30-25/25	70	80	25	43.0	25	M8	1.33×10^{-3}		£102.46
HPCSC30-25/30	70	80	30	43.0	25	M8	1.33×10^{-3}	1800	£102.46
HPCSC30	70	80	30	43.0	30	M8	1.33×10^{-3}	1800	£102.46

MA : Maximum Available
MO : Moment of Inertia (kg.m²)

S : Set screw
W : Weight (g)

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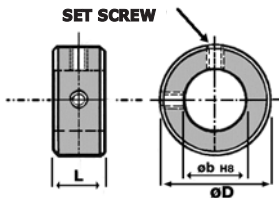
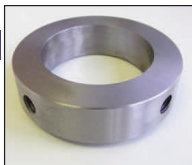


3.109

Couplings

Set Screw Shaft Collars

Stainless Steel, Mild Steel



Couplings Set Screw Shaft Collars

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	øb H8	S	MO	ST*	TL	W	PRICE EACH 1-5
STAINLESS									
HPCCJ3	10	6	3	M2.5	3.33×10^{-8}	0.90	600	3	£7.51
HPCCJ4	14	6	4	M3	1.09×10^{-7}	3.50	1600	6	£7.51
HPCCJ5	16	6	5	M3	1.78×10^{-7}	4.00	1600	8	£7.51
HPCCJ6	16	6	6	M3	1.75×10^{-7}	5.25	1600	8	£7.51
HPCCJ8	20	8	8	M4	5.75×10^{-7}	12.50	3000	16	£9.24
HPCCJ10	20	8	10	M4	5.49×10^{-7}	15.50	3000	14	£9.24
HPCCJ12	28	10	12	M5	2.66×10^{-6}	28.00	4800	38	£12.27
HPCCJ15	28	10	15	M5	2.51×10^{-6}	36.00	4800	33	£12.27
HPCCJ18	32	12	18	M6	5.09×10^{-6}	60.00	6600	48	£13.47
HPCCJ20	32	12	20	M6	4.78×10^{-6}	67.00	6600	43	£13.47
MILD STEEL									
HPCCJ24	40	15	22	M8	1.51×10^{-5}	125.00	11000	99	£13.83
HPCCJ24	40	15	24	M8	1.45×10^{-5}	139.00	11000	88	£13.83
HPCCJ25	40	15	25	M8	1.41×10^{-5}	145.00	11000	85	£13.83
HPCCJ26	40	15	26	M8	1.36×10^{-5}	150.00	11000	80	£13.83
HPCCJ28	50	15	28	M8	3.49×10^{-5}	160.00	11000	150	£16.59
HPCCJ30	50	15	30	M8	3.37×10^{-5}	174.00	11000	140	£16.59

S : Set screw

MO : Moment of Inertia (kg.m²)

ST : Static Torque (Nm)

TL : Static Axial Thrust Load (N)

W : Weight (g)

* For reference only - Static Torque and Axial Load using steel cup point grub screw onto a soft steel shaft. Variations on figures can be ±50%. Figures to be used as a guide only to conduct your own tests for your individual application.

Performance

Grubscrew Tightening Torques: M2.5 = 0.6Nm, M3 = 1Nm, M4 = 2.5Nm, M5 = 4.7Nm, M6 = 7.7Nm, M8 = 17.8Nm, M10 = 35Nm, M12 = 55Nm.

3.110

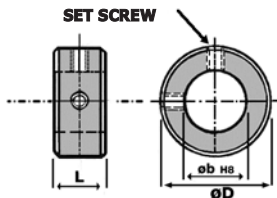


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Material

Stainless Steel, Mild Steel

Couplings**Set Screw Shaft Collars****Couplings Set Screw Shaft Collars**

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
List Price		-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	Øb H8	S	MO	ST*	TL	W	PRICE EACH 1-5
MILD STEEL									
HPCCJ35	60	15	35	M8	6.92×10^{-5}	200.00	11000	208	£17.57
HPCCJ40	60	15	40	M8	6.28×10^{-5}	232.00	11000	200	£17.57
HPCCJ45	70	15	45	M8	1.18×10^{-4}	260.00	11000	258	£25.04
HPCCJ50	70	15	50	M8	1.05×10^{-4}	290.00	11000	216	£25.04
HPCCJ55	90	20	55	M10	4.50×10^{-4}	514.00	11000	611	£34.63
HPCCJ60	90	20	60	M10	4.20×10^{-4}	560.00	18000	544	£34.63
HPCCJ65	98	24	65	M12	7.02×10^{-4}	864.00	18000	778	£37.45
HPCCJ70	98	24	70	M12	6.43×10^{-4}	931.00	26000	685	£37.45
HPCCJ75	108	24	75	M12	9.78×10^{-4}	997.00	26000	878	£43.58
HPCCJ80	108	24	80	M12	8.90×10^{-4}	1064.00	26000	766	£43.58
HPCCJ85	118	24	85	M12	1.32×10^{-3}	1130.00	26000	973	£53.34
HPCCJ90	118	24	90	M12	1.19×10^{-3}	1197.00	26000	848	£53.34
HPCCJ100	150	24	100	M12	3.75×10^{-3}	1330.00	26000	1806	£75.84
HPCCJ120	180	24	120	M12	7.76×10^{-3}	1596.00	26000	2611	£81.39
HPCCJ150	200	24	150	M12	10.06×10^{-2}	1995.00	26000	2546	£86.22
HPCCJ200	250	24	200	M12	21.20×10^{-2}	2660.00	26000	3285	£125.81

S : Set screw**MO** : Moment of Inertia (kg.m^2)**ST** : Static Torque (Nm)**TL** : Static Axial Thrust Load (N)**W** : Weight (g)

* For reference only - Static Torque and Axial Load using steel cup point grub screw onto a soft steel shaft. Variations on figures can be $\pm 50\%$. Figures to be used as a guide only to conduct your own tests for your individual application.

Performance

Grub screw Tightening Torques: M2.5 = 0.6Nm, M3 = 1Nm, M4 = 2.5Nm, M5 = 4.7Nm, M6 = 7.7Nm, M8 = 17.8Nm, M10 = 35Nm, M12 = 55Nm.

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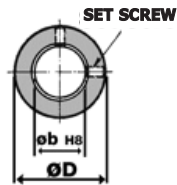
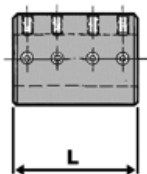
**3.111**

Couplings

Material

Set Screw Shaft Collars

Mild Steel



Couplings Set Screw Shaft Collars

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100-499	500-999	1000+
	List Price	-10%	-20%	-30%	-35%	-40%	-50%	-60%

PART NUMBER	ØD	L	øb H8	S	MO	ST*	TL	W	PRICE EACH 1-5
HPCCL3	10	20	3	M2.5	1.47 x 10 ⁻⁷	1.8	600	12	£16.58
HPCCL4	14	20	4	M3	5.73 x 10 ⁻⁷	7.0	1600	21	£16.58
HPCCL5	15	24	5	M3	8.99 x 10 ⁻⁷	8.8	1600	28	£16.58
HPCCL6	16	24	6	M3	1.16 x 10 ⁻⁶	10.5	1600	32	£16.58
HPCCL8	20	30	8	M4	3.51 x 10 ⁻⁶	25.0	3000	60	£18.80
HPCCL10	20	30	10	M4	3.39 x 10 ⁻⁶	31.0	3000	53	£18.80
HPCCL12	28	36	12	M5	1.61 x 10 ⁻⁵	57.6	4800	136	£21.33
HPCCL15	28	36	15	M5	1.54 x 10 ⁻⁵	72.0	4800	121	£24.20
HPCCL18	32	40	18	M6	2.87 x 10 ⁻⁵	121.0	6600	167	£24.20
HPCCL20	32	40	20	M6	2.71 x 10 ⁻⁵	135.0	6600	145	£24.20
HPCCL22	40	54	22	M8	9.48 x 10 ⁻⁵	225.0	11000	344	£27.16
HPCCL24	40	54	24	M8	9.12 x 10 ⁻⁵	278.0	11000	316	£27.16
HPCCL25	40	54	25	M8	8.90 x 10 ⁻⁵	290.0	11000	302	£27.16
HPCCL26	40	54	26	M8	8.65 x 10 ⁻⁵	301.0	11000	290	£27.16
HPCCL28	50	54	28	M8	2.30 x 10 ⁻⁴	324.0	11000	535	£30.64
HPCCL30	50	54	30	M8	2.22 x 10 ⁻⁴	348.0	11000	502	£30.64
HPCCL35	60	54	35	M8	4.21 x 10 ⁻⁴	406.0	11000	752	£32.16
HPCCL40	60	54	40	M8	3.73 x 10 ⁻⁴	464.0	11000	635	£32.16

S : Set screw

MO : Moment of Inertia (kg.m²)

ST : Static Torque (Nm)

TL : Static Axial Thrust Load (N)

W : Weight (g)

* For reference only - Static Torque and Axial Load using steel cup point grub screw onto a soft steel shaft. Variations on figures can be ±50%. Figures to be used as a guide only to conduct your own tests for your individual application.

Performance

Grubscrew Tightening Torques: M2.5 = 0.6Nm, M3 = 1Nm, M4 = 2.5Nm, M5 = 4.7Nm, M6 = 7.7Nm, M8 = 17.8Nm, M10 = 35Nm, M12 = 55Nm.

3.112



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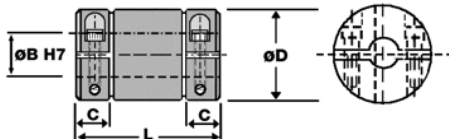
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Material

HPCICCA2: Aluminium
HPCICCK3: Stainless Steel

Couplings

Integral Clamp Collars



DISCOUNTS	1-19	20-39	40-59	60-99	100+
	List Price	-15%	-20%	-25%	-30%

PART NUMBER	Bore ØB H7	Max Bore ØB	ØD	L	C	Clamp Screws	Moment of Inertia (kg.m ²)	PRICE EACH 1-19
ALUMINIUM								
HPCICCA22-3	3	4.76	9.52	19.56	5.97	M1.6	1.16 x 10 ⁻⁷	£22.37
HPCICCA23-4	4	6.35	12.70	22.86	5.97	M2	4.38 x 10 ⁻⁷	£17.28
HPCICCA24-6	6	10.00	19.05	26.00	5.97	M2.5	2.41 x 10 ⁻⁶	£23.04
HPCICCA25-10	10	12.70	25.40	38.10	11.68	M3	1.10 x 10 ⁻⁵	£27.68
HPCICCA26-12	12	19.00	31.75	57.15	16.00	M4	4.09 x 10 ⁻⁵	£52.08
HPCICCA27-16	16	22.00	38.10	66.67	18.00	M5	9.76 x 10 ⁻⁵	£67.69
HPCICCA29-20	20	28.00	50.80	95.30	25.00	M6	4.50 x 10 ⁻⁵	£95.73
STAINLESS								
HPCICCK34-6	6	10.00	19.05	28.00	6.35	M2.5	2.67 x 10 ⁻⁶	£37.71
HPCICCK35-10	10	12.70	25.40	38.10	10.16	M3	1.14 x 10 ⁻⁵	£55.13
HPCICCK36-12	12	19.00	31.75	57.15	16.00	M4	4.21 x 10 ⁻⁵	£97.00
HPCICCK37-16	16	22.00	38.10	66.67	18.00	M5	1.01 x 10 ⁻⁴	£130.61
HPCICCK39-20	20	28.00	50.80	95.30	25.00	M6	4.65 x 10 ⁻⁴	£190.00

Couplings Integral Clamp Collars



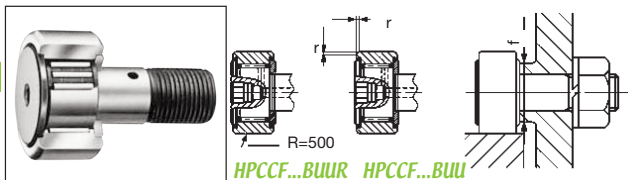
Shafts & Bearings

Pages 4.2 – 4.68



Shafts & Bearings

Standard, Cam Followers Sealed



HPCCF...BUUR HPCCF...BUU

Stud Diameter 6 to 30 mm

Note(1): Stud Diameter 6-10mm have no oil holes

Material: carbon Steel

Seals: Rubber

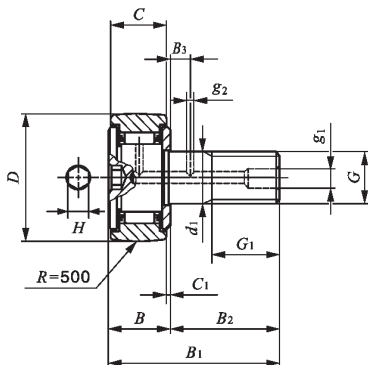
Allen key for mounting

Stud designed to fit housing

PART NUMBER		h7	+0.00	Boundary dimensions mm									
Crowned outer ring	Cylindrical outer ring	d1	-0.12	Stud Dia.	Mass (Ref.)	D	C	d1	G	G1	B	B1	B2
		mm	g	mm	g						max	max	
HPCCF6BUUR	HPCCF6BUU	6	18.5	16	11	6	M 6x1.00	8	12.2 max	28.2 max	16		
HPCCF8BUUR	HPCCF8BUU	8	28.5	19	11	8	M 8x1.25	10	12.2 max	32.2 max	20		
HPCCF10BUUR	HPCCF10BUU	10	45	22	12	10	M 10x1.25	12	13.2 max	36.2 max	23		
HPCCF10-1BUUR	HPCCF10-1BUU	10	60	26	12	10	M 10x1.25	12	13.2 max	36.2 max	23		
HPCCF12BUUR	HPCCF12BUU	12	95	30	14	12	M 12x1.5	13	15.2 max	40.2 max	25		
HPCCF12-1BUUR	HPCCF12-1BUU	12	105	32	14	12	M 12x1.5	13	15.2 max	40.2 max	25		
HPCCF16BUUR	HPCCF16BUU	16	170	35	18	16	M 16x1.5	17	19.6 max	52.1 max	32.5		
HPCCF18BUUR	HPCCF18BUU	18	250	40	20	18	M 18x1.5	19	21.6 max	58.1 max	36.5		

Shafts & Bearings

Standard, Cam Followers Sealed



Note(2): Minimum allowable value of chamfer "r".

DISCOUNTS

1 - 19	List Price
20+	-8.5%

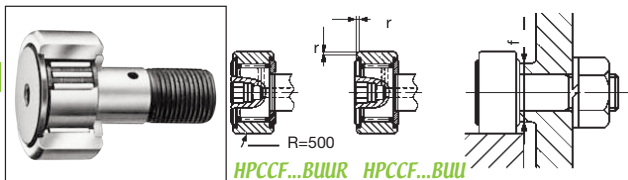
Boundary dimensions mm						Mounting dimens. f Min. mm	Max. tighte. torque N.m	Basic dyna. load rating C N	Basic static load rating Co N	Max. allow. load N	PRICE	PRICE
B3	C1	g1	g2	H	(3) r _{smin}						1-19	1-19
-	0.6	-	-	3	0.3	11	2.7	3660	3650	1950	£18.11	£16.61
-	0.6	-	-	4	0.3	13	6.5	4250	4740	4620	£18.11	£16.85
-	0.6	-	-	4	0.3	16	13.8	5430	6890	6890	£18.51	£16.85
-	0.6	-	-	4	0.3	16	13.8	5430	6890	6890	£19.54	£18.11
6	0.6	4	3	6	0.6	21	21.9	7910	9790	9790	£25.42	£21.17
6	0.6	4	3	6	0.6	21	21.9	7910	9790	9790	£26.88	£22.48
8	0.8	4	3	6	0.6	26	58.5	12000	18300	18300	£28.38	£23.64
8	0.8	6	3	8	1	29	86.2	14800	25200	25200	£30.77	£28.38

Shafts & Bearings Cam Followers Standard Sealed



Shafts & Bearings

Standard, Cam Followers Sealed



HPCCF...BUUR HPCCF...BUU

Stud Diameter 6 to 30 mm

Note(1): stud Diameter 6-10mm have no oil holes

Material: carbon Steel

Seals: Rubber

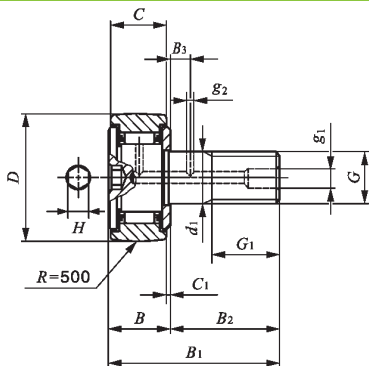
Allen key for mounting

Stud designed to fit housing

PART NUMBER		Stud Dia. mm	Mass (Ref.) g	Boundary dimensions mm							
Crowned outer ring	Cylindrical outer ring			D	C	d1	G	G1	B	B1	B2
HPCCF20BUUR	HPCCF20BUU	20	460	52	24	20	M 20x1.5	21	25.6 max	66.1 max	40.5
HPCCF20-1BUUR	HPCCF20-1BUU	20	385	47	24	20	M 20x1.5	21	25.6 max	66.1 max	40.5
HPCCF24BUUR	HPCCF24BUU	24	815	62	29	24	M 24x1.5	25	30.6 max	80.1 max	49.5
HPCCF24-1BUUR	HPCCF24-1BUU	24	1140	72	29	24	M 24x1.5	25	30.6 max	80.1 max	49.5
HPCCF30BUUR	HPCCF30BUU	30	1870	80	35	30	M 30x1.5	32	37 max	100 max	63
HPCCF30-1BUUR	HPCCF30-1BUU	30	2030	85	35	30	M 30x1.5	32	37 max	100 max	63
HPCCF30-2BUUR	HPCCF30-2BUU	30	2220	90	35	30	M 30x1.5	32	37 max	100 max	63

Shafts & Bearings

Standard, Cam Followers Sealed



Note(2): Minimum allowable value of chamfer "r".

DISCOUNTS

1 - 19	List Price
20+	-8.5%

Boundary dimensions mm						Mounting dimens. f Min. mm	Max. tighte. torque N.m	Basic dyna. load rating C N	Basic static load rating Co N	Max. allow. load N	PRICE EACH 1-19	PRICE EACH 1-19
B3	C1	g1	g2	H	(3) r_{smin}						Crown. outer ring	Cylind. outer ring
9	0.8	6	4	8	1	34	119	20700	34600	34600	£40.65	£37.57
9	0.8	6	4	8	1	34	119	20700	34600	34600	£40.65	£36.29
11	0.8	6	4	12	1	40	215	30500	52600	52000	£65.89	£60.83
11	0.8	6	4	12	1	40	215	30500	52600	52000	£39.47	£64.58
15	1	6	4	17	1	49	438	45400	85100	85100	£84.05	£78.96
15	1	6	4	17	1	49	438	45400	85100	85100	£99.16	£91.38
15	1	6	4	17	1	49	438	45400	85100	85100	£108.01	£101.19



Shafts & Bearings

Standard, Cam Followers Sealed

Accuracy

The accuracy of Cam Followers is shown in Table 2, Table 3.1, and Table 3.2. Cam Followers with special accuracy are also available.

Table 2 Tolerances

Dimensions and symbols	Crowned outer ring	Cylindrical outer ring
Outside dia. of outer ring D	0 ~ -50	See Table 3.1
Stud dia. d1	h7	
Width of outer ring C	0 ~ -120	

Table 3.1 Tolerances and allowable values of outer rings

unit: μm

D Nominal outside dia. of outer ring mm		Δ_{Dmp} Single plane mean outside dia. deviation		Δ_{Dp} outside diameter variation in a single radial plane (Max.)	Δ_{Dmp} Mean outside dia. variation (Max.)	K_{ea} Radial runout of assembled bearing outer ring (Max.)
Over	Incl.	High	low			
6	18	0	-8	10	6	15
18	30	0	-9	12	7	15
30	50	0	-11	14	8	20
50	80	0	-13	16	10	25
80	120	0	-15	19	11	35

Shafts & Bearings

Standard, Cam Followers Sealed

Clearance

The radial internal clearances of Cam Followers are shown in table 4.

Table 4 Radial internal clearance

Metric HPCCF series	Radial internal clearance	
	Min.	Max.
CF 6	5	20
CF 8 ~ CF12-1	5	25
CF16 ~ CF20-1	10	30
CF24 ~ CF30-2	10	40

Fit

Tables 5 and 6 show recommended tolerances of mounting holes for Cam Follower studs. Since the Cam Follower is supported in a cantilever position, the mounting hole diameter should be prepared without play between the stud and the hole especially when heavy shock loads are applied.

Table 5 Recommended fit

Type	Tolerance class of mounting hole for stud
Metric HPCCF series	H7

Table 6 Dimensional tolerances of mounting hole

unit: μm

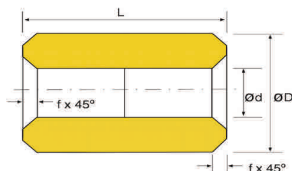
Nominal outside diameter of stud mm		H7	
Over	Incl.	High	low
6	10	+ 15	0
10	18	+18	0
18	30	+21	0
30	40	+25	0
40	50		

Shafts & Bearings

Imperial Plain

Oilite® Bushes

Oil Impregnated Sintered Bronze



DISCOUNTS

Quantity	List Price
1 - 9	
10-24	-22%
25-49	-38%
50-99	-44%
100-199	-52%
200-499	-65%
500-999	-68%
1000+	-74%

Designed to fit a H8 housing.

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQI030504	3/16	0.1883	0.1888	5/16	0.3137	0.3142	1/4	£1.12
HPCQI030506							3/8	£1.12
HPCQI030508							1/2	£1.12
HPCQI030510							5/8	£1.12
HPCQI030512							3/4	£1.12
HPCQI040604	1/4	0.2508	0.2513	3/8	0.3767	0.3772	1/4	£1.25
HPCQI040606							3/8	£1.25
HPCQI040608							1/2	£1.25
HPCQI040610							5/8	£1.25
HPCQI040612							3/4	£1.25
HPCQI040706	1/4	0.2501	0.2506	7/16	0.4385	0.4390	3/8	£1.12
HPCQI040708							1/2	£1.34
HPCQI040710							5/8	£1.57
HPCQI040712							3/4	£1.27
HPCQI040806							1/4	0.2507
HPCQI040808	1/2	£1.68						
HPCQI040812	3/4	£2.32						
HPCQI050705	5/16	0.3132	0.3137	7/16	0.4390	0.4395	5/16	£0.84
HPCQI050706							3/8	£1.12
HPCQI050708							1/2	£1.12
HPCQI050709							9/16	£1.18

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQI050710							5/8	£1.25
HPCQI050712	5/16	0.3132	0.3137	7/16	0.4390	0.4395	3/4	£1.41
HPCQI050716							1	£1.75
HPCQI050804							1/4	£1.98
HPCQI050806							3/8	£1.98
HPCQI050808	5/16	0.3132	0.3137	1/2	0.5017	0.5022	1/2	£2.32
HPCQI050810							5/8	£2.32
HPCQI050812							3/4	£2.32
HPCQI060806							3/8	£1.02
HPCQI060808							1/2	£1.22
HPCQI060810							5/8	£1.39
HPCQI060812	3/8	0.3757	0.3762	1/2	0.5020	0.5025	3/4	£1.62
HPCQI060814							7/8	£1.80
HPCQI060816							1	£1.98
HPCQI060818							1 1/8	£2.11
HPCQI060820							1 1/4	£2.34
HPCQI061006							3/8	£1.74
HPCQI061008							1/2	£2.09
HPCQI061010	3/8	0.3754	0.3759	5/8	0.6260	0.6270	5/8	£2.52
HPCQI061012							3/4	£2.92
HPCQI061014							7/8	£3.30
HPCQI061016							1	£3.68
HPCQI070906							3/8	£1.09
HPCQI070908							1/2	£1.29
HPCQI070910	7/16	0.4382	0.4387	9/16	0.5637	0.5647	5/8	£1.57
HPCQI070912							3/4	£1.74
HPCQI071108	7/16	0.4383	0.4388	11/16	0.6890	0.6900	1/2	£2.27
HPCQI071120							1 1/4	£4.84
HPCQI081006							3/8	£1.18
HPCQI081008							1/2	£1.42
HPCQI081010							5/8	£1.67
HPCQI081012	1/2	0.5008	0.5013	5/8	0.6265	0.6275	3/4	£1.89
HPCQI081014							7/8	£2.08
HPCQI081016							1	£2.30
HPCQI081020							1 1/4	£2.86
HPCQI081108							1/2	£1.94
HPCQI081110							5/8	£2.28
HPCQI081112	1/2	0.5015	0.5020	11/16	0.6895	0.6905	3/4	£2.66
HPCQI081114							7/8	£3.02
HPCQI081116							1	£3.35
HPCQI081208							1/2	£2.43
HPCQI081210							5/8	£2.93
HPCQI081212							3/4	£3.67
HPCQI081216	1/2	0.5015	0.5020	3/4	0.7525	0.7535	1	£4.29
HPCQI081218							1 1/8	£4.80
HPCQI081220							1 1/4	£5.30
HPCQI081232							2	£7.77
HPCQI091108	9/16	0.5628	0.5638	11/16	0.6890	0.6900	1/2	£1.51



Shafts & Bearings

Imperial Plain

Oilite® Bushes

Oil Impregnated Sintered Bronze

Shafts & Bearings Oilite® Bushes Imperial Plain

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQI091110	9/16	0.5628	0.5638	11/16	0.6890	0.6900	5/8	£1.78
HPCQI091112							3/4	£2.01
HPCQI091116							1	£2.50
HPCQI091120							1 1/4	£3.02
HPCQI091216	9/16	0.5640	0.5650	3/4	0.7520	0.7530	1	£3.54
HPCQI101208	5/8	0.6255	0.6265	3/4	0.7515	0.7525	1/2	£1.64
HPCQI101209							9/16	£1.87
HPCQI101210							5/8	£1.89
HPCQI101212							3/4	£2.14
HPCQI101214							7/8	£2.43
HPCQI101216							1	£2.73
HPCQI101220							1 1/4	£3.24
HPCQI101312							5/8	0.6265
HPCQI101316	1	£3.83						
HPCQI101320	1 1/4	£4.16						
HPCQI101408	5/8	0.6255	0.6265	7/8	0.8770	0.8780	1/2	£2.90
HPCQI101410							5/8	£3.50
HPCQI101412							3/4	£3.88
HPCQI101414							7/8	£4.55
HPCQI101416							1	£4.81
HPCQI101418							1 1/8	£5.57
HPCQI101420							1 1/4	£5.56
HPCQI111514							11/16	0.6881
HPCQI111516	1	£5.32						
HPCQI111520	1 1/4	£6.40						
HPCQI121408	3/4	0.7505	0.7515	7/8	0.8765	0.8775	1/2	£1.82
HPCQI121410							5/8	£2.13
HPCQI121412							3/4	£2.45
HPCQI121416							1	£3.12
HPCQI121418							1 1/8	£3.43
HPCQI121420							1 1/4	£3.57
HPCQI121512	3/4	0.7535	0.7545	15/16	0.9405	0.9415	3/4	£3.50
HPCQI121516							1	£4.37
HPCQI121608	3/4	0.7508	0.7518	1	1.0020	1.0030	1/2	£3.30
HPCQI121610							5/8	£3.89
HPCQI121612							3/4	£4.17
HPCQI121614							7/8	£5.04
HPCQI121616							1	£5.04
HPCQI121618							1 1/8	£6.22
HPCQI121620							1 1/4	£6.02
HPCQI121812							3/4	0.7525
HPCQI121816	1	£8.47						
HPCQI121820	1 1/4	£10.28						

4.10



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQI122018	3/4	0.7525	0.7535	1 1/4	1.2535	1.2545	1 1/8	£12.74
HPCQI122022							1 3/8	£15.59
HPCQI122024							1 1/2	£16.91
HPCQI122032							2	£21.49
HPCQI141612	7/8	0.8755	0.8765	1	1.0017	1.0027	3/4	£2.78
HPCQI141616							1	£3.36
HPCQI141618							1 1/8	£4.01
HPCQI141620							1 1/4	£3.94
HPCQI141624							1 1/2	£4.62
HPCQI141812	7/8	0.8757	0.8767	1 1/8	1.1270	1.1280	3/4	£4.75
HPCQI141814							7/8	£5.73
HPCQI141816							1	£5.45
HPCQI141818							1 1/8	£6.90
HPCQI141820							1 1/4	£7.07
HPCQI141824							1 1/2	£8.12
HPCQI161812	1	1.0008	1.0018	1 1/8	1.1270	1.1280	3/4	£3.13
HPCQI161816							1	£3.71
HPCQI161820							1 1/4	£4.29
HPCQI161824							1 1/2	£4.81
HPCQI162012	1	1.0010	1.0020	1 1/4	1.2526	1.2536	3/4	£5.27
HPCQI162014							7/8	£6.22
HPCQI162016							1	£6.24
HPCQI162018							1 1/8	£7.70
HPCQI162020							1 1/4	£7.71
HPCQI162022							1 3/8	£9.04
HPCQI162024							1 1/2	£9.05
HPCQI162026							1 5/8	£10.38
HPCQI162028							1 3/4	£10.16
HPCQI162032							2	£11.54
HPCQI162422	1	1.0025	1.0035	1 1/2	1.5040	1.5050	1 3/8	£18.76
HPCQI162424							1 1/2	£20.35
HPCQI162428							1 3/4	£24.41
HPCQI162432							2	£27.84
HPCQI182212	1 1/8	1.1258	1.1268	1 3/8	1.3770	1.3780	3/4	£5.95
HPCQI182216							1	£7.62
HPCQI182220							1 1/4	£9.03
HPCQI182224							1 1/2	£10.95
HPCQI182228							1 3/4	£12.58
HPCQI182232							2	£14.72
HPCQI202416	1 1/4	1.2515	1.2525	1 1/2	1.5030	1.5040	1	£8.42
HPCQI202420							1 1/4	£10.13
HPCQI202422							1 3/8	£11.02
HPCQI202424							1 1/2	£11.80
HPCQI202428							1 3/4	£13.89
HPCQI202432							2	£15.84
HPCQI202616	1 1/4	1.2525	1.2535	1 5/8	1.6287	1.6302	1	£11.86
HPCQI202620							1 1/4	£15.33
HPCQI202624							1 1/2	£18.49



Shafts & Bearings

Imperial Plain

Oilite® Bushes

Oil Impregnated Sintered Bronze

Shafts & Bearings Oilite® Bushes Imperial Plain

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQI202628							1 3/4	£20.56
HPCQI202632	1 1/4	1.2525	1.2535	1 5/8	1.6287	1.6302	2	£24.17
HPCQI202640							2 1/2	£29.54
HPCQI222616							1	£8.89
HPCQI222620							1 1/4	£10.98
HPCQI222624	1 3/8	1.3762	1.3772	1 5/8	1.6275	1.6290	1 1/2	£12.52
HPCQI222628							1 3/4	£15.26
HPCQI222632							2	£17.15
HPCQI222824	1 3/8	1.3775	1.3785	1 3/4	1.7545	1.7560	1 1/2	£19.24
HPCQI242820							1 1/4	£11.78
HPCQI242824							1 1/2	£14.36
HPCQI242828	1 1/2	1.5013	1.5023	1 3/4	1.7527	1.7542	1 3/4	£16.53
HPCQI242832							2	£18.20
HPCQI242836							2 1/4	£20.31
HPCQI243020							1 1/4	£17.36
HPCQI243024							1 1/2	£20.52
HPCQI243028	1 1/2	1.5025	1.5035	1 7/8	1.8790	1.8805	1 3/4	£24.41
HPCQI243032							2	£28.00
HPCQI243036							2 1/4	£32.63
HPCQI243224							1 1/2	£29.62
HPCQI243232	1 1/2	1.5025	1.5035	2	2.0030	2.0045	2	£40.43
HPCQI243240							2 1/2	£51.41
HPCQI243248							3	£61.42
HPCQI263330							1 7/8	£34.82
HPCQI263332	1 5/8	1.6285	1.6300	2 1/16	2.0675	2.0690	2	£36.85
HPCQI263340							2 1/2	£46.69
HPCQI283220							1 1/4	£13.88
HPCQI283224							1 1/2	£16.42
HPCQI283228	1 3/4	1.7510	1.7525	2	2.0030	2.0045	1 3/4	£18.36
HPCQI283232							2	£20.88
HPCQI283236							2 1/4	£22.71
HPCQI283624							1 1/2	£34.98
HPCQI283628	1 3/4	1.7510	1.7525	2 1/4	2.2530	2.2550	1 3/4	£40.51
HPCQI283632							2	£41.16
HPCQI283636							2 1/4	£53.03
HPCQI323624							1 1/2	£17.60
HPCQI323628	2	2.0010	2.0025	2 1/4	2.2530	2.2550	1 3/4	£20.43
HPCQI323632							2	£23.73
HPCQI323640							2 1/2	£32.06
HPCQI324024							1 1/2	£37.92
HPCQI324028	2	2.0010	2.0025	2 1/2	2.2535	2.5055	1 3/4	£46.04
HPCQI324032							2	£52.79



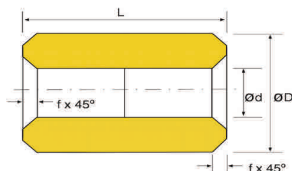
PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQI324036	2	2.0010	2.0025	2 1/2	2.5035	2.5055	2 1/4	£58.23
HPCQI324040							2 1/2	£65.35
HPCQI324048							3	£75.49
HPCQI364240	2 1/4	2.2530	2.2550	2 5/8	2.6285	2.6305	2 1/2	£54.82
HPCQI364248							3	£62.69
HPCQI364424	2 1/4	2.2510	2.2530	2 3/4	2.7540	2.7560	1 1/2	£44.66
HPCQI364432							2	£59.07
HPCQI404640	2 1/2	2.5030	2.5050	2 7/8	2.8795	2.8815	2 1/2	£58.61
HPCQI404824	2 1/2	2.5015	2.5035	3	3.0045	3.0065	1 1/2	£48.15
HPCQI404832							2	£63.09
HPCQI404840							2 1/2	£77.81
HPCQI404848							3	£91.53
HPCQI485640	3	2.9880	3.0000	3 1/2	3.5020	3.5040	2 1/2	£89.18
HPCQI485648 *							3	£105.15

* Non standard chamfer (details on request).

'Never Knowingly Outpriced'

Shafts & Bearings Oilite® Bushes Imperial Plain





DISCOUNTS

Quantity	List Price
1 - 9	
10-24	-22%
25-49	-38%
50-99	-44%
100-199	-52%
200-499	-65%
500-999	-68%
1000+	-74%

Metric ISO 2795

Designed to fit a H7 housing to run on a f 7 shaft.

PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			Basic L (js13)	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQM020502	02	2.002	2.012	05	5.019	5.031	02	£1.45
HPCQM020503							03	£1.45
HPCQM030503	03	3.002	3.012	05	5.019	5.031	03	£1.45
HPCQM030504							04	£1.45
HPCQM030506							06	£1.45
HPCQM030603	03	3.002	3.012	06	6.019	6.031	03	£1.45
HPCQM030604							04	£1.45
HPCQM040703	04	4.004	4.016	07	7.023	7.038	03	£1.62
HPCQM040704							04	£1.62
HPCQM040706							06	£1.62
HPCQM040804	04	4.004	4.016	08	8.023	8.038	04	£1.74
HPCQM040806							06	£1.74
HPCQM040808							08	£1.74
HPCQM050804	05	5.004	5.016	08	8.023	8.038	04	£1.74
HPCQM050805							05	£1.74
HPCQM050808							08	£1.74
HPCQM050810							10	£1.74
HPCQM050812							12	£1.74
HPCQM050816							16	£1.79
HPCQM050905	05	5.004	5.016	09	9.023	9.038	05	£1.91
HPCQM050908							08	£1.91
HPCQM060904	06	6.004	6.016	09	9.023	9.038	04	£1.91

PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			Basic L (js13)	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQM060906	06	6.004	6.016	09	9.023	9.038	06	£1.91
HPCQM060910							10	£1.91
HPCQM060912							12	£1.91
HPCQM060916							16	£1.91
HPCQM061004	06	6.004	6.016	10	10.023	10.038	04	£1.91
HPCQM061006							06	£1.91
HPCQM061010							10	£1.91
HPCQM061012							12	£1.91
HPCQM061016							16	£1.91
HPCQM071005	07	7.005	7.020	10	10.023	10.038	05	£1.85
HPCQM071008							08	£1.85
HPCQM071010							10	£1.85
HPCQM071108	07	7.005	7.020	11	11.028	11.046	08	£1.85
HPCQM071110							10	£2.08
HPCQM081106	08	8.005	8.020	11	11.028	11.046	06	£2.08
HPCQM081108							08	£2.08
HPCQM081112							12	£2.08
HPCQM081206	08	8.005	8.020	12	12.028	12.046	06	£2.14
HPCQM081208							08	£2.14
HPCQM081212							12	£2.14
HPCQM081216							16	£2.14
HPCQM081220							20	£2.14
HPCQM081408	08	8.005	8.020	14	14.028	14.046	08	£1.74
HPCQM081412							12	£1.85
HPCQM081416							16	£2.27
HPCQM081420							20	£2.71
HPCQM091206	09	9.005	9.020	12	12.028	12.046	06	£1.39
HPCQM091210							10	£1.39
HPCQM091214							14	£1.85
HPCQM091406	09	9.005	9.020	14	14.028	14.046	06	£2.08
HPCQM091410							10	£2.08
HPCQM091414							14	£2.08
HPCQM101310							10	10.005
HPCQM101316	16	£1.74						
HPCQM101408	10	10.005	10.020	14	14.028	14.046	08	£1.74
HPCQM101410							10	£1.85
HPCQM101416							16	£1.85
HPCQM101420							20	£2.11
HPCQM101425							25	£2.50
HPCQM101510	10	10.005	10.020	15	15.028	15.046	10	£2.78
HPCQM101516							16	£2.78
HPCQM101520							20	£2.78
HPCQM101525							25	£3.15
HPCQM101608	10	10.005	10.020	16	16.028	16.046	08	£2.78
HPCQM101610							10	£2.78
HPCQM101616							16	£2.78
HPCQM101620							20	£2.78
HPCQM101625							25	£2.78



Shafts & Bearings

Metric Plain

Oilite® Bushes

Oil Impregnated Sintered Bronze

Shafts & Bearings Oilite® Bushes Metric Plain

PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			Basic L (js13)	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQM121512	12	12.006	12.024	15	15.028	15.046	12	£2.78
HPCQM121516							16	£2.78
HPCQM121520							20	£2.90
HPCQM121525							25	£2.90
HPCQM121608	12	12.006	12.024	16	16.028	16.046	08	£2.78
HPCQM121612							12	£2.78
HPCQM121616							16	£2.78
HPCQM121620							20	£2.78
HPCQM121625							25	£2.90
HPCQM121808	12	12.006	12.024	18	18.028	18.046	08	£2.30
HPCQM121812							12	£2.30
HPCQM121816							16	£2.55
HPCQM121820							20	£3.51
HPCQM121825							25	£3.94
HPCQM141810	14	14.006	14.024	18	18.028	18.046	10	£2.26
HPCQM141814							14	£2.26
HPCQM141820							20	£3.48
HPCQM142010	14	14.006	14.024	20	20.035	20.056	10	£2.20
HPCQM142014							14	£2.90
HPCQM142020							20	£3.87
HPCQM142030							30	£4.58
HPCQM151910							15	15.006
HPCQM151915	15	£2.95						
HPCQM151920	20	£3.42						
HPCQM151925	25	£3.71						
HPCQM151930	30	£3.89						
HPCQM152115	15	15.006	15.024	21	21.035	21.056		
HPCQM152120							20	£4.03
HPCQM152125							25	£4.35
HPCQM162012	16	16.006	16.024	20	20.035	20.056	12	£3.10
HPCQM162016							16	£3.10
HPCQM162020							20	£3.50
HPCQM162025							25	£3.50
HPCQM162030							30	£4.93
HPCQM162212							16	16.006
HPCQM162216	16	£4.93						
HPCQM162220	20	£4.93						
HPCQM162225	25	£5.03						
HPCQM162230	30	£5.84						
HPCQM182212	18	18.006	18.024	22	22.035	22.056		
HPCQM182218							18	£4.58
HPCQM182230							30	£5.10

4.16



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

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PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			Basic L (js13)	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQM182418	18	18.006	18.024	24	24.035	24.056	18	£5.10
HPCQM182430							30	£5.80
HPCQM182522	18	18.006	18.024	25	25.035	25.056	22	£5.59
HPCQM182530							30	£7.25
HPCQM202416	20	20.007	20.028	24	24.035	24.056	16	£2.88
HPCQM202420							20	£3.46
HPCQM202425							25	£4.14
HPCQM202432							32	£4.99
HPCQM202515	20	20.007	20.028	25	25.035	25.056	15	£5.68
HPCQM202520							20	£5.68
HPCQM202525							25	£6.84
HPCQM202530							30	£8.70
HPCQM202615	20	20.007	20.028	26	26.035	26.056	15	£5.80
HPCQM202620							20	£5.80
HPCQM202625							25	£6.84
HPCQM202630							30	£6.73
HPCQM202825	20	20.007	20.028	28	28.035	28.056	25	£7.62
HPCQM202830							30	£8.90
HPCQM202850							50	£14.55
HPCQM222715							22	22.007
HPCQM222720	20	£4.51						
HPCQM222725	25	£5.38						
HPCQM222815	22	22.007	22.028	28	28.035	28.056	15	£4.98
HPCQM222820							20	£5.91
HPCQM222825							25	£6.96
HPCQM222828							28	£6.89
HPCQM222830							30	£7.30
HPCQM223220							22	22.007
HPCQM223250	50	£19.24						
HPCQM253020	25	25.007	25.028	30	30.035	30.056	20	£4.86
HPCQM253025							25	£6.38
HPCQM253030							30	£7.54
HPCQM253050							50	£11.60
HPCQM253220	25	25.007	25.028	32	32.043	32.068	20	£6.54
HPCQM253225							25	£7.96
HPCQM253230							30	£9.39
HPCQM253235							35	£10.60
HPCQM253240							40	£11.75
HPCQM253525	25	25.007	25.028	35	35.043	35.068	25	£8.12
HPCQM253535							35	£9.86
HPCQM253550							50	£14.15
HPCQM283320	28	28.007	28.028	33	33.043	33.068	20	£5.35
HPCQM283330							30	£7.30
HPCQM283620	28	28.007	28.028	36	36.043	36.068	20	£8.12
HPCQM283625							25	£10.03
HPCQM283630							30	£11.72
HPCQM283640							40	£15.50



Shafts & Bearings

Metric Plain

Oilite® Bushes

Oil Impregnated Sintered Bronze

Shafts & Bearings Oilite® Bushes Metric Plain

PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			Basic L (js13)	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQM303520	30	30.007	30.028	35	35.043	35.068	20	£5.68
HPCQM303525							25	£6.78
HPCQM303530							30	£7.89
HPCQM303820	30	30.007	30.028	38	38.043	38.068	20	£8.58
HPCQM303825							25	£10.41
HPCQM303830							30	£12.19
HPCQM303840							40	£16.32
HPCQM304025	30	30.007	30.028	40	40.043	40.068	25	£9.25
HPCQM304035							35	£11.60
HPCQM304050							50	£16.19
HPCQM323820	32	32.009	32.034	38	38.043	38.068	20	£6.89
HPCQM323825							25	£9.07
HPCQM323830							30	£9.77
HPCQM323840							40	£12.78
HPCQM324020	32	32.009	32.034	40	40.043	40.068	20	£9.02
HPCQM324025							25	£10.97
HPCQM324030							30	£12.05
HPCQM324040							40	£16.99
HPCQM324050							50	£20.67
HPCQM354125	35	35.009	35.034	41	41.043	41.068	25	£9.04
HPCQM354135							35	£12.01
HPCQM354140							40	£13.93
HPCQM354422	35	35.009	35.034	44	44.043	44.068	22	£11.75
HPCQM354428							28	£15.20
HPCQM354435							35	£18.11
HPCQM354525	35	35.009	35.034	45	45.043	45.068	25	£15.20
HPCQM354535							35	£19.87
HPCQM354540							40	£23.09
HPCQM354550							50	£29.62
HPCQM364222	36	36.009	36.034	42	42.043	42.068	22	£8.28
HPCQM364228							28	£10.19
HPCQM364236							36	£12.84
HPCQM364245							45	£16.07
HPCQM364522	36	36.009	36.034	45	45.043	45.068	22	£12.16
HPCQM364528							28	£15.66
HPCQM364536							36	£19.01
HPCQM364545							45	£24.17
HPCQM384425	38	38.009	38.034	44	44.043	44.068	25	£9.53
HPCQM384435							35	£13.01
HPCQM384445							45	£16.61
HPCQM384835	38	38.009	38.034	48	48.043	48.068	35	£21.65
HPCQM384845							45	£28.57

4.18



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

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PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			Basic L (Ls13)	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.		
HPCQM384855	38	38.009	38.034	48	48.043	48.068	55	£35.63
HPCQM404630	40	40.009	40.034	46	46.043	46.068	30	£11.68
HPCQM404640							40	£15.42
HPCQM404650							50	£17.38
HPCQM405025	40	40.009	40.034	50	50.043	50.068	25	£12.74
HPCQM405030							30	£15.01
HPCQM405032							32	£20.60
HPCQM405035							35	£16.24
HPCQM405040							40	£17.98
HPCQM405050							50	£22.15
HPCQM405060							60	£26.68
HPCQM424840							42	42.009
HPCQM424850	50	£19.36						
HPCQM425240 *	42	42.009	42.048	52	52.053	52.099	40	£27.86
HPCQM425250 *							50	£35.57
HPCQM455135 *	45	45.009	45.048	51	51.053	51.099	35	£15.38
HPCQM455145 *							45	£18.74
HPCQM455155 *							55	£20.64
HPCQM455535 *	45	45.009	45.048	55	55.053	55.099	35	£19.72
HPCQM455545 *							45	£24.36
HPCQM455555 *							55	£32.48
HPCQM455628 *	45	45.009	45.048	56	56.053	56.099	28	£22.87
HPCQM455636 *							36	£29.95
HPCQM455645 *							45	£38.08
HPCQM455656 *							56	£48.15
HPCQM485550 *	48	48.009	48.048	55	55.053	55.099	50	£26.84
HPCQM485850 *	48	48.009	48.048	58	58.053	58.099	50	£40.37
HPCQM506030 *	50	50.009	50.048	60	60.053	60.099	30	£24.08
HPCQM506035 *							35	£28.57
HPCQM506040 *							40	£30.74
HPCQM506050 *							50	£35.98
HPCQM506063 *							63	£53.84
HPCQM506070 *							70	£58.78
HPCQM506075 *							75	£62.31
HPCQM556340 *							55	55.010
HPCQM556355 *	55	£39.70						
HPCQM556540 *	55	55.010	55.056	65	65.053	65.099	40	£36.93
HPCQM556555 *							55	£51.89
HPCQM556570 *							70	£64.11
HPCQM606850 *							60	60.010
HPCQM606860 *	60	£36.19						
HPCQM607050 *	60	60.010	60.056	70	70.059	70.105	50	£50.76
HPCQM607060 *							60	£59.89
HPCQM607250 *							50	£42.92
HPCQM607260 *	60	60.010	60.056	72	72.059	72.105	60	£46.94
HPCQM607270 *							70	£49.88
HPCQM637040 *	63	63.010	63.056	70	70.059	70.105	40	£27.67
HPCQM637050 *							50	£35.31

* ID/OD tolerances: G8s8

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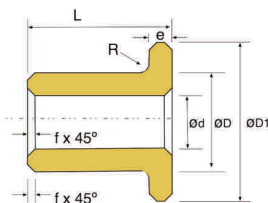
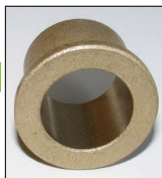
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Shafts & Bearings

Imperial flanged

Oilite® Bushes

Oil Impregnated Sintered Bronze



DISCOUNTS

Quantity	List Price
1 - 9	-
10-24	-22%
25-49	-38%
50-99	-44%
100-199	-52%
200-499	-65%
500-999	-68%
1000+	-74%

Designed to fit a H8 housing.

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			ØD1"	e"	Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.				
HPCQFI030504									1/4	£2.26
HPCQFI030506	3/16	0.1880	0.1885	5/16	0.3137	0.3142	0.3750	0.062	3/8	£0.81
HPCQFI030508									1/2	£2.55
HPCQFI040604									1/4	£2.49
HPCQFI040606	1/4	0.2505	0.2510	3/8	0.3767	0.3772	0.5000	0.062	3/8	£1.03
HPCQFI040608									1/2	£1.06
HPCQFI040612									3/4	£3.19
HPCQFI050804									1/4	£2.90
HPCQFI050806	5/16	0.3130	0.3135	1/2	0.5020	0.5025	0.6250	0.062	3/8	£1.34
HPCQFI050808									1/2	£1.61
HPCQFI050812									3/4	£3.42
HPCQFI050906	5/16	0.3120	0.3125	9/16	0.5640	0.5650	0.6562	0.125	3/8	£1.75
HPCQFI060808	3/8	0.3755	0.3760	1/2	0.5015	0.5020	0.6250	0.062	1/2	£2.90
HPCQFI060814									7/8	£4.64
HPCQFI060908	3/8	0.3747	0.3752	9/16	0.5640	0.5650	0.7500	0.062	1/2	£1.85
HPCQFI061006									3/8	£2.32
HPCQFI061008	3/8	0.3757	0.3762	5/8	0.6265	0.6275	0.7500	0.125	1/2	£2.37
HPCQFI061010									5/8	£2.37
HPCQFI061012									3/4	£2.37
HPCQFI070908	7/16	0.4401	0.4406	9/16	0.5641	0.5651	0.7500	0.062	1/2	£3.48
HPCQFI070912									3/4	£3.48
HPCQFI081008	1/2	0.5000	0.5005	5/8	0.6265	0.6275	0.7500	0.098	1/2	£3.48

PART NUMBER	Inner Diameter Ød"			Outer Diameter ØD"			ØD1"	e"	Basic L"	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.				
HPCQFI081016	1/2	0.5000	0.5005	5/8	0.6265	0.6275	0.7500	0.098	1	£4.98
HPCQFI081208	1/2	0.5008	0.5013	3/4	0.7517	0.7527	1.0000	0.125	1/2	£3.15
HPCQFI081212									3/4	£3.15
HPCQFI081216									1	£3.48
HPCQFI081218									1 1/8	£5.32
HPCQFI101208	5/8	0.6275	0.6285	3/4	0.7525	0.7535	1.1250	0.094	1/2	£2.50
HPCQFI101216									1	£3.59
HPCQFI101218									1 1/8	£3.85
HPCQFI101408	5/8	0.6255	0.6265	7/8	0.8770	0.8780	1.2500	0.125	1/2	£3.48
HPCQFI101412									3/4	£5.02
HPCQFI101416									1	£4.64
HPCQFI101418									1 1/8	£6.51
HPCQFI121612	3/4	0.7508	0.7518	1	1.0020	1.0030	1.3750	0.125	3/4	£4.06
HPCQFI121616									1	£5.10
HPCQFI121620									1 1/4	£6.72
HPCQFI121624									1 1/2	£8.96
HPCQFI141616									7/8	0.8755
HPCQFI141812	7/8	0.8757	0.8767	1 1/8	1.1270	1.280	1.6250	0.125	3/4	£4.64
HPCQFI141816									1	£4.98
HPCQFI141820									1 1/4	£6.26
HPCQFI141824									1 1/2	£10.69
HPCQFI162012	1	1.0010	1.0020	1 1/4	1.2520	1.2530	1.5000	0.125	3/4	£5.85
HPCQFI162016									1	£8.42
HPCQFI162018									1 1/8	£9.21
HPCQFI162024									1 1/2	£11.49
HPCQFI182216	1 1/8	1.1260	1.1270	1 3/8	1.3776	1.3786	1.8750	0.125	1	£8.24
HPCQFI182220									1 1/4	£10.01
HPCQFI182224									1 1/2	£13.06
HPCQFI182228									1 3/4	£15.04
HPCQFI202412	1 1/4	1.2510	1.2520	1 1/2	1.5030	1.5040	1.8750	0.125	3/4	£8.10
HPCQFI202420									1 1/4	£11.70
HPCQFI202424									1 1/2	£13.65
HPCQFI202616	1 1/4	1.2516	1.2526	1 5/8	1.6280	1.6295	2.0000	0.125	1	£14.39
HPCQFI202620									1 1/4	£17.02
HPCQFI202624									1 1/2	£19.62
HPCQFI202628									1 3/4	£22.63
HPCQFI222612	1 3/8	1.3745	1.3755	1 5/8	1.6270	1.6285	1.8750	0.125	3/4	£8.13
HPCQFI222620									1 1/4	£11.93
HPCQFI242824	1 1/2	1.5016	1.5026	1 3/4	1.7510	1.7525	1.8770	0.120	1 1/2	£14.65
HPCQFI242830									1 7/8	£17.49
HPCQFI243020	1 1/2	1.5016	1.5026	1 7/8	1.8780	1.8795	2.5000	0.188	1 1/4	£18.85
HPCQFI243024									1 1/2	£22.82
HPCQFI243028									1 3/4	£27.10
HPCQFI243032									2	£31.38

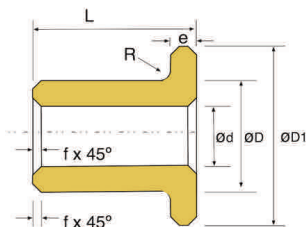
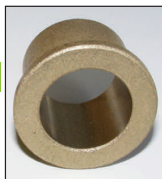


Shafts & Bearings

Metric flanged

Oilite® Bushes

Oil Impregnated Sintered Bronze



DISCOUNTS

Quantity	List Price
1 - 9	-
10-24	-22%
25-49	-38%
50-99	-44%
100-199	-52%
200-499	-65%
500-999	-68%
1000+	-74%

Metric ISO 2795.

Designed to fit a H7 housing to run on a f7 shaft.

PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			ØD1	e	Basic L	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.				
HPCQFM020503	02	2.002	2.012	05	5.019	5.031	8	1.5	03	£2.03
HPCQFM030604	03	3.002	3.012	06	6.019	6.031	9	1.5	04	£2.03
HPCQFM040804	04	4.004	4.016	08	8.023	8.038	12	2	04	£2.03
HPCQFM040806									06	£2.03
HPCQFM040808									08	£2.03
HPCQFM040812									12	£2.03
HPCQFM050904	05	5.004	5.016	09	9.023	9.038	13	2	04	£2.26
HPCQFM050905									05	£2.26
HPCQFM050908									08	£2.26
HPCQFM061004	06	6.004	6.016	10	10.023	10.038	14	2	04	£2.26
HPCQFM061006									06	£2.26
HPCQFM061010									10	£2.26
HPCQFM071108	07	7.005	7.020	11	11.028	11.046	15	2	08	£2.26
HPCQFM081206									06	£2.26
HPCQFM081208									08	£2.26
HPCQFM081212									12	£2.66
HPCQFM081216	16	£2.66								
HPCQFM101310	10	10.005	10.020	13	13.028	13.046	17	2.5	10	£1.58
HPCQFM101316									16	£1.94
HPCQFM101320									20	£2.15
HPCQFM101508	10	10.005	10.020	15	15.028	15.046	21	3	08	£1.92
HPCQFM101510									10	£2.26

Shafts & Bearings Oilite® Bushes Metric Flanged



PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			ØD1	e	Basic L	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.				
HPCQFM101516	10	10.005	10.020	15	15.028	15.046	21	3	16	£2.66
HPCQFM101520									20	£2.78
HPCQFM101608	10	10.005	10.020	16	16.028	16.046	22	3	08	£2.55
HPCQFM101610									10	£2.49
HPCQFM101616									16	£3.15
HPCQFM121512	12	12.006	12.024	15	15.028	15.046	21	3	12	£3.24
HPCQFM121516									16	£3.24
HPCQFM121520									20	£3.24
HPCQFM121712	12	12.006	12.024	17	17.028	17.046	23	3	12	£2.57
HPCQFM121716									16	£3.07
HPCQFM121720									20	£3.51
HPCQFM121725									25	£4.06
HPCQFM121808	12	12.006	12.024	18	18.028	18.046	24	3	08	£3.13
HPCQFM121812									12	£3.13
HPCQFM121820									20	£4.40
HPCQFM142010	14	14.006	14.024	20	20.035	20.056	26	3	10	£3.42
HPCQFM142014									14	£3.42
HPCQFM142020									20	£4.93
HPCQFM151916	15	15.006	15.024	19	19.035	19.056	25	3	16	£3.03
HPCQFM151920									20	£3.45
HPCQFM151925									25	£4.06
HPCQFM152110	15	15.006	15.024	21	21.035	21.056	27	3	10	£4.29
HPCQFM152115									15	£4.29
HPCQFM152120									20	£5.22
HPCQFM152125									25	£5.32
HPCQFM162016	16	16.006	16.024	20	20.035	20.056	27	3	16	£4.06
HPCQFM162020									20	£4.06
HPCQFM162025									25	£4.26
HPCQFM162212	16	16.006	16.024	22	22.035	22.056	28	3	12	£4.58
HPCQFM162216									16	£4.58
HPCQFM162220									20	£4.58
HPCQFM162225									25	£6.49
HPCQFM182412	18	18.006	18.024	24	24.035	24.056	30	3	12	£4.87
HPCQFM182418									18	£5.74
HPCQFM182422									22	£5.74
HPCQFM182430									30	£8.06
HPCQFM202416	20	20.007	20.028	24	24.035	24.056	30	3	16	£3.80
HPCQFM202420									20	£4.33
HPCQFM202425									25	£4.99
HPCQFM202615	20	20.007	20.028	26	26.035	26.056	32	3	15	£5.74
HPCQFM202620									20	£6.92
HPCQFM202625									25	£8.70
HPCQFM202630									30	£9.91
HPCQFM222820	22	22.007	22.028	28	28.035	28.056	34	3	20	£5.85
HPCQFM222825									25	£7.07
HPCQFM222830									30	£8.10
HPCQFM253020	25	25.007	25.028	30	30.035	30.056	39	3.5	20	£6.36
HPCQFM253025									25	£6.90
HPCQFM253032									32	£8.71

Shafts & Bearings Oilite® Bushes Metric Flanged



Shafts & Bearings

Metric flanged

Oilite® Bushes

Oil Impregnated Sintered Bronze

Shafts & Bearings Oilite® Bushes Metric Flanged

PART NUMBER	Inner Diameter Ød (G7)			Outer Diameter ØD (s7)			ØD1	e	Basic L	PRICE EACH
	Basic	Min.	Max.	Basic	Min.	Max.				
HPCQFM253220									20	£7.77
HPCQFM253225	25	25.007	25.028	32	32.043	32.068	39	3.5	25	£9.12
HPCQFM253230									30	£7.88
HPCQFM283620									20	£9.88
HPCQFM283625	28	28.007	28.028	36	36.043	36.068	44	4	25	£11.55
HPCQFM283630									30	£13.53
HPCQFM303820									20	£8.70
HPCQFM303825	30	30.007	30.028	38	38.043	38.068	46	4	25	£9.28
HPCQFM303830									30	£11.53
HPCQFM323820									20	£8.80
HPCQFM323825	32	32.009	32.034	38	38.043	38.068	46	4	25	£10.25
HPCQFM323832									32	£12.24
HPCQFM324020									20	£10.85
HPCQFM324025	32	32.009	32.034	40	40.043	40.068	48	4	25	£13.01
HPCQFM324030									30	£15.34
HPCQFM354525									25	£12.73
HPCQFM354535	35	35.009	35.034	45	45.043	45.068	55	5	35	£16.21
HPCQFM354540									40	£18.40
HPCQFM384825	38	38.009	38.034	48	48.043	48.068	58	5	25	£19.16
HPCQFM384835									35	£26.11
HPCQFM404625 *									25	£14.25
HPCQFM404632 *	40	40.009	40.034	46	46.043	46.068	56	5	32	£16.75
HPCQFM404640 *									40	£19.22
HPCQFM405025 *									25	£20.28
HPCQFM405030 *	40	40.009	40.034	50	50.043	50.068	60	5	30	£23.14
HPCQFM405040 *									40	£24.36
HPCQFM405050 *									50	£25.48
HPCQFM425240 *									40	£32.83
HPCQFM425250 *	42	42.009	42.048	52	52.053	52.099	62	5	50	£40.27
HPCQFM455535 *									35	£30.60
HPCQFM455545 *	45	45.009	45.048	55	55.053	55.099	65	5	45	£38.73
HPCQFM455555 *									55	£47.33
HPCQFM506032 *									32	£23.18
HPCQFM506040 *	50	50.009	50.048	60	60.053	60.099	70	5	40	£25.61
HPCQFM506050 *									50	£26.80

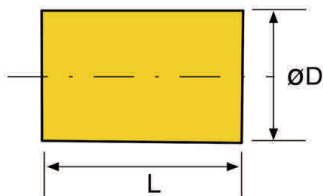
* ID/OD tolerances: G8s8



Metric**Sintered Bronze**

Shafts & Bearings

Oilite® Solid Bars

**Shafts & Bearings Solid Bars****DISCOUNTS**

1 - 9	List Price
10-24	-22%
25-49	-38%
50-99	-44%
100+	-52%

PART NUMBER	Diameter ØD	Length L	Price Each
HPCQAB000420	6.3	31.8	£6.03
HPCQAB000624	9.5	38.0	£6.84
HPCQAB000824	12.6	38.0	£8.70
HPCQAB001032	15.8	51.0	£10.55
HPCQAB001232	19.0	51.0	£13.34
HPCQAB001432	22.2	51.0	£15.66
HPCQAB001640	25.4	63.5	£53.36
HPCQAB001868	28.5	108.0	£52.78
HPCQAB002040	31.7	63.5	£29.29
HPCQAB002244	34.9	69.9	£39.67
HPCQAB002268	34.9	108.0	£110.20
HPCQAB002644	41.2	69.9	£45.24
HPCQAB002668	41.2	108.0	£96.80
HPCQAB002844	44.4	69.9	£73.26
HPCQAB003068	47.6	108.0	£129.00
HPCQAB003244	50.7	69.9	£97.35
HPCQAB003468	53.9	108.0	£168.29
HPCQAB004268	66.6	108.0	£254.89
HPCQAB005068	79.3	108.0	£357.80
HPCQAB005868	92.0	108.0	£479.14
HPCQAB006668	104.7	108.0	£636.13

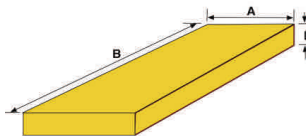


Shafts & Bearings

Metric

Oilite® Plates

Sintered Bronze



Shafts & Bearings Oilite® Plates

DISCOUNTS

1 - 9	List Price
10-24	-22%
25-49	-38%
50-99	-44%
100+	-52%

PART NUMBER	A (Width)		B (Width)		Stock Thickness	PRICE EACH
	Nominal	Min.	Nominal	Min.		
HPCQAP010450	25.4	23	108	105.6	12.7	£67.15
HPCQAP050825	127	127	203	204	6.35	£109.04
HPCQAP050838					9.50	£235.74
HPCQAP050850					12.7	£234.90
HPCQAP061225	152.4	152.4	305	304.8	6.35	£226.20
HPCQAP061238					9.50	£435.23
HPCQAP061250					12.7	£582.32
HPCQAP101025	254	254	254	254	6.35	£226.20
HPCQAP101050					12.7	£686.00

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4.26



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Lubrication

Standard OILITE® bearings are impregnated with a highly refined mineral oil to ISO VG (SAE 30) having a high viscosity index and containing anti-oxidant, anti-rust and defoamant additives.

A replenishment of oil should be carried out after 1000 hours of use or yearly. These intervals can be extended for bearings with relatively thick walls and shortened for low porosity bearings. Bearings running submerged in oil or in oil-splash will not require replenishment.

A wide range of operating temperatures are available. Please contact our Technical Department for further information.

To prevent possible seizures with stainless steel or hard-chromium plated shafts, an addition of molybdenum disulphide to the impregnation oil must be specified.

Any particular application thought to be outside standard conditions should be referred to our Technical Department.

However, here are some basic rules:

1. Low viscosity oil for low temperatures, high speeds or light loads
2. High viscosity oil for high temperatures, low speeds or heavy loads
3. High viscosity index oil for wide variations in operating temperatures
4. Oxidation stable oils for long-period usage
5. Oil with 'oiliness' additives for boundary conditions
6. Oil of lesser 'oiliness' for full film (hydrodynamic) conditions
7. Oil with Extreme Pressure (E.P.) additives for very heavy or shock loads

Fitting

Before fitting make sure that all sharp edges are removed from the housing and mating shaft. The bearing must be free from grit and dust. Wash in oil if storage conditions are in doubt and re-oil if held in stock for more than a year or if stored in contact with an absorbent material.

Always use steady pressure to insert the bearing. Never use hammer blows. Shafts should ideally be hardened to approximately HRC 60 and ground to a surface roughness of Ra = 0.25 μ m.

Imperial

The standard inch range of OILITE® bearings is made to fit H8 housings and majority will give H8 fitted bores.

Metric

The standard metric range of OILITE® bearings to ISO 2795 is made to G7/s7 limits of tolerance. These bearings when fitted into a rigid H7 housing, using a m5 fitting pin, will give a H7 bore, which when run on a f7 shaft will give good performance.

Note: In extreme circumstances a combination of tolerances can make insertion of the fitting pin difficult. For advice on the recommended course of action in such cases contact our Technical Department.

Storage

OILITE® bearings can be stored for considerable periods without deterioration or loss of oil if kept in a metal or other non-absorbent container, at room temperature. Proximity to heat could cause oil loss by sweating, in which case re-oiling is necessary before fitting.

Re-oiling

After machining of the bearing, or following oil loss during storage, immerse in high quality mineral oil to ISO VG 68 or ISO VG 150 (SAE 30 or SAE 40) at 60°C to 70° for 10 to 15 minutes and then cool in cold oil.

Machining

A specialised Machine Shop is available and would be pleased to quote for your specific requirements.

Please contact our Technical Department.

Metric caution

IN THE EU THERE ARE AT LEAST THREE 'STANDARDS' COVERING DIMENSIONS AND TOLERANCES OF METRIC BEARINGS

All the metric (ISO) bearings in this catalogue are manufactured to the tolerances set out in ISO 2795 - Plain Bearings from Sintered Material.

ISO 2795 is the standard used by the BSI for this type of bearings; it is widely used in other European countries.

Bearings conforming to other metric standards used in the EU are available in Britain; bearings made to these other standards may not suit the ISO 2795 fitting requirements and vice-versa. Incompatibility may result in bearing seizure or much reduced life, therefore great care must be taken in selecting matched bearing, housing, fitting-pin and shaft sizes. Bearings can be manufactured to meet many of these other standards; therefore, please contact our Technical Department for advice.

Please note that whilst we strive to increase the wide range of stock sizes the right to remove sizes from the list or later tolerances are retained.

Material specifications

		Mandatory Values						Informative Values				
		Chemical Composition				Mechanical & Physical Properties						
Materials	MB Grade	(4) C Total	Cu	Fe	Sn	Total Other Elements Max. %	(1) Open Porosity P Min. %	(1) Oil Content Min. %	(2) Radial Crushing Strength K Min. N/mm ²	(1) Density P Nominal g/cm ³	Static Load Max N/mm ²	(3) PV factor N/mm ² x m/s
		Oilite®	MB01-1	<0.3	Balance		9 to 11	2	27	24	120	6.0
	MB01-2	<0.3	Balance		9 to 11	2	22	20	160	6.4	50	1.8

MB01-1 Applicable to Bars, Plate Material and Imperial Bearings

MB01-2 Applicable to Metric Bearings.

Other bearing materials for special applications are also available

- NOTES:
1. Density, oil content and open porosity determined according to BS5600 Pt 3 Section 3.2 1988
 2. Radial crushing strength, according to BS ENISO 2739:- 1998
 3. PV factor = Pressure (N/mm²) x bearing surface velocity (m/s) where pressure = load (N) ÷ projected area (d x L) and d = inside diameter (mm).
 4. Bars and Plates may contain up to 1% C.

Nearest equivalent specifications

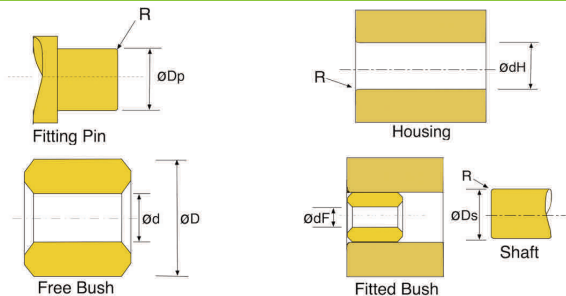
			UK BS5600	France	Germany	U.S.A.		
Materials	MB Grade	ISO 5755/1 1987	Part 5 Section 5.1 1988	NF ISO 5755/1 A 95-771-1	DIN 30 910 PART 3	M.P.I.F. STAND. 35	S.A.E	A.S.T.M.
Oilite®	MB01-1	P4011Z	P4011Z	FU-E10-60		CT-1000-K19	840	B438 Grd 1
Bronze	MB01-2	P4012Z	P4012Z	FU-E10-64	SintA50	CT-1000-K26	841	Type 2

Lubricants and additives

The standard stock range of Oilite® bearings is impregnated with a mineral oil SAE 30 viscosity; all machined Oilite® bearings and plates are supplied fully impregnated after machining. A wide range of lubricants is available to meet specific requirements within a temperature range of -60° C to 200° C, lubricant additives are also available to impart anti-wear properties in marginal lubrication conditions such as stainless steel shaft applications.



Imperial plain bushes - fitting data

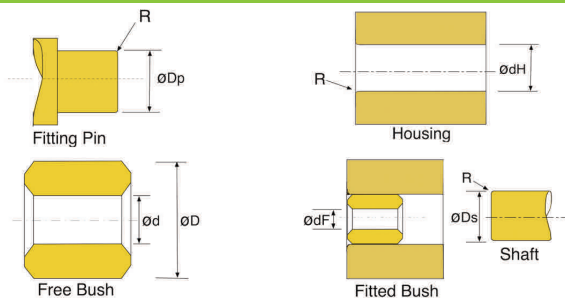


PART NUMBER	Basic Sizes		Ø dH" (H8)		Ø Dp"		Ø dF"			Ø Ds" (f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQI0305	3/16	5/16	0.3125	0.3134	0.1877	0.1879	0.1876	0.1866		0.1866	0.1871
HPCQI0406	1/4	3/8	0.3750	0.3759	0.2502	0.2504	0.2500	0.2507	H8	0.2489	0.2495
HPCQI0407	1/4	7/16	0.4375	0.4385	0.2498	0.2500	0.2496	0.2506		0.2484*	0.2490* *e7
HPCQI0408	1/4	1/2	0.5000	0.5010	0.2502	0.2504	0.2500	0.2504	H8	0.2489	0.2495
HPCQI0507	5/16	7/16	0.4375	0.4385	0.3127	0.3129	0.3125	0.3133	H8	0.3114	0.3120
HPCQI0508	5/16	1/2	0.5000	0.5010	0.3127	0.3129	0.3125	0.3131	H8	0.3114	0.3120
HPCQI0608	3/8	1/2	0.5000	0.5010	0.3752	0.3754	0.3750	0.3754	H8	0.3739	0.3745
HPCQI0610	3/8	5/8	0.6250	0.6260	0.3752	0.3754	0.3750	0.3759	H8	0.3739	0.3745
HPCQI0709	7/16	9/16	0.5625	0.5635	0.4377	0.4379	0.4375	0.4385	H8	0.4362	0.4369
HPCQI0711	7/16	11/16	0.6875	0.6885	0.4377	0.4379	0.4375	0.4385	H8	0.4362	0.4369
HPCQI0810	1/2	5/8	0.6250	0.6260	0.5002	0.5005	0.5000	0.5009	H8	0.4987	0.4994
HPCQI0811	1/2	11/16	0.6875	0.6885	0.5002	0.5005	0.5000	0.5012		0.4987	0.4994
HPCQI0812	1/2	3/4	0.7500	0.7512	0.5002	0.5005	0.5000	0.5010	H8	0.4987	0.4994
HPCQI0911	9/16	11/16	0.6875	0.6885	0.5625	0.5628	0.5625	0.5634	H8	0.5612	0.5619
HPCQI0912	9/16	3/4	0.7500	0.7512	0.5635	0.5638	0.5633	0.5644		0.5618*	0.5625* *h7
HPCQI1012	5/8	3/4	0.7500	0.7512	0.6252	0.6255	0.6250	0.6263		0.6237	0.6244
HPCQI1013	5/8	13/16	0.8125	0.8137	0.6252	0.6255	0.6250	0.6269		0.6237	0.6244
HPCQI1014	5/8	7/8	0.8750	0.8762	0.6252	0.6255	0.6250	0.6259	H8	0.6237	0.6244
HPCQI1115	11/16	15/16	0.9375	0.9387	0.6877	0.6880	0.6875	0.6880	H8	0.6892	0.6869

Imperial plain bushes - fitting data

PART NUMBER	Basic Sizes		Ø dH" (H8)		Ø Dp"		Ø dF"			Ø Ds" (f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQI1214	3/4	7/8	0.8750	0.8762	0.7502	0.7505	0.7500	0.7513		0.7484	0.7492
HPCQI1215	3/4	15/16	0.9375	0.9387	0.7516	0.7519	0.7514	0.7531		0.7499*	0.7508* *k7
HPCQI1216	3/4	1	1.0000	1.0012	0.7502	0.7505	0.7500	0.7512	H8	0.7484	0.7492
HPCQI1218	3/4	1 1/8	1.1250	1.1262	0.7502	0.7505	0.7500	0.7512		0.7484	0.7492
HPCQI1220	3/4	1 1/4	1.2000	1.2516	0.7502	0.7505	0.7500	0.7520		0.7484	0.7492
HPCQI1416	7/8	1	1.0000	1.0012	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQI1418	7/8	1 1/8	1.1250	1.1262	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQI1618	1	1 1/8	1.1250	1.1262	1.0002	1.0006	1.0000	1.0012	H8	0.9984	0.9992
HPCQI1620	1	1 1/4	1.1250	1.2516	1.0002	1.0006	1.0000	1.0012	H8	0.9984	0.9992
HPCQI1624	1	1 1/2	1.5000	1.5016	1.0002	1.0006	1.0000	1.0016		0.9984	0.9992
HPCQI1822	1 1/8	1 3/8	1.3750	1.3766	1.1252	1.1256	1.1250	1.1265		1.1234	1.1244
HPCQI2024	1 1/4	1 1/2	1.5000	1.5016	1.2502	1.2506	1.2500	1.2514	H8	1.2480	1.2490
HPCQI2026	1 1/4	1 5/8	1.6250	1.6266	1.2502	1.2506	1.2500	1.2526		1.2480	1.2490
HPCQI2226	1 3/8	1 5/8	1.6250	1.6266	1.3752	1.3756	1.3750	1.3765	H8	1.3730	1.3740
HPCQI2228	1 3/8	1 3/4	1.7500	1.7516	1.3752	1.3756	1.3750	1.3765	H8	1.3730	1.3740
HPCQI2428	1 1/2	1 3/4	1.7500	1.7516	1.5002	1.5006	1.5000	1.5014	H8	1.4980	1.4990
HPCQI2430	1 1/2	1 7/8	1.8750	1.8766	1.5002	1.5006	1.5000	1.5016	H8	1.4980	1.4990
HPCQI2432	1 1/2	2	2.0000	2.0018	1.5002	1.5006	1.5000	1.5025		1.4980	1.4990
HPCQI2633	1 5/8	2 1/16	2.0625	2.0643	1.6252	1.6258	1.6250	1.6274		1.6230	1.6240
HPCQI2832	1 3/4	2	2.0000	2.0018	1.7502	1.7508	1.7500	1.7515	H8	1.7480	1.7490
HPCQI2836	1 3/4	2 1/4	2.2500	2.2518	1.7502	1.7508	1.7500	1.7515	H8	1.7480	1.7490
HPCQI3236	2	2 1/4	2.2500	2.2518	2.0002	2.0008	2.0000	2.0015	H8	1.9976	1.9988
HPCQI3240	2	2 1/2	2.2500	2.5018	2.0002	2.0008	2.0000	2.0011	H8	1.9976	1.9988
HPCQI3642	2 1/4	2 5/8	2.6250	2.6268	2.2502	2.2508	2.2500	2.2536		2.2476	2.2488
HPCQI3644	2 1/4	2 3/4	2.7500	2.7518	2.2502	2.2508	2.2500	2.2512	H8	2.2476	2.2488
HPCQI4048	2 1/2	3	3.0000	3.0018	2.5002	2.5008	2.5000	2.5013	H8	2.4976	2.4988
HPCQI4856	3	3 1/2	3.4980	3.5003	2.9957	2.9967	2.9955	2.9986		2.9922*	2.9940* *c8

Metric plain bushes - fitting data



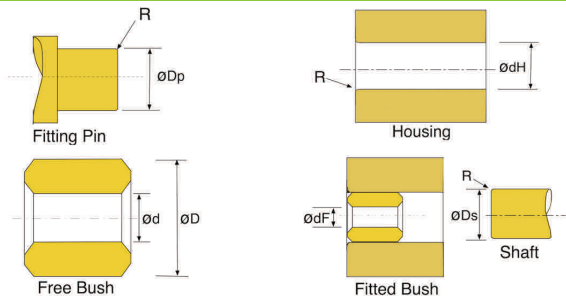
PART NUMBER	Basic Sizes		$\varnothing d_H$ (H7)		$\varnothing D_p$ (m5)		$\varnothing d_F$ (H7)		$\varnothing D_s$ (f7)	
	$\varnothing d$	$\varnothing D$	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM0205	2	5	5.000	5.012	2.002	2.006	2.000	2.010	1.984	1.994
HPCQM0305	3	5	5.000	5.012	3.002	3.006	3.000	3.010	2.984	2.994
HPCQM0306	3	6	6.000	6.012	3.002	3.006	3.000	3.010	2.984	2.994
HPCQM0407	4	7	7.000	7.015	4.004	4.009	4.000	4.012	3.978	3.990
HPCQM0408	4	8	8.000	8.015	4.004	4.009	4.000	4.012	3.978	3.990
HPCQM0508	5	8	8.000	8.015	5.004	5.009	5.000	5.012	4.978	4.990
HPCQM0509	5	9	9.000	9.015	5.004	5.009	5.000	5.012	4.978	4.990
HPCQM0609	6	9	9.000	9.015	6.004	6.009	6.000	6.012	5.978	5.990
HPCQM0610	6	10	10.000	10.015	6.004	6.009	6.000	6.012	5.978	5.990
HPCQM0710	7	10	10.000	10.015	7.005	7.012	7.000	7.015	6.972	6.987
HPCQM0711	7	11	11.000	11.018	7.005	7.012	7.000	7.015	6.972	6.987
HPCQM0811	8	11	11.000	11.018	8.006	8.012	8.000	8.015	7.972	7.987
HPCQM0812	8	12	12.000	12.018	8.006	8.012	8.000	8.015	7.972	7.987
HPCQM0814	8	14	14.000	14.018	8.006	8.012	8.000	8.015	7.972	7.987
HPCQM0912	9	12	12.000	12.018	9.006	9.012	9.000	9.015	8.972	8.987
HPCQM0914	9	14	14.000	14.018	9.006	9.012	9.000	9.015	8.972	8.987
HPCQM1013	10	13	13.000	13.018	10.006	10.012	10.000	10.015	9.972	9.987
HPCQM1014	10	14	14.000	14.018	10.006	10.012	10.000	10.015	9.972	9.987

Metric plain bushes - fitting data

PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM1015	10	15	15.000	15.018	10.006	10.012	10.000	10.015	9.972	9.987
HPCQM1016	10	16	16.000	16.018	10.006	10.012	10.000	10.015	9.972	9.987
HPCQM1215	12	15	15.000	15.018	12.007	12.015	12.000	12.018	11.966	11.984
HPCQM1216	12	16	16.000	16.018	12.007	12.015	12.000	12.018	11.966	11.984
HPCQM1218	12	18	18.000	18.018	12.007	12.015	12.000	12.018	11.966	11.984
HPCQM1418	14	18	18.000	18.018	14.007	14.015	14.000	14.018	13.966	13.984
HPCQM1420	14	20	20.000	20.021	14.007	14.015	14.000	14.018	13.966	13.984
HPCQM1519	15	19	19.000	19.021	15.007	15.015	15.000	15.018	14.966	14.984
HPCQM1521	15	21	21.000	21.021	15.007	15.015	15.000	15.018	14.966	14.984
HPCQM1620	16	20	22.000	20.021	16.007	16.015	16.000	16.018	15.966	15.984
HPCQM1622	16	22	22.000	22.021	16.007	16.015	16.000	16.018	15.966	15.984
HPCQM1822	18	22	22.000	22.021	18.007	18.015	18.000	18.018	17.966	17.984
HPCQM1824	18	24	24.000	24.021	18.007	18.015	18.000	18.018	17.966	17.984
HPCQM1825	18	25	25.000	25.021	18.007	18.015	18.000	18.018	17.966	17.984
HPCQM2024	20	24	24.000	24.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2025	20	25	25.000	25.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2026	20	26	26.000	26.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2028	20	28	28.000	28.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2227	22	27	27.000	27.021	22.008	22.017	22.000	22.021	21.959	21.980
HPCQM2228	22	28	28.000	28.021	22.008	22.017	22.000	22.021	21.959	21.980
HPCQM2232	22	32	32.000	32.025	22.008	22.017	22.000	22.021	21.959	21.980
HPCQM2530	25	30	30.000	30.021	25.008	25.017	25.000	25.021	24.959	24.980
HPCQM2532	25	32	32.000	32.025	25.008	25.017	25.000	25.021	24.959	24.980
HPCQM2535	25	35	35.000	35.025	25.008	25.017	25.000	25.021	24.959	24.980
HPCQM2836	28	36	36.000	36.025	28.008	28.017	28.000	28.021	27.959	27.980
HPCQM3035	30	35	35.000	35.025	30.008	30.017	30.000	30.021	29.959	29.980
HPCQM3038	30	38	38.000	38.025	30.008	30.017	30.000	30.021	29.959	29.980
HPCQM3040	30	40	40.000	40.025	30.008	30.017	30.000	30.021	29.959	29.980



Metric plain bushes - fitting data



PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM3238	32	38	38.000	38.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQM3240	32	40	40.000	40.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQM3541	35	41	41.000	41.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQM3544	35	44	44.000	44.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQM3545	35	45	45.000	45.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQM3642	36	42	42.000	42.025	36.009	36.020	36.000	36.025	35.950	35.975
HPCQM3645	36	45	45.000	45.025	36.009	36.020	36.000	36.025	35.950	35.975
HPCQM3844	38	44	44.000	44.025	38.009	38.020	38.000	38.025	37.950	37.975
HPCQM3848	38	48	48.000	48.025	38.009	38.020	38.000	38.025	37.950	37.975
HPCQM4046	40	46	46.000	46.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQM4050	40	50	50.000	50.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQM4248	42	48	48.000	48.025	42.009	42.020	42.000	42.025	41.950	41.975
HPCQM4252	42	52	52.000	52.030	42.009	42.020	42.000	42.039	41.950	41.975
HPCQM4551	45	51	51.000	51.030	45.009	45.020	45.000	45.039	41.950	41.975
HPCQM4555	45	55	55.000	55.030	45.009	45.020	45.000	45.039	44.950	44.975
HPCQM4556	45	56	56.000	56.030	45.009	45.020	45.000	45.039	44.950	44.975
HPCQM4855	48	55	55.000	55.030	48.009	48.020	48.000	48.039	47.950	47.975
HPCQM4858	48	58	58.000	58.030	48.009	48.020	48.000	48.039	47.950	47.975

Metric plain bushes - fitting data

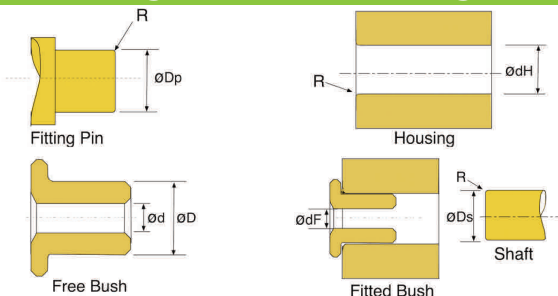
PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM5060	50	60	60.000	60.030	50.009	50.020	50.000	50.039	49.950	49.975
HPCQM5563	55	63	63.000	63.030	55.010	55.024	55.000	55.046	54.940	54.970
HPCQM5565	55	65	65.000	65.030	55.010	55.024	55.000	55.046	54.940	54.970
HPCQM6068	60	68	68.000	68.030	60.010	60.024	60.000	60.046	59.940	59.970
HPCQM6070	60	70	70.000	70.030	60.010	60.024	60.000	60.046	59.940	59.970
HPCQM6072	60	72	72.000	72.030	60.010	60.024	60.000	60.046	59.940	59.970
HPCQM6370	63	70	70.000	70.030	63.010	63.024	63.000	63.046	62.940	62.970

Fitting Data Oilite® Bushes

'Never Knowingly Outpriced'



Imperial flanged bushes - fitting data



PART NUMBER	Basic Sizes"		Ø dH" (H8)		Ø" Dp		Ø" dF			Ø" Ds (f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQFI0305	3/16	5/16	0.3125	0.3134	0.1877	0.1879	0.1875	0.1883	H8	0.1866	0.1871
HPCQFI0406	1/4	3/8	0.3750	0.3759	0.2502	0.2504	0.2500	0.2504	H8	0.2489	0.2495
HPCQFI0508	5/16	1/2	0.5000	0.5010	0.3127	0.3129	0.3125	0.3127	H8	0.3114	0.3120
HPCQFI0509	5/16	9/16	0.5625	0.5635	0.3116	0.3118	0.3114	0.3121		0.3100*	0.3109* *d8
HPCQFI0608	3/8	1/2	0.5000	0.5010	0.3752	0.3754	0.3750	0.3756	H8	0.3739	0.3745
HPCQFI0609	3/8	9/16	0.5625	0.5635	0.3744	0.3746	0.3742	0.3748		0.3739*	0.3745* *d8
HPCQFI0610	3/8	5/8	0.6250	0.6260	0.3752	0.3754	0.3750	0.3758	H8	0.3739	0.3745
HPCQFI0709	7/16	9/16	0.5625	0.5635	0.4390	0.4392	0.4388	0.4401		0.4376*	0.4383* *k7
HPCQFI0810	1/2	5/8	0.6250	0.6260	0.4997	0.4999	0.4995	0.5001	J8	0.4981*	0.4988* *e7
HPCQFI0812	1/2	3/4	0.7500	0.7512	0.5002	0.5005	0.5000	0.5009	H8	0.4987	0.4994
HPCQFI1012	5/8	3/4	0.7500	0.7512	0.6266	0.6269	0.6264	0.6275		0.6251*	0.6258* *k7
HPCQFI1014	5/8	7/8	0.8750	0.8762	0.6252	0.6255	0.6250	0.6259	H8	0.6237	0.6244
HPCQFI1216	3/4	1	1.0000	1.0012	0.7502	0.7505	0.7500	0.7512	H8	0.7484	0.7492
HPCQFI1416	7/16	1	1.0000	1.0012	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQFI1418	7/16	1 1/8	1.1250	1.1262	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQFI1620	1	1 1/4	1.2500	1.2516	1.0007	1.0010	1.0050	1.0017		0.9993*	1.0000* *h7
HPCQFI1822	1 1/8	1 3/8	1.3750	1.3766	1.1252	1.1256	1.1250	1.1262	H8	1.1234	1.1244
HPCQFI2024	1 1/4	1 1/2	1.5000	1.5016	1.2502	1.2506	1.2500	1.2514	H8	1.2480	1.2490

Imperial flanged bushes - fitting data

PART NUMBER	Basic Sizes'		Ø dH" (H8)		Ø" Dp		Ø" dF			Ø" Ds (f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQFI2026	1 1/4	1 5/8	1.6250	1.6266	1.2502	1.2506	1.2500	1.2515	H8	1.2480	1.2490
HPCQFI2226	1 3/8	1 5/8	1.6250	1.6266	1.3740	1.3744	1.3738	1.3752		1.3720*	1.3730* *e7
HPCQFI2428	1 1/2	1 3/4	1.7485§	1.7502§	1.5012	1.5016	1.5010	1.5020	F8	1.4990*	1.5000* *h7
HPCQFI2430	1 1/2	1 7/8	1.8750	1.8766	1.5002	1.5006	1.5000	1.5015	H8	1.4980	1.4990

SM8

Fitting Data Oilite® Bushes

Imperial stock tolerances

Tolerances

Plain Bearings

Flanged Bearings

Length: L < 11/2" ± 0.005"
L > 11/2" < 3" ± 0.010"

Length: L < 11/2" ± 0.005"
L > 11/2" < 3" ± 0.010

Concentricity: Full indicated movement, D with respect to d;
d < 1/2" 0.002" max
d > 1/2" < 11/2" 0.003" max
d > 11/2" 0.004" max

Flange thickness e ± 0.003"
Flange diameter D1 ± 0.005"

Concentricity: Full indicated movement, D with respect to d:

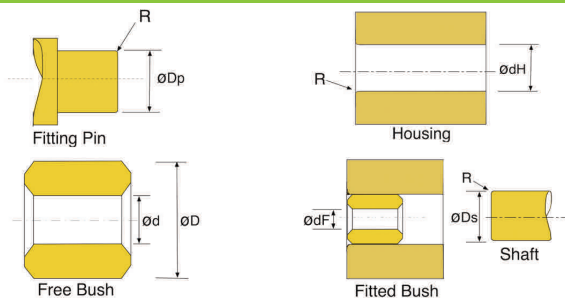
d < 1/2" 0.002" max
d > 1/2" < 11/2" 0.003" max
d > 11/2" 0.004" max

Chamfers: 45° chamfers are incorporated on inside and outside diameters at each end of bush. Chamfer length varies with bush wall thickness and outside diameter.

Radii: Radii varies with bush wall thickness and outside diameter. Contact our technical Department for details.



Metric flanged bushes - fitting data



PART NUMBER	Basic Sizes		$\varnothing d_H$ (H7)		$\varnothing D_p$ (m5)		$\varnothing d_F$ (H7)		$\varnothing D_s$ (f7)	
	$\varnothing d$	$\varnothing D$	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQFM0205	02	05	5.000	5.012	2.002	2.006	2.000	2.010	1.984	1.994
HPCQFM0306	03	06	6.000	6.012	3.002	3.006	3.000	3.010	2.984	1.994
HPCQFM0408	04	08	8.000	8.015	4.004	4.009	4.000	4.012	3.978	3.990
HPCQFM0509	05	09	9.000	9.015	5.004	5.009	5.000	5.012	4.978	4.990
HPCQFM0610	06	10	10.000	10.015	6.004	6.009	6.000	6.012	5.978	5.990
HPCQFM0711	07	11	11.000	11.018	7.005	7.012	7.000	7.015	6.972	6.987
HPCQFM0812	08	12	12.000	12.018	8.005	8.012	8.000	8.015	7.972	7.987
HPCQFM1013	10	13	13.000	13.018	10.005	10.012	10.000	10.015	9.972	9.987
HPCQFM1015	10	15	15.000	15.018	10.005	10.012	10.000	10.015	9.972	9.987
HPCQFM1016	10	16	16.000	16.018	10.005	10.012	10.000	10.015	9.972	9.987
HPCQFM1215	12	15	15.000	15.018	12.006	12.015	12.000	12.018	11.966	11.984
HPCQFM1217	12	17	17.000	17.018	12.006	12.015	12.000	12.018	11.966	11.984
HPCQFM1218	12	18	18.000	18.018	12.006	12.015	12.000	12.018	11.966	11.984
HPCQFM1420	14	20	20.000	20.021	14.006	14.015	14.000	14.018	13.966	13.984
HPCQFM1519	15	19	19.000	19.021	15.006	15.015	15.000	15.018	14.966	14.984
HPCQFM1521	15	21	21.000	21.021	15.006	15.015	15.000	15.018	14.966	14.984
HPCQFM1620	16	20	20.000	20.021	16.006	16.015	16.000	16.018	15.966	15.984
HPCQFM1622	16	22	22.000	22.021	16.006	16.015	16.000	16.018	15.966	15.984

Metric flanged bushes - fitting data

PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQFM1824	18	24	24.000	24.021	18.006	18.015	18.000	18.018	17.966	17.984
HPCQFM2024	20	24	24.000	24.021	20.007	20.017	20.000	20.021	19.959	19.980
HPCQFM2026	20	26	26.000	26.021	20.007	20.017	20.000	20.021	19.959	19.980
HPCQFM2228	22	28	28.000	28.021	22.007	22.017	22.000	22.021	21.959	21.980
HPCQFM2530	25	30	30.000	30.021	25.007	25.017	25.000	22.021	24.959	24.980
HPCQFM2532	25	32	32.000	32.025	25.007	25.017	25.000	25.021	24.959	24.980
HPCQFM2836	28	36	36.000	36.025	28.007	28.017	28.000	28.021	27.959	27.980
HPCQFM3038	30	38	38.000	38.025	30.007	30.017	30.000	30.021	29.959	29.980
HPCQFM3238	32	38	38.000	38.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQFM3240	32	40	40.000	40.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQFM3545	35	45	45.000	45.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQFM3848	38	48	48.000	48.025	38.009	38.020	38.000	38.025	37.950	37.975
HPCQFM4046	40	46	46.000	46.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQFM4050	40	50	50.000	50.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQFM4252	42	52	52.000	52.030	42.009	42.020	42.000	42.039	41.950	41.975
HPCQFM4555	45	55	55.000	55.030	45.009	45.020	45.000	45.039	44.950	44.975
HPCQFM5060	50	60	60.000	60.030	50.009	50.020	50.000	50.039	49.950	49.975

Fitting Data Oilite® Bushes

'Never Knowingly Outpriced'



Metric flanged bushes - fitting data

Metric stock tolerances

Plain Bearings

Length:	L js 13
Concentricity:	Full indicated movement.
D with respect to d:	D < 50 mm IT9; D > 50 mm, IT 10.

Flanged Bearings

Length:	L js 13
Flange thickness:	e js 13
Flange diameter:	D js 13
Concentricity:	Full indicated movement. D with respect to d: D < 50 mm IT9; D > 50mm, IT10.

Chamfers:

45° chamfers are incorporated on inside and outside diameters at each end of the bush. Chamfer length varies with bush wall thickness and outside diameter.

Flanged Bearings

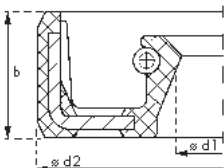
Radii (between outside diameter and flange face)	
Outside Diameter	r max.
≤ 12	0.3
>12 ≤ 30	0.6
>30	0.8

Plain and Flanged Bearings

Tolerances							
Nominal Sizes (mm)		Standard Tolerances					
-	3	0.025	-	0.070	0.070		
3	6	0.030	-	0.090	0.090		
6	10	0.036	-	0.110	0.110		
10	18	0.043	-	0.135	0.135		
18	30	0.052	-	0.165	0.165		
30	50	0.062	-	0.195	0.195		
50	80	-	0.120	0.230	0.230		

DISCOUNTS

	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200+	-55%



The rubber elastomer outer covering tolerates thermal expansion as well as roughness in the housing bore. There will be no fretting corrosion. Furthermore, damage of the housing bore will be prevented when frequently replacing the seals. This qualifies for sealing gaseous or liquid media.

PART NUMBER	Bore Ø ød1	Ø D ød2	Length L b	PRICE EACH 1-5
HPCBE5-15-6	5	15	6	£2.81
HPCBE6-15-6	6	15	6	£2.81
HPCBE8-16-7	8	16	7	£2.81
HPCBE8-22-7	8	22	7	£2.81
HPCBE9-22-7	9	22	7	£2.81
HPCBE10-16-4	10	16	4	£2.81
HPCBE10-18-5	10	18	5	£2.81
HPCBE10-22-8	10	22	8	£2.81
HPCBE10-26-7	10	26	7	£3.02
HPCBE11-22-8	11	22	8	£3.02
HPCBE12-20-5	12	20	5	£2.81
HPCBE12-22-6	12	22	6	£2.81
HPCBE12-26-8	12	26	8	£3.02
HPCBE14-30-8	14	30	8	£3.02
HPCBE15-30-8	15	30	8	£3.02
HPCBE16-30-10	16	30	10	£3.02
HPCBE17-32-10	17	32	10	£3.75
HPCBE18-32-10	18	32	10	£4.80
HPCBE20-32-7	20	32	7	£3.75
HPCBE25-35-10	25	35	10	£4.80



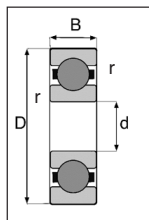
Open Type



+2RS Type
Rubber Shields



+ZZ Type
Metal Shields



DISCOUNTS	
1 - 5	List Price
6-19	-30%
20-39	-40%
40-59	-50%
60-99	-55%
100+	-60%

Please specify Open, Rubber or Metal Shields when ordering:

Part Number examples:

HPC6000, HPC 6008-2RS, HPC6204-ZZ, etc.

PART NUMBER	Dimensions			Basic Load Rating KN		Limiting Speed rpm		PRICE EACH 1-5			
	d	D	B	r (min)	Dynamic Cr	Static Cor	Grease	Oil	Open	2RS	ZZ
HPC6000	10	26	8	0.30	4.55	1.96	29000	34000	£6.17	£7.12	£6.53
HPC6001	12	28	8	0.30	5.10	2.40	26000	30000	£6.24	£7.16	£6.58
HPC6002	15	32	9	0.30	5.60	2.84	22000	26000	£7.13	£8.18	£7.55
HPC6003	17	35	10	0.30	6.80	3.35	20000	24000	£7.42	£8.54	£7.85
HPC6004	20	42	12	0.60	9.40	5.05	18000	21000	£8.78	£9.80	£9.01
HPC6005	25	47	12	0.60	10.10	5.85	15000	18000	£9.18	£10.56	£9.72
HPC6006	30	55	13	1.00	13.20	8.30	13000	15000	£12.40	£14.26	£13.25
HPC6007	35	62	14	1.00	16.00	10.30	12000	14000	£14.39	£16.55	£15.21
HPC6008	40	68	15	1.00	16.80	11.50	10000	12000	£16.37	£18.83	£17.31
HPC6009	45	75	16	1.00	21.00	15.10	9200	11000	£20.41	£23.49	£21.59
HPC6010	50	80	16	1.00	21.80	16.60	8400	9800	£28.19	£32.43	£29.82

Single Row Radial Ball Bearings

PART NUMBER	Dimensions				Basic Load Rating KN		Limiting Speed rpm		PRICE EACH 1-5		
	d	D	B	r (min)	Dynamic Cr	Static Cor	Grease	Oil	Open	2RS	ZZ
HPC6200	10	30	9	0.60	5.10	2.40	25000	30000	£6.17	£7.12	£6.55
HPC6201	12	32	10	0.60	6.10	2.75	22000	26000	£6.17	£7.12	£6.53
HPC6202	15	35	11	0.60	7.75	3.60	19000	23000	£6.40	£6.40	£6.78
HPC6203	17	40	12	0.60	9.60	4.60	18000	21000	£7.42	£8.54	£7.85
HPC6204	20	47	14	1.00	12.80	6.65	16000	18000	£8.87	£10.21	£9.38
HPC6205	25	52	15	1.00	14.00	7.85	13000	15000	£9.91	£11.42	£10.49
HPC6206	30	62	16	1.00	19.50	11.30	11000	13000	£14.15	£16.27	£14.96
HPC6207	35	72	17	1.10	25.70	15.30	9800	11000	£15.37	£17.66	£16.24
HPC6208	40	80	18	1.10	29.10	17.80	8700	10000	£22.70	£26.10	£24.00
HPC6209	45	85	19	1.10	32.50	20.40	7800	9200	£25.76	£29.61	£27.26
HPC6210	50	90	20	1.10	35.00	23.20	7100	8300	£35.86	£41.23	£37.93
HPC6300	10	35	11	0.60	8.20	3.50	23000	27000	£7.16	£8.23	£7.58
HPC6301	12	37	12	1.00	9.70	4.20	20000	24000	£7.38	£8.51	£7.81
HPC6302	15	42	13	1.00	11.40	5.45	17000	21000	£9.53	£10.97	£10.09
HPC6303	17	47	14	1.00	13.50	6.55	16000	19000	£9.28	£9.50	£9.81
HPC6304	20	52	15	1.10	15.90	7.90	14000	17000	£10.50	£12.06	£11.10
HPC6305	25	62	17	1.10	21.20	10.90	12000	14000	£11.61	£15.05	£13.39
HPC6306	30	72	19	1.10	26.70	15.00	10000	12000	£15.56	£19.60	£17.99
HPC6307	35	80	21	1.50	33.50	19.10	8800	10000	£20.92	£27.30	£24.11
HPC6308	40	90	23	1.50	40.50	24.00	7800	9200	£29.60	£38.53	£33.94
HPC6309	45	100	25	1.50	53.00	32.00	7000	8200	£37.38	£48.61	£43.00
HPC6310	50	110	27	2.00	62.00	38.50	6400	7500	£48.74	£63.16	£55.88

Please specify Open, Rubber or Metal Shields when ordering:

Part Number examples:

HPC6000, HPC 6008-2RS, HPC6204-ZZ, etc.

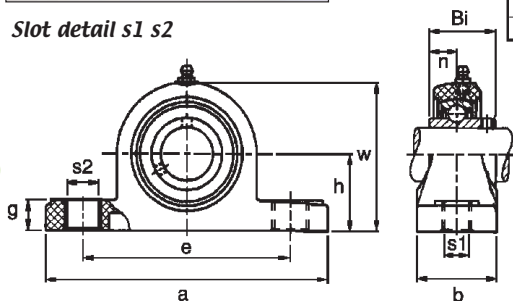




DISCOUNTS

Quantity	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-45%
500+	-48%

Slot detail s1 s2



PART NUMBER	Bearing Bore Dia.		Dimensions (mm)				
	mm	inch	h	a	e	b	s1
HPCPPL204S/S	20	3/4	33.3	127	95	38	11
HPCPPL205S/S	25	13/16, 7/8, 15/16, 1	36.5	140.5	105	38	11
HPCPPL206S/S	30	1 1/16, 1 1/8, 1 3/16, 1 1/4	42.9	163	119	46	14
HPCPPL207S/S	35	1 1/4, 1 5/16, 1 3/8, 1 7/16	47.6	168	127	48	14
HPCPPL208S/S	40	1 1/2, 1 9/16	49.2	184	137	54	14

PART NUMBER	Dimensions (mm)					Weight (kg)	Max. Torque		PRICE EACH 1-5
	s2	g	w	Bi	n		Bolt Dia.	Nm	
HPCPPL204S/S	14	14.2	65.5	31	12.7	0.12	M10	18	£49.76
HPCPPL205S/S	14	14.5	71	34	14.3	0.14	M10	25	£54.60
HPCPPL206S/S	18	17.8	84	38.1	15.9	0.20	M12	30	£77.56
HPCPPL207S/S	18	18	94.5	42.9	17.5	0.25	M12	35	£92.18
HPCPPL208S/S	18	19.5	99	49.2	19	0.35	M12	45	£102.48

Material

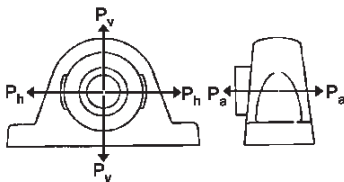
PBT High-grade Glass-filled Thermoplastic Polyester

Shafts & Bearings

Pillow Block

- **Material: PBT**
- **Interchangeable with Cast Iron Housing**
- **Suitable for temperatures from -35°C to 102°C**
- **Stainless steel grease nipples as standard**
- **FDA approved**
- **Closed end cover as standard**
- **Solid base**

Housing tear-out strength



MODE OF LOAD	Breaking Point of Housing (N)				
	204	205	206	207	208
P_h	8800	13700	12650	12750	13100
P_v	7700	10000	10600	10800	11100
P_a	5000	8100	5750	7500	8500

Shafts & Bearings

Material

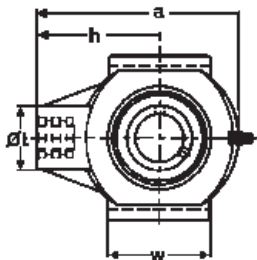
PBT High-grade Glass-filled Thermoplastic Polyester

Take Up



DISCOUNTS

	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-45%
500+	-48%



Shafts & Bearings Take Up

PART NUMBER	Bearing Bore Dia.		Dimensions (mm)				
	mm	inch	a	c	d	h	m
HPCTPL204S/S	20	3/4	99	27.5	12	64	76
HPCTPL205S/S	25	13/16, 7/8, 15/16, 1	99	27.5	12	64	76
HPCTPL206S/S	30	1 1/16, 1 1/8, 1 3/16, 1 1/4	125	34.5	12	76	89
HPCTPL207S/S	35	1 1/4, 1 5/16, 1 3/8, 1 7/16	125	34.5	12	76	89
HPCTPL208S/S	40	1 1/2, 1 9/16	140	34.5	16	85	102

PART NUMBER	Dimensions (mm)						Weight (kg)	PRICE EACH 1-5
	s	t	v	w	Bi	n		
HPCTPL204S/S	M16	36	88	47	31	12.7	0.16	£50.32
HPCTPL205S/S	M16	36	88	47	34	14.3	0.17	£55.29
HPCTPL206S/S	M16	40	102	63	38.1	15.9	0.22	£80.38
HPCTPL207S/S	M16	40	102	63	42.9	17.5	0.26	£94.13
HPCTPL208S/S	M16	40	114	80	49.2	19	0.38	£105.72

4.46

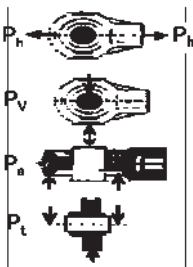


Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

- Material: PBT
- Interchangeable with Cast Iron Housing
- Suitable for temperatures from -35C° to 102C°
- Stainless steel grease nipples as standard
- FDA approved
- Closed end cover as standard
- Solid base

Housing tear-out strength



MODE OF LOAD	Breaking Point of Housing (N)				
	204	205	206	207	208
P_h	14800	15500	15800	16500	17300
P_v	3930	4530	5100	6500	7800
P_a	8500	10350	10900	11300	12150
P_t	40770	45300	46100	44100	42800

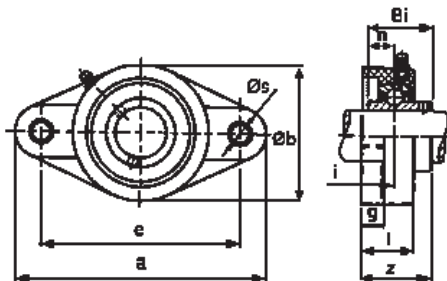
2 Bolt Flange

PBT High-grade Glass-filled Thermoplastic Polyester



DISCOUNTS

Quantity	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-45%
500+	-48%



PART NUMBER	Bearing Bore Dia.		Dimensions (mm)				
	mm	inch	a	e	b	g	l
HPCNFL204S/S	20	3/4	113	90	65	11.4	26.5
HPCNFL205S/S	25	13/16, 7/8, 15/16, 1	131	99	69.5	13.5	29.1
HPCNFL206S/S	30	1 1/16, 1 1/8, 1 3/16, 1 1/4	148	117	80	13.3	30.5
HPCNFL207S/S	35	1 1/4, 1 5/16, 1 3/8, 1 7/16	164	130	90	16.1	32.8
HPCNFL208S/S	40	1 1/2, 1 9/16	176	144	100	20	37.5

PART NUMBER	Dimensions					Weight (kg)	Max. Torque		PRICE EACH 1-5
	s	z	i	Bi	n		Bolt Dia.	Nm	
HPCNFL204S/S	11	33.7	15.4	31	12.7	0.08	M10	18	£49.76
HPCNFL205S/S	11	36.7	17	34	14.3	0.10	M10	25	£54.60
HPCNFL206S/S	11	41.2	19	38.1	15.9	0.13	M10	30	£77.56
HPCNFL207S/S	13	43.4	18	42.9	17.5	0.16	M12	35	£92.18
HPCNFL208S/S	14	51.7	21.5	49.2	19	0.24	M12	40	£102.48

Material

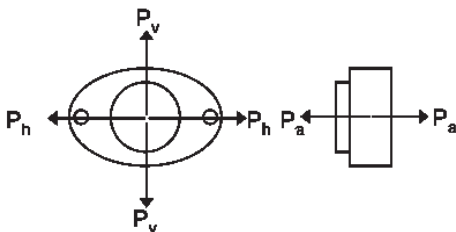
PBT High-grade Glass-filled Thermoplastic
Polyester

Shafts & Bearings

2 Bolt Flange

- **Material: PBT**
- **Interchangeable with Cast Iron Housing**
- **Suitable for temperatures from -35C° to 102C°**
- **Stainless steel grease nipples as standard**
- **FDA approved**
- **Closed end cover as standard**
- **Solid base**

Housing tear-out strength



MODE OF LOAD	Breaking Point of Housing (N)				
	204	205	206	207	208
P_h	11750	11375	16450	16900	17350
P_v	11000	13850	13350	13950	14050
P_a	8500	11100	14200	14900	15150



Shafts & Bearings

Material

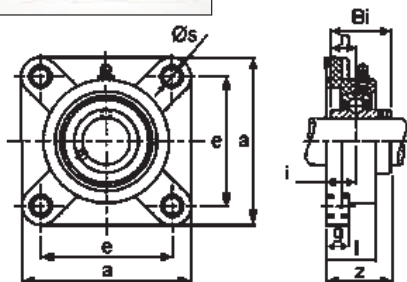
4 Bolt Flange

PBT High-grade Glass-filled Thermoplastic Polyester



DISCOUNTS

Quantity	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-45%
500+	-48%



PART NUMBER	Bearing Bore Dia.		Dimensions (mm)				
	mm	inch	a	e	g	l	s
HPCFPL204S/S	20	$\frac{3}{4}$	86	63.5	13.4	27.8	11
HPCFPL205S/S	25	$\frac{13}{16}, \frac{7}{8}, \frac{15}{16}, 1$	95	70	14	28	11
HPCFPL206S/S	30	$1\frac{1}{16}, 1\frac{1}{8}, 1\frac{3}{16}, 1\frac{1}{4}$	107	83	14.3	31.5	11
HPCFPL207S/S	35	$1\frac{1}{4}, 1\frac{5}{16}, 1\frac{3}{8}, 1\frac{7}{16}$	118	92	15.5	34.8	13
HPCFPL208S/S	40	$1\frac{1}{2}, 1\frac{9}{16}$	130	102	17	37.5	14

PART NUMBER	Dimensions (mm)				Weight (kg)	Max. Torque		PRICE EACH 1-5
	z	i	Bi	n		Bolt Dia.	Nm	
HPCFPL204S/S	36.3	18	31	12.7	0.12	M10	18	£49.76
HPCFPL205S/S	36.7	17	34	14.3	0.15	M10	25	£54.56
HPCFPL206S/S	41.4	19.2	38.1	15.9	0.18	M10	30	£77.56
HPCFPL207S/S	46.9	21.5	42.9	17.5	0.26	M12	35	£92.18
HPCFPL208S/S	53.2	23	49.2	19	0.33	M12	40	£102.48

Shafts & Bearings 4 Bolt Flange

4.50



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Material

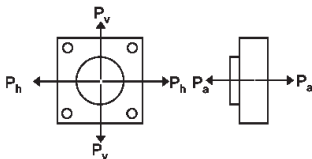
PBT High-grade Glass-filled Thermoplastic
Polyester

Shafts & Bearings

4 Bolt Flange

- **Material: PBT**
- **Interchangeable with Cast Iron Housing**
- **Suitable for temperatures from -35C° to 102C°**
- **Stainless steel grease nipples as standard**
- **FDA approved**
- **Closed end cover as standard**
- **Solid base**

Housing tear-out strength



MODE OF LOAD	Breaking Point of Housing (N)				
	204	205	206	207	208
P_h	15950	13000	18000	18500	19100
P_v	10250	12150	17700	18500	19250
P_a	3650	3350	3350	3520	3790



Shafts & Bearings

Material

Pillow Blocks

Cast Iron Housing
Steel Bearing



DISCOUNTS

1 - 5	List Price
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-399	-48%
400-499	-51%
500+	-55%

Shafts & Bearings Pillow Blocks

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)				
	(in.)	(mm)	H	L	J	A	N
HPCUCP202	-	15	30.2	125	96	32	12
HPCUCP202-10	5/8	-	30.2	125	96	32	12
HPCUCP203	-	17	30.2	125	96	32	12
HPCUCP204-12	3/4	-	33.3	127	96	37	13
HPCUCP204	-	20	33.3	127	96	37	13
HPCUCP205-14	7/8	-	36.5	140	105	38	13
HPCUCP205	-	25	36.5	140	105	38	13
HPCUCP205-16	1	-	36.5	140	105	38	13
HPCUCP206-18	1 1/8	-	42.9	160	121	44	14
HPCUCP206	-	30	42.9	160	121	44	14
HPCUCP207-20	1 1/4	-	47.6	167	126	48	15
HPCUCP207-22	1 3/8	-	47.6	167	126	48	15
HPCUCP207	-	35	47.6	167	126	48	15
HPCUCP208-24	1 1/2	-	49.2	180	136	52	15
HPCUCP208	-	40	49.2	180	136	52	15
HPCUCP209-26	1 5/8	-	54	189	146	54	15
HPCUCP209-28	1 3/4	-	54	189	146	54	15
HPCUCP209	-	45	54	189	146	54	15
HPCUCP210-30	1 7/8	-	57.2	204	159	57	19
HPCUCP210	-	50	57.2	204	159	57	19
HPCUCP211-32	2	-	63.5	217	172	60	19

4.52



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

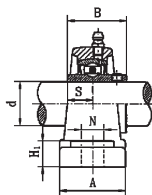
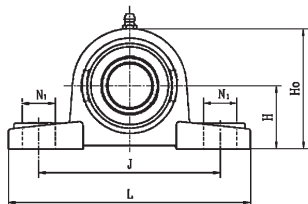
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Material

Cast Iron Housing
Steel Bearing

Shafts & Bearings

Pillow Blocks



PART NUMBER	Dimensions (mm)					Bolt Size	Weight (kg)	PRICE EACH 1-5
	N1	H1	H0	S	B			
HPCUCP202	16	13	57	11.5	27.4	M10	0.500	£17.64
HPCUCP202-10	16	13	57	11.5	27.4	M10	0.500	£13.15
HPCUCP203	16	13	57	11.5	27.4	M10	0.500	£17.64
HPCUCP204-12	16	14	63.8	12.7	31	M10	0.680	£13.15
HPCUCP204	16	14	63.8	12.7	31	M10	0.680	£13.23
HPCUCP205-14	19	15	69.5	14.3	34	M10	0.700	£15.79
HPCUCP205	19	15	69.5	14.3	34	M10	0.700	£15.40
HPCUCP205-16	19	15	69.5	14.3	34	M10	0.700	£15.79
HPCUCP206-18	19	16	82	15.9	38.1	M12	1.300	£18.54
HPCUCP206	19	16	82	15.9	38.1	M12	1.300	£19.77
HPCUCP207-20	19	17	92	17.5	42.9	M12	1.700	£21.57
HPCUCP207-22	19	17	92	17.5	42.9	M12	1.700	£21.57
HPCUCP207	19	17	92	17.5	42.9	M12	1.700	£23.23
HPCUCP208-24	21	18	98	19	49.2	M12	2.100	£24.53
HPCUCP208	21	18	98	19	49.2	M12	2.100	£27.68
HPCUCP209-26	21	20	105.5	19	49.2	M12	3.000	£28.08
HPCUCP209-28	21	20	105.5	19	49.2	M12	3.300	£28.08
HPCUCP209	21	20	105.5	19	49.2	M12	2.100	£30.98
HPCUCP210-30	22	21	112.2	19	51.6	M16	3.700	£33.82
HPCUCP210	22	21	112.2	19	51.6	M16	3.700	£36.51
HPCUCP211-32	22	22	124.5	22.2	55.6	M16	4.800	£42.10

Shafts & Bearings Pillow Blocks



Shafts & Bearings

Material

Pillow Blocks

Cast Iron Housing
Steel Bearing



DISCOUNTS

1 - 5	List Price
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-399	-48%
400-499	-51%
500+	-55%

Shafts & Bearings Pillow Blocks

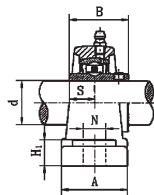
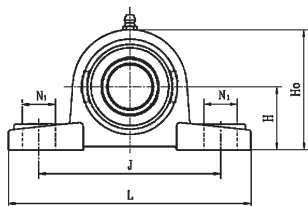
PART NUMBER	Shaft Dia. (d)		Dimensions (mm)				
	(in.)	(mm)	H	L	J	A	N
HPCUCP211-34	2 1/8	-	63.5	217	172	60	19
HPCUCP211	-	55	63.5	217	172	60	19
HPCUCP212-36	2 1/4	-	69.9	238	186	66	19
HPCUCP212	-	60	69.9	238	186	66	19
HPCUCP212-38	2 3/8	-	69.9	238	186	66	19
HPCUCP213-40	2 1/2	-	76.2	262	203	70	23
HPCUCP213	-	65	76.2	262	203	70	23
HPCUCP214-44	2 3/4	-	79.4	266	210	72	23
HPCUCP214	-	70	79.4	266	210	72	23
HPCUCP215	-	75	82.6	274	217	74	25
HPCUCP215-48	3	-	82.6	274	217	74	25
HPCUCP216	-	80	88.9	292	232	78	25
HPCUCP217-52	3 1/4	-	95.2	310	247	83	25
HPCUCP217	-	85	95.2	310	247	83	25
HPCUCP218-56	3 1/2	-	101.6	326	262	88	27
HPCUCP218	-	90	101.6	326	262	88	27

Material

Cast Iron Housing
Steel Housing

Shafts & Bearings

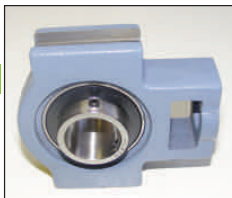
Pillow Blocks



PART NUMBER	Dimensions (mm)					Bolt Size	Weight (kg)	PRICE EACH 1-5
	N1	H1	H0	S	B			
HPCUCP211-34	22	22	124.5	22.2	55.6	M16	4.800	£42.10
HPCUCP211	22	22	124.5	22.2	55.6	M16	4.800	£50.48
HPCUCP212-36	25	24	137	25.4	65.1	M16	5.900	£51.29
HPCUCP212	25	24	137	25.4	65.1	M16	5.900	£63.38
HPCUCP212-38	25	24	137	25.4	65.1	M16	5.900	£51.29
HPCUCP213-40	29	26	149	25.4	65.1	M20	5.900	£86.23
HPCUCP213	29	26	149	25.4	65.1	M20	5.900	£90.15
HPCUCP214-44	29	27	155	30.2	74.6	M20	11.500	£135.05
HPCUCP214	29	27	155	30.2	74.6	M20	6.700	£108.22
HPCUCP215	29	28	161.6	33.3	77.8	M20	11.500	£156.05
HPCUCP215-48	29	28	161.6	33.3	77.8	M20	11.500	£135.05
HPCUCP216	30	30	174	33.3	82.6	M20	8.750	£156.77
HPCUCP217-52	30	32	186	34.1	85.7	M20	10.800	£216.97
HPCUCP217	30	32	186	34.1	85.7	M20	10.800	£211.79
HPCUCP218-56	30	33	198	39.7	96	M22	11.000	£273.66
HPCUCP218	30	33	198	39.7	96	M22	14.700	£267.15

Shafts & Bearings Pillow Blocks





DISCOUNTS

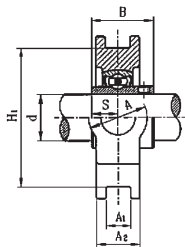
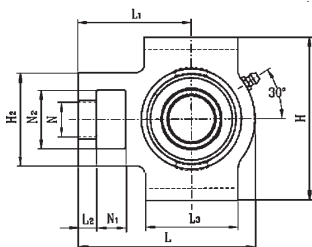
	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-399	-48%
400-499	-51%
500+	-55%

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)						
	(in.)	(mm)	N1	L2	H2	N2	N	L3	A1
HPCUCT204-12	3/4	-	16	10	51	32	19	51	12
HPCUCT204	-	20	16	10	51	32	19	51	12
HPCUCT205-14	7/8	-	16	10	51	32	19	51	12
HPCUCT205	-	25	16	10	51	32	19	51	12
HPCUCT205-16	1	-	16	10	51	32	19	51	12
HPCUCT206-18	1 1/8	-	16	10	56	37	22	57	12
HPCUCT206	-	30	16	10	56	37	22	57	12
HPCUCT206-20	1 1/4	-	16	10	56	37	22	57	12
HPCUCT207-22	1 3/8	-	16	13	64	37	22	64	12
HPCUCT207	-	35	16	13	64	37	22	64	12
HPCUCT208-24	1 1/2	-	19	16	83	49	29	83	16
HPCUCT208	-	40	19	16	83	49	29	83	16
HPCUCT209-28	1 3/4	-	19	16	83	49	29	83	16
HPCUCT209	-	45	19	16	83	49	29	83	16
HPCUCT210-30	1 7/8	-	19	16	83	49	29	86	16
HPCUCT210	-	50	19	16	83	49	29	86	16
HPCUCT211-32	2	-	25	19	102	64	35	95	22
HPCUCT211-34	2 1/8	-	25	19	102	64	35	95	22
HPCUCT211	-	55	25	19	102	64	35	95	22

Material
Cast Iron Housing

Shafts & Bearings

Take-Up Units



PART NUMBER	Dimensions (mm)								Weight (kg)	PRICE EACH 1-5
	H1	H	L	A	A2	L1	B	S		
HPCUCT204-12	76	89	94	32	21	61	31	12.7	0.790	£22.02
HPCUCT204	76	89	94	32	21	61	31	12.7	0.790	£22.02
HPCUCT205-14	76	89	97	32	24	62	34	14.3	0.880	£24.22
HPCUCT205	76	89	97	32	24	62	34	14.3	0.880	£25.78
HPCUCT205-16	76	89	97	32	24	62	34	14.3	0.880	£26.55
HPCUCT206-18	89	102	113	37	28	70	38.1	15.9	1.300	£28.74
HPCUCT206	89	102	113	37	28	70	38.1	15.9	1.300	£31.32
HPCUCT206-20	89	102	113	37	28	70	38.1	15.9	1.300	£28.74
HPCUCT207-22	89	102	129	37	30	78	42.9	17.5	1.700	£36.15
HPCUCT207	89	102	129	37	30	78	42.9	17.5	1.700	£36.78
HPCUCT208-24	102	114	144	49	33	88	49.2	19	2.500	£42.24
HPCUCT208	102	114	144	49	33	88	49.2	19	2.500	£39.88
HPCUCT209-28	102	117	144	49	35	87	49.2	19	2.500	£47.46
HPCUCT209	102	117	144	49	35	87	49.2	19	2.500	£46.73
HPCUCT210-30	102	117	149	49	37	90	51.6	19	2.600	£47.85
HPCUCT210	102	117	149	49	37	90	51.6	19	2.600	£52.96
HPCUCT211-32	130	146	171	64	38	106	55.6	22.2	4.000	£66.25
HPCUCT211-34	130	146	171	64	38	106	55.6	22.2	4.000	£60.44
HPCUCT211	130	146	171	64	38	106	55.6	22.2	4.000	£69.07

Shafts & Bearings Take-Up Units



Shafts & Bearings

Material

Take-Up Units

Cast Iron Housing



DISCOUNTS

	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-399	-48%
400-499	-51%
500+	-55%

Shafts & Bearings Take-Up Units

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)						
	(in.)	(mm)	N1	L2	H2	N2	N	L3	A1
HPCUCT212-36	2 1/4	-	32	19	102	64	35	102	22
HPCUCT212	-	60	32	19	102	64	35	102	22
HPCUCT212-38	2 3/8	-	32	19	102	64	35	102	22
HPCUCT213-40	2 1/2	-	32	21	111	70	41	121	26
HPCUCT213	-	65	32	21	111	70	41	121	26
HPCUCT214-44	2 3/4	-	32	21	111	70	41	121	26
HPCUCT214	-	70	32	21	111	70	41	121	26
HPCUCT215	-	75	32	21	111	70	41	121	26
HPCUCT215-48	3	-	32	21	111	70	41	121	26
HPCUCT216	-	80	32	21	111	70	41	121	26
HPCUCT217-52	3 1/4	-	38	29	124	73	48	157	30
HPCUCT217	-	85	38	29	124	73	48	157	30

'Never Knowingly Outpriced'

4.58



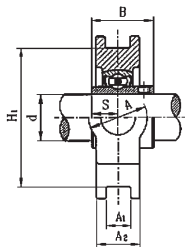
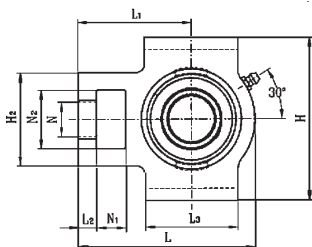
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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Material
Cast Iron Housing

Shafts & Bearings

Take-Up Units



PART NUMBER	Dimensions (mm)								Weight (kg)	PRICE EACH 1-5
	H1	H	L	A	A2	L1	B	S		
HPCUCT212-36	130	146	194	64	42	119	65.1	25.4	4.900	£89.08
HPCUCT212	130	146	194	64	42	119	65.1	25.4	4.900	£83.17
HPCUCT212-38	130	146	194	64	42	119	65.1	25.4	4.900	£81.25
HPCUCT213-40	151	167	224	70	44	137	65.1	25.4	7.000	£144.42
HPCUCT213	151	167	224	70	44	137	65.1	25.4	7.000	£98.31
HPCUCT214-44	151	167	224	70	46	137	74.6	30.2	7.100	£131.75
HPCUCT214	151	167	224	70	46	137	74.6	30.2	7.100	£135.78
HPCUCT215	151	167	232	70	48	140	77.8	33.3	7.500	£169.09
HPCUCT215-48	151	167	232	70	48	140	77.8	33.3	7.500	£165.57
HPCUCT216	165	184	235	70	51	140	82.6	33.3	8.200	£193.83
HPCUCT217-52	173	198	260	73	54	162	85.7	34.1	11.000	£236.46
HPCUCT217	173	198	260	73	54	162	85.7	34.1	11.000	£228.91

Shafts & Bearings Take-Up Units



Shafts & Bearings

Material

Take-Up Units

Cast Iron Housing



DISCOUNTS

Quantity	List Price
1 - 5	-12%
6-19	-25%
20-39	-33%
40-59	-37%
60-99	-42%
100-199	-48%
200-399	-51%
400-499	-55%
500+	-55%

Shafts & Bearings Take-Up Units

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)						
	(in.)	(mm)	N1	L2	H2	N2	N	L3	A1
HPCUCST204-12	3/4	-	16	10	51	32	19	51	13.5
HPCUCST204	-	20	16	10	51	32	19	51	13.5
HPCUCST205-14	7/8	-	16	10	51	32	19	51	13.5
HPCUCST205	-	25	16	10	51	32	19	51	13.5
HPCUCST205-16	1	-	16	10	51	32	19	51	13.5
HPCUCST206-18	1 1/8	-	16	10	56	37	22	57	13.5
HPCUCST206	-	30	16	10	56	37	22	57	13.5
HPCUCST207-20	1 1/4	-	16	13	64	37	22	64	13.5
HPCUCST207-22	1 3/8	-	16	13	64	37	22	64	13.5
HPCUCST207	-	35	16	13	64	37	22	64	13.5
HPCUCST208-24	1 1/2	-	19	16	83	49	29	83	17.5
HPCUCST208	-	40	19	16	83	49	29	83	17.5
HPCUCST209-26	1 5/8	-	19	16	83	49	29	83	17.5
HPCUCST209-28	1 3/4	-	19	16	83	49	29	83	17.5
HPCUCST209	-	45	19	16	83	49	29	83	17.5
HPCUCST210-30	1 7/8	-	19	16	83	49	29	86	17.5
HPCUCST210	-	50	19	16	83	49	29	86	17.5
HPCUCST211-32	2	-	25	19	102	64	35	95	27
HPCUCST211-34	2 1/8	-	25	19	102	64	35	95	27
HPCUCST211	-	55	25	19	102	64	35	95	27
HPCUCST212-36	2 1/4	-	32	19	102	64	35	102	27
HPCUCST212	-	60	32	19	102	64	35	102	27
HPCUCST212-38	2 3/8	-	32	19	102	64	35	102	27

4.60



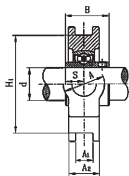
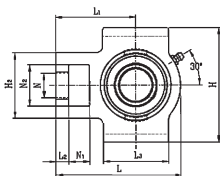
Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Material
Cast Iron Housing

Shafts & Bearings

Take-Up Units



PART NUMBER	Dimensions (mm)									Weight (kg)	PRICE EACH 1-5
	H1	H	L	A	A2	L1	B	S			
HPCUCST204-12	76	89	94	32	21	61	31	12.7	0.800	£15.45	
HPCUCST204	76	89	94	32	21	61	31	12.7	0.800	£15.10	
HPCUCST205-14	76	89	97	32	24	62	34	14.3	0.880	£18.37	
HPCUCST205	76	89	97	32	24	62	34	14.3	0.880	£17.92	
HPCUCST205-16	76	89	97	32	24	62	34	14.3	0.880	£18.37	
HPCUCST206-18	89	102	113	37	28	70	38.1	15.9	1.300	£21.78	
HPCUCST206	89	102	113	37	28	70	38.1	15.9	1.300	£21.29	
HPCUCST207-20	89	102	129	37	30	78	42.9	17.5	1.700	£25.05	
HPCUCST207-22	89	102	129	37	30	78	42.9	17.5	1.700	£25.05	
HPCUCST207	89	102	129	37	30	78	42.9	17.5	1.700	£24.42	
HPCUCST208-24	102	114	144	49	33	88	49.2	19	2.500	£29.26	
HPCUCST208	102	114	144	49	33	88	49.2	19	2.500	£28.57	
HPCUCST209-26	102	117	144	49	35	87	49.2	19	2.500	£32.99	
HPCUCST209-28	102	117	144	49	35	87	49.2	19	2.500	£32.99	
HPCUCST209	102	117	144	49	35	87	49.2	19	2.500	£32.22	
HPCUCST210-30	102	117	149	49	37	90	51.6	19	2.600	£36.33	
HPCUCST210	102	117	149	49	37	90	51.6	19	2.600	£35.46	
HPCUCST211-32	130	146	171	64	38	106	55.6	22.2	4.000	£49.20	
HPCUCST211-34	130	146	171	64	38	106	55.6	22.2	4.000	£49.20	
HPCUCST211	130	146	171	64	38	106	55.6	22.2	4.000	£48.05	
HPCUCST212-36	130	146	194	64	42	119	65.1	25.4	4.900	£61.70	
HPCUCST212	130	146	194	64	42	119	65.1	25.4	4.900	£60.20	
HPCUCST212-38	130	146	194	64	42	119	65.1	25.4	4.900	£61.70	

Shafts & Bearings Take-Up Units



Shafts & Bearings

Material

Oval Flange Units

Cast Iron Housing
Steel Bearing



DISCOUNTS

	List Price
1 - 5	-12%
6-19	-25%
20-39	-33%
40-59	-37%
60-99	-42%
100-199	-48%
200-399	-51%
400-499	-55%
500+	-55%

Shafts & Bearings Oval Flange Units

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)			
	(in.)	(mm)	H	J	L	A2
HPCUCFL202	-	15	99	76.5	57	15
HPCUCFL202-10	5/8	-	99	76.5	57	15
HPCUCFL203	-	17	99	76.5	57	15
HPCUCFL204-12	3/4	-	113	90	60	15
HPCUCFL204	-	20	113	90	60	15
HPCUCFL205-14	7/8	-	130	99	68	16
HPCUCFL205	-	25	130	99	68	16
HPCUCFL205-16	1	-	130	99	68	16
HPCUCFL206	-	30	148	117	80	18
HPCUCFL207-20	1 1/4	-	161	130	90	19
HPCUCFL207	-	35	161	130	90	19
HPCUCFL208-24	1 1/2	-	175	144	100	21
HPCUCFL208	-	40	175	144	100	21
HPCUCFL209-26	1 5/8	-	188	148	108	22
HPCUCFL209-28	1 3/4	-	188	148	108	22
HPCUCFL209	-	45	188	148	108	22
HPCUCFL210-30	1 7/8	-	197	157	115	22
HPCUCFL210	-	50	197	157	115	22
HPCUCFL211-32	2	-	224	184	130	25
HPCUCFL211-34	2 1/8	-	224	184	130	25
HPCUCFL211	-	55	224	184	130	25
HPCUCFL212-36	2 1/4	-	250	202	140	29
HPCUCFL212	-	60	250	202	140	29
HPCUCFL212-38	2 3/8	-	250	202	140	29

4.62



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

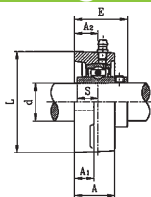
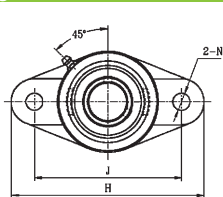
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Material

Cast Iron Housing
Steel Bearing

Shafts & Bearings

Oval Flange Units



PART NUMBER	Dimensions (mm)					Bolt Size	Weight (kg)	PRICE EACH 1-5
	A1	A	E	N	S			
HPCUCFL202	11	25.5	30.9	11.5	11.5	M10	0.450	£17.64
HPCUCFL202-10	11	25.5	30.9	11.5	11.5	M10	0.450	£18.06
HPCUCFL203	11	25.5	30.9	11.5	11.5	M10	0.450	£17.64
HPCUCFL204-12	11	25.5	33.3	11.5	12.7	M10	0.480	£13.15
HPCUCFL204	11	25.5	33.3	11.5	12.7	M10	0.480	£12.84
HPCUCFL205-14	13	27	35.7	11.5	14.3	M10	0.600	£15.79
HPCUCFL205	13	27	35.7	11.5	14.3	M10	0.600	£15.41
HPCUCFL205-16	13	27	35.7	11.5	14.3	M10	0.600	£15.79
HPCUCFL206	13	31	40.2	11.5	15.9	M10	0.900	£18.09
HPCUCFL207-20	14	34	44.4	14	17.5	M12	1.200	£21.57
HPCUCFL207	14	34	44.4	14	17.5	M12	1.200	£21.05
HPCUCFL208-24	14	36	51.2	14	19	M12	1.500	£24.53
HPCUCFL208	14	36	51.2	14	19	M12	1.500	£23.94
HPCUCFL209-26	16	38	52.2	18	19	M16	1.900	£28.08
HPCUCFL209-28	16	38	52.2	18	19	M16	1.900	£28.08
HPCUCFL209	16	38	52.2	18	19	M16	1.900	£27.42
HPCUCFL210-30	16	40	54.6	18	19	M16	2.200	£32.22
HPCUCFL210	16	40	54.6	18	19	M16	2.200	£31.94
HPCUCFL211-32	18	43	58.4	18	22.2	M16	3.100	£42.10
HPCUCFL211-34	18	43	58.4	18	22.2	M16	3.100	£57.94
HPCUCFL211	18	43	58.4	18	22.2	M16	3.100	£41.13
HPCUCFL212-36	18	48	68.7	18	25.4	M16	4.000	£51.29
HPCUCFL212	18	48	68.7	18	25.4	M16	4.000	£50.04
HPCUCFL212-38	18	48	68.7	18	25.4	M16	4.000	£51.29

Shafts & Bearings Oval Flange Units



Shafts & Bearings

Material

Square Flange Units

Cast Iron Housing
Steel Bearing



DISCOUNTS

	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-399	-48%
400-499	-51%
500+	-55%

Shafts & Bearings Square Flange

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)			
	(in.)	(mm)	L	J	A2	A1
HPCUCF202	-	15	76	54	15	11
HPCUCF202-10	5/8	-	76	54	15	11
HPCUCF203	-	17	76	54	15	11
HPCUCF204-12	3/4	-	86	64	15	11
HPCUCF204	-	20	86	64	15	11
HPCUCF205-14	7/8	-	95	70	16	13
HPCUCF205	-	25	95	70	16	13
HPCUCF205-16	1	-	95	70	16	13
HPCUCF206-18	1 1/8	-	108	83	18	13
HPCUCF206	-	30	108	83	18	13
HPCUCF207-20	1 1/4	-	117	92	19	15
HPCUCF207-22	1 3/8	-	117	92	19	15
HPCUCF207	-	35	117	92	19	15
HPCUCF208-24	1 1/2	-	130	102	21	15
HPCUCF208	-	40	130	102	21	15
HPCUCF209-26	1 5/8	-	137	105	22	16
HPCUCF209-28	1 3/4	-	137	105	22	16
HPCUCF209	-	45	137	105	22	16
HPCUCF210-30	1 7/8	-	143	111	22	16
HPCUCF210	-	50	143	111	22	16
HPCUCF211-32	2	-	162	130	25	18

4.64



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

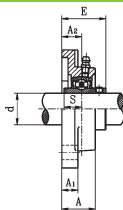
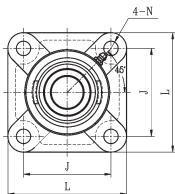
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Material

Cast Iron Housing
Steel Bearing

Shafts & Bearings

Square Flange Units



PART NUMBER	Dimensions (mm)				Bolt Size	Mass (kg)	PRICE EACH 1-5
	A	E	N	S			
HPCUCF202	25.5	30.9	11.5	11.5	M10	0.500	£17.64
HPCUCF202-10	25.5	30.9	11.5	11.5	M10	0.500	£17.29
HPCUCF203	25.5	30.9	11.5	11.5	M10	0.500	£17.64
HPCUCF204-12	25.5	33.3	11.5	12.7	M10	0.610	£13.15
HPCUCF204	25.5	33.3	11.5	12.7	M10	0.610	£13.23
HPCUCF205-14	27	35.7	11.5	14.3	M10	0.800	£15.79
HPCUCF205	27	35.7	11.5	14.3	M10	0.800	£15.40
HPCUCF205-16	27	35.7	11.5	14.3	M10	0.800	£15.79
HPCUCF206-18	31	40.2	11.5	15.9	M10	1.070	£18.54
HPCUCF206	31	40.2	11.5	15.9	M10	1.070	£19.77
HPCUCF207-20	34	44.4	14	17.5	M12	1.400	£21.57
HPCUCF207-22	34	44.4	14	17.5	M12	1.400	£21.57
HPCUCF207	34	44.4	14	17.5	M12	1.400	£23.23
HPCUCF208-24	36	51.2	14	19	M12	1.800	£24.53
HPCUCF208	36	51.2	14	19	M12	1.800	£27.68
HPCUCF209-26	38	52.2	16	19	M14	2.200	£28.08
HPCUCF209-28	38	52.2	16	19	M14	2.200	£28.08
HPCUCF209	38	52.2	16	19	M14	2.200	£30.98
HPCUCF210-30	40	54.6	18	19	M16	2.400	£44.30
HPCUCF210	40	54.6	18	19	M16	2.400	£36.51
HPCUCF211-32	43	58.4	18	22.2	M16	3.500	£42.10

Shafts & Bearings Square Flange



Shafts & Bearings

Square Flange Units

Material

Cast Iron Housing
Steel Bearing



DISCOUNTS

	List Price
1 - 5	
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-399	-48%
400-499	-51%
500+	-55%

Shafts & Bearings Square Flange

PART NUMBER	Shaft Dia. (d)		Dimensions (mm)			
	(in.)	(mm)	L	J	A2	A1
HPCUCF211-34	2 1/8	-	162	130	25	18
HPCUCF211	-	55	162	130	25	18
HPCUCF212-36	2 1/4	-	175	143	29	18
HPCUCF212	-	60	175	143	29	18
HPCUCF212-38	2 3/8	-	175	143	29	18
HPCUCF213-40	2 1/2	-	187	149	30	22
HPCUCF213	-	65	187	149	30	22
HPCUCF214-44	2 3/4	-	193	152	31	22
HPCUCF214	-	70	193	152	31	22
HPCUCF215	-	75	200	159	34	22
HPCUCF215-48	3	-	200	159	34	22

'Never Knowingly Outpriced'

4.66



Unit 14, Foxwood Industrial Park, Foxwood Rd, Chesterfield, Derbyshire S41 9RN

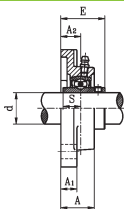
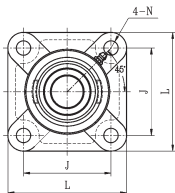
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Material

Cast Iron Housing
Steel Bearing

Shafts & Bearings

Square Flange Units



PART NUMBER	Dimensions (mm)				Bolt Size	Mass (kg)	PRICE EACH 1-5
	A	E	N	S			
HPCUCF211-34	43	58.4	18	22.2	M16	3.500	£42.10
HPCUCF211	43	58.4	18	22.2	M16	3.500	£50.48
HPCUCF212-36	48	68.7	18	25.4	M16	4.200	£51.29
HPCUCF212	48	68.7	18	25.4	M16	4.200	£63.38
HPCUCF212-38	48	68.7	18	25.4	M16	4.200	£51.29
HPCUCF213-40	50	69.7	18	25.4	M16	5.300	£86.23
HPCUCF213	50	69.7	18	25.4	M16	5.300	£90.15
HPCUCF214-44	54	75.4	18	30.2	M16	5.900	£98.20
HPCUCF214	54	75.4	18	30.2	M16	5.900	£108.22
HPCUCF215	56	78.5	18	33.3	M16	6.300	£156.05
HPCUCF215-48	56	78.5	18	33.3	M16	6.300	£135.05

'Never Knowingly Outpriced'

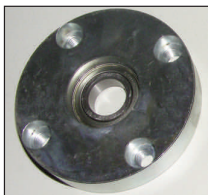
Shafts & Bearings Square Flange



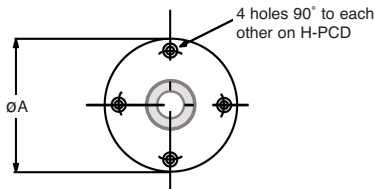
Shafts & Bearings

Single Housed Bearing Assembly (Round)

HPCBH01



Round



For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

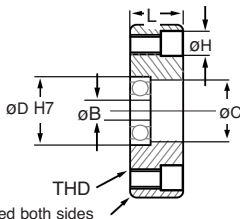
PART NUMBER	$\varnothing B$	$\varnothing D$	$\varnothing C$	L	$\varnothing A$	H
HPCBH0100-40-623	3	$\varnothing 10 \times 4 \text{Dp}$	$\varnothing 8.5$	8	40	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0100-40-634	4	$\varnothing 16 \times 5 \text{Dp}$	$\varnothing 14.0$	8	40	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0100-40-625	5	$\varnothing 16 \times 5 \text{Dp}$	$\varnothing 14.0$	8	40	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0100-40-606	6	$\varnothing 17 \times 6 \text{Dp}$	$\varnothing 15.0$	8	40	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0100-58-608	8	$\varnothing 22 \times 7 \text{Dp}$	$\varnothing 19.5$	12	58	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0100-58-6000	10	$\varnothing 26 \times 8 \text{Dp}$	$\varnothing 24.0$	12	58	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0100-58-6201	12	$\varnothing 32 \times 10 \text{Dp}$	$\varnothing 28.0$	12	58	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0100-94-6202	15	$\varnothing 35 \times 11 \text{Dp}$	$\varnothing 33.0$	18	94	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0100-94-6003	17	$\varnothing 35 \times 10 \text{Dp}$	$\varnothing 33.0$	18	94	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0100-94-6004	20	$\varnothing 42 \times 12 \text{Dp}$	$\varnothing 38.0$	18	94	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0100-94-6005	25	$\varnothing 47 \times 12 \text{Dp}$	$\varnothing 43.0$	18	94	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0100-94-6006	30	$\varnothing 55 \times 13 \text{Dp}$	$\varnothing 50.0$	18	94	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)

Shafts & Bearings

Single Housed Bearing Assembly (Round)

HPCBH01

MATERIAL :	
HOUSING	080 M40 (C45) STEEL Zinc Plated Natural
BEARING	Steel
SHIELDS (zz)	Steel



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price	-5%	-10%	-15%	-20%	-30%

PART NUMBER	H-PCD	THD	Bearing XX in Assembly	PRICE EACH 1-5
HPCBH0100-40-623	30	Ø4.20 (M5)	623zz 3x10x4	£20.53
HPCBH0100-40-634	30	Ø4.20 (M5)	634zz 4x16x5	£20.53
HPCBH0100-40-625	30	Ø4.20 (M5)	625zz 5x16x5	£20.53
HPCBH0100-40-606	30	Ø4.20 (M5)	606zz 6x17x6	£20.53
HPCBH0100-58-608	46	Ø5.20 (M6)	608zz 8x22x7	£25.49
HPCBH0100-58-6000	46	Ø5.20 (M6)	6000zz 10x26x8	£25.49
HPCBH0100-58-6201	46	Ø5.20 (M6)	6201zz 12x32x10	£25.49
HPCBH0100-94-6202	78	Ø8.50 (M10)	6202zz 15x35x11	£40.45
HPCBH0100-94-6003	78	Ø8.50 (M10)	6003zz 17x35x10	£40.45
HPCBH0100-94-6004	78	Ø8.50 (M10)	6004zz 20x42x12	£40.45
HPCBH0100-94-6005	78	Ø8.50 (M10)	6005zz 25x47x12	£40.45
HPCBH0100-94-6006	78	Ø8.50 (M10)	6006zz 30x55x13	£40.45

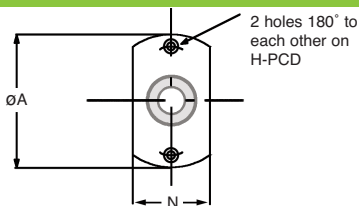
Shafts & Bearings

Single Housed Bearing Assembly (Double Flat)

HPCBH01



Double Flat



For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

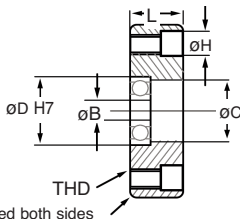
PART NUMBER	ϕB	ϕD	ϕC	L	ϕA	H
HPCBH0101-40-623	3	$\phi 10 \times 4 \text{Dp}$	$\phi 8.5$	8	40	$\phi 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0101-40-634	4	$\phi 16 \times 5 \text{Dp}$	$\phi 14.0$	8	40	$\phi 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0101-40-625	5	$\phi 16 \times 5 \text{Dp}$	$\phi 14.0$	8	40	$\phi 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0101-40-606	6	$\phi 17 \times 6 \text{Dp}$	$\phi 15.0$	8	40	$\phi 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0101-58-608	8	$\phi 22 \times 7 \text{Dp}$	$\phi 19.5$	12	58	$\phi 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0101-58-6000	10	$\phi 26 \times 8 \text{Dp}$	$\phi 24.0$	12	58	$\phi 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0101-58-6201	12	$\phi 32 \times 10 \text{Dp}$	$\phi 28.0$	12	58	$\phi 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0101-94-6202	15	$\phi 35 \times 11 \text{Dp}$	$\phi 33.0$	18	94	$\phi 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0101-94-6003	17	$\phi 35 \times 10 \text{Dp}$	$\phi 33.0$	18	94	$\phi 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0101-94-6004	20	$\phi 42 \times 12 \text{Dp}$	$\phi 38.0$	18	94	$\phi 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0101-94-6005	25	$\phi 47 \times 12 \text{Dp}$	$\phi 43.0$	18	94	$\phi 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0101-94-6006	30	$\phi 55 \times 13 \text{Dp}$	$\phi 50.0$	18	94	$\phi 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)

Shafts & Bearings

Single Housed Bearing Assembly (Double Flat)

HPCBH01

MATERIAL :	
HOUSING	080 M40 (C45) STEEL Zinc Plated Natural
BEARING	Steel
SHIELDS (zz)	Steel



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price		-5%	-10%	-15%	-20%

PART NUMBER	H-PCD	THD	Bearing XX in Assembly	N	PRICE EACH 1-5
HPCBH0101-40-623	30	Ø4.20 (M5)	623zz 3x10x4	24	£23.20
HPCBH0101-40-634	30	Ø4.20 (M5)	634zz 4x16x5	24	£23.20
HPCBH0101-40-625	30	Ø4.20 (M5)	625zz 5x16x5	24	£23.20
HPCBH0101-40-606	30	Ø4.20 (M5)	606zz 6x17x6	24	£23.20
HPCBH0101-58-608	46	Ø5.20 (M6)	608zz 8x22x7	40	£28.78
HPCBH0101-58-6000	46	Ø5.20 (M6)	6000zz 10x26x8	40	£28.78
HPCBH0101-58-6201	46	Ø5.20 (M6)	6201zz 12x32x10	40	£28.78
HPCBH0101-94-6202	78	Ø8.50 (M10)	6202zz 15x35x11	67	£40.45
HPCBH0101-94-6003	78	Ø8.50 (M10)	6003zz 17x35x10	67	£40.45
HPCBH0101-94-6004	78	Ø8.50 (M10)	6004zz 20x42x12	67	£40.45
HPCBH0101-94-6005	78	Ø8.50 (M10)	6005zz 25x47x12	67	£40.45
HPCBH0101-94-6006	78	Ø8.50 (M10)	6006zz 30x55x13	67	£40.45



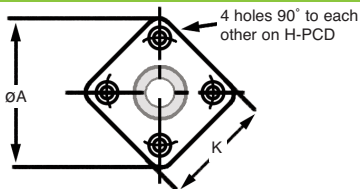
Shafts & Bearings

Single Housed Bearing Assembly (Square)

HPCBH01



Square



For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

PART NUMBER	$\varnothing B$	$\varnothing D$	$\varnothing C$	L	$\varnothing A$	H
HPCBH0102-40-623	3	$\varnothing 10 \times 4 Dp$	$\varnothing 8.5$	8	40	$\varnothing 7.5 \times 4.5 Dp$ (M4 Capscrew)
HPCBH0102-40-634	4	$\varnothing 16 \times 5 Dp$	$\varnothing 14.0$	8	40	$\varnothing 7.5 \times 4.5 Dp$ (M4 Capscrew)
HPCBH0102-40-625	5	$\varnothing 16 \times 5 Dp$	$\varnothing 14.0$	8	40	$\varnothing 7.5 \times 4.5 Dp$ (M4 Capscrew)
HPCBH0102-40-606	6	$\varnothing 17 \times 6 Dp$	$\varnothing 15.0$	8	40	$\varnothing 7.5 \times 4.5 Dp$ (M4 Capscrew)
HPCBH0102-58-608	8	$\varnothing 22 \times 7 Dp$	$\varnothing 19.5$	12	58	$\varnothing 9.5 \times 5.5 Dp$ (M5 Capscrew)
HPCBH0102-58-6000	10	$\varnothing 26 \times 8 Dp$	$\varnothing 24.0$	12	58	$\varnothing 9.5 \times 5.5 Dp$ (M5 Capscrew)
HPCBH0102-58-6201	12	$\varnothing 32 \times 10 Dp$	$\varnothing 28.0$	12	58	$\varnothing 9.5 \times 5.5 Dp$ (M5 Capscrew)
HPCBH0102-94-6202	15	$\varnothing 35 \times 11 Dp$	$\varnothing 33.0$	18	94	$\varnothing 15.0 \times 8.5 Dp$ (M8 Capscrew)
HPCBH0102-94-6003	17	$\varnothing 35 \times 10 Dp$	$\varnothing 33.0$	18	94	$\varnothing 15.0 \times 8.5 Dp$ (M8 Capscrew)
HPCBH0102-94-6004	20	$\varnothing 42 \times 12 Dp$	$\varnothing 38.0$	18	94	$\varnothing 15.0 \times 8.5 Dp$ (M8 Capscrew)
HPCBH0102-94-6005	25	$\varnothing 47 \times 12 Dp$	$\varnothing 43.0$	18	94	$\varnothing 15.0 \times 8.5 Dp$ (M8 Capscrew)
HPCBH0102-94-6006	30	$\varnothing 55 \times 13 Dp$	$\varnothing 50.0$	18	94	$\varnothing 15.0 \times 8.5 Dp$ (M8 Capscrew)

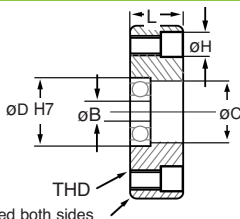


Shafts & Bearings

Single Housed Bearing Assembly (Square)

HPCBH01

MATERIAL :	
HOUSING	080 M40 (C45) STEEL Zinc Plated Natural
BEARING	Steel
SHIELDS (zz)	Steel



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price		-5%	-10%	-15%	-20%

PART NUMBER	H-PCD	THD	K	Bearing XX in Assembly	PRICE EACH 1-5
HPCBH0102-40-623	30	Ø4.20 (M5)	30	623zz 3x10x4	£24.26
HPCBH0102-40-634	30	Ø4.20 (M5)	30	634zz 4x16x5	£24.26
HPCBH0102-40-625	30	Ø4.20 (M5)	30	625zz 5x16x5	£24.26
HPCBH0102-40-606	30	Ø4.20 (M5)	30	606zz 6x17x6	£24.26
HPCBH0102-58-608	46	Ø5.20 (M6)	44	608zz 8x22x7	£30.38
HPCBH0102-58-6000	46	Ø5.20 (M6)	44	6000zz 10x26x8	£30.38
HPCBH0102-58-6201	46	Ø5.20 (M6)	44	6201zz 12x32x10	£30.38
HPCBH0102-94-6202	78	Ø8.50 (M10)	77	6202zz 15x35x11	£48.61
HPCBH0102-94-6003	78	Ø8.50 (M10)	77	6003zz 17x35x10	£48.61
HPCBH0102-94-6004	78	Ø8.50 (M10)	77	6004zz 20x42x12	£48.61
HPCBH0102-94-6005	78	Ø8.50 (M10)	77	6005zz 25x47x12	£48.61
HPCBH0102-94-6006	78	Ø8.50 (M10)	77	6006zz 30x55x13	£48.61

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Shafts & Bearings Single Housed Bearing Assembly

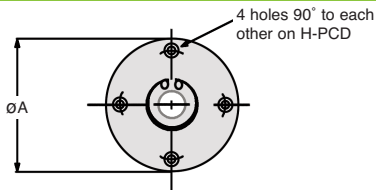
Shafts & Bearings

Single Housed Bearing Assembly (Round)

HPCBH02 - With Circlip Retainer



Round



With Circlip Retainer : 3 - 30mm Bores

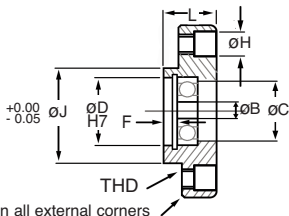
For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

PART NUMBER	$\varnothing B$	$\varnothing D$	$\varnothing C$	L	$\varnothing A$	$\varnothing J$	H
HPCBH0200-40-623	3	$\varnothing 10 \times 7 \text{Dp}$	$\varnothing 8.5$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0200-40-634	4	$\varnothing 16 \times 8 \text{Dp}$	$\varnothing 14.0$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0200-40-625	5	$\varnothing 16 \times 8 \text{Dp}$	$\varnothing 14.0$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0200-40-606	6	$\varnothing 17 \times 9 \text{Dp}$	$\varnothing 15.0$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0200-58-608	8	$\varnothing 22 \times 11 \text{Dp}$	$\varnothing 19.5$	16	58	$\varnothing 36 \times 4$	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0200-58-6000	10	$\varnothing 26 \times 12 \text{Dp}$	$\varnothing 24.0$	16	58	$\varnothing 36 \times 4$	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0200-58-6201	12	$\varnothing 32 \times 14 \text{Dp}$	$\varnothing 28.0$	16	58	$\varnothing 36 \times 4$	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0200-94-6202	15	$\varnothing 35 \times 18 \text{Dp}$	$\varnothing 33.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0200-94-6003	17	$\varnothing 35 \times 17 \text{Dp}$	$\varnothing 33.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0200-94-6004	20	$\varnothing 42 \times 19 \text{Dp}$	$\varnothing 38.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0200-94-6005	25	$\varnothing 47 \times 19 \text{Dp}$	$\varnothing 43.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0200-94-6006	30	$\varnothing 55 \times 20 \text{Dp}$	$\varnothing 50.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)

Shafts & Bearings

Single Housed Bearing Assembly (Round)

HPCBH02 - With Circlip Retainer



Chamfered on all external corners

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price	-5%	-10%	-15%	-20%	-30%

PART NUMBER	H-PCD	THD	Bearing XX in Assembly	F	PRICE EACH 1-5
HPCBH0200-40-623	30	Ø4.20 (M5)	623zz 3x10x4	3	£24.63
HPCBH0200-40-634	30	Ø4.20 (M5)	634zz 4x16x5	3	£24.63
HPCBH0200-40-625	30	Ø4.20 (M5)	625zz 5x16x5	3	£24.63
HPCBH0200-40-606	30	Ø4.20 (M5)	606zz 6x17x6	3	£24.63
HPCBH0200-58-608	46	Ø5.20 (M6)	608zz 8x22x7	4	£30.63
HPCBH0200-58-6000	46	Ø5.20 (M6)	6000zz 10x26x8	4	£30.63
HPCBH0200-58-6201	46	Ø5.20 (M6)	6201zz 12x32x10	4	£30.63
HPCBH0200-94-6202	78	Ø8.50 (M10)	6202zz 15x35x11	7	£48.56
HPCBH0200-94-6003	78	Ø8.50 (M10)	6003zz 17x35x10	7	£48.56
HPCBH0200-94-6004	78	Ø8.50 (M10)	6004zz 20x42x12	7	£48.56
HPCBH0200-94-6005	78	Ø8.50 (M10)	6005zz 25x47x12	7	£48.56
HPCBH0200-94-6006	78	Ø8.50 (M10)	6006zz 30x55x13	7	£48.56

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Shafts & Bearings Single Housed Bearing Assembly

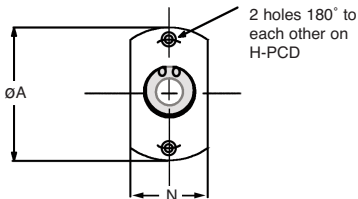
Shafts & Bearings

Single Housed Bearing Assembly (Double Flat)

HPCBH02 - With Circlip Retainer



Double Flat



With Circlip Retainer : 3 - 30mm Bores

For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

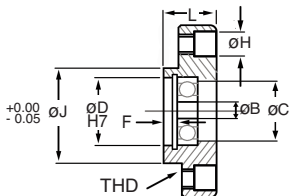
PART NUMBER	ϕB	ϕD	ϕC	L	ϕA	ϕJ	H
HPCBH0201-40-623	3	$\phi 10 \times 7Dp$	$\phi 8.5$	11	40	$\phi 22 \times 3$	$\phi 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0201-40-634	4	$\phi 16 \times 8Dp$	$\phi 14.0$	11	40	$\phi 22 \times 3$	$\phi 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0201-40-625	5	$\phi 16 \times 8Dp$	$\phi 14.0$	11	40	$\phi 22 \times 3$	$\phi 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0201-40-606	6	$\phi 17 \times 9Dp$	$\phi 15.0$	11	40	$\phi 22 \times 3$	$\phi 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0201-58-608	8	$\phi 22 \times 11Dp$	$\phi 19.5$	16	58	$\phi 36 \times 4$	$\phi 9.5 \times 5.5Dp$ (M5 Capscrew)
HPCBH0201-58-6000	10	$\phi 26 \times 12Dp$	$\phi 24.0$	16	58	$\phi 36 \times 4$	$\phi 9.5 \times 5.5Dp$ (M5 Capscrew)
HPCBH0201-58-6201	12	$\phi 32 \times 14Dp$	$\phi 28.0$	16	58	$\phi 36 \times 4$	$\phi 9.5 \times 5.5Dp$ (M5 Capscrew)
HPCBH0201-94-6202	15	$\phi 35 \times 18Dp$	$\phi 33.0$	25	94	$\phi 66 \times 6$	$\phi 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0201-94-6003	17	$\phi 35 \times 17Dp$	$\phi 33.0$	25	94	$\phi 66 \times 6$	$\phi 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0201-94-6004	20	$\phi 42 \times 19Dp$	$\phi 38.0$	25	94	$\phi 66 \times 6$	$\phi 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0201-94-6005	25	$\phi 47 \times 19Dp$	$\phi 43.0$	25	94	$\phi 66 \times 6$	$\phi 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0201-94-6006	30	$\phi 55 \times 20Dp$	$\phi 50.0$	25	94	$\phi 66 \times 6$	$\phi 15.0 \times 8.5Dp$ (M8 Capscrew)



Shafts & Bearings

Single Housed Bearing Assembly (Double Flat)

HPCBH02 - With Circlip Retainer



Chamfered on all external corners

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price	-5%	-10%	-15%	-20%	-30%
PART NUMBER	H-PCD	THD	Bearing XX in Assembly	N	F	PRICE EACH 1-5
HPCBH0201-40-623	30	Ø4.20 (M5)	623zz 3x10x4	24	3	£27.83
HPCBH0201-40-634	30	Ø4.20 (M5)	634zz 4x16x5	24	3	£27.83
HPCBH0201-40-625	30	Ø4.20 (M5)	625zz 5x16x5	24	3	£27.83
HPCBH0201-40-606	30	Ø4.20 (M5)	606zz 6x17x6	24	3	£27.83
HPCBH0201-58-608	46	Ø5.20 (M6)	608zz 8x22x7	40	4	£34.54
HPCBH0201-58-6000	46	Ø5.20 (M6)	6000zz 10x26x8	40	4	£34.54
HPCBH0201-58-6201	46	Ø5.20 (M6)	6201zz 12x32x10	40	4	£34.54
HPCBH0201-94-6202	78	Ø8.50 (M10)	6202zz 15x35x11	67	7	£54.82
HPCBH0201-94-6003	78	Ø8.50 (M10)	6003zz 17x35x10	67	7	£54.82
HPCBH0201-94-6004	78	Ø8.50 (M10)	6004zz 20x42x12	67	7	£54.82
HPCBH0201-94-6005	78	Ø8.50 (M10)	6005zz 25x47x12	67	7	£54.82
HPCBH0201-94-6006	78	Ø8.50 (M10)	6006zz 30x55x13	67	7	£54.82

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Shafts & Bearings Single Housed Bearing Assembly

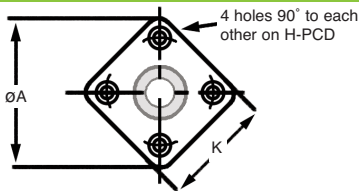
Shafts & Bearings

Single Housed Bearing Assembly (Square)

HPCBH02 - With Circlip Retainer



Double Flat



With Circlip Retainer : 3 - 30mm Bores

For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

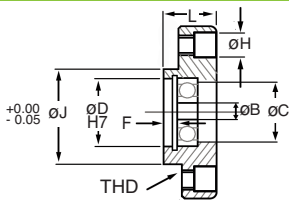
PART NUMBER	$\varnothing B$	$\varnothing D$	$\varnothing C$	L	$\varnothing A$	$\varnothing J$	H
HPCBH0202-40-623	3	$\varnothing 10 \times 7Dp$	$\varnothing 8.5$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0202-40-634	4	$\varnothing 16 \times 8Dp$	$\varnothing 14.0$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0202-40-625	5	$\varnothing 16 \times 8Dp$	$\varnothing 14.0$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0202-40-606	6	$\varnothing 17 \times 9Dp$	$\varnothing 15.0$	11	40	$\varnothing 22 \times 3$	$\varnothing 7.5 \times 4.5Dp$ (M4 Capscrew)
HPCBH0202-58-608	8	$\varnothing 22 \times 11Dp$	$\varnothing 19.5$	16	58	$\varnothing 36 \times 4$	$\varnothing 9.5 \times 5.5Dp$ (M5 Capscrew)
HPCBH0202-58-6000	10	$\varnothing 26 \times 12Dp$	$\varnothing 24.0$	16	58	$\varnothing 36 \times 4$	$\varnothing 9.5 \times 5.5Dp$ (M5 Capscrew)
HPCBH0202-58-6201	12	$\varnothing 32 \times 14Dp$	$\varnothing 28.0$	16	58	$\varnothing 36 \times 4$	$\varnothing 9.5 \times 5.5Dp$ (M5 Capscrew)
HPCBH0202-94-6202	15	$\varnothing 35 \times 18Dp$	$\varnothing 33.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0202-94-6003	17	$\varnothing 35 \times 17Dp$	$\varnothing 33.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0202-94-6004	20	$\varnothing 42 \times 19Dp$	$\varnothing 38.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0202-94-6005	25	$\varnothing 47 \times 19Dp$	$\varnothing 43.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5Dp$ (M8 Capscrew)
HPCBH0202-94-6006	30	$\varnothing 55 \times 20Dp$	$\varnothing 50.0$	25	94	$\varnothing 66 \times 6$	$\varnothing 15.0 \times 8.5Dp$ (M8 Capscrew)



Shafts & Bearings

Single Housed Bearing Assembly (Square)

HPCBH02 - With Circlip Retainer



Chamfered on all external corners

DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price	-5%	-10%	-15%	-20%	-30%
PART NUMBER	H-PCD	THD	K	Bearing XX in Assembly	F	PRICE EACH 1-5
HPCBH0202-40-623	30	Ø4.20 (M5)	30	623zz 3x10x4	3	£29.15
HPCBH0202-40-634	30	Ø4.20 (M5)	30	634zz 4x16x5	3	£29.15
HPCBH0202-40-625	30	Ø4.20 (M5)	30	625zz 5x16x5	3	£29.15
HPCBH0202-40-606	30	Ø4.20 (M5)	30	606zz 6x17x6	3	£29.15
HPCBH0202-58-608	46	Ø5.20 (M6)	44	608zz 8x22x7	4	£36.45
HPCBH0202-58-6000	46	Ø5.20 (M6)	44	6000zz 10x26x8	4	£36.45
HPCBH0202-58-6201	46	Ø5.20 (M6)	44	6201zz 12x32x10	4	£36.45
HPCBH0202-94-6202	78	Ø8.50 (M10)	77	6202zz 15x35x11	7	£58.34
HPCBH0202-94-6003	78	Ø8.50 (M10)	77	6003zz 17x35x10	7	£58.34
HPCBH0202-94-6004	78	Ø8.50 (M10)	77	6004zz 20x42x12	7	£58.34
HPCBH0202-94-6005	78	Ø8.50 (M10)	77	6005zz 25x47x12	7	£58.34
HPCBH0202-94-6006	78	Ø8.50 (M10)	77	6006zz 30x55x13	7	£58.34

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Shafts & Bearings Single Housed Bearing Assembly

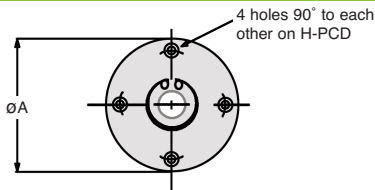
Shafts & Bearings

Double Housed Bearing Assembly (Round)

HPCBH04 - With Circlip Retainer



Round



With Circlip Retainer : 3 - 30mm Bores

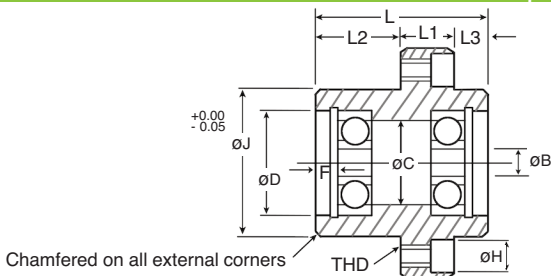
For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

PART NUMBER	$\varnothing B$	$\varnothing D$	$\varnothing C$	L	L1	L2	L3	H
HPCBH0400-40-623	3	$\varnothing 10 \times 7 \text{Dp}$	$\varnothing 8.5$	22	8	10	4	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0400-40-634	4	$\varnothing 16 \times 8 \text{Dp}$	$\varnothing 14.0$	22	8	10	4	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0400-40-625	5	$\varnothing 16 \times 8 \text{Dp}$	$\varnothing 14.0$	22	8	10	4	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0400-40-606	6	$\varnothing 17 \times 9 \text{Dp}$	$\varnothing 15.0$	22	8	10	4	$\varnothing 7.5 \times 4.5 \text{Dp}$ (M4 Capscrew)
HPCBH0400-58-608	8	$\varnothing 22 \times 11 \text{Dp}$	$\varnothing 19.5$	36	12	18	6	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0400-58-6000	10	$\varnothing 26 \times 12 \text{Dp}$	$\varnothing 24.0$	36	12	18	6	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0400-58-6201	12	$\varnothing 32 \times 14 \text{Dp}$	$\varnothing 28.0$	36	12	18	6	$\varnothing 9.5 \times 5.5 \text{Dp}$ (M5 Capscrew)
HPCBH0400-94-6202	15	$\varnothing 35 \times 18 \text{Dp}$	$\varnothing 33.0$	51	19	24	8	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0400-94-6003	17	$\varnothing 35 \times 17 \text{Dp}$	$\varnothing 33.0$	51	19	24	8	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0400-94-6004	20	$\varnothing 42 \times 19 \text{Dp}$	$\varnothing 38.0$	51	19	24	8	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0400-94-6005	25	$\varnothing 47 \times 19 \text{Dp}$	$\varnothing 43.0$	51	19	24	8	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)
HPCBH0400-94-6006	30	$\varnothing 55 \times 20 \text{Dp}$	$\varnothing 50.0$	51	19	24	8	$\varnothing 15.0 \times 8.5 \text{Dp}$ (M8 Capscrew)

Shafts & Bearings

Double Housed Bearing Assembly (Round)

HPCBH04 - With Circlip Retainer



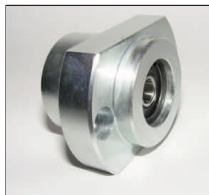
DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price	-5%	-10%	-15%	-20%	-30%

PART NUMBER	ØA	H-PCD	THD	Bearing XX in Assembly	ØJ	F	PRICE EACH 1-5
HPCBH0400-40-623	40	30	Ø4.20 (M5)	623zz 3x10x4	Ø22	3	£46.60
HPCBH0400-40-634	40	30	Ø4.20 (M5)	634zz 4x16x5	Ø22	3	£46.60
HPCBH0400-40-625	40	30	Ø4.20 (M5)	625zz 5x16x5	Ø22	3	£46.60
HPCBH0400-40-606	40	30	Ø4.20 (M5)	606zz 6x17x6	Ø22	3	£46.60
HPCBH0400-58-608	58	46	Ø5.20 (M6)	608zz 8x22x7	Ø36	4	£57.87
HPCBH0400-58-6000	58	46	Ø5.20 (M6)	6000zz 10x26x8	Ø36	4	£57.87
HPCBH0400-58-6201	58	46	Ø5.20 (M6)	6201zz 12x32x10	Ø36	4	£57.87
HPCBH0400-94-6202	94	78	Ø8.50 (M10)	6202zz 15x35x11	Ø62	7	£91.84
HPCBH0400-94-6003	94	78	Ø8.50 (M10)	6003zz 17x35x10	Ø62	7	£91.84
HPCBH0400-94-6004	94	78	Ø8.50 (M10)	6004zz 20x42x12	Ø62	7	£91.84
HPCBH0400-94-6005	94	78	Ø8.50 (M10)	6005zz 25x47x12	Ø62	7	£91.84
HPCBH0400-94-6006	94	78	Ø8.50 (M10)	6006zz 30x55x13	Ø62	7	£91.84

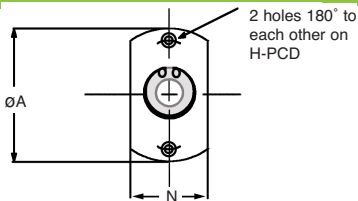
Shafts & Bearings

Double Housed Bearing Assembly (Double Flat)

HPCBH04 - With Circlip Retainer



Double Flat



2 holes 180° to each other on H-PCD

With Circlip Retainer : 3 - 30mm Bores

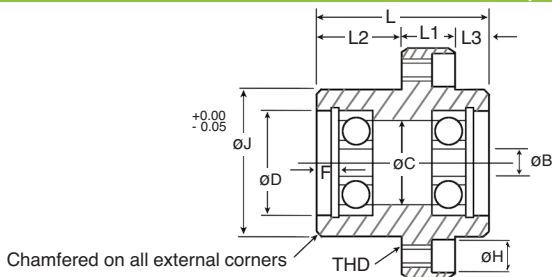
For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

PART NUMBER	øB	øD	øC	L	L1	L2	L3	H
HPCBH0401-40-623	3	ø10x7Dp	ø8.5	22	8	10	4	ø7.5x4.5Dp (M4 Capscrew)
HPCBH0401-40-634	4	ø16x8Dp	ø14.0	22	8	10	4	ø7.5x4.5Dp (M4 Capscrew)
HPCBH0401-40-625	5	ø16x8Dp	ø14.0	22	8	10	4	ø7.5x4.5Dp (M4 Capscrew)
HPCBH0401-40-606	6	ø17x9Dp	ø15.0	22	8	10	4	ø7.5x4.5Dp (M4 Capscrew)
HPCBH0401-58-608	8	ø22x11Dp	ø19.5	36	12	18	6	ø9.5x5.5Dp (M5 Capscrew)
HPCBH0401-58-6000	10	ø26x12Dp	ø24.0	36	12	18	6	ø9.5x5.5Dp (M5 Capscrew)
HPCBH0401-58-6201	12	ø32x14Dp	ø28.0	36	12	18	6	ø9.5x5.5Dp (M5 Capscrew)
HPCBH0401-94-6202	15	ø35x18Dp	ø33.0	51	19	24	8	ø15.0x8.5Dp (M8 Capscrew)
HPCBH0401-94-6003	17	ø35x17Dp	ø33.0	51	19	24	8	ø15.0x8.5Dp (M8 Capscrew)
HPCBH0401-94-6004	20	ø42x19Dp	ø38.0	51	19	24	8	ø15.0x8.5Dp (M8 Capscrew)
HPCBH0401-94-6005	25	ø47x19Dp	ø43.0	51	19	24	8	ø15.0x8.5Dp (M8 Capscrew)
HPCBH0401-94-6006	30	ø55x20Dp	ø50.0	51	19	24	8	ø15.0x8.5Dp (M8 Capscrew)

Shafts & Bearings

Double Housed Bearing Assembly (Double Flat)

HPCBH04 - With Circlip Retainer



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price		-5%	-10%	-15%	-20%

PART NUMBER	ØA	H-PCD	THD	Bearing XX in Assembly	N	ØJ	F	PRICE EACH 1-5
HPCBH0401-40-623	40	30	Ø4.20 (M5)	623zz 3x10x4	24	Ø22	3	£52.69
HPCBH0401-40-634	40	30	Ø4.20 (M5)	634zz 4x16x5	24	Ø22	3	£52.69
HPCBH0401-40-625	40	30	Ø4.20 (M5)	625zz 5x16x5	24	Ø22	3	£52.69
HPCBH0401-40-606	40	30	Ø4.20 (M5)	606zz 6x17x6	24	Ø22	3	£52.69
HPCBH0401-58-608	58	46	Ø5.20 (M6)	608zz 8x22x7	40	Ø36	4	£65.35
HPCBH0401-58-6000	58	46	Ø5.20 (M6)	6000zz 10x26x8	40	Ø36	4	£65.35
HPCBH0401-58-6201	58	46	Ø5.20 (M6)	6201zz 12x32x10	40	Ø36	4	£65.35
HPCBH0401-94-6202	94	78	Ø8.50 (M10)	6202zz 15x35x11	67	Ø62	7	£103.70
HPCBH0401-94-6003	94	78	Ø8.50 (M10)	6003zz 17x35x10	67	Ø62	7	£103.70
HPCBH0401-94-6004	94	78	Ø8.50 (M10)	6004zz 20x42x12	67	Ø62	7	£103.70
HPCBH0401-94-6005	94	78	Ø8.50 (M10)	6005zz 25x47x12	67	Ø62	7	£103.70
HPCBH0401-94-6006	94	78	Ø8.50 (M10)	6006zz 30x55x13	67	Ø62	7	£103.70

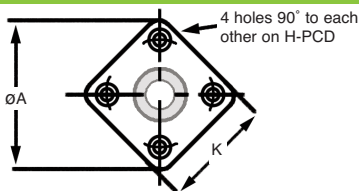
Shafts & Bearings

Double Housed Bearing Assembly (Square)

HPCBH04 - With Circlip Retainer



Square



With Circlip Retainer : 3 - 30mm Bores

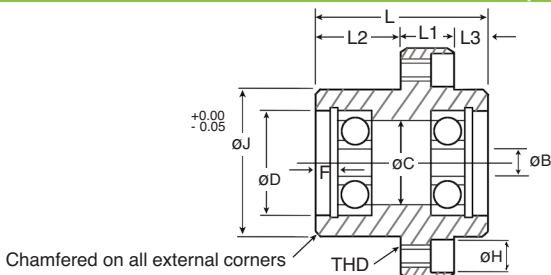
For fixing, use H holes for a capscrew fixing, or alternatively the THD tapped hole can be used to introduce a fastener from the opposite direction.

PART NUMBER	ØB	ØD	ØC	L	L1	L2	L3	H
HPCBH0402-40-623	3	Ø10x7Dp	Ø8.5	22	8	10	4	Ø7.5x4.5Dp (M4 Capscrew)
HPCBH0402-40-634	4	Ø16x8Dp	Ø14.0	22	8	10	4	Ø7.5x4.5Dp (M4 Capscrew)
HPCBH0402-40-625	5	Ø16x8Dp	Ø14.0	22	8	10	4	Ø7.5x4.5Dp (M4 Capscrew)
HPCBH0402-40-606	6	Ø17x9Dp	Ø15.0	22	8	10	4	Ø7.5x4.5Dp (M4 Capscrew)
HPCBH0402-58-608	8	Ø22x11Dp	Ø19.5	36	12	18	6	Ø9.5x5.5Dp (M5 Capscrew)
HPCBH0402-58-6000	10	Ø26x12Dp	Ø24.0	36	12	18	6	Ø9.5x5.5Dp (M5 Capscrew)
HPCBH0402-58-6201	12	Ø32x14Dp	Ø28.0	36	12	18	6	Ø9.5x5.5Dp (M5 Capscrew)
HPCBH0402-94-6202	15	Ø35x18Dp	Ø33.0	51	19	24	8	Ø15.0x8.5Dp (M8 Capscrew)
HPCBH0402-94-6003	17	Ø35x17Dp	Ø33.0	51	19	24	8	Ø15.0x8.5Dp (M8 Capscrew)
HPCBH0402-94-6004	20	Ø42x19Dp	Ø38.0	51	19	24	8	Ø15.0x8.5Dp (M8 Capscrew)
HPCBH0402-94-6005	25	Ø47x19Dp	Ø43.0	51	19	24	8	Ø15.0x8.5Dp (M8 Capscrew)
HPCBH0402-94-6006	30	Ø55x20Dp	Ø50.0	51	19	24	8	Ø15.0x8.5Dp (M8 Capscrew)

Shafts & Bearings

Double Housed Bearing Assembly (Square)

HPCBH04 - With Circlip Retainer



DISCOUNTS	1 - 5	6-19	20-39	40-59	60-99	100 +
	List Price		-5%	-10%	-15%	-20%

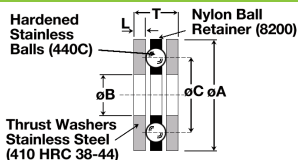
PART NUMBER	ØA	H-PCD	THD	K	Bearing XX in Assembly	ØJ	F	PRICE EACH 1-5
HPCBH0402-40-623	40	30	Ø4.20 (M5)	30	623zz 3x10x4	Ø22	3	£55.12
HPCBH0402-40-634	40	30	Ø4.20 (M5)	30	634zz 4x16x5	Ø22	3	£55.12
HPCBH0402-40-625	40	30	Ø4.20 (M5)	30	625zz 5x16x5	Ø22	3	£55.12
HPCBH0402-40-606	40	30	Ø4.20 (M5)	30	606zz 6x17x6	Ø22	3	£55.12
HPCBH0402-58-608	58	46	Ø5.20 (M6)	44	608zz 8x22x7	Ø36	4	£68.94
HPCBH0402-58-6000	58	46	Ø5.20 (M6)	44	6000zz 10x26x8	Ø36	4	£68.94
HPCBH0402-58-6201	58	46	Ø5.20 (M6)	44	6201zz 12x32x10	Ø36	4	£68.94
HPCBH0402-94-6202	94	78	Ø8.50 (M10)	77	6202zz 15x35x11	Ø62	7	£110.30
HPCBH0402-94-6003	94	78	Ø8.50 (M10)	77	6003zz 17x35x10	Ø62	7	£110.30
HPCBH0402-94-6004	94	78	Ø8.50 (M10)	77	6004zz 20x42x12	Ø62	7	£110.30
HPCBH0402-94-6005	94	78	Ø8.50 (M10)	77	6005zz 25x47x12	Ø62	7	£110.30
HPCBH0402-94-6006	94	78	Ø8.50 (M10)	77	6006zz 30x55x13	Ø62	7	£110.30

Shafts & Bearings

Material

Ball Thrust Bearing Sets

Stainless Steel



DISCOUNTS	1 - 5	6-20	21-50	51-199	200-399	400-499	500-999	1000+
	List Price	-20%	-25%	-30%	-35%	-40%	-45%	-50%

PART NUMBER	-0.00 +0.13 øB	-0.13 +0.00 øA	øC	L ±0.05	T	No. of Balls	Load Rating at 15 r.p.m.	PRICE EACH 1-5
HPCTB2SS	5.00	12.00	8.70	1.30	4.98	7	323N	£10.75
HPCTB3SS	6.00	14.00	10.30	1.30	4.98	8	371N	£12.12
HPCTB4SS	7.00	17.00	11.90	1.30	4.98	9	418N	£12.15
HPCTB5SS	8.00	16.00	11.90	1.30	4.98	9	418N	£11.90
HPCTB6SS	10.00	21.00	15.10	1.60	6.38	6	467N	£12.66
HPCTB7SS	12.00	24.00	18.30	1.60	6.38	8	618N	£13.65
HPCTB8SS	16.00	28.00	22.20	2.40	8.80	6	755N	£13.65
HPCTB9SS	19.00	32.00	25.40	2.40	8.80	8	1002N	£22.36
HPCTB10SS	25.00	41.00	33.30	3.18	11.12	10	1544N	£40.80

Rpm	Load Rating in Newton (N)							
	15	100	450	900	1200	1800	3600	5000
HPCTB2SS	391	218	124	97	89	75	62	53
HPCTB3SS	404	213	129	102	89	80	62	53
HPCTB4SS	422	178	133	102	93	84	66	57
HPCTB5SS	422	222	133	102	93	84	66	57
HPCTB6SS	542	289	173	133	124	106	84	75
HPCTB7SS	622	329	195	155	142	124	98	89
HPCTB8SS	778	413	248	195	178	155	124	111
HPCTB9SS	912	480	289	227	209	182	146	129
HPCTB10SS	1428	756	458	364	329	289	227	204

Material

Washer: CR 410 Stainless Steel heat treated to RC 38-42.

Ball Material: Type 440-C Stainless Steel with RC 58-65.

Ball Retainer: HS nylon permitting continuous use up to 125°C

Other Info: Inch sizes available. Please ask for a quote. Also available in Carbon Steel.

4.86



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Fasteners

Pages 5.2 – 5.76



Dowel Pins Extractable Dowels

Hardened and Ground Steel
m6 Diameter Tolerance



Introduction

Dowels are solid pins, usually precision ground to narrow limits to permit accurate fitting. Precision dowels are traditionally used to hold parts together in a fixed alignment, relying on the tightness of fit to stay in place. However, some applications for solid pins require clearance or transition fits on at least one of the components to be fastened. There are three factors that determine the size of the hole needed; the tolerance on the dowel itself, the tightness of fit required (interference, transition or clearance) and the hardness of the components into which the dowel is fitted.

Tolerances And Fits

Dowels are normally precision ground to produce a close tolerance diameter. Our range standardises on m6 tolerance, which corresponds to the ISO and DIN standards. The m6 tolerance is a 'plus tolerance' range and is normally used for interference fits. Also available are h7 or h8, which are minus tolerance ranges.

The tolerance to which a dowel is ground however is not directly related to the fit. As mentioned above, the fit (interference, transition or clearance) relates to the difference between the dowel diameter and the hole diameter.

The following table gives general guidance on hole tolerances but there are graduations within each category.

HOLE MATERIAL	Hardened Steel	Mild Steel	Aluminium/Zinc/Brass
INTERFERENCE FIT	Pin Ø Less 5 microns	Pin Ø Less 25 microns	Pin Ø Less 35 microns
TRANSITION FIT	Pin Ø Less 2 microns	Pin Ø Less 5 microns	Pin Ø Less 5 microns
CLEARANCE FIT	Pin Ø plus 25-60 microns	Pin Ø plus 25-60 microns	Pin Ø plus 25-60 microns

Fitting Dowels Into Blind Holes

When a dowel is interference-fitted into a blind hole, it increases the pressure of the air trapped in the hole. It is strongly advised to specify that the dowel should have an air release flat ground along its full length to prevent the dowel being ejected under the pressure of compressed air, or bursting the component into which it is driven.

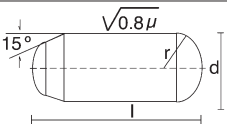
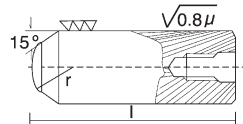
Materials

The material specifications of our standard range is as follows.

THROUGH HARDENED STEEL 100Cr6, WS 1.3505 Hardened & Tempered to HV 550-650

Standards

Dowel pins are made to several national or international standards, each with slight differences in chamfer forms, length tolerances and available materials. The following table gives details of the standards that we offer.

STANDARD	STOCKED
DIN 6325 	Diameters 1-20 mm in steel, through-hardened and ground to m6.
DIN 7979D 	Diameters 4-20 mm in steel, through-hardened and ground to m6.

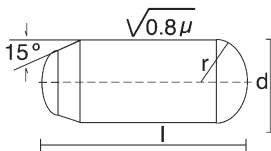
DIN 7979D is effectively the same as ISO 8735A (though hardened) with minor differences in length tolerances.

Fasteners

Dowel Pins

Materials

Hardened and Ground Steel
m6 Diameter Tolerance
DIN 6325



DISCOUNTS

Quantity	List Price
1 - 5	-12%
6-19	-19%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-50%
500-999	-55%
1000+	-65%

Fasteners Dowel Pins

PART NUMBER	Ød m6	Length l	Double Shear Strength (KN)	Price Each 1-5
HPCHD1-4	1	4	1.5	£0.17
HPCHD1-5	1	5	1.5	£0.17
HPCHD1-6	1	6	1.5	£0.17
HPCHD1-8	1	8	1.5	£0.18
HPCHD1-10	1	10	1.5	£0.18
HPCHD1-12	1	12	1.5	£0.18
HPCHD1.5-4	1.5	4	3.4	£0.15
HPCHD1.5-5	1.5	5	3.4	£0.15
HPCHD1.5-6	1.5	6	3.4	£0.15
HPCHD1.5-8	1.5	8	3.4	£0.16
HPCHD1.5-10	1.5	10	3.4	£0.16
HPCHD1.5-12	1.5	12	3.4	£0.16
HPCHD1.5-14	1.5	14	3.4	£0.17
HPCHD1.5-16	1.5	16	3.4	£0.17
HPCHD2-4	2	4	5.5	£0.15
HPCHD2-5	2	5	5.5	£0.15
HPCHD2-6	2	6	5.5	£0.15
HPCHD2-8	2	8	5.5	£0.15
HPCHD2-10	2	10	5.5	£0.16
HPCHD2-12	2	12	5.5	£0.16
HPCHD2-14	2	14	5.5	£0.16
HPCHD2-16	2	16	5.5	£0.17
HPCHD2-18	2	18	5.5	£0.17
HPCHD2-20	2	20	5.5	£0.17

PART NUMBER	Ød m6	Length l	Double Shear Strength (KN)	Price Each 1-5
HPCHD2-24	2	24	5.5	£0.31
HPCHD2.5-5	2.5	5	8.0	£0.12
HPCHD2.5-6	2.5	6	8.0	£0.12
HPCHD2.5-8	2.5	8	8.0	£0.15
HPCHD2.5-10	2.5	10	8.0	£0.15
HPCHD2.5-12	2.5	12	8.0	£0.16
HPCHD2.5-14	2.5	14	8.0	£0.16
HPCHD2.5-16	2.5	16	8.0	£0.17
HPCHD2.5-18	2.5	18	8.0	£0.17
HPCHD2.5-20	2.5	20	8.0	£0.19
HPCHD2.5-24	2.5	24	8.0	£0.19
HPCHD3-5	3	5	13	£0.12
HPCHD3-6	3	6	13	£0.12
HPCHD3-8	3	8	13	£0.12
HPCHD3-10	3	10	13	£0.12
HPCHD3-12	3	12	13	£0.13
HPCHD3-14	3	14	13	£0.15
HPCHD3-16	3	16	13	£0.15
HPCHD3-18	3	18	13	£0.15
HPCHD3-20	3	20	13	£0.16
HPCHD3-24	3	24	13	£0.18
HPCHD3-28	3	28	13	£0.18
HPCHD3-30	3	30	13	£0.19
HPCHD4-6	4	6	22	£0.13

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PART NUMBER	Ød m6	Length l	Double Shear Strength (KN)	Price Each 1-5
HPCHD4-8	4	8	22	£0.13
HPCHD4-10	4	10	22	£0.15
HPCHD4-12	4	12	22	£0.16
HPCHD4-14	4	14	22	£0.17
HPCHD4-16	4	16	22	£0.18
HPCHD4-18	4	18	22	£0.19
HPCHD4-20	4	20	22	£0.20
HPCHD4-24	4	24	22	£0.22
HPCHD4-28	4	28	22	£0.25
HPCHD4-30	4	30	22	£0.26
HPCHD4-32	4	32	22	£0.27
HPCHD4-36	4	36	22	£0.30
HPCHD4-40	4	40	22	£0.33
HPCHD4-45	4	45	22	£0.44
HPCHD4-50	4	50	22	£0.48
HPCHD5-6	5	6	31	£0.18
HPCHD5-8	5	8	31	£0.18
HPCHD5-10	5	10	31	£0.19
HPCHD5-12	5	12	31	£0.19
HPCHD5-14	5	14	31	£0.20
HPCHD5-16	5	16	31	£0.22
HPCHD5-18	5	18	31	£0.24
HPCHD5-20	5	20	31	£0.25
HPCHD5-24	5	24	31	£0.29
HPCHD5-28	5	28	31	£0.31
HPCHD5-30	5	30	31	£0.33
HPCHD5-32	5	32	31	£0.34
HPCHD5-36	5	36	31	£0.34
HPCHD5-40	5	40	31	£0.39
HPCHD5-45	5	45	31	£0.42
HPCHD5-50	5	50	31	£0.47
HPCHD5-55	5	55	31	£0.61
HPCHD5-60	5	60	31	£0.84
HPCHD6-8	6	8	53	£0.24
HPCHD6-10	6	10	53	£0.24
HPCHD6-12	6	12	53	£0.24
HPCHD6-14	6	14	53	£0.25
HPCHD6-16	6	16	53	£0.26
HPCHD6-18	6	18	53	£0.29
HPCHD6-20	6	20	53	£0.31

PART NUMBER	Ød m6	Length l	Double Shear Strength (KN)	Price Each 1-5
HPCHD6-24	6	24	53	£0.34
HPCHD6-28	6	28	53	£0.35
HPCHD6-30	6	30	53	£0.39
HPCHD6-32	6	32	53	£0.40
HPCHD6-36	6	36	53	£0.46
HPCHD6-40	6	40	53	£0.49
HPCHD6-45	6	45	53	£0.54
HPCHD6-50	6	50	53	£0.60
HPCHD6-55	6	55	53	£0.64
HPCHD6-60	6	60	53	£0.70
HPCHD8-10	8	10	88	£0.47
HPCHD8-12	8	12	88	£0.47
HPCHD8-14	8	14	88	£0.47
HPCHD8-16	8	16	88	£0.47
HPCHD8-18	8	18	88	£0.47
HPCHD8-20	8	20	88	£0.49
HPCHD8-24	8	24	88	£0.56
HPCHD8-28	8	28	88	£0.61
HPCHD8-30	8	30	88	£0.64
HPCHD8-32	8	32	88	£0.67
HPCHD8-36	8	36	88	£0.75
HPCHD8-40	8	40	88	£0.81
HPCHD8-45	8	45	88	£0.88
HPCHD8-50	8	50	88	£0.96
HPCHD8-55	8	55	88	£1.03
HPCHD8-60	8	60	88	£1.10
HPCHD8-70	8	70	88	£1.26
HPCHD8-80	8	80	88	£1.90
HPCHD10-16	10	16	132	£0.76
HPCHD10-18	10	18	132	£0.76
HPCHD10-20	10	20	132	£0.76
HPCHD10-24	10	24	132	£0.84
HPCHD10-28	10	28	132	£0.92
HPCHD10-30	10	30	132	£0.97
HPCHD10-32	10	32	132	£1.06
HPCHD10-36	10	36	132	£1.10
HPCHD10-40	10	40	132	£1.17
HPCHD10-45	10	45	132	£1.31
HPCHD10-50	10	50	132	£1.40
HPCHD10-55	10	55	132	£1.51



Fasteners

Dowel Pins

Materials

Hardened and Ground Steel
m6 Diameter Tolerance
DIN 6325

Fasteners Dowel Pins

PART NUMBER	Ød m6	Length l	Double Shear Strength (KN)	Price Each 1-5
HPCHD10-60	10	60	132	£1.60
HPCHD10-70	10	70	132	£1.83
HPCHD10-80	10	80	132	£2.23
HPCHD10-90	10	90	132	£3.03
HPCHD10-100	10	100	132	£3.32
HPCHD10-110	10	110	132	£3.93
HPCHD10-120	10	120	132	£4.29
HPCHD12-18	12	18	210	£1.24
HPCHD12-20	12	20	210	£1.24
HPCHD12-24	12	24	210	£1.24
HPCHD12-28	12	28	210	£1.32
HPCHD12-30	12	30	210	£1.36
HPCHD12-32	12	32	210	£1.43
HPCHD12-36	12	36	210	£1.56
HPCHD12-40	12	40	210	£1.68
HPCHD12-45	12	45	210	£1.82
HPCHD12-50	12	50	210	£1.97
HPCHD12-55	12	55	210	£2.12
HPCHD12-60	12	60	210	£2.26
HPCHD12-70	12	70	210	£2.57
HPCHD12-80	12	80	210	£2.85
HPCHD12-90	12	90	210	£3.19
HPCHD12-100	12	100	210	£3.45
HPCHD12-110	12	110	210	£4.88
HPCHD12-120	12	120	210	£5.28
HPCHD14-24	14	24	260	£2.07
HPCHD14-32	14	32	260	£2.38
HPCHD14-36	14	36	260	£2.52
HPCHD14-40	14	40	260	£2.59
HPCHD14-45	14	45	260	£2.92
HPCHD14-50	14	50	260	£3.00
HPCHD14-55	14	55	260	£3.31
HPCHD14-60	14	60	260	£3.41
HPCHD14-70	14	70	260	£4.38

PART NUMBER	Ød m6	Length l	Double Shear Strength (KN)	Price Each 1-5
HPCHD14-80	14	80	260	£4.93
HPCHD14-90	14	90	260	£5.67
HPCHD14-100	14	100	260	£6.10
HPCHD16-24	16	24	350	£2.76
HPCHD16-28	16	28	350	£2.98
HPCHD16-30	16	30	350	£3.09
HPCHD16-32	16	32	350	£3.27
HPCHD16-36	16	36	350	£3.41
HPCHD16-40	16	40	350	£3.59
HPCHD16-45	16	45	350	£3.88
HPCHD16-50	16	50	350	£4.19
HPCHD16-55	16	55	350	£4.50
HPCHD16-60	16	60	350	£4.93
HPCHD16-70	16	70	350	£5.67
HPCHD16-80	16	80	350	£6.25
HPCHD16-90	16	90	350	£7.15
HPCHD16-100	16	100	350	£7.67
HPCHD16-110	16	110	350	£8.10
HPCHD16-120	16	120	350	£9.41
HPCHD20-32	20	32	485	£6.77
HPCHD20-36	20	36	485	£6.77
HPCHD20-40	20	40	485	£6.77
HPCHD20-45	20	45	485	£7.11
HPCHD20-50	20	50	485	£7.36
HPCHD20-55	20	55	485	£7.84
HPCHD20-60	20	60	485	£8.25
HPCHD20-70	20	70	485	£8.67
HPCHD20-80	20	80	485	£9.40
HPCHD20-90	20	90	485	£10.69
HPCHD20-100	20	100	485	£11.37
HPCHD20-120	20	120	485	£13.76



Materials

Hardened and
Ground Steel

m6 Tolerance DIN 7979D

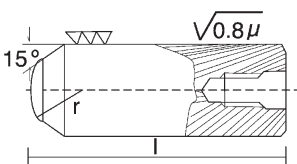
Fasteners

Extractable Dowels

With Air Release Flat

DISCOUNTS

1 - 5	List Price
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-50%
500-999	-55%
1000+	-65%



PART NUMBER	Ød m6	Thread Size	Length l	Price Each 1-5
HPCHDX4-10	4	M2.5	10	£3.58
HPCHDX4-12	4	M2.5	12	£3.58
HPCHDX4-14	4	M2.5	14	£3.58
HPCHDX4-16	4	M2.5	16	£3.64
HPCHDX4-20	4	M2.5	20	£3.67
HPCHDX4-24	4	M2.5	24	£3.73
HPCHDX4-28	4	M2.5	28	£3.92
HPCHDX4-30	4	M2.5	30	£3.96
HPCHDX4-32	4	M2.5	32	£4.04
HPCHDX4-36	4	M2.5	36	£4.09
HPCHDX4-40	4	M2.5	40	£4.21
HPCHDX4-50	4	M2.5	50	£4.43
HPCHDX5-10	5	M3	10	£1.33
HPCHDX5-12	5	M3	12	£1.38
HPCHDX5-14	5	M3	14	£1.47
HPCHDX5-16	5	M3	16	£1.48
HPCHDX5-18	5	M3	18	£1.49
HPCHDX5-20	5	M3	20	£1.50
HPCHDX5-24	5	M3	24	£1.55
HPCHDX5-28	5	M3	28	£1.60
HPCHDX5-30	5	M3	30	£1.65
HPCHDX5-32	5	M3	32	£1.71
HPCHDX5-36	5	M3	36	£1.75
HPCHDX5-40	5	M3	40	£1.79

PART NUMBER	Ød m6	Thread Size	Length l	Price Each 1-5
HPCHDX5-45	5	M3	45	£1.79
HPCHDX5-50	5	M3	50	£2.61
HPCHDX6-12	6	M4	12	£1.25
HPCHDX6-14	6	M4	14	£1.25
HPCHDX6-16	6	M4	16	£0.99
HPCHDX6-18	6	M4	18	£0.99
HPCHDX6-20	6	M4	20	£0.71
HPCHDX6-24	6	M4	24	£0.77
HPCHDX6-28	6	M4	28	£0.83
HPCHDX6-30	6	M4	30	£0.82
HPCHDX6-32	6	M4	32	£0.84
HPCHDX6-36	6	M4	36	£0.88
HPCHDX6-40	6	M4	40	£0.92
HPCHDX6-45	6	M4	45	£1.03
HPCHDX6-50	6	M4	50	£1.03
HPCHDX6-55	6	M4	55	£1.47
HPCHDX6-60	6	M4	60	£1.47
HPCHDX6-70	6	M4	70	£1.82
HPCHDX6-80	6	M4	80	£2.45
HPCHDX8-16	8	M5	16	£1.12
HPCHDX8-18	8	M5	18	£1.35
HPCHDX8-20	8	M5	20	£1.00
HPCHDX8-24	8	M5	24	£1.05
HPCHDX8-28	8	M5	28	£1.00

Fasteners Extractable Dowel Pins



Fasteners

Materials

Extractable Dowels

Hardened
and Ground Steel

With Air Release Flat

m6 Tolerance DIN 7979D

Fasteners Extractable Dowel Pins

PART NUMBER	Ød m6	Thread Size	Length l	Price Each 1-5	PART NUMBER	Ød m6	Thread Size	Length l	Price Each 1-5
HPCHDX8-30	8	M5	30	£1.03	HPCHDX12-24	12	24	M6	£2.00
HPCHDX8-32	8	M5	32	£1.10	HPCHDX12-28	12	28	M6	£2.01
HPCHDX8-36	8	M5	36	£1.16	HPCHDX12-30	12	30	M6	£2.04
HPCHDX8-40	8	M5	40	£1.24	HPCHDX12-32	12	32	M6	£2.12
HPCHDX8-45	8	M5	45	£1.31	HPCHDX12-36	12	36	M6	£2.25
HPCHDX8-50	8	M5	50	£1.36	HPCHDX12-40	12	40	M6	£2.35
HPCHDX8-55	8	M5	55	£1.51	HPCHDX12-45	12	45	M6	£2.48
HPCHDX8-60	8	M5	60	£1.57	HPCHDX12-50	12	50	M6	£2.65
HPCHDX8-70	8	M5	70	£1.69	HPCHDX12-55	12	55	M6	£2.83
HPCHDX8-80	8	M5	80	£1.92	HPCHDX12-60	12	60	M6	£2.93
HPCHDX8-90	8	M5	90	£3.16	HPCHDX12-70	12	70	M6	£3.22
HPCHDX8-100	8	M5	100	£3.22	HPCHDX12-80	12	80	M6	£3.51
HPCHDX10-16	10	M6	16	£1.80	HPCHDX12-90	12	90	M6	£4.14
HPCHDX10-20	10	M6	20	£1.32	HPCHDX12-100	12	100	M6	£4.57
HPCHDX10-24	10	M6	24	£1.39	HPCHDX12-120	12	120	M6	£6.07
HPCHDX10-28	10	M6	28	£1.47	HPCHDX14-28	14	28	M8	£2.87
HPCHDX10-30	10	M6	30	£1.51	HPCHDX14-32	14	32	M8	£3.00
HPCHDX10-32	10	M6	32	£1.55	HPCHDX14-36	14	36	M8	£3.05
HPCHDX10-36	10	M6	36	£1.40	HPCHDX14-40	14	40	M8	£3.19
HPCHDX10-40	10	M6	40	£1.43	HPCHDX14-45	14	45	M8	£3.32
HPCHDX10-45	10	M6	45	£1.54	HPCHDX14-50	14	50	M8	£3.36
HPCHDX10-50	10	M6	50	£1.69	HPCHDX14-55	14	55	M8	£3.77
HPCHDX10-55	10	M6	55	£1.82	HPCHDX14-60	14	60	M8	£3.88
HPCHDX10-60	10	M6	60	£1.86	HPCHDX14-70	14	70	M8	£4.41
HPCHDX10-70	10	M6	70	£2.08	HPCHDX14-80	14	80	M8	£4.95
HPCHDX10-80	10	M6	80	£2.77	HPCHDX14-90	14	90	M8	£5.51
HPCHDX10-90	10	M6	90	£3.49	HPCHDX14-100	14	100	M8	£5.84
HPCHDX10-100	10	M6	100	£3.71	HPCHDX14-120	14	120	M8	£7.47
HPCHDX10-120	10	M6	120	£4.40	HPCHDX16-32	16	32	M8	£3.92
HPCHDX12-20	12	M6	20	£1.98	HPCHDX16-36	16	36	M8	£3.96



Fasteners

Taper Pins

Extractable Taper Pins

Mild Steel



Introduction

Our standard range of plain taper pins is made to DIN 1B, and we also offer extractable pins to DIN 7978. In the DIN standards, the nominal diameter is always the small end and the taper is 2% (1 in 50).

Materials

MILD STEEL.

Standards

- DIN 1B** Plain taper pin with turned finish (surface roughness of 3.2 microns)
DIN 7978 Extractable taper pin with female thread.

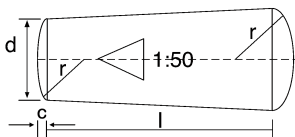
Materials

Mild Steel
DIN 1B

Fasteners Taper Pins

DISCOUNTS

1 - 5	List Price
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-50%
500-999	-55%
1000+	-65%



Note: Overall length is greater than nominal length.

PART NUMBER	Ød	Dimension 'C'	Length l	Price Each 1-5
HPCPT1.5-6	1.5	0.23	6	£0.08
HPCPT1.5-8	1.5	0.23	8	£0.08
HPCPT1.5-10	1.5	0.23	10	£0.09
HPCPT1.5-12	1.5	0.23	12	£0.10
HPCPT1.5-14	1.5	0.23	14	£0.10
HPCPT1.5-16	1.5	0.23	16	£0.10
HPCPT1.5-18	1.5	0.23	18	£0.11
HPCPT1.5-20	1.5	0.23	20	£0.11
HPCPT1.5-22	1.5	0.23	22	£0.31
HPCPT1.5-24	1.5	0.23	24	£0.34
HPCPT1.5-26	1.5	0.23	26	£0.37
HPCPT1.5-28	1.5	0.23	28	£0.38
HPCPT1.5-30	1.5	0.23	30	£0.39
HPCPT2-6	2	0.3	6	£0.08
HPCPT2-8	2	0.3	8	£0.09
HPCPT2-10	2	0.3	10	£0.09
HPCPT2-12	2	0.3	12	£0.10
HPCPT2-14	2	0.3	14	£0.10
HPCPT2-16	2	0.3	16	£0.11
HPCPT2-18	2	0.3	18	£0.11
HPCPT2-20	2	0.3	20	£0.11
HPCPT2-22	2	0.3	22	£0.12
HPCPT2-24	2	0.3	24	£0.13
HPCPT2-26	2	0.3	26	£0.17
HPCPT2-28	2	0.3	28	£0.18
HPCPT2-30	2	0.3	30	£0.19
HPCPT2-32	2	0.3	32	£0.20

PART NUMBER	Ød	Dimension 'C'	Length l	Price Each 1-5
HPCPT2-36	2	0.3	36	£0.22
HPCPT2-40	2	0.3	40	£0.23
HPCPT2-45	2	0.3	45	£0.26
HPCPT2-50	2	0.3	50	£0.30
HPCPT2.5-6	2.5	0.4	6	£0.09
HPCPT2.5-8	2.5	0.4	8	£0.10
HPCPT2.5-10	2.5	0.4	10	£0.10
HPCPT2.5-12	2.5	0.4	12	£0.11
HPCPT2.5-14	2.5	0.4	14	£0.11
HPCPT2.5-16	2.5	0.4	16	£0.12
HPCPT2.5-18	2.5	0.4	18	£0.12
HPCPT2.5-20	2.5	0.4	20	£0.13
HPCPT2.5-22	2.5	0.4	22	£0.13
HPCPT2.5-24	2.5	0.4	24	£0.15
HPCPT2.5-26	2.5	0.4	26	£0.20
HPCPT2.5-28	2.5	0.4	28	£0.20
HPCPT2.5-30	2.5	0.4	30	£0.22
HPCPT2.5-32	2.5	0.4	32	£0.22
HPCPT2.5-36	2.5	0.4	36	£0.24
HPCPT2.5-40	2.5	0.4	40	£0.26
HPCPT2.5-45	2.5	0.4	45	£0.30
HPCPT2.5-50	2.5	0.4	50	£0.31
HPCPT3-8	3	0.45	8	£0.11
HPCPT3-10	3	0.45	10	£0.11
HPCPT3-12	3	0.45	12	£0.11
HPCPT3-14	3	0.45	14	£0.11
HPCPT3-16	3	0.45	16	£0.12

Fasteners Taper Pins



Fasteners

Taper Pins

Materials

Mild Steel
DIN 1B

Fasteners Taper Pins

PART NUMBER	Ød	Dimension 'C'	Length l	Price Each 1-5
HPCPT3-18	3	0.45	18	£0.13
HPCPT3-20	3	0.45	20	£0.15
HPCPT3-24	3	0.45	24	£0.16
HPCPT3-26	3	0.45	26	£0.17
HPCPT3-30	3	0.45	30	£0.17
HPCPT3-40	3	0.45	40	£0.25
HPCPT3-45	3	0.45	45	£0.34
HPCPT3-50	3	0.45	50	£0.39
HPCPT3-60	3	0.45	60	£0.44
HPCPT3-65	3	0.45	65	£0.58
HPCPT3-70	3	0.45	70	£0.60
HPCPT3-80	3	0.45	80	£0.61
HPCPT3-90	3	0.45	90	£0.81
HPCPT3-100	3	0.45	100	£0.87
HPCPT4-6	4	0.6	6	£0.10
HPCPT4-8	4	0.6	8	£0.11
HPCPT4-10	4	0.6	10	£0.11
HPCPT4-12	4	0.6	12	£0.12
HPCPT4-14	4	0.6	14	£0.13
HPCPT4-16	4	0.6	16	£0.13
HPCPT4-18	4	0.6	18	£0.13
HPCPT4-20	4	0.6	20	£0.15
HPCPT4-22	4	0.6	22	£0.17
HPCPT4-24	4	0.6	24	£0.17
HPCPT4-26	4	0.6	26	£0.18
HPCPT4-28	4	0.6	28	£0.18
HPCPT4-30	4	0.6	30	£0.19
HPCPT4-32	4	0.6	32	£0.19
HPCPT4-36	4	0.6	36	£0.22
HPCPT4-40	4	0.6	40	£0.24
HPCPT4-45	4	0.6	45	£0.37
HPCPT4-50	4	0.6	50	£0.46
HPCPT4-55	4	0.6	55	£0.46
HPCPT4-60	4	0.6	60	£0.46
HPCPT4-65	4	0.6	65	£0.58

PART NUMBER	Ød	Dimension 'C'	Length l	Price Each 1-5
HPCPT4-70	4	0.6	70	£0.58
HPCPT4-80	4	0.6	80	£0.58
HPCPT4-90	4	0.6	90	£0.69
HPCPT4-100	4	0.6	100	£1.74
HPCPT5-10	5	0.75	10	£0.12
HPCPT5-12	5	0.75	12	£0.12
HPCPT5-14	5	0.75	14	£0.13
HPCPT5-16	5	0.75	16	£0.13
HPCPT5-18	5	0.75	18	£0.15
HPCPT5-20	5	0.75	20	£0.16
HPCPT5-22	5	0.75	22	£0.17
HPCPT5-24	5	0.75	24	£0.18
HPCPT5-26	5	0.75	26	£0.20
HPCPT5-28	5	0.75	28	£0.20
HPCPT5-30	5	0.75	30	£0.22
HPCPT5-32	5	0.75	32	£0.24
HPCPT5-36	5	0.75	36	£0.27
HPCPT5-40	5	0.75	40	£0.30
HPCPT5-45	5	0.75	45	£0.31
HPCPT5-50	5	0.75	50	£0.33
HPCPT5-55	5	0.75	55	£0.58
HPCPT5-60	5	0.75	60	£0.69
HPCPT5-65	5	0.75	65	£0.75
HPCPT5-70	5	0.75	70	£0.77
HPCPT5-80	5	0.75	80	£0.80
HPCPT5-90	5	0.75	90	£0.81
HPCPT5-100	5	0.75	100	£2.14
HPCPT6-10	6	0.9	10	£0.15
HPCPT6-12	6	0.9	12	£0.16
HPCPT6-14	6	0.9	14	£0.17
HPCPT6-16	6	0.9	16	£0.17
HPCPT6-18	6	0.9	18	£0.18
HPCPT6-20	6	0.9	20	£0.19
HPCPT6-22	6	0.9	22	£0.24
HPCPT6-24	6	0.9	24	£0.25

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Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

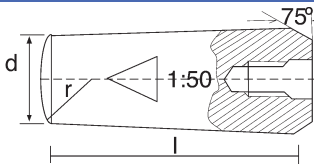
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Ød	Dimension 'C'	length l	Price Each 1-5	PART NUMBER	Ød	Dimension 'C'	length l	Price Each 1-5
HPCPT6-26	6	0.9	26	£0.31	HPCPT10-40	10	1.2	40	£0.92
HPCPT6-28	6	0.9	28	£0.31	HPCPT10-45	10	1.2	45	£1.06
HPCPT6-30	6	0.9	30	£0.32	HPCPT10-50	10	1.2	50	£1.25
HPCPT6-32	6	0.9	32	£0.33	HPCPT10-55	10	1.2	55	£1.45
HPCPT6-36	6	0.9	36	£0.33	HPCPT10-60	10	1.2	60	£1.51
HPCPT6-40	6	0.9	40	£0.34	HPCPT10-65	10	1.2	65	£1.70
HPCPT6-45	6	0.9	45	£0.37	HPCPT10-70	10	1.2	70	£1.79
HPCPT6-50	6	0.9	50	£0.40	HPCPT10-80	10	1.2	80	£1.93
HPCPT6-55	6	0.9	55	£0.53	HPCPT10-90	10	1.2	90	£2.37
HPCPT6-60	6	0.9	60	£0.53	HPCPT10-100	10	1.2	100	£2.55
HPCPT6-65	6	0.9	65	£1.28	HPCPT10-110	10	1.2	110	£2.90
HPCPT6-70	6	0.9	70	£1.29	HPCPT10-120	10	1.2	120	£3.07
HPCPT6-80	6	0.9	80	£1.39	HPCPT10-130	10	1.2	130	£3.13
HPCPT6-90	6	0.9	90	£1.50	HPCPT12-30	12	1.6	30	£1.11
HPCPT6-100	6	0.9	100	£1.45	HPCPT12-32	12	1.6	32	£1.13
HPCPT6-110	6	0.9	110	£1.79	HPCPT12-36	12	1.6	36	£1.14
HPCPT6-120	6	0.9	120	£1.85	HPCPT12-40	12	1.6	40	£1.24
HPCPT6-130	6	0.9	130	£2.43	HPCPT12-50	12	1.6	50	£1.47
HPCPT8-20	8	1.0	20	£0.30	HPCPT12-60	12	1.6	60	£1.78
HPCPT8-22	8	1.0	22	£0.33	HPCPT12-70	12	1.6	70	£2.08
HPCPT8-24	8	1.0	24	£0.33	HPCPT12-80	12	1.6	80	£2.34
HPCPT8-26	8	1.0	26	£0.48	HPCPT12-90	12	1.6	90	£2.55
HPCPT8-28	8	1.0	28	£0.48	HPCPT12-100	12	1.6	100	£2.65
HPCPT8-30	8	1.0	30	£0.49	HPCPT12-120	12	1.6	120	£5.68
HPCPT8-32	8	1.0	32	£0.49	HPCPT12-130	12	1.6	130	£5.80
HPCPT8-36	8	1.0	36	£0.51	HPCPT14-50	14	1.6	50	£2.92
HPCPT8-40	8	1.0	40	£0.51	HPCPT14-70	14	1.6	70	£3.41
HPCPT8-45	8	1.0	45	£0.54	HPCPT14-90	14	1.6	90	£4.24
HPCPT8-50	8	1.0	50	£0.64	HPCPT14-100	14	1.6	100	£4.24
HPCPT8-55	8	1.0	55	£0.81	HPCPT14-130	14	1.6	130	£6.49
HPCPT8-60	8	1.0	60	£0.83	HPCPT14-140	14	1.6	140	£8.23
HPCPT8-65	8	1.0	65	£1.04	HPCPT14-150	14	1.6	150	£9.74
HPCPT8-70	8	1.0	70	£1.05	HPCPT16-40	16	2.0	40	£2.77
HPCPT8-80	8	1.0	80	£1.12	HPCPT16-60	16	2.0	60	£3.61
HPCPT8-90	8	1.0	90	£1.39	HPCPT16-70	16	2.0	70	£3.34
HPCPT8-100	8	1.0	100	£1.50	HPCPT16-100	16	2.0	100	£5.91
HPCPT8-120	8	1.0	120	£2.20	HPCPT16-110	16	2.0	110	£6.96
HPCPT8-130	8	1.0	130	£2.37	HPCPT16-120	16	2.0	120	£8.35
HPCPT10-28	10	1.2	28	£0.71	HPCPT16-150	16	2.0	150	£10.99
HPCPT10-30	10	1.2	30	£0.71	HPCPT20-55	20	2.5	55	£5.86
HPCPT10-32	10	1.2	32	£0.74	HPCPT20-80	20	2.5	80	£9.18
HPCPT10-36	10	1.2	36	£0.87	HPCPT20-100	20	2.5	100	£11.27
					HPCPT20-150	20	2.5	150	£16.53



Extractable Taper Pins

Mild Steel
DIN 7978



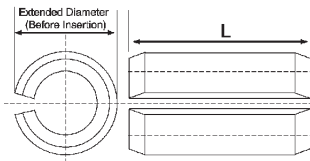
DISCOUNTS

1 - 5	List Price
6-19	-12%
20-39	-25%
40-59	-33%
60-99	-37%
100-199	-42%
200-499	-50%
500-999	-55%
1000+	-65%

Note: Overall length is greater than nominal length.

PART NUMBER	Ød	Thread Size	Length l	Price Each 1-5
HPCPTX6-16	6	M4	16	£1.25
HPCPTX6-18	6	M4	18	£1.25
HPCPTX6-20	6	M4	20	£1.25
HPCPTX6-24	6	M4	24	£1.26
HPCPTX6-26	6	M4	26	£1.28
HPCPTX6-30	6	M4	30	£1.32
HPCPTX6-32	6	M4	32	£1.34
HPCPTX6-36	6	M4	36	£1.35
HPCPTX6-40	6	M4	40	£1.39
HPCPTX6-50	6	M4	50	£1.51
HPCPTX6-55	6	M4	55	£1.54
HPCPTX6-60	6	M4	60	£1.70
HPCPTX6-70	6	M4	70	£2.07
HPCPTX6-80	6	M4	80	£2.96
HPCPTX6-90	6	M4	90	£3.85
HPCPTX8-20	8	M5	20	£1.50
HPCPTX8-24	8	M5	24	£1.54
HPCPTX8-28	8	M5	28	£1.58
HPCPTX8-30	8	M5	30	£1.58
HPCPTX8-32	8	M5	32	£1.65
HPCPTX8-36	8	M5	36	£1.69
HPCPTX8-40	8	M5	40	£1.71
HPCPTX8-45	8	M5	45	£1.80
HPCPTX8-50	8	M5	50	£1.87

PART NUMBER	Ød	Thread Size	Length l	Price Each 1-5
HPCPTX8-55	8	M5	55	£1.93
HPCPTX8-60	8	M5	60	£2.00
HPCPTX8-70	8	M5	70	£2.52
HPCPTX8-80	8	M5	80	£3.08
HPCPTX8-90	8	M5	90	£3.96
HPCPTX8-100	8	M5	100	£4.46
HPCPTX8-120	8	M5	120	£5.69
HPCPTX10-24	10	M6	24	£2.13
HPCPTX10-28	10	M6	28	£2.18
HPCPTX10-30	10	M6	30	£2.04
HPCPTX10-32	10	M6	32	£2.08
HPCPTX10-36	10	M6	36	£2.12
HPCPTX10-40	10	M6	40	£2.16
HPCPTX10-45	10	M6	45	£2.29
HPCPTX10-50	10	M6	50	£2.42
HPCPTX10-55	10	M6	55	£2.57
HPCPTX10-60	10	M6	60	£3.01
HPCPTX10-70	10	M6	70	£3.15
HPCPTX10-80	10	M6	80	£3.38
HPCPTX10-100	10	M6	100	£5.11
HPCPTX12-32	12	M8	32	£2.67
HPCPTX12-36	12	M8	36	£2.76
HPCPTX12-40	12	M8	40	£2.83
HPCPTX12-45	12	M8	45	£2.95



DISCOUNTS

Quantity	List Price
1 - 29	
30-49	-15%
50-99	-30%
100-199	-50%
200-999	-60%
1000+	-65%

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP1-4	1	1.2	1.3	4	1.0	1.1	0.2	0.7	£0.10
HPCSP1-5	1	1.2	1.3	5	1.0	1.1	0.2	0.7	£0.10
HPCSP1-6	1	1.2	1.3	6	1.0	1.1	0.2	0.7	£0.10
HPCSP1-8	1	1.2	1.3	8	1.0	1.1	0.2	0.7	£0.10
HPCSP1-10	1	1.2	1.3	10	1.0	1.1	0.2	0.7	£0.10
HPCSP1-12	1	1.2	1.3	12	1.0	1.1	0.2	0.7	£0.10
HPCSP1-14	1	1.2	1.3	14	1.0	1.1	0.2	0.7	£0.10
HPCSP1-16	1	1.2	1.3	16	1.0	1.1	0.2	0.7	£0.11
HPCSP1-20	1	1.2	1.3	20	1.0	1.1	0.2	0.7	£0.11
HPCSP1.5-4	1.5	1.7	1.8	4	1.5	1.6	0.3	1.58	£0.06
HPCSP1.5-5	1.5	1.7	1.8	5	1.5	1.6	0.3	1.58	£0.06
HPCSP1.5-6	1.5	1.7	1.8	6	1.5	1.6	0.3	1.58	£0.08
HPCSP1.5-8	1.5	1.7	1.8	8	1.5	1.6	0.3	1.58	£0.08
HPCSP1.5-10	1.5	1.7	1.8	10	1.5	1.6	0.3	1.58	£0.08
HPCSP1.5-12	1.5	1.7	1.8	12	1.5	1.6	0.3	1.58	£0.08
HPCSP1.5-14	1.5	1.7	1.8	14	1.5	1.6	0.3	1.58	£0.08
HPCSP1.5-16	1.5	1.7	1.8	16	1.5	1.6	0.3	1.58	£0.09
HPCSP1.5-18	1.5	1.7	1.8	18	1.5	1.6	0.3	1.58	£0.09
HPCSP1.5-20	1.5	1.7	1.8	20	1.5	1.6	0.3	1.58	£0.09
HPCSP1.5-24	1.5	1.7	1.8	24	1.5	1.6	0.3	1.58	£0.09
HPCSP1.5-26	1.5	1.7	1.8	26	1.5	1.6	0.3	1.58	£0.09
HPCSP1.5-30	1.5	1.7	1.8	30	1.5	1.6	0.3	1.58	£0.09
HPCSP2-4	2	2.3	2.4	4	2.0	2.1	0.4	2.82	£0.08
HPCSP2-5	2	2.3	2.4	5	2.0	2.1	0.4	2.82	£0.08
HPCSP2-6	2	2.3	2.4	6	2.0	2.1	0.4	2.82	£0.09

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP2-8	2	2.3	2.4	8	2.0	2.1	0.4	2.82	£0.09
HPCSP2-10	2	2.3	2.4	10	2.0	2.1	0.4	2.82	£0.10
HPCSP2-12	2	2.3	2.4	12	2.0	2.1	0.4	2.82	£0.10
HPCSP2-14	2	2.3	2.4	14	2.0	2.1	0.4	2.82	£0.10
HPCSP2-16	2	2.3	2.4	16	2.0	2.1	0.4	2.82	£0.11
HPCSP2-18	2	2.3	2.4	18	2.0	2.1	0.4	2.82	£0.11
HPCSP2-20	2	2.3	2.4	20	2.0	2.1	0.4	2.82	£0.12
HPCSP2-22	2	2.3	2.4	22	2.0	2.1	0.4	2.82	£0.12
HPCSP2-24	2	2.3	2.4	24	2.0	2.1	0.4	2.82	£0.12
HPCSP2-26	2	2.3	2.4	26	2.0	2.1	0.4	2.82	£0.13
HPCSP2-28	2	2.3	2.4	28	2.0	2.1	0.4	2.82	£0.13
HPCSP2-30	2	2.3	2.4	30	2.0	2.1	0.4	2.82	£0.15
HPCSP2-35	2	2.3	2.4	35	2.0	2.1	0.4	2.82	£0.17
HPCSP2-40	2	2.3	2.4	40	2.0	2.1	0.4	2.82	£0.20
HPCSP2.5-4	2.5	2.8	2.9	4	2.5	2.6	0.5	4.38	£0.08
HPCSP2.5-5	2.5	2.8	2.9	5	2.5	2.6	0.5	4.38	£0.09
HPCSP2.5-6	2.5	2.8	2.9	6	2.5	2.6	0.5	4.38	£0.09
HPCSP2.5-8	2.5	2.8	2.9	8	2.5	2.6	0.5	4.38	£0.10
HPCSP2.5-10	2.5	2.8	2.9	10	2.5	2.6	0.5	4.38	£0.11
HPCSP2.5-12	2.5	2.8	2.9	12	2.5	2.6	0.5	4.38	£0.11
HPCSP2.5-14	2.5	2.8	2.9	14	2.5	2.6	0.5	4.38	£0.12
HPCSP2.5-16	2.5	2.8	2.9	16	2.5	2.6	0.5	4.38	£0.13
HPCSP2.5-18	2.5	2.8	2.9	18	2.5	2.6	0.5	4.38	£0.13
HPCSP2.5-20	2.5	2.8	2.9	20	2.5	2.6	0.5	4.38	£0.15
HPCSP2.5-22	2.5	2.8	2.9	22	2.5	2.6	0.5	4.38	£0.16
HPCSP2.5-24	2.5	2.8	2.9	24	2.5	2.6	0.5	4.38	£0.16
HPCSP2.5-26	2.5	2.8	2.9	26	2.5	2.6	0.5	4.38	£0.17
HPCSP2.5-28	2.5	2.8	2.9	28	2.5	2.6	0.5	4.38	£0.18
HPCSP2.5-30	2.5	2.8	2.9	30	2.5	2.6	0.5	4.38	£0.18
HPCSP2.5-35	2.5	2.8	2.9	35	2.5	2.6	0.5	4.38	£0.22
HPCSP3-4	3	3.3	3.5	4	3.0	3.1	0.6	6.32	£0.09
HPCSP3-5	3	3.3	3.5	5	3.0	3.1	0.6	6.32	£0.09
HPCSP3-6	3	3.3	3.5	6	3.0	3.1	0.6	6.32	£0.09
HPCSP3-8	3	3.3	3.5	8	3.0	3.1	0.6	6.32	£0.09
HPCSP3-10	3	3.3	3.5	10	3.0	3.1	0.6	6.32	£0.09
HPCSP3-12	3	3.3	3.5	12	3.0	3.1	0.6	6.32	£0.10
HPCSP3-14	3	3.3	3.5	14	3.0	3.1	0.6	6.32	£0.10



PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP3-16	3	3.3	3.5	16	3.0	3.1	0.6	6.32	£0.10
HPCSP3-18	3	3.3	3.5	18	3.0	3.1	0.6	6.32	£0.11
HPCSP3-20	3	3.3	3.5	20	3.0	3.1	0.6	6.32	£0.11
HPCSP3-22	3	3.3	3.5	22	3.0	3.1	0.6	6.32	£0.13
HPCSP3-24	3	3.3	3.5	24	3.0	3.1	0.6	6.32	£0.13
HPCSP3-26	3	3.3	3.5	26	3.0	3.1	0.6	6.32	£0.15
HPCSP3-28	3	3.3	3.5	28	3.0	3.1	0.6	6.32	£0.15
HPCSP3-30	3	3.3	3.5	30	3.0	3.1	0.6	6.32	£0.15
HPCSP3-35	3	3.3	3.5	35	3.0	3.1	0.6	6.32	£0.16
HPCSP3-40	3	3.3	3.5	40	3.0	3.1	0.6	6.32	£0.17
HPCSP3-45	3	3.3	3.5	45	3.0	3.1	0.6	6.32	£0.17
HPCSP3-50	3	3.3	3.5	50	3.0	3.1	0.6	6.32	£0.17
HPCSP3.5-6	3.5	3.8	4.0	6	3.5	3.62	0.7	9.06	£0.11
HPCSP3.5-8	3.5	3.8	4.0	8	3.5	3.62	0.7	9.06	£0.11
HPCSP3.5-10	3.5	3.8	4.0	10	3.5	3.62	0.7	9.06	£0.11
HPCSP3.5-12	3.5	3.8	4.0	12	3.5	3.62	0.7	9.06	£0.11
HPCSP3.5-14	3.5	3.8	4.0	14	3.5	3.62	0.7	9.06	£0.12
HPCSP3.5-16	3.5	3.8	4.0	16	3.5	3.62	0.7	9.06	£0.13
HPCSP3.5-18	3.5	3.8	4.0	18	3.5	3.62	0.7	9.06	£0.13
HPCSP3.5-20	3.5	3.8	4.0	20	3.5	3.62	0.7	9.06	£0.13
HPCSP3.5-22	3.5	3.8	4.0	22	3.5	3.62	0.7	9.06	£0.16
HPCSP3.5-24	3.5	3.8	4.0	24	3.5	3.62	0.7	9.06	£0.16
HPCSP3.5-28	3.5	3.8	4.0	28	3.5	3.62	0.7	9.06	£0.16
HPCSP3.5-30	3.5	3.8	4.0	30	3.5	3.62	0.7	9.06	£0.17
HPCSP3.5-35	3.5	3.8	4.0	35	3.5	3.62	0.7	9.06	£0.17
HPCSP3.5-40	3.5	3.8	4.0	40	3.5	3.62	0.7	9.06	£0.18
HPCSP3.5-45	3.5	3.8	4.0	45	3.5	3.62	0.7	9.06	£0.19
HPCSP3.5-50	3.5	3.8	4.0	50	3.5	3.62	0.7	9.06	£0.22
HPCSP4-6	4	4.4	4.6	6	4.0	4.12	0.8	11.24	£0.09
HPCSP4-8	4	4.4	4.6	8	4.0	4.12	0.8	11.24	£0.09
HPCSP4-10	4	4.4	4.6	10	4.0	4.12	0.8	11.24	£0.09

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP4-12	4	4.4	4.6	12	4.0	4.12	0.8	11.24	£0.10
HPCSP4-14	4	4.4	4.6	14	4.0	4.12	0.8	11.24	£0.11
HPCSP4-16	4	4.4	4.6	16	4.0	4.12	0.8	11.24	£0.11
HPCSP4-18	4	4.4	4.6	18	4.0	4.12	0.8	11.24	£0.13
HPCSP4-20	4	4.4	4.6	20	4.0	4.12	0.8	11.24	£0.13
HPCSP4-22	4	4.4	4.6	22	4.0	4.12	0.8	11.24	£0.13
HPCSP4-24	4	4.4	4.6	24	4.0	4.12	0.8	11.24	£0.15
HPCSP4-26	4	4.4	4.6	26	4.0	4.12	0.8	11.24	£0.15
HPCSP4-28	4	4.4	4.6	28	4.0	4.12	0.8	11.24	£0.15
HPCSP4-30	4	4.4	4.6	30	4.0	4.12	0.8	11.24	£0.16
HPCSP4-35	4	4.4	4.6	35	4.0	4.12	0.8	11.24	£0.18
HPCSP4-40	4	4.4	4.6	40	4.0	4.12	0.8	11.24	£0.18
HPCSP4-45	4	4.4	4.6	45	4.0	4.12	0.8	11.24	£0.18
HPCSP4-50	4	4.4	4.6	50	4.0	4.12	0.8	11.24	£0.18
HPCSP4-60	4	4.4	4.6	60	4.0	4.12	0.8	11.24	£0.29
HPCSP5-6	5	5.4	5.6	6	5.0	5.12	1	17.54	£0.13
HPCSP5-8	5	5.4	5.6	8	5.0	5.12	1	17.54	£0.11
HPCSP5-10	5	5.4	5.6	10	5.0	5.12	1	17.54	£0.11
HPCSP5-12	5	5.4	5.6	12	5.0	5.12	1	17.54	£0.11
HPCSP5-14	5	5.4	5.6	14	5.0	5.12	1	17.54	£0.11
HPCSP5-16	5	5.4	5.6	16	5.0	5.12	1	17.54	£0.11
HPCSP5-18	5	5.4	5.6	18	5.0	5.12	1	17.54	£0.13
HPCSP5-20	5	5.4	5.6	20	5.0	5.12	1	17.54	£0.13
HPCSP5-22	5	5.4	5.6	22	5.0	5.12	1	17.54	£0.13
HPCSP5-24	5	5.4	5.6	24	5.0	5.12	1	17.54	£0.15
HPCSP5-26	5	5.4	5.6	26	5.0	5.12	1	17.54	£0.15
HPCSP5-28	5	5.4	5.6	28	5.0	5.12	1	17.54	£0.16
HPCSP5-30	5	5.4	5.6	30	5.0	5.12	1	17.54	£0.17
HPCSP5-35	5	5.4	5.6	35	5.0	5.12	1	17.54	£0.18
HPCSP5-40	5	5.4	5.6	40	5.0	5.12	1	17.54	£0.18
HPCSP5-45	5	5.4	5.6	45	5.0	5.12	1	17.54	£0.22
HPCSP5-50	5	5.4	5.6	50	5.0	5.12	1	17.54	£0.22
HPCSP5-55	5	5.4	5.6	55	5.0	5.12	1	17.54	£0.22
HPCSP5-60	5	5.4	5.6	60	5.0	5.12	1	17.54	£0.29
HPCSP5-65	5	5.4	5.6	65	5.0	5.12	1	17.54	£0.30
HPCSP5-70	5	5.4	5.6	70	5.0	5.12	1	17.54	£0.31
HPCSP5-75	5	5.4	5.6	75	5.0	5.12	1	17.54	£0.32
HPCSP5-80	5	5.4	5.6	80	5.0	5.12	1	17.54	£0.33



PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP6-10	6	6.4	6.7	10	6.0	6.12	1.2	26.04	£0.16
HPCSP6-12	6	6.4	6.7	12	6.0	6.12	1.2	26.04	£0.16
HPCSP6-14	6	6.4	6.7	14	6.0	6.12	1.2	26.04	£0.16
HPCSP6-16	6	6.4	6.7	16	6.0	6.12	1.2	26.04	£0.16
HPCSP6-18	6	6.4	6.7	18	6.0	6.12	1.2	26.04	£0.16
HPCSP6-20	6	6.4	6.7	20	6.0	6.12	1.2	26.04	£0.17
HPCSP6-22	6	6.4	6.7	22	6.0	6.12	1.2	26.04	£0.17
HPCSP6-24	6	6.4	6.7	24	6.0	6.12	1.2	26.04	£0.17
HPCSP6-26	6	6.4	6.7	26	6.0	6.12	1.2	26.04	£0.17
HPCSP6-28	6	6.4	6.7	28	6.0	6.12	1.2	26.04	£0.18
HPCSP6-30	6	6.4	6.7	30	6.0	6.12	1.2	26.04	£0.22
HPCSP6-35	6	6.4	6.7	35	6.0	6.12	1.2	26.04	£0.24
HPCSP6-40	6	6.4	6.7	40	6.0	6.12	1.2	26.04	£0.24
HPCSP6-45	6	6.4	6.7	45	6.0	6.12	1.2	26.04	£0.24
HPCSP6-50	6	6.4	6.7	50	6.0	6.12	1.2	26.04	£0.25
HPCSP6-55	6	6.4	6.7	55	6.0	6.12	1.2	26.04	£0.25
HPCSP6-60	6	6.4	6.7	60	6.0	6.12	1.2	26.04	£0.25
HPCSP6-65	6	6.4	6.7	65	6.0	6.12	1.2	26.04	£0.25
HPCSP6-70	6	6.4	6.7	70	6.0	6.12	1.2	26.04	£0.25
HPCSP6-75	6	6.4	6.7	75	6.0	6.12	1.2	26.04	£0.25
HPCSP6-80	6	6.4	6.7	80	6.0	6.12	1.2	26.04	£0.25
HPCSP6-85	6	6.4	6.7	85	6.0	6.12	1.2	26.04	£0.25
HPCSP6-90	6	6.4	6.7	90	6.0	6.12	1.2	26.04	£0.25
HPCSP6-95	6	6.4	6.7	95	6.0	6.12	1.2	26.04	£0.27
HPCSP6-100	6	6.4	6.7	100	6.0	6.12	1.2	26.04	£0.83
HPCSP7-10	7	7.45	7.75	10	7.0	7.15	1.2	30.00	£0.25
HPCSP7-12	7	7.45	7.75	12	7.0	7.15	1.2	30.00	£0.25
HPCSP7-16	7	7.45	7.75	16	7.0	7.15	1.2	30.00	£0.27
HPCSP7-20	7	7.45	7.75	20	7.0	7.15	1.2	30.00	£0.32
HPCSP7-30	7	7.45	7.75	30	7.0	7.15	1.2	30.00	£0.42
HPCSP7-35	7	7.45	7.75	35	7.0	7.15	1.2	30.00	£0.46

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP7-40	7	7.45	7.75	40	7.0	7.15	1.2	30.00	£0.54
HPCSP7-45	7	7.45	7.75	45	7.0	7.15	1.2	30.00	£0.56
HPCSP7-50	7	7.45	7.75	50	7.0	7.15	1.2	30.00	£0.58
HPCSP7-55	7	7.45	7.75	55	7.0	7.15	1.2	30.00	£0.58
HPCSP7-60	7	7.45	7.75	60	7.0	7.15	1.2	30.00	£0.81
HPCSP7-70	7	7.45	7.75	70	7.0	7.15	1.2	30.00	£0.89
HPCSP7-80	7	7.45	7.75	80	7.0	7.15	1.2	30.00	£1.04
HPCSP8-10	8	8.5	8.8	10	8.0	8.15	1.5	42.76	£0.22
HPCSP8-12	8	8.5	8.8	12	8.0	8.15	1.5	42.76	£0.22
HPCSP8-14	8	8.5	8.8	14	8.0	8.15	1.5	42.76	£0.22
HPCSP8-16	8	8.5	8.8	16	8.0	8.15	1.5	42.76	£0.22
HPCSP8-18	8	8.5	8.8	18	8.0	8.15	1.5	42.76	£0.24
HPCSP8-20	8	8.5	8.8	20	8.0	8.15	1.5	42.76	£0.24
HPCSP8-22	8	8.5	8.8	22	8.0	8.15	1.5	42.76	£0.24
HPCSP8-24	8	8.5	8.8	24	8.0	8.15	1.5	42.76	£0.24
HPCSP8-26	8	8.5	8.8	26	8.0	8.15	1.5	42.76	£0.25
HPCSP8-28	8	8.5	8.8	28	8.0	8.15	1.5	42.76	£0.25
HPCSP8-30	8	8.5	8.8	30	8.0	8.15	1.5	42.76	£0.30
HPCSP8-35	8	8.5	8.8	35	8.0	8.15	1.5	42.76	£0.33
HPCSP8-40	8	8.5	8.8	40	8.0	8.15	1.5	42.76	£0.34
HPCSP8-45	8	8.5	8.8	45	8.0	8.15	1.5	42.76	£0.44
HPCSP8-50	8	8.5	8.8	50	8.0	8.15	1.5	42.76	£0.51
HPCSP8-55	8	8.5	8.8	55	8.0	8.15	1.5	42.76	£0.51
HPCSP8-60	8	8.5	8.8	60	8.0	8.15	1.5	42.76	£0.51
HPCSP8-65	8	8.5	8.8	65	8.0	8.15	1.5	42.76	£0.53
HPCSP8-70	8	8.5	8.8	70	8.0	8.15	1.5	42.76	£0.53
HPCSP8-75	8	8.5	8.8	75	8.0	8.15	1.5	42.76	£0.56
HPCSP8-80	8	8.5	8.8	80	8.0	8.15	1.5	42.76	£0.56
HPCSP8-85	8	8.5	8.8	85	8.0	8.15	1.5	42.76	£0.56
HPCSP8-90	8	8.5	8.8	90	8.0	8.15	1.5	42.76	£0.71
HPCSP8-95	8	8.5	8.8	95	8.0	8.15	1.5	42.76	£0.78
HPCSP8-100	8	8.5	8.8	100	8.0	8.15	1.5	42.76	£0.95
HPCSP10-10	10	10.5	10.8	10	10.0	10.15	2	70.16	£0.81
HPCSP10-16	10	10.5	10.8	16	10.0	10.15	2	70.16	£0.35
HPCSP10-18	10	10.5	10.8	18	10.0	10.15	2	70.16	£0.35
HPCSP10-20	10	10.5	10.8	20	10.0	10.15	2	70.16	£0.35
HPCSP10-22	10	10.5	10.8	22	10.0	10.15	2	70.16	£0.41



PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP10-24	10	10.5	10.8	24	10.0	10.15	2	70.16	£0.41
HPCSP10-26	10	10.5	10.8	26	10.0	10.15	2	70.16	£0.47
HPCSP10-28	10	10.5	10.8	28	10.0	10.15	2	70.16	£0.47
HPCSP10-30	10	10.5	10.8	30	10.0	10.15	2	70.16	£0.53
HPCSP10-35	10	10.5	10.8	35	10.0	10.15	2	70.16	£0.56
HPCSP10-40	10	10.5	10.8	40	10.0	10.15	2	70.16	£0.62
HPCSP10-45	10	10.5	10.8	45	10.0	10.15	2	70.16	£0.64
HPCSP10-50	10	10.5	10.8	50	10.0	10.15	2	70.16	£0.71
HPCSP10-55	10	10.5	10.8	55	10.0	10.15	2	70.16	£0.74
HPCSP10-60	10	10.5	10.8	60	10.0	10.15	2	70.16	£0.87
HPCSP10-65	10	10.5	10.8	65	10.0	10.15	2	70.16	£0.95
HPCSP10-70	10	10.5	10.8	70	10.0	10.15	2	70.16	£0.98
HPCSP10-75	10	10.5	10.8	75	10.0	10.15	2	70.16	£1.02
HPCSP10-80	10	10.5	10.8	80	10.0	10.15	2	70.16	£1.16
HPCSP10-85	10	10.5	10.8	85	10.0	10.15	2	70.16	£1.25
HPCSP10-90	10	10.5	10.8	90	10.0	10.15	2	70.16	£1.32
HPCSP10-95	10	10.5	10.8	95	10.0	10.15	2	70.16	£1.32
HPCSP10-100	10	10.5	10.8	100	10.0	10.15	2	70.16	£2.07
HPCSP12-18	12	12.5	12.8	18	12.0	12.18	2.5	104.1	£0.56
HPCSP12-20	12	12.5	12.8	20	12.0	12.18	2.5	104.1	£0.58
HPCSP12-22	12	12.5	12.8	22	12.0	12.18	2.5	104.1	£0.63
HPCSP12-24	12	12.5	12.8	24	12.0	12.18	2.5	104.1	£0.63
HPCSP12-26	12	12.5	12.8	26	12.0	12.18	2.5	104.1	£0.64
HPCSP12-28	12	12.5	12.8	28	12.0	12.18	2.5	104.1	£0.71
HPCSP12-30	12	12.5	12.8	30	12.0	12.18	2.5	104.1	£0.81
HPCSP12-40	12	12.5	12.8	40	12.0	12.18	2.5	104.1	£1.02
HPCSP12-45	12	12.5	12.8	45	12.0	12.18	2.5	104.1	£1.09
HPCSP12-50	12	12.5	12.8	50	12.0	12.18	2.5	104.1	£1.16
HPCSP12-55	12	12.5	12.8	55	12.0	12.18	2.5	104.1	£1.29
HPCSP12-60	12	12.5	12.8	60	12.0	12.18	2.5	104.1	£1.34

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP12-65	12	12.5	12.8	65	12.0	12.18	2.5	104.1	£1.47
HPCSP12-70	12	12.5	12.8	70	12.0	12.18	2.5	104.1	£1.61
HPCSP12-75	12	12.5	12.8	75	12.0	12.18	2.5	104.1	£1.77
HPCSP12-80	12	12.5	12.8	80	12.0	12.18	2.5	104.1	£1.77
HPCSP12-85	12	12.5	12.8	85	12.0	12.18	2.5	104.1	£2.07
HPCSP12-90	12	12.5	12.8	90	12.0	12.18	2.5	104.1	£2.50
HPCSP12-95	12	12.5	12.8	95	12.0	12.18	2.5	104.1	£2.99
HPCSP12-100	12	12.5	12.8	100	12.0	12.18	2.5	104.1	£3.16
HPCSP12-120	12	12.5	12.8	120	12.0	12.18	2.5	104.1	£6.96
HPCSP12-140	12	12.5	12.8	140	12.0	12.18	2.5	104.1	£8.12
HPCSP12-160	12	12.5	12.8	160	12.0	12.18	2.5	104.1	£8.12
HPCSP12-180	12	12.5	12.8	180	12.0	12.18	2.5	104.1	£9.28
HPCSP14-22	14	14.5	14.8	22	14.0	14.18	3	144.7	£3.13
HPCSP14-50	14	14.5	14.8	50	14.0	14.18	3	144.7	£4.40
HPCSP14-60	14	14.5	14.8	60	14.0	14.18	3	144.7	£4.75
HPCSP14-75	14	14.5	14.8	75	14.0	14.18	3	144.7	£5.18
HPCSP14-80	14	14.5	14.8	80	14.0	14.18	3	144.7	£5.99
HPCSP14-90	14	14.5	14.8	90	14.0	14.18	3	144.7	£10.31
HPCSP14-100	14	14.5	14.8	100	14.0	14.18	3	144.7	£11.24
HPCSP14-120	14	14.5	14.8	120	14.0	14.18	3	144.7	£18.40
HPCSP14-150	14	14.5	14.8	150	14.0	14.18	3	144.7	£20.88
HPCSP14-180	14	14.5	14.8	180	14.0	14.18	3	144.7	£22.94
HPCSP16-20	16	16.5	16.8	20	16.0	16.18	3	171	£3.75
HPCSP16-30	16	16.5	16.8	30	16.0	16.18	3	171	£3.94
HPCSP16-35	16	16.5	16.8	35	16.0	16.18	3	171	£4.64
HPCSP16-40	16	16.5	16.8	40	16.0	16.18	3	171	£4.75
HPCSP16-45	16	16.5	16.8	45	16.0	16.18	3	171	£4.75
HPCSP16-50	16	16.5	16.8	50	16.0	16.18	3	171	£4.97
HPCSP16-55	16	16.5	16.8	55	16.0	16.18	3	171	£4.97
HPCSP16-60	16	16.5	16.8	60	16.0	16.18	3	171	£5.24
HPCSP16-65	16	16.5	16.8	65	16.0	16.18	3	171	£5.56
HPCSP16-70	16	16.5	16.8	70	16.0	16.18	3	171	£6.00
HPCSP16-75	16	16.5	16.8	75	16.0	16.18	3	171	£6.18
HPCSP16-80	16	16.5	16.8	80	16.0	16.18	3	171	£6.41
HPCSP16-85	16	16.5	16.8	85	16.0	16.18	3	171	£11.89
HPCSP16-90	16	16.5	16.8	90	16.0	16.18	3	171	£8.12
HPCSP16-95	16	16.5	16.8	95	16.0	16.18	3	171	£8.70
HPCSP16-100	16	16.5	16.8	100	16.0	16.18	3	171	£9.16



Slotted Spring Pins

Carbon Steel
ISO 8752

Fasteners slotted Spring Pins

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSP16-120	16	16.5	16.8	120	16.0	16.18	3	171	£9.22
HPCSP20-20	20	20.5	20.9	20	20.0	20.21	4	280	£5.11
HPCSP20-24	20	20.5	20.9	24	20.0	20.21	4	280	£7.28
HPCSP20-28	20	20.5	20.9	28	20.0	20.21	4	280	£7.28
HPCSP20-30	20	20.5	20.9	30	20.0	20.21	4	280	£7.28
HPCSP20-40	20	20.5	20.9	40	20.0	20.21	4	280	£7.28
HPCSP20-50	20	20.5	20.9	50	20.0	20.21	4	280	£7.31
HPCSP20-55	20	20.5	20.9	55	20.0	20.21	4	280	£7.88
HPCSP20-60	20	20.5	20.9	60	20.0	20.21	4	280	£8.83
HPCSP20-65	20	20.5	20.9	65	20.0	20.21	4	280	£9.28
HPCSP20-70	20	20.5	20.9	70	20.0	20.21	4	280	£9.86
HPCSP20-75	20	20.5	20.9	75	20.0	20.21	4	280	£10.20
HPCSP20-80	20	20.5	20.9	80	20.0	20.21	4	280	£10.44
HPCSP20-90	20	20.5	20.9	90	20.0	20.21	4	280	£11.60
HPCSP20-100	20	20.5	20.9	100	20.0	20.21	4	280	£13.92
HPCSP20-120	20	20.5	20.9	120	20.0	20.21	4	280	£17.40
HPCSP20-140	20	20.5	20.9	140	20.0	20.21	4	280	£18.56
HPCSP20-150	20	20.5	20.9	150	20.0	20.21	4	280	£19.14
HPCSP20-160	20	20.5	20.9	160	20.0	20.21	4	280	£19.48
HPCSP20-200	20	20.5	20.9	200	20.0	20.21	4	280	£19.72

'Never Knowingly Outpriced'



Materials

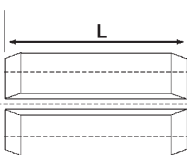
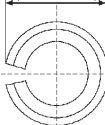
Stainless Steel A2
ISO 8752

Fasteners Slotted Spring Pins

DISCOUNTS

1 - 29	List Price
30-49	-15%
50-99	-30%
100-199	-50%
200-999	-60%
1000+	-65%

Extended Diameter
(Before Insertion)



PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSPSS1-5	1	1.2	1.3	5	1.0	1.1	0.2	0.4	£0.10
HPCSPSS1-10	1	1.2	1.3	10	1.0	1.1	0.2	0.4	£0.10
HPCSPSS1-20	1	1.2	1.3	20	1.0	1.1	0.2	0.4	£0.10
HPCSPSS1.5-5	1.5	1.7	1.8	5	1.5	1.6	0.3	0.98	£0.10
HPCSPSS1.5-6	1.5	1.7	1.8	6	1.5	1.6	0.3	0.98	£0.10
HPCSPSS1.5-8	1.5	1.7	1.8	8	1.5	1.6	0.3	0.98	£0.11
HPCSPSS1.5-10	1.5	1.7	1.8	10	1.5	1.6	0.3	0.98	£0.12
HPCSPSS1.5-12	1.5	1.7	1.8	12	1.5	1.6	0.3	0.98	£0.12
HPCSPSS1.5-14	1.5	1.7	1.8	14	1.5	1.6	0.3	0.98	£0.12
HPCSPSS1.5-16	1.5	1.7	1.8	16	1.5	1.6	0.3	0.98	£0.12
HPCSPSS1.5-18	1.5	1.7	1.8	18	1.5	1.6	0.3	0.98	£0.13
HPCSPSS1.5-20	1.5	1.7	1.8	20	1.5	1.6	0.3	0.98	£0.13
HPCSPSS1.5-24	1.5	1.7	1.8	24	1.5	1.6	0.3	0.98	£0.22
HPCSPSS2-4	2	2.3	2.4	4	2.0	2.1	0.4	1.81	£0.10
HPCSPSS2-5	2	2.3	2.4	5	2.0	2.1	0.4	1.81	£0.11
HPCSPSS2-6	2	2.3	2.4	6	2.0	2.1	0.4	1.81	£0.11
HPCSPSS2-8	2	2.3	2.4	8	2.0	2.1	0.4	1.81	£0.12
HPCSPSS2-10	2	2.3	2.4	10	2.0	2.1	0.4	1.81	£0.12
HPCSPSS2-12	2	2.3	2.4	12	2.0	2.1	0.4	1.81	£0.13
HPCSPSS2-14	2	2.3	2.4	14	2.0	2.1	0.4	1.81	£0.13
HPCSPSS2-16	2	2.3	2.4	16	2.0	2.1	0.4	1.81	£0.13
HPCSPSS2-18	2	2.3	2.4	18	2.0	2.1	0.4	1.81	£0.13
HPCSPSS2-20	2	2.3	2.4	20	2.0	2.1	0.4	1.81	£0.15
HPCSPSS2-22	2	2.3	2.4	22	2.0	2.1	0.4	1.81	£0.15

Fasteners Slotted Spring Pins



PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSPSS2-24	2	2.3	2.4	24	2.0	2.1	0.4	1.81	£0.16
HPCSPSS2-26	2	2.3	2.4	26	2.0	2.1	0.4	1.81	£0.17
HPCSPSS2-30	2	2.3	2.4	30	2.0	2.1	0.4	1.81	£0.19
HPCSPSS2.5-5	2.5	2.8	2.9	5	2.5	2.6	0.5	2.84	£0.15
HPCSPSS2.5-6	2.5	2.8	2.9	6	2.5	2.6	0.5	2.84	£0.15
HPCSPSS2.5-8	2.5	2.8	2.9	8	2.5	2.6	0.5	2.84	£0.15
HPCSPSS2.5-10	2.5	2.8	2.9	10	2.5	2.6	0.5	2.84	£0.15
HPCSPSS2.5-12	2.5	2.8	2.9	12	2.5	2.6	0.5	2.84	£0.15
HPCSPSS2.5-14	2.5	2.8	2.9	14	2.5	2.6	0.5	2.84	£0.17
HPCSPSS2.5-16	2.5	2.8	2.9	16	2.5	2.6	0.5	2.84	£0.17
HPCSPSS2.5-18	2.5	2.8	2.9	18	2.5	2.6	0.5	2.84	£0.19
HPCSPSS2.5-20	2.5	2.8	2.9	20	2.5	2.6	0.5	2.84	£0.19
HPCSPSS2.5-22	2.5	2.8	2.9	22	2.5	2.6	0.5	2.84	£0.20
HPCSPSS2.5-24	2.5	2.8	2.9	24	2.5	2.6	0.5	2.84	£0.22
HPCSPSS2.5-26	2.5	2.8	2.9	26	2.5	2.6	0.5	2.84	£0.22
HPCSPSS2.5-30	2.5	2.8	2.9	30	2.5	2.6	0.5	2.84	£0.22
HPCSPSS3-5	3	3.3	3.5	5	3.0	3.1	0.6	4.07	£0.13
HPCSPSS3-6	3	3.3	3.5	6	3.0	3.1	0.6	4.07	£0.15
HPCSPSS3-8	3	3.3	3.5	8	3.0	3.1	0.6	4.07	£0.16
HPCSPSS3-10	3	3.3	3.5	10	3.0	3.1	0.6	4.07	£0.16
HPCSPSS3-12	3	3.3	3.5	12	3.0	3.1	0.6	4.07	£0.17
HPCSPSS3-14	3	3.3	3.5	14	3.0	3.1	0.6	4.07	£0.17
HPCSPSS3-16	3	3.3	3.5	16	3.0	3.1	0.6	4.07	£0.18
HPCSPSS3-18	3	3.3	3.5	18	3.0	3.1	0.6	4.07	£0.19
HPCSPSS3-20	3	3.3	3.5	20	3.0	3.1	0.6	4.07	£0.22
HPCSPSS3-22	3	3.3	3.5	22	3.0	3.1	0.6	4.07	£0.24
HPCSPSS3-24	3	3.3	3.5	24	3.0	3.1	0.6	4.07	£0.25
HPCSPSS3-26	3	3.3	3.5	26	3.0	3.1	0.6	4.07	£0.26
HPCSPSS3-28	3	3.3	3.5	28	3.0	3.1	0.6	4.07	£0.29
HPCSPSS3-30	3	3.3	3.5	30	3.0	3.1	0.6	4.07	£0.30
HPCSPSS3-35	3	3.3	3.5	35	3.0	3.1	0.6	4.07	£0.33

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSPSS3-40	3	3.3	3.5	40	3.0	3.1	0.6	4.07	£0.35
HPCSPSS3-45	3	3.3	3.5	45	3.0	3.1	0.6	4.07	£0.51
HPCSPSS3-50	3	3.3	3.5	50	3.0	3.1	0.6	4.07	£0.53
HPCSPSS3.5-6	3.5	3.8	4.0	6	3.5	3.62	0.7	5.80	£0.42
HPCSPSS3.5-14	3.5	3.8	4.0	14	3.5	3.62	0.7	5.80	£0.53
HPCSPSS3.5-18	3.5	3.8	4.0	18	3.5	3.62	0.7	5.80	£0.59
HPCSPSS3.5-30	3.5	3.8	4.0	30	3.5	3.62	0.7	5.80	£0.82
HPCSPSS4-6	4	4.4	4.6	6	4.0	4.12	0.8	7.25	£0.15
HPCSPSS4-8	4	4.4	4.6	8	4.0	4.12	0.8	7.25	£0.17
HPCSPSS4-10	4	4.4	4.6	10	4.0	4.12	0.8	7.25	£0.19
HPCSPSS4-12	4	4.4	4.6	12	4.0	4.12	0.8	7.25	£0.24
HPCSPSS4-14	4	4.4	4.6	14	4.0	4.12	0.8	7.25	£0.26
HPCSPSS4-16	4	4.4	4.6	16	4.0	4.12	0.8	7.25	£0.29
HPCSPSS4-18	4	4.4	4.6	18	4.0	4.12	0.8	7.25	£0.32
HPCSPSS4-20	4	4.4	4.6	20	4.0	4.12	0.8	7.25	£0.33
HPCSPSS4-22	4	4.4	4.6	22	4.0	4.12	0.8	7.25	£0.37
HPCSPSS4-24	4	4.4	4.6	24	4.0	4.12	0.8	7.25	£0.41
HPCSPSS4-26	4	4.4	4.6	26	4.0	4.12	0.8	7.25	£0.46
HPCSPSS4-28	4	4.4	4.6	28	4.0	4.12	0.8	7.25	£0.48
HPCSPSS4-30	4	4.4	4.6	30	4.0	4.12	0.8	7.25	£0.52
HPCSPSS4-35	4	4.4	4.6	35	4.0	4.12	0.8	7.25	£0.58
HPCSPSS4-40	4	4.4	4.6	40	4.0	4.12	0.8	7.25	£0.63
HPCSPSS4-45	4	4.4	4.6	45	4.0	4.12	0.8	7.25	£0.70
HPCSPSS4-50	4	4.4	4.6	50	4.0	4.12	0.8	7.25	£0.76
HPCSPSS4-60	4	4.4	4.6	60	4.0	4.12	0.8	7.25	£1.10
HPCSPSS5-10	5	5.4	5.6	10	5.0	5.12	1	10.75	£0.26
HPCSPSS5-12	5	5.4	5.6	12	5.0	5.12	1	10.75	£0.33
HPCSPSS5-14	5	5.4	5.6	14	5.0	5.12	1	10.75	£0.39
HPCSPSS5-16	5	5.4	5.6	16	5.0	5.12	1	10.75	£0.44
HPCSPSS5-18	5	5.4	5.6	18	5.0	5.12	1	10.75	£0.48
HPCSPSS5-20	5	5.4	5.6	20	5.0	5.12	1	10.75	£0.53
HPCSPSS5-22	5	5.4	5.6	22	5.0	5.12	1	10.75	£0.58
HPCSPSS5-24	5	5.4	5.6	24	5.0	5.12	1	10.75	£0.62
HPCSPSS5-26	5	5.4	5.6	26	5.0	5.12	1	10.75	£0.67
HPCSPSS5-28	5	5.4	5.6	28	5.0	5.12	1	10.75	£0.74
HPCSPSS5-30	5	5.4	5.6	30	5.0	5.12	1	10.75	£0.76
HPCSPSS5-35	5	5.4	5.6	35	5.0	5.12	1	10.75	£0.88
HPCSPSS5-40	5	5.4	5.6	40	5.0	5.12	1	10.75	£0.97

PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSPSS5-45	5	5.4	5.6	45	5.0	5.12	1	10.75	£1.06
HPCSPSS5-50	5	5.4	5.6	50	5.0	5.12	1	10.75	£1.17
HPCSPSS5-60	5	5.4	5.6	60	5.0	5.12	1	10.75	£2.18
HPCSPSS5-70	5	5.4	5.6	70	5.0	5.12	1	10.75	£2.83
HPCSPSS5-80	5	5.4	5.6	80	5.0	5.12	1	10.75	£3.10
HPCSPSS6-10	6	6.4	6.7	10	6.0	6.12	1.2	16.17	£0.39
HPCSPSS6-12	6	6.4	6.7	12	6.0	6.12	1.2	16.17	£0.49
HPCSPSS6-14	6	6.4	6.7	14	6.0	6.12	1.2	16.17	£0.55
HPCSPSS6-16	6	6.4	6.7	16	6.0	6.12	1.2	16.17	£0.61
HPCSPSS6-18	6	6.4	6.7	18	6.0	6.12	1.2	16.17	£0.67
HPCSPSS6-20	6	6.4	6.7	20	6.0	6.12	1.2	16.17	£0.74
HPCSPSS6-22	6	6.4	6.7	22	6.0	6.12	1.2	16.17	£0.82
HPCSPSS6-24	6	6.4	6.7	24	6.0	6.12	1.2	16.17	£0.88
HPCSPSS6-26	6	6.4	6.7	26	6.0	6.12	1.2	16.17	£0.95
HPCSPSS6-28	6	6.4	6.7	28	6.0	6.12	1.2	16.17	£1.00
HPCSPSS6-30	6	6.4	6.7	30	6.0	6.12	1.2	16.17	£1.06
HPCSPSS6-35	6	6.4	6.7	35	6.0	6.12	1.2	16.17	£1.25
HPCSPSS6-40	6	6.4	6.7	40	6.0	6.12	1.2	16.17	£1.41
HPCSPSS6-45	6	6.4	6.7	45	6.0	6.12	1.2	16.17	£1.53
HPCSPSS6-50	6	6.4	6.7	50	6.0	6.12	1.2	16.17	£1.65
HPCSPSS6-55	6	6.4	6.7	55	6.0	6.12	1.2	16.17	£1.65
HPCSPSS6-60	6	6.4	6.7	60	6.0	6.12	1.2	16.17	£1.65
HPCSPSS6-65	6	6.4	6.7	65	6.0	6.12	1.2	16.17	£2.25
HPCSPSS6-70	6	6.4	6.7	70	6.0	6.12	1.2	16.17	£2.25
HPCSPSS6-75	6	6.4	6.7	75	6.0	6.12	1.2	16.17	£2.25
HPCSPSS6-80	6	6.4	6.7	80	6.0	6.12	1.2	16.17	£2.25
HPCSPSS8-10	8	8.5	8.8	10	8.0	8.15	1.5	26.46	£0.66
HPCSPSS8-14	8	8.5	8.8	14	8.0	8.15	1.5	26.46	£0.90
HPCSPSS8-16	8	8.5	8.8	16	8.0	8.15	1.5	26.46	£0.90
HPCSPSS8-20	8	8.5	8.8	20	8.0	8.15	1.5	26.46	£1.09
HPCSPSS8-22	8	8.5	8.8	22	8.0	8.15	1.5	26.46	£1.17

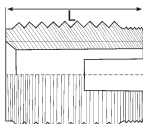
PART NUMBER	Diameter			L	Recommended Hole Size		Material Thickness	Min. Double Shear Strength (kN)	Price Each 1-29
	Nom	Min	Max		Min	Max			
HPCSPSS8-24	8	8.5	8.8	24	8.0	8.15	1.5	26.46	£1.27
HPCSPSS8-26	8	8.5	8.8	26	8.0	8.15	1.5	26.46	£1.33
HPCSPSS8-28	8	8.5	8.8	28	8.0	8.15	1.5	26.46	£1.46
HPCSPSS8-30	8	8.5	8.8	30	8.0	8.15	1.5	26.46	£1.54
HPCSPSS8-35	8	8.5	8.8	35	8.0	8.15	1.5	26.46	£1.76
HPCSPSS8-40	8	8.5	8.8	40	8.0	8.15	1.5	26.46	£1.78
HPCSPSS8-45	8	8.5	8.8	45	8.0	8.15	1.5	26.46	£1.82
HPCSPSS8-50	8	8.5	8.8	50	8.0	8.15	1.5	26.46	£1.82
HPCSPSS8-55	8	8.5	8.8	55	8.0	8.15	1.5	26.46	£2.25
HPCSPSS8-60	8	8.5	8.8	60	8.0	8.15	1.5	26.46	£2.42
HPCSPSS8-65	8	8.5	8.8	65	8.0	8.15	1.5	26.46	£2.59
HPCSPSS8-70	8	8.5	8.8	70	8.0	8.15	1.5	26.46	£2.78
HPCSPSS8-75	8	8.5	8.8	75	8.0	8.15	1.5	26.46	£2.95
HPCSPSS8-80	8	8.5	8.8	80	8.0	8.15	1.5	26.46	£3.13
HPCSPSS8-90	8	8.5	8.8	90	8.0	8.15	1.5	26.46	£3.30
HPCSPSS8-100	8	8.5	8.8	100	8.0	8.15	1.5	26.46	£3.36
HPCSPSS10-20	10	10.5	10.8	20	10.0	10.15	2	42.14	£1.61
HPCSPSS10-26	10	10.5	10.8	26	10.0	10.15	2	42.14	£1.87
HPCSPSS10-30	10	10.5	10.8	30	10.0	10.15	2	42.14	£2.06
HPCSPSS10-40	10	10.5	10.8	40	10.0	10.15	2	42.14	£2.11
HPCSPSS10-50	10	10.5	10.8	50	10.0	10.15	2	42.14	£2.18
HPCSPSS10-55	10	10.5	10.8	55	10.0	10.15	2	42.14	£3.42
HPCSPSS10-60	10	10.5	10.8	60	10.0	10.15	2	42.14	£3.71
HPCSPSS10-65	10	10.5	10.8	65	10.0	10.15	2	42.14	£6.19
HPCSPSS10-70	10	10.5	10.8	70	10.0	10.15	2	42.14	£4.64
HPCSPSS10-75	10	10.5	10.8	75	10.0	10.15	2	42.14	£4.87
HPCSPSS10-80	10	10.5	10.8	80	10.0	10.15	2	42.14	£5.09
HPCSPSS10-85	10	10.5	10.8	85	10.0	10.15	2	42.14	£5.13
HPCSPSS10-90	10	10.5	10.8	90	10.0	10.15	2	42.14	£5.13
HPCSPSS10-100	10	10.5	10.8	100	10.0	10.15	2	42.14	£4.89

'Never Knowingly Outpriced'



Self-Tapping Inserts

Brass,
Case Hardened Steel,
303 Stainless Steel, Chrome Stainless 1.4104



DISCOUNTS	
1 - 29	List Price
30 - 49	-15%
50 - 99	-20%
100 - 199	-30%
200 - 999	-40%
1000+	-50%

PART NUMBER	Thread Size		Length (mm)	Recommended Hole Diameter		Material	Price Each 1-29
	Nom	Ext		Min	Max		
HPCSTIB3-6	M3	M5 x 0.5	6	4.6	4.8	Brass	£0.61
HPCSTIB4-8	M4	M6.5 x 0.75	8	5.8	6.2	Brass	£0.95
HPCSTIB5-10	M5	M8 x 1	10	7.1	7.6	Brass	£1.45
HPCSTIB6-14	M6	M10 x 1.5	14	8.6	9.4	Brass	£1.93
HPCSTIB8-15	M8	M12 x 1.5	15	10.6	11.4	Brass	£2.47
HPCSTIB10-18	M10	M14 x 1.5	18	12.6	13.4	Brass	£2.58
HPCSTIB12-22	M12	M16 x 1.5	22	14.6	15.4	Brass	£12.76
HPCSTIHS3-6	M3	M5 x 0.5	6	4.6	4.8	Hardened Steel	£0.54
HPCSTIHS4-8	M4	M6.5 x 0.75	8	5.8	6.2	Hardened Steel	£0.54
HPCSTIHS5-10	M5	M8 x 1	10	7.1	7.6	Hardened Steel	£0.61
HPCSTIHS6-14	M6	M10 x 1.5	14	8.6	9.4	Hardened Steel	£1.91
HPCSTIHS8-15	M8	M12 x 1.5	15	10.6	11.4	Hardened Steel	£1.32
HPCSTIHS10-18	M10	M14 x 1.5	18	12.6	13.4	Hardened Steel	£4.09
HPCSTIHS12-22	M12	M16 x 1.5	22	14.6	15.4	Hardened Steel	£3.53
HPCSTIHS14-24	M14	M18 x 1.5	24	16.6	17.4	Hardened Steel	£6.09
HPCSTIHS16-25	M16	M20 x 1.5	25	18.6	19.4	Hardened Steel	£7.50
HPCSTISS3-6	M3	M5 x 0.5	6	4.6	4.8	Stainless Steel	£4.40
HPCSTISS4-8	M4	M6.5 x 0.75	8	5.8	6.2	Stainless Steel	£4.03
HPCSTISS5-10	M5	M8 x 1	10	7.1	7.6	Stainless Steel	£4.41
HPCSTISS6-14	M6	M10 x 1.5	14	8.6	9.4	Stainless Steel	£5.09
HPCSTISS8-15	M8	M12 x 1.5	10	7.1	7.6	Stainless Steel	£5.95
HPCSTISS10-18	M10	M14 x 1.5	18	12.6	13.4	Stainless Steel	£14.96
HPCSTICS5-10	M5	M8 x 1	10	7.1	7.6	Chrome Stainless	£5.06
HPCSTICS6-14	M6	M10 x 1.5	14	8.6	9.4	Chrome Stainless	£8.72
HPCSTICS8-15	M8	M12 x 1.5	15	10.6	11.4	Chrome Stainless	£6.35
HPCSTICS10-18	M10	M14 x 1.5	18	12.6	13.4	Chrome Stainless	£10.41
HPCSTICS12-22	M12	M16 x 1.5	22	14.6	15.4	Chrome Stainless	£6.26

Materials

C45k Steel
DIN 6885A

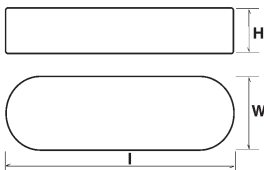
Fasteners

Parallel Keys

Round End Feather Keys

DISCOUNTS

	List Price
1 - 9	
10 - 19	-10%
20 - 39	-15%
40 - 59	-20%
60 - 99	-25%
100 - 199	-30%
200 - 299	-50%
300 - 999	-60%
1000 +	-70%



PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY2-6	2	2	6	£0.82
HPCKEY2-8	2	2	8	£0.82
HPCKEY2-10	2	2	10	£0.82
HPCKEY2-12	2	2	12	£0.82
HPCKEY2-14	2	2	14	£0.82
HPCKEY2-15	2	2	15	£0.84
HPCKEY2-16	2	2	16	£0.84
HPCKEY2-18	2	2	18	£0.82
HPCKEY2-20	2	2	20	£0.82
HPCKEY2-22	2	2	22	£0.82
HPCKEY3-6	3	3	6	£0.82
HPCKEY3-8	3	3	8	£0.82
HPCKEY3-10	3	3	10	£0.82
HPCKEY3-12	3	3	12	£0.82
HPCKEY3-14	3	3	14	£0.82
HPCKEY3-15	3	3	15	£0.82
HPCKEY3-16	3	3	16	£0.85
HPCKEY3-18	3	3	18	£0.85
HPCKEY3-20	3	3	20	£0.85
HPCKEY3-22	3	3	22	£0.90
HPCKEY3-25	3	3	25	£0.90
HPCKEY3-28	3	3	28	£0.90
HPCKEY3-30	3	3	30	£0.90
HPCKEY3-35	3	3	35	£1.12
HPCKEY4-6	4	4	6	£0.64

Fasteners Parallel Keys



Fasteners

Materials

Parallel Keys

C45K Steel

DIN 6885A

Round End Feather Keys

Fasteners Parallel Keys

PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY4-8	4	4	8	£0.64
HPCKEY4-10	4	4	10	£0.64
HPCKEY4-12	4	4	12	£0.64
HPCKEY4-14	4	4	14	£0.64
HPCKEY4-15	4	4	15	£0.64
HPCKEY4-16	4	4	16	£0.68
HPCKEY4-18	4	4	18	£0.71
HPCKEY4-20	4	4	20	£0.71
HPCKEY4-22	4	4	22	£0.71
HPCKEY4-25	4	4	25	£0.71
HPCKEY4-28	4	4	28	£0.81
HPCKEY4-30	4	4	30	£0.82
HPCKEY4-32	4	4	32	£0.83
HPCKEY4-35	4	4	35	£0.84
HPCKEY4-40	4	4	40	£0.85
HPCKEY4-45	4	4	45	£0.87
HPCKEY4-50	4	4	50	£0.88
HPCKEY5-10	5	5	10	£0.56
HPCKEY5-12	5	5	12	£0.62
HPCKEY5-14	5	5	14	£0.62
HPCKEY5-15	5	5	15	£0.62
HPCKEY5-16	5	5	16	£0.62
HPCKEY5-18	5	5	18	£0.64
HPCKEY5-20	5	5	20	£0.64
HPCKEY5-22	5	5	22	£0.64
HPCKEY5-25	5	5	25	£0.64
HPCKEY5-28	5	5	28	£0.81
HPCKEY5-30	5	5	30	£0.81
HPCKEY5-32	5	5	32	£0.87
HPCKEY5-35	5	5	35	£0.87
HPCKEY5-40	5	5	40	£0.87
HPCKEY5-45	5	5	45	£0.89



PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY5-50	5	5	50	£0.99
HPCKEY5-60	5	5	60	£0.99
HPCKEY6-10	6	6	10	£0.70
HPCKEY6-12	6	6	12	£0.70
HPCKEY6-14	6	6	14	£0.70
HPCKEY6-15	6	6	15	£0.70
HPCKEY6-16	6	6	16	£0.68
HPCKEY6-18	6	6	18	£0.68
HPCKEY6-20	6	6	20	£0.68
HPCKEY6-22	6	6	22	£0.71
HPCKEY6-25	6	6	25	£0.71
HPCKEY6-28	6	6	28	£0.87
HPCKEY6-30	6	6	30	£0.89
HPCKEY6-32	6	6	32	£0.91
HPCKEY6-35	6	6	35	£1.20
HPCKEY6-40	6	6	40	£1.20
HPCKEY6-45	6	6	45	£1.20
HPCKEY6-50	6	6	50	£1.26
HPCKEY6-60	6	6	60	£1.28
HPCKEY6-65	6	6	65	£1.28
HPCKEY6-70	6	6	70	£1.28
HPCKEY8-7-10	8	7	10	£0.90
HPCKEY8-7-12	8	7	12	£0.90
HPCKEY8-7-14	8	7	14	£0.90
HPCKEY8-7-15	8	7	15	£0.90
HPCKEY8-7-16	8	7	16	£0.90
HPCKEY8-7-18	8	7	18	£0.90
HPCKEY8-7-20	8	7	20	£0.90
HPCKEY8-7-22	8	7	22	£0.90
HPCKEY8-7-25	8	7	25	£0.96
HPCKEY8-7-28	8	7	28	£0.96
HPCKEY8-7-30	8	7	30	£0.96
HPCKEY8-7-32	8	7	32	£1.07
HPCKEY8-7-35	8	7	35	£1.07
HPCKEY8-7-40	8	7	40	£1.07
HPCKEY8-7-45	8	7	45	£1.28
HPCKEY8-7-50	8	7	50	£1.28
HPCKEY8-7-55	8	7	55	£1.33
HPCKEY8-7-60	8	7	60	£1.39
HPCKEY8-7-65	8	7	65	£1.39



Fasteners

Materials

Parallel Keys

C45K Steel

DIN 6885A

Round End Feather Keys

Fasteners Parallel Keys

PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY8-7-70	8	7	70	£1.39
HPCKEY8-7-75	8	7	75	£1.50
HPCKEY8-7-80	8	7	80	£1.39
HPCKEY10-8-20	10	8	20	£1.04
HPCKEY10-8-22	10	8	22	£1.09
HPCKEY10-8-25	10	8	25	£1.09
HPCKEY10-8-28	10	8	28	£1.09
HPCKEY10-8-30	10	8	30	£1.14
HPCKEY10-8-32	10	8	32	£1.28
HPCKEY10-8-35	10	8	35	£1.28
HPCKEY10-8-40	10	8	40	£1.28
HPCKEY10-8-45	10	8	45	£1.36
HPCKEY10-8-50	10	8	50	£1.45
HPCKEY10-8-55	10	8	55	£1.50
HPCKEY10-8-60	10	8	60	£1.54
HPCKEY10-8-65	10	8	65	£1.62
HPCKEY10-8-70	10	8	70	£2.22
HPCKEY10-8-75	10	8	75	£2.22
HPCKEY10-8-80	10	8	80	£2.22
HPCKEY10-8-85	10	8	85	£2.32
HPCKEY10-8-90	10	8	90	£2.33
HPCKEY10-8-95	10	8	95	£2.43
HPCKEY10-8-100	10	8	100	£2.55
HPCKEY10-8-110	10	8	110	£2.77
HPCKEY10-8-120	10	8	120	£2.16
HPCKEY10-8-130	10	8	130	£2.29
HPCKEY10-8-150	10	8	150	£3.16
HPCKEY10-8-180	10	8	180	£3.24
HPCKEY12-8-20	12	8	20	£1.38
HPCKEY12-8-25	12	8	25	£1.38
HPCKEY12-8-28	12	8	28	£1.38
HPCKEY12-8-30	12	8	30	£1.38

5.34



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY12-8-32	12	8	32	£1.38
HPCKEY12-8-35	12	8	35	£1.38
HPCKEY12-8-40	12	8	40	£1.38
HPCKEY12-8-45	12	8	45	£1.47
HPCKEY12-8-50	12	8	50	£1.56
HPCKEY12-8-55	12	8	55	£1.76
HPCKEY12-8-60	12	8	60	£1.76
HPCKEY12-8-65	12	8	65	£2.42
HPCKEY12-8-70	12	8	70	£2.57
HPCKEY12-8-75	12	8	75	£2.72
HPCKEY12-8-80	12	8	80	£2.85
HPCKEY12-8-90	12	8	90	£3.28
HPCKEY12-8-100	12	8	100	£2.51
HPCKEY12-8-110	12	8	110	£3.73
HPCKEY12-8-120	12	8	120	£3.95
HPCKEY12-8-130	12	8	130	£3.08
HPCKEY12-8-140	12	8	140	£4.06
HPCKEY12-8-150	12	8	150	£4.39
HPCKEY12-8-180	12	8	180	£4.40
HPCKEY14-9-25	14	9	25	£2.16
HPCKEY14-9-28	14	9	28	£2.16
HPCKEY14-9-30	14	9	30	£2.16
HPCKEY14-9-32	14	9	32	£2.16
HPCKEY14-9-35	14	9	35	£2.16
HPCKEY14-9-40	14	9	40	£2.16
HPCKEY14-9-45	14	9	45	£2.16
HPCKEY14-9-50	14	9	50	£2.16
HPCKEY14-9-55	14	9	55	£2.57
HPCKEY14-9-60	14	9	60	£2.57
HPCKEY14-9-65	14	9	65	£2.57
HPCKEY14-9-70	14	9	70	£2.57
HPCKEY14-9-75	14	9	75	£3.45
HPCKEY14-9-80	14	9	80	£3.63
HPCKEY14-9-85	14	9	85	£3.70
HPCKEY14-9-90	14	9	90	£3.94
HPCKEY14-9-95	14	9	95	£4.17
HPCKEY14-9-100	14	9	100	£4.29
HPCKEY14-9-110	14	9	110	£4.52
HPCKEY14-9-120	14	9	120	£8.12

Fasteners

Materials

Parallel Keys

C45K Steel

DIN 6885A

Round End Feather Keys

Fasteners Parallel Keys

PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY14-9-130	14	9	130	£5.45
HPCKEY14-9-150	14	9	150	£5.45
HPCKEY14-9-160	14	9	160	£6.61
HPCKEY14-9-170	14	9	170	£8.12
HPCKEY16-10-30	16	10	30	£3.01
HPCKEY16-10-40	16	10	40	£3.46
HPCKEY16-10-45	16	10	45	£3.46
HPCKEY16-10-50	16	10	50	£3.46
HPCKEY16-10-55	16	10	55	£3.94
HPCKEY16-10-60	16	10	60	£4.06
HPCKEY16-10-65	16	10	65	£4.29
HPCKEY16-10-70	16	10	70	£4.29
HPCKEY16-10-75	16	10	75	£4.52
HPCKEY16-10-80	16	10	80	£4.75
HPCKEY16-10-85	16	10	85	£4.75
HPCKEY16-10-90	16	10	90	£5.22
HPCKEY16-10-95	16	10	95	£5.55
HPCKEY16-10-100	16	10	100	£5.77
HPCKEY16-10-110	16	10	110	£5.80
HPCKEY16-10-150	16	10	150	£7.93
HPCKEY18-11-45	18	11	45	£5.35
HPCKEY18-11-50	18	11	50	£5.35
HPCKEY18-11-55	18	11	55	£5.68
HPCKEY18-11-60	18	11	60	£7.88
HPCKEY18-11-65	18	11	65	£8.00
HPCKEY18-11-70	18	11	70	£8.00
HPCKEY18-11-75	18	11	75	£8.58
HPCKEY18-11-80	18	11	80	£8.58
HPCKEY18-11-85	18	11	85	£9.04
HPCKEY18-11-90	18	11	90	£9.16
HPCKEY18-11-95	18	11	95	£9.62
HPCKEY18-11-100	18	11	100	£9.62

5.36



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY18-11-110	18	11	110	£10.19
HPCKEY18-11-120	18	11	120	£10.20
HPCKEY18-11-130	18	11	130	£11.13
HPCKEY18-11-140	18	11	140	£11.60
HPCKEY18-11-150	18	11	150	£12.29
HPCKEY18-11-160	18	11	160	£12.87
HPCKEY18-11-180	18	11	180	£13.92
HPCKEY20-12-45	20	12	45	£7.19
HPCKEY20-12-50	20	12	50	£7.25
HPCKEY20-12-55	20	12	55	£7.25
HPCKEY20-12-60	20	12	60	£7.86
HPCKEY20-12-65	20	12	65	£8.00
HPCKEY20-12-70	20	12	70	£8.00
HPCKEY20-12-75	20	12	75	£8.81
HPCKEY20-12-80	20	12	80	£8.81
HPCKEY20-12-85	20	12	85	£9.72
HPCKEY20-12-90	20	12	90	£9.72
HPCKEY20-12-95	20	12	95	£10.61
HPCKEY20-12-100	20	12	100	£10.61
HPCKEY20-12-110	20	12	110	£11.60
HPCKEY20-12-120	20	12	120	£12.87
HPCKEY20-12-130	20	12	130	£12.93
HPCKEY20-12-140	20	12	140	£14.15
HPCKEY22-14-60	22	14	60	£7.23
HPCKEY22-14-70	22	14	70	£8.00
HPCKEY22-14-80	22	14	80	£10.78
HPCKEY22-14-120	22	14	120	£14.31
HPCKEY22-14-180	22	14	180	£17.40
HPCKEY25-14-60	25	14	60	£17.40
HPCKEY25-14-65	25	14	65	£17.40
HPCKEY25-14-70	25	14	70	£17.40
HPCKEY25-14-75	25	14	75	£17.40
HPCKEY25-14-80	25	14	80	£17.40
HPCKEY25-14-85	25	14	85	£17.40
HPCKEY25-14-90	25	14	90	£17.40
HPCKEY25-14-95	25	14	95	£17.40
HPCKEY25-14-100	25	14	100	£17.40
HPCKEY25-14-110	25	14	110	£17.40
HPCKEY25-14-120	25	14	120	£17.40



Fasteners

Materials

Parallel Keys

C45K Steel

DIN 6885A

Round End Feather Keys

Fasteners Parallel Keys

PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKEY25-14-130	25	14	130	£17.40
HPCKEY25-14-140	25	14	140	£18.56
HPCKEY25-14-150	25	14	150	£18.56
HPCKEY25-14-160	25	14	160	£18.56
HPCKEY25-14-170	25	14	170	£19.72
HPCKEY25-14-180	25	14	180	£19.72
HPCKEY28-16-65	28	16	65	£14.96
HPCKEY28-16-70	28	16	70	£16.24
HPCKEY28-16-80	28	16	80	£17.05
HPCKEY28-16-85	28	16	85	£17.40
HPCKEY28-16-90	28	16	90	£17.40
HPCKEY28-16-95	28	16	95	£17.40
HPCKEY28-16-100	28	16	100	£17.40
HPCKEY28-16-110	28	16	110	£17.40
HPCKEY28-16-120	28	16	120	£17.51
HPCKEY28-16-130	28	16	130	£17.51
HPCKEY28-16-140	28	16	140	£17.51
HPCKEY28-16-150	28	16	150	£17.51
HPCKEY28-16-160	28	16	160	£17.51
HPCKEY28-16-170	28	16	170	£18.56
HPCKEY28-16-180	28	16	180	£19.72
HPCKEY32-18-85	32	18	85	£16.24
HPCKEY32-18-100	32	18	100	£18.56
HPCKEY32-18-120	32	18	120	£18.56
HPCKEY32-18-130	32	18	130	£18.56
HPCKEY32-18-140	32	18	140	£18.56
HPCKEY32-18-150	32	18	150	£18.67
HPCKEY32-18-160	32	18	160	£18.79
HPCKEY36-20-120	36	20	120	£18.56
HPCKEY36-20-130	36	20	130	£20.12
HPCKEY36-20-140	36	20	140	£19.83
HPCKEY40-22-150	40	22	150	£27.20
HPCKEY40-22-180	40	22	180	£29.87

5.38



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

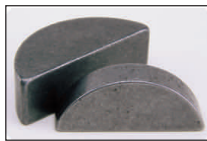
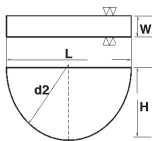
C45k Steel

DIN 6888 / ISO 3912

Fasteners Woodruff Keys

DISCOUNTS

Quantity	List Price
1 - 9	
10-19	-10%
20-49	-20%
50-99	-35%
100-499	-40%
500-999	-45%
1000+	-50%



PART NUMBER	Width (W) h9	Height (H) h12	Length (L)	Diameter (d2 x 2)	Price Each 1-9
HPCKW1.5-2.6	1.5	2.6	6.75	7	£0.33
HPCKW2-2.6	2	2.6	6.75	7	£0.33
HPCKW2-3.7	2	3.7	9.66	10	£0.33
HPCKW2-5	2	5	12.65	13	£0.39
HPCKW2.5-3.7	2.5	3.7	9.66	10	£0.31
HPCKW3-3.7	3	3.7	9.66	10	£0.31
HPCKW3-5	3	5	12.65	13	£0.33
HPCKW3-6.5	3	6.5	15.72	16	£0.39
HPCKW4-5	4	5	12.65	13	£0.33
HPCKW4-6.5	4	6.5	15.72	16	£0.33
HPCKW4-7.5	4	7.5	18.57	19	£0.46
HPCKW5-6.5	5	6.5	15.72	16	£0.51
HPCKW5-7.5	5	7.5	18.57	19	£0.61
HPCKW5-9	5	9	21.63	22	£0.66
HPCKW5-10	5	10	24.49	25	£1.33
HPCKW6-7.5	6	7.5	18.57	19	£0.89
HPCKW6-9	6	9	21.63	22	£0.95
HPCKW6-10	6	10	24.49	25	£1.22
HPCKW6-11	6	11	27.35	28	£1.27
HPCKW7-10	7	10	24.49	25	£0.95
HPCKW8-9	8	9	21.63	22	£1.27
HPCKW8-11	8	11	27.35	28	£1.53
HPCKW8-13	8	13	31.43	32	£1.65
HPCKW10-11	10	11	27.35	28	£1.60
HPCKW10-13	10	13	31.43	32	£2.04
HPCKW10-16	10	16	43.08	45	£3.51

Fasteners Woodruff Keys



Fasteners

Key Steel

Materials

Steel
C45k

DISCOUNTS

1 - 9	List Price
20 - 49	-20%
50 - 99	-30%
100 - 199	-40%
200 - 499	-50%
500 +	-60%



Fasteners Key Steel

PART NUMBER	Width	Height	Length	Price Each 1-9
HPCKS2-2-300	2	2	300	£1.26
HPCKS3-3-300	3	3	300	£2.70
HPCKS4-4-300	4	4	300	£3.08
HPCKS5-3-300	5	3	300	£1.26
HPCKS5-5-300	5	5	300	£3.61
HPCKS6-4-300	6	4	300	£1.33
HPCKS6-6-300	6	6	300	£3.78
HPCKS7-7-300	7	7	300	£4.75
HPCKS8-5-300	8	5	300	£4.10
HPCKS8-7-300	8	7	300	£3.86
HPCKS8-8-300	8	8	300	£7.55
HPCKS10-6-300	10	6	300	£5.86
HPCKS10-8-300	10	8	300	£7.59
HPCKS10-10-300	10	10	300	£6.63
HPCKS12-8-300	12	8	300	£7.57
HPCKS12-10-300	12	10	300	£11.43
HPCKS12-12-300	12	12	300	£10.83
HPCKS14-6-300	14	6	300	£4.29
HPCKS14-9-300	14	9	300	£8.94
HPCKS14-10-300	14	10	300	£17.52
HPCKS14-14-300	14	14	300	£9.94
HPCKS16-10-300	16	10	300	£10.21
HPCKS16-16-300	16	16	300	£9.94
HPCKS18-11-300	18	11	300	£9.54
HPCKS18-18-300	18	18	300	£12.58

5.40



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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PART NUMBER	Width (W) h9	Height (H) h11	Length (L)	Price Each 1-9
HPCKS20-12-300	20	12	300	£12.07
HPCKS20-20-300	20	20	300	£15.52
HPCKS22-9-300	22	9	300	£7.74
HPCKS22-14-300	22	14	300	£15.71
HPCKS25-14-300	25	14	300	£12.40
HPCKS25-25-300	25	25	300	£23.59
HPCKS28-16-300	28	16	300	£17.17
HPCKS32-18-300	32	18	300	£24.73
HPCKS36-20-300	36	20	300	£23.67
HPCKS40-22-300	40	22	300	£25.32
HPCKS56-32-300	56	32	300	£78.84
HPCKS2-2-1000	2	2	1000	£3.09
HPCKS3-3-1000	3	3	1000	£2.58
HPCKS4-4-1000	4	4	1000	£3.08
HPCKS5-3-1000	5	3	1000	£9.25
HPCKS5-5-1000	5	5	1000	£3.77
HPCKS6-4-1000	6	4	1000	£4.00
HPCKS6-6-1000	6	6	1000	£4.46
HPCKS7-7-1000	7	7	1000	£10.41
HPCKS8-5-1000	8	5	1000	£4.80
HPCKS8-7-1000	8	7	1000	£6.00
HPCKS8-8-1000	8	8	1000	£8.71
HPCKS10-6-1000	10	6	1000	£7.43
HPCKS10-8-1000	10	8	1000	£8.67
HPCKS10-10-1000	10	10	1000	£10.61
HPCKS12-6-1000	12	6	1000	£7.88
HPCKS12-8-1000	12	8	1000	£10.24
HPCKS12-10-1000	12	10	1000	£12.45
HPCKS12-12-1000	12	12	1000	£15.04
HPCKS14-9-1000	14	9	1000	£13.74
HPCKS14-10-1000	14	10	1000	£56.06
HPCKS14-14-1000	14	14	1000	£21.10
HPCKS16-7-1000	16	7	1000	£12.36
HPCKS16-10-1000	16	10	1000	£17.44
HPCKS16-16-1000	16	16	1000	£28.33



Fasteners

Key Steel

Materials

Steel
C45k

Fasteners Key Steel

PART NUMBER	Width	Height	Length	Price Each 1-9
HPCKS18-7-1000	18	7	1000	£14.72
HPCKS18-11-1000	18	11	1000	£21.64
HPCKS18-18-1000	18	18	1000	£35.90
HPCKS20-8-1000	20	8	1000	£67.66
HPCKS20-12-1000	20	12	1000	£26.21
HPCKS20-14-1000	20	14	1000	£32.29
HPCKS20-20-1000	20	20	1000	£43.30
HPCKS22-9-1000	22	9	1000	£72.50
HPCKS22-14-1000	22	14	1000	£33.68
HPCKS22-22-1000	22	33	1000	£58.11
HPCKS25-14-1000	25	14	1000	£38.12
HPCKS25-25-1000	25	25	1000	£61.97
HPCKS28-16-1000	28	16	1000	£48.82
HPCKS32-18-1000	28	16	1000	£62.82
HPCKS36-20-1000	36	20	1000	£73.89
HPCKS40-22-1000	36	22	1000	£92.74
HPCKS45-25-1000	45	25	1000	£120.74
HPCKS56-32-1000	45	32	1000	£197.10

'Never Knowingly Outpriced'

5.42

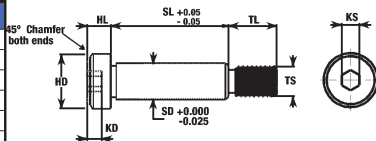


Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

DISCOUNTS

Quantity	List Price
1 - 20	
21 - 50	-30%
51 - 199	-40%
200 - 499	-45%
500 - 999	-50%
1000 +	-55%



PART NUMBER										Price Each 1-20	
416	303	SD	SL	HD	HL	TL	TS	KS	KD	416	303
HPCSHSS3-4	HPCSHS3-4	3.987	4.013	6	3	4	M3	2.00	1.60	£7.45	£3.45
HPCSHSS3-5	HPCSHS3-5	3.987	5.013	6	3	4	M3	2.00	1.60	£7.45	£3.17
HPCSHSS3-6	HPCSHS3-6	3.987	6.013	6	3	4	M3	2.00	1.60	£7.45	£3.17
HPCSHSS3-8	HPCSHS3-8	3.987	8.013	6	3	4	M3	2.00	1.60	£7.45	£3.17
HPCSHSS3-10	HPCSHS3-10	3.987	10.013	6	3	4	M3	2.00	1.60	£7.45	£3.17
HPCSHSS4-4	HPCSHS4-4	4.987	4.013	8	4	5	M4	2.50	2.00	£7.45	£3.17
HPCSHSS4-5	HPCSHS4-5	4.987	5.013	8	4	5	M4	2.50	2.00	£7.45	£3.17
HPCSHSS4-6	HPCSHS4-6	4.987	6.013	8	4	5	M4	2.50	2.00	£7.45	£3.17
HPCSHSS4-8	HPCSHS4-8	4.987	8.013	8	4	5	M4	2.50	2.00	£7.45	£3.17
HPCSHSS4-10	HPCSHS4-10	4.987	10.013	8	4	5	M4	2.50	2.00	£7.45	£3.17
HPCSHSS4-12	HPCSHS4-12	4.987	12.013	8	4	5	M4	2.50	2.00	£8.51	£3.63
HPCSHSS4-14	HPCSHS4-14	4.987	14.013	8	4	5	M4	2.50	2.00	£8.51	£3.63
HPCSHSS4-16	HPCSHS4-16	4.987	16.013	8	4	5	M4	2.50	2.00	£8.51	£3.63
HPCSHSS4-20	HPCSHS4-20	4.987	20.013	8	4	5	M4	2.50	2.00	£8.51	£3.63
HPCSHSS4-25	HPCSHS4-25	4.987	25.013	8	4	5	M4	2.50	2.00	£9.19	£4.51
HPCSHSS4-30	HPCSHS4-30	4.987	30.013	8	4	5	M4	2.50	2.00	£9.19	£4.51
HPCSHSS5-4	HPCSHS5-4	5.987	4.013	10	5	6	M5	3.00	2.40	£7.45	£3.17
HPCSHSS5-5	HPCSHS5-5	5.987	5.013	10	5	6	M5	3.00	2.40	£7.45	£3.17
HPCSHSS5-6	HPCSHS5-6	5.987	6.013	10	5	6	M5	3.00	2.40	£7.45	£3.17
HPCSHSS5-8	HPCSHS5-8	5.987	8.013	10	5	6	M5	3.00	2.40	£7.45	£3.17
HPCSHSS5-10	HPCSHS5-10	5.987	10.013	10	5	6	M5	3.00	2.40	£7.45	£3.17
HPCSHSS5-12	HPCSHS5-12	5.987	12.013	10	5	6	M5	3.00	2.40	£8.51	£3.63
HPCSHSS5-14	HPCSHS5-14	5.987	14.013	10	5	6	M5	3.00	2.40	£8.51	£3.63
HPCSHSS5-16	HPCSHS5-16	5.987	16.013	10	5	6	M5	3.00	2.40	£8.51	£5.22

HPCSHS: Stainless Steel Grade 303 18-8 (Tensile Strength 550+ N/mm²)

HPCSHSS: hard 416 Stainless 26-32 HRC (Tensile Strength 850-1000 N/mm²)

Specials available on request.

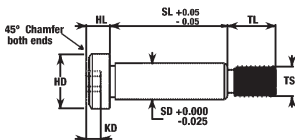
Fasteners

Precision Shoulder Screws

Materials

Stainless Steel

303 & 416 Grade Socket Head



DISCOUNTS

1 - 20	List Price
21 - 50	-30%
51 - 199	-40%
200 - 499	-45%
500 - 999	-50%
1000 +	-55%

Fasteners Shoulder Screw Stainless

PART NUMBER											Price Each	
416	303	SD	SL	HD	HL	TL	TS	KS	KD	416	303	
HPCSHSS5-20	HPCSHS5-20	5.987	20.013	10	5	6	M5	3.00	2.40	£9.19	£5.22	
HPCSHSS5-25	HPCSHS5-25	5.987	25.013	10	5	6	M5	3.00	2.40	£9.19	£5.22	
HPCSHSS5-30	HPCSHS5-30	5.987	30.013	10	5	6	M5	3.00	2.40	£9.19	£5.22	
HPCSHSS6-6	HPCSHS6-6	7.987	6.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-8	HPCSHS6-8	7.987	8.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-10	HPCSHS6-10	7.987	10.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-12	HPCSHS6-12	7.987	12.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-16	HPCSHS6-16	7.987	16.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-20	HPCSHS6-20	7.987	20.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-25	HPCSHS6-25	7.987	25.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6-30	HPCSHS6-30	7.987	30.013	12	6	11	M6	4.00	3.20	£9.19	£5.22	
HPCSHSS6.1-8	HPCSHS6.1-8	9.987	8.013	12	6	11	M6	4.00	3.20	£12.02	£6.53	
HPCSHSS6.1-10	HPCSHS6.1-10	9.987	10.013	12	6	11	M6	4.00	3.20	£12.02	£6.53	
HPCSHSS6.1-12	HPCSHS6.1-12	9.987	12.013	12	6	11	M6	4.00	3.20	£12.02	£6.53	
HPCSHSS6.1-16	HPCSHS6.1-16	9.987	16.013	12	6	11	M6	4.00	3.20	£12.02	£6.53	
HPCSHSS8-8	HPCSHS8-8	9.987	8.013	14	7	12	M8	5.00	4.00	£12.02	£6.53	
HPCSHSS8-10	HPCSHS8-10	9.987	10.013	14	7	12	M8	5.00	4.00	£12.02	£6.53	
HPCSHSS8-12	HPCSHS8-12	9.987	12.013	14	7	12	M8	5.00	4.00	£13.90	£7.30	
HPCSHSS8-16	HPCSHS8-16	9.987	16.013	14	7	12	M8	5.00	4.00	£13.90	£7.30	
HPCSHSS8-20	HPCSHS8-20	9.987	20.013	14	7	12	M8	5.00	4.00	£13.90	£6.53	
HPCSHSS8-25	HPCSHS8-25	9.987	25.013	14	7	12	M8	5.00	4.00	£13.90	£6.53	
HPCSHSS8-30	HPCSHS8-30	9.987	30.013	14	7	12	M8	5.00	4.00	£13.90	£6.53	
HPCSHSS10-12	HPCSHS10-12	11.987	12.013	20	8	16	M10	6.00	4.80	£18.29	£9.87	
HPCSHSS10-16	HPCSHS10-16	11.987	16.013	20	8	16	M10	6.00	4.80	£18.29	£9.87	
HPCSHSS10-20	HPCSHS10-20	11.987	20.013	20	8	16	M10	6.00	4.80	£18.29	£9.87	
HPCSHSS10-25	HPCSHS10-25	11.987	25.013	20	8	16	M10	6.00	4.80	£18.29	£9.87	
HPCSHSS10-30	HPCSHS10-30	11.987	30.013	20	8	16	M10	6.00	4.80	£13.96	£9.87	

5.44



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

Hardened Steel

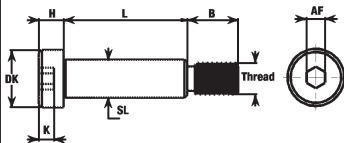
Fasteners

Precision Shoulder Screws

12.9 Quality BS 4168 Pt. 7 (ISO 7379)

DISCOUNTS

1 - 19	List Price
20 - 49	-20%
50 - 99	-40%
100 - 199	-50%
200 - 499	-60%
500 - 999	-68%
1000 - 1999	-70%
2000 +	-72%



PART NUMBER	Thread	L ^{+0.25}	Pitch	B	DK	K	SL	H	AF	Price Each 1-19
HPCHSS5-10	M5	10	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.45
HPCHSS5-12	M5	12	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.45
HPCHSS5-16	M5	16	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.54
HPCHSS5-20	M5	20	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.48
HPCHSS5-25	M5	25	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.49
HPCHSS5-30	M5	30	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.49
HPCHSS5-40	M5	40	0.80	9.75	10.22	2.40	Ø6 ^{-0.010} _{-0.040}	4.50	3	£1.54
HPCHSS6-12	M6	12	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.57
HPCHSS6-16	M6	16	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.61
HPCHSS6-20	M6	20	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.67
HPCHSS6-25	M6	25	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.67
HPCHSS6-30	M6	30	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.74
HPCHSS6-40	M6	40	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.79
HPCHSS6-50	M6	50	1.00	11.25	13.27	3.30	Ø8 ^{-0.013} _{-0.049}	5.50	4	£1.85
HPCHSS8-16	M8	16	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£1.89
HPCHSS8-20	M8	20	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£1.89
HPCHSS8-25	M8	25	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£1.94
HPCHSS8-30	M8	30	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£2.38
HPCHSS8-40	M8	40	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£2.52
HPCHSS8-50	M8	50	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£2.55
HPCHSS8-60	M8	60	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£2.55
HPCHSS8-70	M8	70	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£2.80
HPCHSS8-80	M8	80	1.25	13.25	16.27	4.20	Ø10 ^{-0.013} _{-0.049}	7.00	5	£3.12

Fasteners Shoulder Screws Hardened Steel



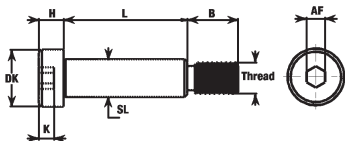
Fasteners

Materials

Precision Shoulder Screws

Hardened Steel

12.9 Quality BS 4168 Pt. 7 (ISO 7379)



DISCOUNTS

Quantity	List Price
1 - 19	
20 - 49	-20%
50 - 99	-40%
100 - 199	-50%
200 - 499	-60%
500 - 999	-68%
1000 - 1999	-70%
2000 +	-72%

Fasteners Shoulder Screws Hardened Steel

PART NUMBER	Thread	$L^{+0.25}$	Pitch	B	DK	K	SL	H	AF	Price Each 1-19
HPCHSS10-16	M10	16	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£2.98
HPCHSS10-20	M10	20	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£3.01
HPCHSS10-25	M10	25	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£3.24
HPCHSS10-30	M10	30	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£3.29
HPCHSS10-40	M10	40	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£3.21
HPCHSS10-50	M10	50	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£3.56
HPCHSS10-60	M10	60	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£4.39
HPCHSS10-70	M10	70	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£4.66
HPCHSS10-80	M10	80	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£5.99
HPCHSS10-90	M10	90	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£6.87
HPCHSS10-100	M10	100	1.50	16.40	18.27	4.90	$\varnothing 12_{-0.016/-0.059}$	8.00	6	£8.17
HPCHSS12-30	M12	30	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£5.59
HPCHSS12-40	M12	40	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£6.05
HPCHSS12-50	M12	50	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£6.28
HPCHSS12-60	M12	60	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£7.51
HPCHSS12-70	M12	70	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£7.79
HPCHSS12-80	M12	80	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£8.46
HPCHSS12-90	M12	90	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£9.22
HPCHSS12-120	M12	120	1.75	18.40	24.33	6.60	$\varnothing 16_{-0.016/-0.059}$	10.00	8	£29.58

5.46



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Nom size mm	Thread Ø	Thread Section Tensile Strength		Shoulder		Thread neck		** Tightening Torque	
		Kg	KN	Kg	KN	Kg	KN	Kg	KN
6	M5	1732	16.99	2087	20.47	777	7.62	0.78	7.61
8	M6	2450	24.03	3710	36.38	1112	10.90	1.34	13.14
10	M8	4465	43.77	5798	56.86	2122	20.81	3.43	33.63
12	M10	7075	69.38	8349	81.88	3446	33.79	6.17	60.56
16	M12	10250	100.52	14842	145.55	5079	49.80	12.30	120.62
20	M16	19150	187.80	23191	227.43	9828	96.38	27.92	273.80
24	M20	29850	292.73	33395	327.49	15518	152.18	50.14	491.70

Material

Alloy Steel - High Grade. 12.9 Quality BS4168 Pt. 7 (ISO 7379). Hardness: 38 HRC.

Performance

***Minimum Tensile Strength:** 1220 N/mm²

Shear Strength: 624 N/mm²

Minimum Elongation: 8%

Working Temperature: -50 C +300 C

Minimum Hardness: Rockwell 38 HRC

Material

To test that the hardness is in accordance with the values specified: Socket shoulder screws

The test shall be made on the point after 0.38mm has been removed by grinding.

** Where tensile tests cannot be carried out because sizes are too small, the hardness test is acceptable.*

*** It is recommended that tightening torque be limited to these values when screws are to be tightened or loosened with standard keys or bits.*

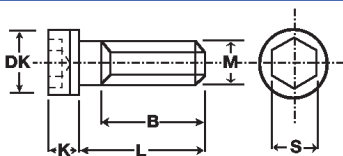
Fasteners

Materials

Socket Head Cap Screws

Steel

12.9 Quality DIN 912



DISCOUNTS

Quantity	List Price
1 - 19	List Price
20 - 49	-20%
50 - 99	-40%
100 - 199	-50%
200 - 499	-60%
500 - 999	-70%
1000 +	-75%

Fasteners Socket Head Cap Screws Steel

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-19
HPCAM1.6-4	M1.6	4	0.35	-	3.00	1.60	1.50	£2.93
HPCAM1.6-6	M1.6	6	0.35	-	3.00	1.60	1.50	£2.47
HPCAM2-3	M2	3	0.40	-	3.80	2.00	1.50	£1.14
HPCAM2-4	M2	4	0.40	-	3.80	2.00	1.50	£0.95
HPCAM2-5	M2	5	0.40	-	3.80	2.00	1.50	£1.03
HPCAM2-6	M2	6	0.40	-	3.80	2.00	1.50	£1.05
HPCAM2-8	M2	8	0.40	-	3.80	2.00	1.50	£1.11
HPCAM2-10	M2	10	0.40	-	3.80	2.00	1.50	£1.12
HPCAM2-12	M2	12	0.40	-	3.80	2.00	1.50	£0.81
HPCAM2.5-5	M2.5	5	0.45	-	4.50	2.50	2.00	£1.04
HPCAM2.5-6	M2.5	6	0.45	-	4.50	2.50	2.00	£0.76
HPCAM2.5-8	M2.5	8	0.45	-	4.50	2.50	2.00	£1.11
HPCAM2.5-10	M2.5	10	0.45	-	4.50	2.50	2.00	£1.13
HPCAM2.5-12	M2.5	12	0.45	-	4.50	2.50	2.00	£1.60
HPCAM3-4	M3	4	0.50	-	5.68	3.00	2.50	£1.03
HPCAM3-5	M3	5	0.50	-	5.68	3.00	2.50	£0.53
HPCAM3-6	M3	6	0.50	-	5.68	3.00	2.50	£0.29
HPCAM3-8	M3	8	0.50	-	5.68	3.00	2.50	£0.25
HPCAM3-10	M3	10	0.50	-	5.68	3.00	2.50	£0.20
HPCAM3-12	M3	12	0.50	-	5.68	3.00	2.50	£0.20
HPCAM3-14	M3	14	0.50	-	5.68	3.00	2.50	£0.22
HPCAM3-15	M3	15	0.50	-	5.68	3.00	2.50	£0.22
HPCAM3-16	M3	16	0.50	-	5.68	3.00	2.50	£0.20
HPCAM3-20	M3	20	0.50	-	5.68	3.00	2.50	£0.25
HPCAM3-25	M3	25	0.50	18	5.68	3.00	2.50	£0.29
HPCAM3-30	M3	30	0.50	18	5.68	3.00	2.50	£0.32

5.48



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

Steel

12.9 Quality DIN 912

Fasteners

Socket Head Cap Screws

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-19
HPCAM3-35	M3	35	0.50	18	5.68	3.00	2.50	£0.45
HPCAM4-5	M4	5	0.70	-	7.22	4.00	3.00	£0.29
HPCAM4-6	M4	6	0.70	-	7.22	4.00	3.00	£0.29
HPCAM4-8	M4	8	0.70	-	7.22	4.00	3.00	£0.20
HPCAM4-10	M4	10	0.70	-	7.22	4.00	3.00	£0.18
HPCAM4-12	M4	12	0.70	-	7.22	4.00	3.00	£0.18
HPCAM4-14	M4	14	0.70	-	7.22	4.00	3.00	£0.22
HPCAM4-16	M4	16	0.70	-	7.22	4.00	3.00	£0.20
HPCAM4-20	M4	20	0.70	-	7.22	4.00	3.00	£0.20
HPCAM4-25	M4	25	0.70	-	7.22	4.00	3.00	£0.22
HPCAM4-30	M4	30	0.70	20	7.22	4.00	3.00	£0.25
HPCAM4-35	M4	35	0.70	20	7.22	4.00	3.00	£0.29
HPCAM4-40	M4	40	0.70	20	7.22	4.00	3.00	£0.32
HPCAM4-45	M4	45	0.70	20	7.22	4.00	3.00	£0.45
HPCAM4-50	M4	50	0.70	20	7.22	4.00	3.00	£0.49
HPCAM5-6	M5	6	0.80	-	8.72	5.00	4.00	£0.22
HPCAM5-8	M5	8	0.80	-	8.72	5.00	4.00	£0.25
HPCAM5-10	M5	10	0.80	-	8.72	5.00	4.00	£0.20
HPCAM5-12	M5	12	0.80	-	8.72	5.00	4.00	£0.20
HPCAM5-16	M5	16	0.80	-	8.72	5.00	4.00	£0.20
HPCAM5-18	M5	18	0.80	-	8.72	5.00	4.00	£0.25
HPCAM5-20	M5	20	0.80	-	8.72	5.00	4.00	£0.20
HPCAM5-25	M5	25	0.80	-	8.72	5.00	4.00	£0.22
HPCAM5-30	M5	30	0.80	22	8.72	5.00	4.00	£0.25
HPCAM5-35	M5	35	0.80	22	8.72	5.00	4.00	£0.25
HPCAM5-40	M5	40	0.80	22	8.72	5.00	4.00	£0.31
HPCAM5-45	M5	45	0.80	22	8.72	5.00	4.00	£0.41
HPCAM5-50	M5	50	0.80	22	8.72	5.00	4.00	£0.42
HPCAM5-55	M5	55	0.80	22	8.72	5.00	4.00	£0.55
HPCAM5-60	M5	60	0.80	22	8.72	5.00	4.00	£0.61
HPCAM5-70	M5	70	0.80	22	8.72	5.00	4.00	£0.73
HPCAM6-8	M6	8	1.00	-	10.22	6.00	5.00	£0.29
HPCAM6-10	M6	10	1.00	-	10.22	6.00	5.00	£0.20

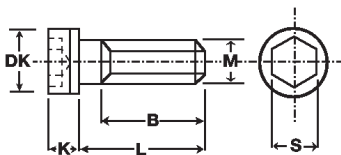
Fasteners Socket Head Cap Screws Steel



Socket Head Cap Screws

Steel

12.9 Quality DIN 912



DISCOUNTS

Quantity	List Price
1 - 19	
20 - 49	-20%
50 - 99	-40%
100 - 199	-50%
200 - 499	-60%
500 - 999	-70%
1000 +	-75%

Fasteners Socket Head Cap Screws Steel

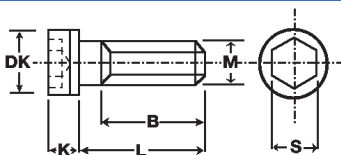
PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-19
HPCAM6-12	M6	12	1.00	-	10.22	6.00	5.00	£0.20
HPCAM6-14	M6	14	1.00	-	10.22	6.00	5.00	£0.25
HPCAM6-16	M6	16	1.00	-	10.22	6.00	5.00	£0.20
HPCAM6-18	M6	18	1.00	-	10.22	6.00	5.00	£0.25
HPCAM6-20	M6	20	1.00	-	10.22	6.00	5.00	£0.20
HPCAM6-25	M6	25	1.00	-	10.22	6.00	5.00	£0.22
HPCAM6-30	M6	30	1.00	-	10.22	6.00	5.00	£0.25
HPCAM6-35	M6	35	1.00	24	10.22	6.00	5.00	£0.31
HPCAM6-40	M6	40	1.00	24	10.22	6.00	5.00	£0.32
HPCAM6-45	M6	45	1.00	24	10.22	6.00	5.00	£0.34
HPCAM6-50	M6	50	1.00	24	10.22	6.00	5.00	£0.42
HPCAM6-55	M6	55	1.00	24	10.22	6.00	5.00	£0.53
HPCAM6-60	M6	60	1.00	24	10.22	6.00	5.00	£0.59
HPCAM6-65	M6	65	1.00	24	10.22	6.00	5.00	£0.61
HPCAM6-70	M6	70	1.00	24	10.22	6.00	5.00	£0.70
HPCAM6-75	M6	75	1.00	24	10.22	6.00	5.00	£0.70
HPCAM6-80	M6	80	1.00	24	10.22	6.00	5.00	£0.92
HPCAM6-90	M6	90	1.00	24	10.22	6.00	5.00	£0.92
HPCAM6-100	M6	100	1.00	24	10.22	6.00	5.00	£1.32
HPCAM6-110	M6	110	1.00	24	10.22	6.00	5.00	£2.05
HPCAM8-10	M8	10	1.25	-	13.27	8.00	6.00	£0.61
HPCAM8-12	M8	12	1.25	-	13.27	8.00	6.00	£0.42
HPCAM8-14	M8	14	1.25	-	13.27	8.00	6.00	£0.45
HPCAM8-16	M8	16	1.25	-	13.27	8.00	6.00	£0.32
HPCAM8-18	M8	18	1.25	-	13.27	8.00	6.00	£0.32
HPCAM8-20	M8	20	1.25	-	13.27	8.00	6.00	£0.32

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-19
HPCAM8-22	M8	22	1.25	-	13.27	8.00	6.00	£0.32
HPCAM8-25	M8	25	1.25	-	13.27	8.00	6.00	£0.32
HPCAM8-30	M8	30	1.25	-	13.27	8.00	6.00	£0.34
HPCAM8-35	M8	35	1.25	-	13.27	8.00	6.00	£0.49
HPCAM8-40	M8	40	1.25	28	13.27	8.00	6.00	£0.52
HPCAM8-45	M8	45	1.25	28	13.27	8.00	6.00	£0.53
HPCAM8-50	M8	50	1.25	28	13.27	8.00	6.00	£0.59
HPCAM8-55	M8	55	1.25	28	13.27	8.00	6.00	£0.61
HPCAM8-60	M8	60	1.25	28	13.27	8.00	6.00	£0.64
HPCAM8-65	M8	65	1.25	28	13.27	8.00	6.00	£0.78
HPCAM8-70	M8	70	1.25	28	13.27	8.00	6.00	£0.78
HPCAM8-75	M8	75	1.25	28	13.27	8.00	6.00	£0.92
HPCAM8-80	M8	80	1.25	28	13.27	8.00	6.00	£1.18
HPCAM8-90	M8	90	1.25	28	13.27	8.00	6.00	£2.13
HPCAM8-100	M8	100	1.25	28	13.27	8.00	6.00	£2.56
HPCAM8-110	M8	110	1.25	28	13.27	8.00	6.00	£2.56
HPCAM8-120	M8	120	1.25	28	13.27	8.00	6.00	£3.13
HPCAM8-130	M8	130	1.25	28	13.27	8.00	6.00	£5.44
HPCAM8-140	M8	140	1.25	28	13.27	8.00	6.00	£12.19
HPCAM8-150	M8	150	1.25	28	13.27	8.00	6.00	£13.61
HPCAM8-160	M8	160	1.25	28	13.27	8.00	6.00	£17.21
HPCAM10-10	M10	10	1.50	-	16.27	10.00	8.00	£1.55
HPCAM10-12	M10	12	1.50	-	16.27	10.00	8.00	£0.91
HPCAM10-14	M10	14	1.50	-	16.27	10.00	8.00	£1.36
HPCAM10-16	M10	16	1.50	-	16.27	10.00	8.00	£0.59
HPCAM10-18	M10	18	1.50	-	16.27	10.00	8.00	£0.64
HPCAM10-20	M10	20	1.50	-	16.27	10.00	8.00	£0.55
HPCAM10-22	M10	22	1.50	-	16.27	10.00	8.00	£0.62
HPCAM10-25	M10	25	1.50	-	16.27	10.00	8.00	£0.59
HPCAM10-30	M10	30	1.50	-	16.27	10.00	8.00	£0.61
HPCAM10-35	M10	35	1.50	-	16.27	10.00	8.00	£0.64
HPCAM10-40	M10	40	1.50	-	16.27	10.00	8.00	£0.73
HPCAM10-45	M10	45	1.50	32	16.27	10.00	8.00	£0.85

Socket Head Cap Screws

Steel

12.9 Quality DIN 912



DISCOUNTS

Quantity	List Price
1 - 19	List Price
20 - 49	-20%
50 - 99	-40%
100 - 199	-50%
200 - 499	-60%
500 - 999	-70%
1000 +	-75%

Fasteners Socket Head Cap Screws Steel

PART NUMBER	M	Norm. L	Pitch	B	DK	K	S	Price Each 1-19
HPCAM10-50	M10	50	1.50	32	16.27	10.00	8.00	£0.91
HPCAM10-55	M10	55	1.50	32	16.27	10.00	8.00	£0.99
HPCAM10-60	M10	60	1.50	32	16.27	10.00	8.00	£1.05
HPCAM10-65	M10	65	1.50	32	16.27	10.00	8.00	£1.14
HPCAM10-70	M10	70	1.50	32	16.27	10.00	8.00	£1.14
HPCAM10-80	M10	80	1.50	32	16.27	10.00	8.00	£1.32
HPCAM10-90	M10	90	1.50	32	16.27	10.00	8.00	£1.55
HPCAM10-100	M10	100	1.50	32	16.27	10.00	8.00	£1.79
HPCAM10-110	M10	110	1.50	32	16.27	10.00	8.00	£2.56
HPCAM10-120	M10	120	1.50	32	16.27	10.00	8.00	£3.07
HPCAM10-130	M10	130	1.50	32	16.27	10.00	8.00	£3.57
HPCAM10-140	M10	140	1.50	32	16.27	10.00	8.00	£4.50
HPCAM10-150	M10	150	1.50	32	16.27	10.00	8.00	£5.44
HPCAM10-160	M10	160	1.50	32	16.27	10.00	8.00	£10.54
HPCAM10-180	M10	180	1.50	32	16.27	10.00	8.00	£12.33
HPCAM10-200	M10	200	1.50	32	16.27	10.00	8.00	£24.20
HPCAM12-12	M12	12	1.75	-	18.27	12.00	10.00	£2.56
HPCAM12-16	M12	16	1.75	-	18.27	12.00	10.00	£2.56
HPCAM12-18	M12	18	1.75	-	18.27	12.00	10.00	£2.56
HPCAM12-20	M12	20	1.75	-	18.27	12.00	10.00	£0.99
HPCAM12-25	M12	25	1.75	-	18.27	12.00	10.00	£0.95
HPCAM12-30	M12	30	1.75	-	18.27	12.00	10.00	£0.95
HPCAM12-35	M12	35	1.75	-	18.27	12.00	10.00	£1.03
HPCAM12-40	M12	40	1.75	-	18.27	12.00	10.00	£1.05
HPCAM12-45	M12	45	1.75	36	18.27	12.00	10.00	£1.21
HPCAM12-50	M12	50	1.75	36	18.27	12.00	10.00	£1.21

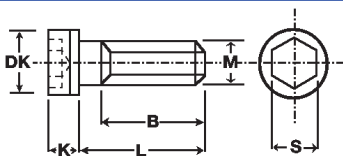
Fasteners

Socket Head Cap Screws

Materials

Stainless Steel

DIN 912-A2



DISCOUNTS

Quantity	List Price
1 - 9	
10 - 39	-10%
40 - 99	-15%
100 - 499	-20%
500 - 999	-25%
1000 +	-40%

Fasteners Cap Screws Stainless Steel

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-9
HPCCM1.6-4	M1.6	4	0.35	-	3.0	1.6	1.5	£0.70
HPCCM1.6-5	M1.6	5	0.35	-	3.0	1.6	1.5	£0.70
HPCCM1.6-6	M1.6	6	0.35	-	3.0	1.6	1.5	£0.37
HPCCM1.6-8	M1.6	8	0.35	-	3.0	1.6	1.5	£0.29
HPCCM1.6-10	M1.6	10	0.35	-	3.0	1.6	1.5	£0.34
HPCCM1.6-12	M1.6	12	0.35	-	3.0	1.6	1.5	£0.34
HPCCM1.6-16	M1.6	16	0.35	-	3.0	1.6	1.5	£0.49
HPCCM2-4	M2	4	0.40	-	3.8	2.0	1.5	£0.29
HPCCM2-5	M2	5	0.40	-	3.8	2.0	1.5	£0.24
HPCCM2-6	M2	6	0.40	-	3.8	2.0	1.5	£0.17
HPCCM2-8	M2	8	0.40	-	3.8	2.0	1.5	£0.17
HPCCM2-10	M2	10	0.40	-	3.8	2.0	1.5	£0.20
HPCCM2-12	M2	12	0.40	-	3.8	2.0	1.5	£0.20
HPCCM2-16	M2	16	0.40	-	3.8	2.0	1.5	£0.24
HPCCM2-20	M2	20	0.40	16	3.8	2.0	1.5	£0.24
HPCCM2.5-4	M2.5	4	0.45	-	4.5	2.5	2.0	£0.29
HPCCM2.5-5	M2.5	5	0.45	-	4.5	2.5	2.0	£0.29
HPCCM2.5-6	M2.5	6	0.45	-	4.5	2.5	2.0	£0.24
HPCCM2.5-8	M2.5	8	0.45	-	4.5	2.5	2.0	£0.20
HPCCM2.5-10	M2.5	10	0.45	-	4.5	2.5	2.0	£0.20
HPCCM2.5-12	M2.5	12	0.45	-	4.5	2.5	2.0	£0.24
HPCCM2.5-16	M2.5	16	0.45	-	4.5	2.5	2.0	£0.29
HPCCM2.5-20	M2.5	20	0.45	-	4.5	2.5	2.0	£0.29
HPCCM3-6	M3	6	0.50	-	5.5	3.0	2.5	£0.08
HPCCM3-8	M3	8	0.50	-	5.5	3.0	2.5	£0.08
HPCCM3-10	M3	10	0.50	-	5.5	3.0	2.5	£0.09

5.54



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Stainless Steel

DIN 912-A2

Fasteners

Socket Head Cap Screws

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-9
HPCCM3-12	M3	12	0.50	-	5.5	3.0	2.5	£0.09
HPCCM3-16	M3	16	0.50	-	5.5	3.0	2.5	£0.09
HPCCM3-20	M3	20	0.50	-	5.5	3.0	2.5	£0.09
HPCCM3-25	M3	25	0.50	18	5.5	3.0	2.5	£0.12
HPCCM3-30	M3	30	0.50	18	5.5	3.0	2.5	£0.15
HPCCM3-35	M3	35	0.50	18	5.5	3.0	2.5	£0.24
HPCCM4-6	M4	6	0.70	-	7.0	4.0	3.0	£0.12
HPCCM4-8	M4	8	0.70	-	7.0	4.0	3.0	£0.12
HPCCM4-10	M4	10	0.70	-	7.0	4.0	3.0	£0.12
HPCCM4-12	M4	12	0.70	-	7.0	4.0	3.0	£0.09
HPCCM4-16	M4	16	0.70	-	7.0	4.0	3.0	£0.08
HPCCM4-20	M4	20	0.70	-	7.0	4.0	3.0	£0.08
HPCCM4-25	M4	25	0.70	-	7.0	4.0	3.0	£0.09
HPCCM4-30	M4	30	0.70	20	7.0	4.0	3.0	£0.15
HPCCM4-35	M4	35	0.70	20	7.0	4.0	3.0	£0.13
HPCCM4-40	M4	40	0.70	20	7.0	4.0	3.0	£0.24
HPCCM4-50	M4	50	0.70	20	7.0	4.0	3.0	£0.46
HPCCM5-8	M5	8	0.80	-	8.5	5	4	£0.18
HPCCM5-10	M5	10	0.80	-	8.5	5	4	£0.18
HPCCM5-12	M5	12	0.80	-	8.5	5	4	£0.18
HPCCM5-16	M5	16	0.80	-	8.5	5	4	£0.18
HPCCM5-20	M5	20	0.80	-	8.5	5	4	£0.23
HPCCM5-25	M5	25	0.80	-	8.5	5	4	£0.23
HPCCM5-30	M5	30	0.80	22	8.5	5	4	£0.23
HPCCM5-35	M5	35	0.80	22	8.5	5	4	£0.27
HPCCM5-40	M5	40	0.80	22	8.5	5	4	£0.34
HPCCM5-45	M5	45	0.80	22	8.5	5	4	£0.44
HPCCM5-50	M5	50	0.80	22	8.5	5	4	£0.48
HPCCM5-60	M5	60	0.80	22	8.5	5	4	£0.46
HPCCM5-70	M5	70	0.80	22	8.5	5	4	£0.75
HPCCM6-8	M6	8	1.00	-	10.0	6	5	£0.11
HPCCM6-10	M6	10	1.00	-	10.0	6	5	£0.15
HPCCM6-12	M6	12	1.00	-	10.0	6	5	£0.11

Fasteners Cap Screws Stainless Steel



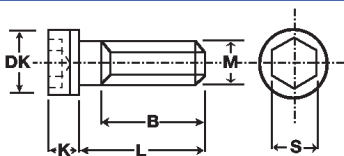
Fasteners

Socket Head Cap Screws

Materials

Stainless Steel

DIN 912-A2



DISCOUNTS

Quantity	List Price
1 - 9	List Price
10 - 39	-10%
40 - 99	-15%
100 - 499	-20%
500 - 999	-25%
1000 +	-40%

Fasteners Cap Screws Stainless Steel

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-9
HPCCM6-16	M6	16	1.00	-	10.00	6.00	5.00	£0.09
HPCCM6-20	M6	20	1.00	-	10.00	6.00	5.00	£0.12
HPCCM6-25	M6	25	1.00	-	10.00	6.00	5.00	£0.11
HPCCM6-30	M6	30	1.00	-	10.00	6.00	5.00	£0.13
HPCCM6-35	M6	35	1.00	24	10.00	6.00	5.00	£0.20
HPCCM6-40	M6	40	1.00	24	10.00	6.00	5.00	£0.25
HPCCM6-45	M6	45	1.00	24	10.00	6.00	5.00	£0.35
HPCCM6-50	M6	50	1.00	24	10.00	6.00	5.00	£0.39
HPCCM6-55	M6	55	1.00	24	10.00	6.00	5.00	£0.49
HPCCM6-60	M6	60	1.00	24	10.00	6.00	5.00	£0.49
HPCCM6-70	M6	70	1.00	24	10.00	6.00	5.00	£0.71
HPCCM6-80	M6	80	1.00	24	10.00	6.00	5.00	£0.67
HPCCM6-90	M6	90	1.00	24	10.00	6.00	5.00	£0.82
HPCCM6-100	M6	100	1.00	24	10.00	6.00	5.00	£0.87
HPCCM6-110	M6	110	1.00	24	10.00	6.00	5.00	£1.28
HPCCM8-10	M8	10	1.25	-	13.00	8.00	6.00	£0.46
HPCCM8-12	M8	12	1.25	-	13.00	8.00	6.00	£0.46
HPCCM8-16	M8	16	1.25	-	13.00	8.00	6.00	£0.30
HPCCM8-20	M8	20	1.25	-	13.00	8.00	6.00	£0.30
HPCCM8-25	M8	25	1.25	-	13.00	8.00	6.00	£0.30
HPCCM8-30	M8	30	1.25	-	13.00	8.00	6.00	£0.30
HPCCM8-35	M8	35	1.25	-	13.00	8.00	6.00	£0.44
HPCCM8-40	M8	40	1.25	28	13.00	8.00	6.00	£0.53
HPCCM8-45	M8	45	1.25	28	13.00	8.00	6.00	£0.53
HPCCM8-50	M8	50	1.25	28	13.00	8.00	6.00	£0.67
HPCCM8-55	M8	55	1.25	28	13.00	8.00	6.00	£0.83

5.56



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

Stainless Steel

DIN 912-A2

Fasteners

Socket Head Cap Screws

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-9
HPCCM8-60	M8	60	1.25	28	13.00	8.00	6.00	£0.96
HPCCM8-70	M8	70	1.25	28	13.00	8.00	6.00	£1.06
HPCCM8-80	M8	80	1.25	28	13.00	8.00	6.00	£1.61
HPCCM8-90	M8	100	1.25	28	13.00	10.00	6.00	£1.94
HPCCM8-100	M8	90	1.25	28	13.00	10.00	6.00	£2.20
HPCCM10-16	M10	16	1.50	-	16.00	10.00	8.00	£0.96
HPCCM10-20	M10	20	1.50	-	16.00	10.00	8.00	£0.51
HPCCM10-25	M10	25	1.50	-	16.00	10.00	8.00	£0.54
HPCCM10-30	M10	30	1.50	-	16.00	10.00	8.00	£0.70
HPCCM10-35	M10	35	1.50	-	16.00	10.00	8.00	£0.76
HPCCM10-40	M10	40	1.50	-	16.00	10.00	8.00	£0.78
HPCCM10-45	M10	45	1.50	32	16.00	10.00	8.00	£0.92
HPCCM10-50	M10	50	1.50	32	16.00	10.00	8.00	£1.10
HPCCM10-55	M10	55	1.50	32	16.00	10.00	8.00	£1.35
HPCCM10-60	M10	60	1.50	32	16.00	10.00	8.00	£1.39
HPCCM10-70	M10	70	1.50	32	16.00	10.00	8.00	£1.61
HPCCM10-80	M10	80	1.50	32	16.00	10.00	8.00	£1.87
HPCCM10-90	M10	90	1.50	32	16.00	10.00	8.00	£2.52
HPCCM10-100	M10	100	1.50	32	16.00	10.00	8.00	£3.37
HPCCM12-16	M12	16	1.75	-	18.00	12.00	10.00	£2.57
HPCCM12-20	M12	20	1.75	-	18.00	12.00	10.00	£0.59
HPCCM12-25	M12	25	1.75	-	18.00	12.00	10.00	£1.41
HPCCM12-30	M12	30	1.75	-	18.00	12.00	10.00	£1.41
HPCCM12-35	M12	35	1.75	-	18.00	12.00	10.00	£1.75
HPCCM12-40	M12	40	1.75	-	18.00	12.00	10.00	£1.75
HPCCM12-45	M12	45	1.75	-	18.00	12.00	10.00	£1.84
HPCCM12-50	M12	50	1.75	36	18.00	12.00	10.00	£1.84
HPCCM12-55	M12	55	1.75	36	18.00	12.00	10.00	£2.07
HPCCM12-60	M12	60	1.75	36	18.00	12.00	10.00	£2.12
HPCCM12-70	M12	70	1.75	36	18.00	12.00	10.00	£2.52
HPCCM12-80	M12	80	1.75	36	18.00	12.00	10.00	£2.98
HPCCM12-90	M12	90	1.75	36	18.00	12.00	10.00	£3.24
HPCCM12-100	M12	100	1.75	36	18.00	12.00	10.00	£4.22

Fasteners Cap Screws Stainless Steel



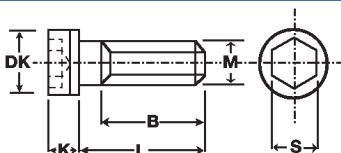
Fasteners

Socket Head Cap Screws

Materials

Stainless Steel

DIN 912-A2



DISCOUNTS

Quantity	List Price
1 - 9	List Price
10 - 39	-10%
40 - 99	-15%
100 - 499	-20%
500 - 999	-25%
1000 +	-40%

Fasteners Cap Screws Stainless Steel

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-9
HPCCM16-25	M16	25	2.00	40	21.00	14.00	12.00	£1.65
HPCCM16-30	M16	30	2.00	40	21.00	14.00	12.00	£1.58
HPCCM16-35	M16	35	2.00	40	21.00	14.00	12.00	£1.76
HPCCM16-40	M16	40	2.00	40	21.00	14.00	12.00	£1.82
HPCCM16-45	M16	45	2.00	40	21.00	14.00	12.00	£1.86
HPCCM16-50	M16	50	2.00	40	21.00	14.00	12.00	£2.05
HPCCM16-55	M16	55	2.00	40	21.00	14.00	12.00	£2.40
HPCCM16-60	M16	60	2.00	40	21.00	14.00	12.00	£2.50
HPCCM16-65	M16	65	2.00	40	21.00	14.00	12.00	£2.63
HPCCM16-70	M16	70	2.00	40	21.00	14.00	12.00	£2.90
HPCCM16-75	M16	75	2.00	40	21.00	14.00	12.00	£2.99
HPCCM16-80	M16	80	2.00	40	21.00	14.00	12.00	£3.03
HPCCM16-90	M16	90	2.00	40	21.00	14.00	12.00	£3.56
HPCCM16-100	M16	100	2.00	40	21.00	14.00	12.00	£3.74
HPCCM16-110	M16	110	2.00	40	21.00	14.00	12.00	£5.66
HPCCM16-120	M16	120	2.00	40	21.00	14.00	12.00	£6.17
HPCCM16-130	M16	130	2.00	40	21.00	14.00	12.00	£6.72
HPCCM16-140	M16	140	2.00	40	21.00	14.00	12.00	£7.07
HPCCM16-150	M16	150	2.00	40	21.00	14.00	12.00	£8.52
HPCCM20-35	M20	35	2.50	52	30.00	20.00	17.00	£3.21
HPCCM20-40	M20	40	2.50	52	30.00	20.00	17.00	£3.29
HPCCM20-45	M20	45	2.50	52	30.00	20.00	17.00	£3.56
HPCCM20-50	M20	50	2.50	52	30.00	20.00	17.00	£3.86
HPCCM20-55	M20	55	2.50	52	30.00	20.00	17.00	£4.06
HPCCM20-60	M20	60	2.50	52	30.00	20.00	17.00	£4.45
HPCCM20-65	M20	65	2.50	52	30.00	20.00	17.00	£4.83

5.58



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

Stainless Steel

DIN 912-A2

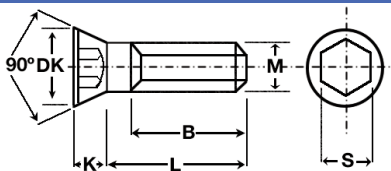
Fasteners

Socket Head Cap Screws

PART NUMBER	M	Nom. L	Pitch	B	DK	K	S	Price Each 1-9
HPCCM20-70	M20	70	2.50	52	30.00	20.00	17.00	£5.24
HPCCM20-75	M20	75	2.50	52	30.00	20.00	17.00	£5.35
HPCCM20-80	M20	80	2.50	52	30.00	20.00	17.00	£5.51
HPCCM20-90	M20	90	2.50	52	30.00	20.00	17.00	£6.15
HPCCM20-100	M20	100	2.50	52	30.00	20.00	17.00	£6.42
HPCCM20-110	M20	110	2.50	52	30.00	20.00	17.00	£8.88
HPCCM20-120	M20	120	2.50	52	30.00	20.00	17.00	£10.67
HPCCM20-130	M20	130	2.50	52	30.00	20.00	17.00	£12.44
HPCCM20-140	M20	140	2.50	52	30.00	20.00	17.00	£12.79
HPCCM20-150	M20	150	2.50	52	30.00	20.00	17.00	£14.22
HPCCM24-50	M24	50	3.00	60	36.00	24.00	19.00	£9.72
HPCCM24-60	M24	60	3.00	60	36.00	24.00	19.00	£11.69
HPCCM24-70	M24	70	3.00	60	36.00	24.00	19.00	£13.00
HPCCM24-80	M24	80	3.00	60	36.00	24.00	19.00	£13.64
HPCCM24-90	M24	90	3.00	60	36.00	24.00	19.00	£14.30
HPCCM24-100	M24	100	3.00	60	36.00	24.00	19.00	£14.96
HPCCM24-110	M24	110	3.00	60	36.00	24.00	19.00	£17.80
HPCCM24-120	M24	120	3.00	60	36.00	24.00	19.00	£19.58
HPCCM24-130	M24	130	3.00	60	36.00	24.00	19.00	£19.92
HPCCM24-140	M24	140	3.00	60	36.00	24.00	19.00	£20.99
HPCCM24-150	M24	150	3.00	60	36.00	24.00	19.00	£21.36
HPCCM30-60	M30	60	3.50	72	45.00	30.00	22.00	£19.27
HPCCM30-70	M30	70	3.50	72	45.00	30.00	22.00	£20.78
HPCCM30-80	M30	80	3.50	72	45.00	30.00	22.00	£22.23
HPCCM30-90	M30	90	3.50	72	45.00	30.00	22.00	£24.90
HPCCM30-100	M30	100	3.50	72	45.00	30.00	22.00	£26.35
HPCCM30-110	M30	110	3.50	72	45.00	30.00	22.00	£27.44
HPCCM30-120	M30	120	3.50	72	45.00	30.00	22.00	£29.42
HPCCM30-130	M30	130	3.50	72	45.00	30.00	22.00	£31.25
HPCCM30-140	M30	140	3.50	72	45.00	30.00	22.00	£33.48
HPCCM30-150	M30	150	3.50	72	45.00	30.00	22.00	£35.18

Fasteners Cap Screws Stainless Steel





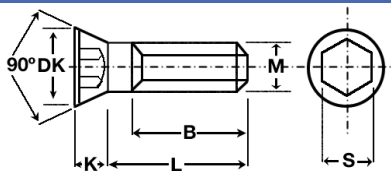
Fasteners Stainless Socket Head Countersunk Screws

DISCOUNTS	1 - 9	10-39	40-99	100+
	List Price		-20%	-30%

PART NUMBER	Thread	Nominal L	Pitch	B	DK	K	S	PRICE EACH 1-9
HPCCSM2.5-5	M2.5	5	0.45	-	5	1.60	1.60	£0.32
HPCCSM2.5-10	M2.5	10	0.45	-	5	1.60	1.60	£0.40
HPCCSM2.5-12	M2.5	12	0.45	-	5	1.60	1.60	£0.40
HPCCSM3-8	M3	8	0.50	-	6	1.60	2.00	£0.06
HPCCSM3-10	M3	10	0.50	-	6	1.60	2.00	£0.06
HPCCSM3-12	M3	12	0.50	-	6	1.60	2.00	£0.08
HPCCSM3-16	M3	16	0.50	-	6	1.60	2.00	£0.09
HPCCSM3-20	M3	20	0.50	-	6	1.60	2.00	£0.18
HPCCSM3-25	M3	25	0.50	-	6	1.60	2.00	£0.26
HPCCSM3-30	M3	30	0.50	-	6	1.60	2.00	£0.51
HPCCSM4-10	M4	10	0.70	-	8	2.30	2.50	£0.08
HPCCSM4-12	M4	12	0.70	-	8	2.30	2.50	£0.11
HPCCSM4-16	M4	16	0.70	-	8	2.30	2.50	£0.09
HPCCSM4-20	M4	20	0.70	-	8	2.30	2.50	£0.09
HPCCSM4-25	M4	25	0.70	-	8	2.30	2.50	£0.11
HPCCSM4-30	M4	30	0.70	20	8	2.30	2.50	£0.16
HPCCSM4-40	M4	40	0.70	20	8	2.30	2.50	£0.31
HPCCSM5-10	M5	10	0.80	-	10	2.80	3.00	£0.11
HPCCSM5-12	M5	12	0.80	-	10	2.80	3.00	£0.11
HPCCSM5-16	M5	16	0.80	-	10	2.80	3.00	£0.11
HPCCSM5-18	M5	18	0.80	-	10	2.80	3.00	£0.20
HPCCSM5-20	M5	20	0.80	-	10	2.80	3.00	£0.11
HPCCSM5-25	M5	25	0.80	-	10	2.80	3.00	£0.13

PART NUMBER	Thread	Nominal L	Pitch	B	DK	K	S	PRICE EACH 1-9
HPCCSM5-30	M5	30	0.80	-	10	2.80	3.00	£0.15
HPCCSM5-35	M5	35	0.80	22	10	2.80	3.00	£0.23
HPCCSM5-40	M5	40	0.80	22	10	2.80	3.00	£0.29
HPCCSM5-45	M5	45	0.80	22	10	2.80	3.00	£0.31
HPCCSM5-50	M5	50	0.80	22	10	2.80	3.00	£0.33
HPCCSM6-10	M6	10	1.00	-	12	3.30	4.00	£0.15
HPCCSM6-12	M6	12	1.00	-	12	3.30	4.00	£0.15
HPCCSM6-16	M6	16	1.00	-	12	3.30	4.00	£0.14
HPCCSM6-20	M6	20	1.00	-	12	3.30	4.00	£0.15
HPCCSM6-25	M6	25	1.00	-	12	3.30	4.00	£0.16
HPCCSM6-30	M6	30	1.00	-	12	3.30	4.00	£0.20
HPCCSM6-35	M6	35	1.00	-	12	3.30	4.00	£0.26
HPCCSM6-40	M6	40	1.00	-	12	3.30	4.00	£0.29
HPCCSM6-45	M6	45	1.00	-	12	3.30	4.00	£0.39
HPCCSM6-50	M6	50	1.00	22	12	3.30	4.00	£0.44
HPCCSM6-55	M6	55	1.00	22	12	3.30	4.00	£0.57
HPCCSM6-60	M6	60	1.00	22	12	3.30	4.00	£0.56
HPCCSM6-70	M6	70	1.00	22	12	3.30	4.00	£0.89
HPCCSM8-12	M8	12	1.25	-	16	4.40	5.00	£0.42
HPCCSM8-16	M8	16	1.25	-	16	4.40	5.00	£0.30
HPCCSM8-18	M8	18	1.25	-	16	4.40	5.00	£0.57
HPCCSM8-20	M8	20	1.25	-	16	4.40	5.00	£0.30
HPCCSM8-25	M8	25	1.25	-	16	4.40	5.00	£0.33
HPCCSM8-30	M8	30	1.25	-	16	4.40	5.00	£0.39
HPCCSM8-35	M8	35	1.25	-	16	4.40	5.00	£0.54
HPCCSM8-40	M8	40	1.25	-	16	4.40	5.00	£0.61
HPCCSM8-45	M8	45	1.25	-	16	4.40	5.00	£0.82
HPCCSM8-50	M8	50	1.25	28	16	4.40	5.00	£0.77
HPCCSM8-55	M8	55	1.25	28	16	4.40	5.00	£1.08
HPCCSM8-60	M8	60	1.25	28	16	4.40	5.00	£1.08
HPCCSM8-70	M8	70	1.25	28	16	4.40	5.00	£1.31
HPCCSM8-80	M8	80	1.25	28	16	4.40	5.00	£1.79
HPCCSM8-90	M8	90	1.25	28	16	4.40	5.00	£2.15
HPCCSM8-100	M8	100	1.25	28	16	4.40	5.00	£2.00





DISCOUNTS

1 - 9	10-39	40-99	100+
List Price	-20%	-30%	-40%

PART NUMBER	Thread	Nominal L	Pitch	B	DK	K	S	PRICE EACH 1-9
HPCCSM10-16	M10	16	1.50	-	20	5.50	6	£1.09
HPCCSM10-18	M10	18	1.50	-	20	5.50	6	£1.20
HPCCSM10-20	M10	20	1.50	-	20	5.50	6	£0.74
HPCCSM10-25	M10	25	1.50	-	20	5.50	6	£0.74
HPCCSM10-30	M10	30	1.50	-	20	5.50	6	£0.80
HPCCSM10-35	M10	35	1.50	-	20	5.50	6	£0.89
HPCCSM10-40	M10	40	1.50	-	20	5.50	6	£0.96
HPCCSM10-45	M10	45	1.50	32	20	5.50	6	£1.28
HPCCSM10-50	M10	50	1.50	32	20	5.50	6	£1.17
HPCCSM10-55	M10	55	1.50	32	20	5.50	6	£1.84
HPCCSM10-60	M10	60	1.50	32	20	5.50	6	£1.71
HPCCSM10-70	M10	70	1.50	32	20	5.50	6	£2.07
HPCCSM10-80	M10	80	1.50	32	20	5.50	6	£2.90
HPCCSM10-90	M10	90	1.50	32	20	5.50	6	£3.45
HPCCSM10-100	M10	100	1.50	32	20	5.50	6	£4.12
HPCCSM12-20	M12	20	1.75	-	24	6.50	8	£1.31
HPCCSM12-25	M12	25	1.75	-	24	6.50	8	£1.06
HPCCSM12-30	M12	30	1.75	-	24	6.50	8	£1.13
HPCCSM12-35	M12	35	1.75	-	24	6.50	8	£1.24
HPCCSM12-40	M12	40	1.75	36	24	6.50	8	£1.39
HPCCSM12-45	M12	45	1.75	36	24	6.50	8	£1.84
HPCCSM12-50	M12	50	1.75	36	24	6.50	8	£1.97
HPCCSM12-55	M12	55	1.75	36	24	6.50	8	£2.54

PART NUMBER	Thread	Nominal L	Pitch	B	DK	K	S	PRICE EACH 1-9
HPCCSM12-60	M12	60	1.75	36	24	6.50	8	£2.20
HPCCSM12-70	M12	70	1.75	36	24	6.50	8	£2.40
HPCCSM12-80	M12	80	1.75	36	24	6.50	8	£3.06
HPCCSM12-90	M12	90	1.75	36	24	6.50	8	£3.61
HPCCSM12-100	M12	100	1.75	36	24	6.50	8	£3.96
HPCCSM16-25	M16	25	2.00	44	30	7.50	10	£2.48
HPCCSM16-30	M16	30	2.00	44	30	7.50	10	£1.73
HPCCSM16-35	M16	35	2.00	44	30	7.50	10	£2.06
HPCCSM16-40	M16	40	2.00	44	30	7.50	10	£2.24
HPCCSM16-45	M16	45	2.00	44	30	7.50	10	£2.48
HPCCSM16-50	M16	50	2.00	44	30	7.50	10	£2.65
HPCCSM16-55	M16	55	2.00	44	30	7.50	10	£2.94
HPCCSM16-60	M16	60	2.00	44	30	7.50	10	£3.09
HPCCSM16-65	M16	65	2.00	44	30	7.50	10	£3.60
HPCCSM16-70	M16	70	2.00	44	30	7.50	10	£3.69
HPCCSM16-80	M16	80	2.00	44	30	7.50	10	£4.14
HPCCSM16-90	M16	90	2.00	44	30	7.50	10	£4.85
HPCCSM16-100	M16	100	2.00	44	30	7.50	10	£5.40
HPCCSM20-50	M20	50	2.50	52	36	8.50	12	£8.35
HPCCSM20-60	M20	60	2.50	52	36	8.50	12	£8.58
HPCCSM20-70	M20	70	2.50	52	36	8.50	12	£8.79
HPCCSM20-80	M20	80	2.50	52	36	8.50	12	£9.37
HPCCSM20-90	M20	90	2.50	52	36	8.50	12	£10.14
HPCCSM20-100	M20	100	2.50	52	36	8.50	12	£13.19

Material

Stainless Steel Grade A2-70. Manufactured from A2 302/304 18-8 grade stainless steel to DIN 7991.

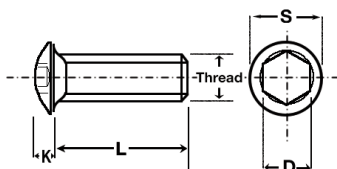
Available in A4/316 material - Ask for a quote.

Nominal screws are threaded within 2.5 thread pitches of the head. B dimension may be as above depending on manufacturing preference.

Performance

Maximum Working Temperature: +430°C.





DISCOUNTS	1 - 9	10-39	40-99	100-499	500-1000	1000+
	List Price	-20%	-30%	-40%	-52%	-62%

PART NUMBER	Thread	Nominal Length L	Pitch	S	K	D	PRICE EACH 1-9
HPCBM3-6	M3	6	0.50	5.70	1.65	2.00	£0.12
HPCBM3-8	M3	8	0.50	5.70	1.65	2.00	£0.12
HPCBM3-10	M3	10	0.50	5.70	1.65	2.00	£0.09
HPCBM3-12	M3	12	0.50	5.70	1.65	2.00	£0.09
HPCBM3-16	M3	16	0.50	5.70	1.65	2.00	£0.52
HPCBM4-6	M4	6	0.70	7.60	2.20	2.50	£0.15
HPCBM4-8	M4	8	0.70	7.60	2.20	2.50	£0.19
HPCBM4-10	M4	10	0.70	7.60	2.20	2.50	£0.19
HPCBM4-12	M4	12	0.70	7.60	2.20	2.50	£0.18
HPCBM4-16	M4	16	0.70	7.60	2.20	2.50	£0.18
HPCBM4-20	M4	20	0.70	7.60	2.20	2.50	£0.19
HPCBM4-25	M4	25	0.70	7.60	2.20	2.50	£0.25
HPCBM5-8	M5	8	0.80	9.50	2.75	3.00	£0.20
HPCBM5-10	M5	10	0.80	9.50	2.75	3.00	£0.18
HPCBM5-12	M5	12	0.80	9.50	2.75	3.00	£0.18
HPCBM5-16	M5	16	0.80	9.50	2.75	3.00	£0.19
HPCBM5-20	M5	20	0.80	9.50	2.75	3.00	£0.20
HPCBM5-25	M5	25	0.80	9.50	2.75	3.00	£0.27
HPCBM5-30	M5	30	0.80	9.50	2.75	3.00	£0.30
HPCBM5-35	M5	35	0.80	9.50	2.75	3.00	£0.34
HPCBM5-40	M5	40	0.80	9.50	2.75	3.00	£0.38
HPCBM5-50	M5	50	0.80	9.50	2.75	3.00	£1.42

PART NUMBER	Thread	Nominal Length L	Pitch	S	K	D	PRICE EACH 1-9
HPCBM6-10	M6	10	1.00	10.50	3.30	4.00	£0.19
HPCBM6-12	M6	12	1.00	10.50	3.30	4.00	£0.19
HPCBM6-16	M6	16	1.00	10.50	3.30	4.00	£0.24
HPCBM6-20	M6	20	1.00	10.50	3.30	4.00	£0.24
HPCBM6-25	M6	25	1.00	10.50	3.30	4.00	£0.26
HPCBM6-30	M6	30	1.00	10.50	3.30	4.00	£0.27
HPCBM8-12	M8	12	1.25	14.00	4.40	5.00	£0.34
HPCBM8-16	M8	16	1.25	14.00	4.40	5.00	£0.31
HPCBM8-20	M8	20	1.25	14.00	4.40	5.00	£0.34
HPCBM8-25	M8	25	1.25	14.00	4.40	5.00	£0.38
HPCBM8-30	M8	30	1.25	14.00	4.40	5.00	£0.39
HPCBM8-40	M8	40	1.25	14.00	4.40	5.00	£0.56
HPCBM8-50	M8	50	1.25	14.00	4.40	5.00	£0.63
HPCBM8-60	M8	60	1.25	14.00	4.40	5.00	£0.99
HPCBM10-16	M10	16	1.50	17.50	5.50	6.00	£0.74
HPCBM10-20	M10	20	1.50	17.50	5.50	6.00	£0.68
HPCBM10-25	M10	25	1.50	17.50	5.50	6.00	£0.74
HPCBM10-30	M10	30	1.50	17.50	5.50	6.00	£0.64
HPCBM10-35	M10	35	1.50	17.50	5.50	6.00	£0.99
HPCBM10-40	M10	40	1.50	17.50	5.50	6.00	£1.34
HPCBM10-50	M10	50	1.50	17.50	5.50	6.00	£1.09
HPCBM12-20	M12	20	1.75	21.00	6.60	8.00	£1.19
HPCBM12-25	M12	25	1.75	21.00	6.60	8.00	£1.29
HPCBM12-30	M12	30	1.75	21.00	6.60	8.00	£1.35
HPCBM12-35	M12	35	1.75	21.00	6.60	8.00	£1.57
HPCBM12-40	M12	40	1.75	21.00	6.60	8.00	£1.74
HPCBM12-50	M12	50	1.75	21.00	6.60	8.00	£1.89
HPCBM12-60	M12	60	1.75	21.00	6.60	8.00	£2.45

Material

Stainless Steel A2 302/304. Grade A2-70. ISO 7380-A2. Available in A4/316 material - Ask for a quote.

Nominal screws are threaded within 2.5 thread pitches of the head. B dimension may be as above depending on manufacturing preference.

Performance

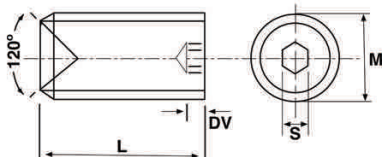
Maximum Working Temperature: +430°C.



Stainless Hexagon Socket Set Screws

STD : DIN 916 - A2

With Cup Point



DISCOUNTS

1 - 9	10-39	40-99	100-199	200-499	500-999	1000-1999	2000-2999	3000+
List Price	-10%	-20%	-30%	-40%	-50%	-55%	-60%	-65%

PART NUMBER	Thread	Nominal Length L	Pitch	DV	S	PRICE EACH 1-9
HPCSM2-3	M2	3	0.40	1.00	0.90	£0.32
HPCSM2-4	M2	4	0.40	1.00	0.90	£0.32
HPCSM2-5	M2	5	0.40	1.00	0.90	£0.25
HPCSM2-6	M2	6	0.40	1.00	0.90	£0.29
HPCSM2-8	M2	8	0.40	1.00	0.90	£0.37
HPCSM2-10	M2	10	0.40	1.00	0.90	£0.46
HPCSM2-12	M2	12	0.40	1.00	0.90	£0.49
HPCSM2.5-3	M2.5	3	0.45	1.20	1.30	£0.27
HPCSM2.5-4	M2.5	4	0.45	1.20	1.30	£0.26
HPCSM2.5-5	M2.5	5	0.45	1.20	1.30	£0.27
HPCSM2.5-6	M2.5	6	0.45	1.20	1.30	£0.29
HPCSM2.5-8	M2.5	8	0.45	1.20	1.30	£0.29
HPCSM2.5-10	M2.5	10	0.45	1.20	1.30	£0.31
HPCSM2.5-12	M2.5	12	0.45	1.20	1.30	£0.32
HPCSM3-3	M3	3	0.50	1.40	1.50	£0.11
HPCSM3-4	M3	4	0.50	1.40	1.50	£0.09
HPCSM3-5	M3	5	0.50	1.40	1.50	£0.09
HPCSM3-6	M3	6	0.50	1.40	1.50	£0.09
HPCSM3-8	M3	8	0.50	1.40	1.50	£0.10
HPCSM3-10	M3	10	0.50	1.40	1.50	£0.11
HPCSM3-12	M3	12	0.50	1.40	1.50	£0.15
HPCSM3-16	M3	16	0.50	1.40	1.50	£0.26
HPCSM3-20	M3	20	0.50	1.40	1.50	£0.32

Fasteners Stainless Hexagon Socket Set Screws

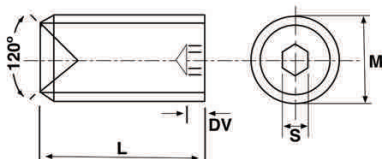
PART NUMBER	Thread	Nominal Length L	Pitch	DV	S	PRICE EACH 1-9
HPCSM4-4	M4	4	0.70	2.00	2.00	£0.12
HPCSM4-5	M4	5	0.70	2.00	2.00	£0.09
HPCSM4-6	M4	6	0.70	2.00	2.00	£0.10
HPCSM4-8	M4	8	0.70	2.00	2.00	£0.12
HPCSM4-10	M4	10	0.70	2.00	2.00	£0.11
HPCSM4-12	M4	12	0.70	2.00	2.00	£0.12
HPCSM4-16	M4	16	0.70	2.00	2.00	£0.20
HPCSM4-20	M4	20	0.70	2.00	2.00	£0.31
HPCSM4-25	M4	25	0.70	2.00	2.00	£0.55
HPCSM4-30	M4	30	0.70	2.00	2.00	£0.68
HPCSM5-5	M5	5	0.80	2.50	2.50	£0.11
HPCSM5-6	M5	6	0.80	2.50	2.50	£0.10
HPCSM5-8	M5	8	0.80	2.50	2.50	£0.12
HPCSM5-10	M5	10	0.80	2.50	2.50	£0.11
HPCSM5-12	M5	12	0.80	2.50	2.50	£0.16
HPCSM5-16	M5	16	0.80	2.50	2.50	£0.22
HPCSM5-20	M5	20	0.80	2.50	2.50	£0.25
HPCSM5-25	M5	25	0.80	2.50	2.50	£0.42
HPCSM5-30	M5	30	0.80	2.50	2.50	£0.53
HPCSM5-35	M5	35	0.80	2.50	2.50	£0.75
HPCSM5-40	M5	40	0.80	2.50	2.50	£0.78
HPCSM6-6	M6	6	1.00	3.00	3.00	£0.13
HPCSM6-8	M6	8	1.00	3.00	3.00	£0.13
HPCSM6-10	M6	10	1.00	3.00	3.00	£0.13
HPCSM6-12	M6	12	1.00	3.00	3.00	£0.15
HPCSM6-16	M6	16	1.00	3.00	3.00	£0.18
HPCSM6-20	M6	20	1.00	3.00	3.00	£0.31
HPCSM6-25	M6	25	1.00	3.00	3.00	£0.38
HPCSM6-30	M6	30	1.00	3.00	3.00	£0.45
HPCSM6-35	M6	35	1.00	3.00	3.00	£0.73
HPCSM6-40	M6	40	1.00	3.00	3.00	£0.66
HPCSM6-45	M6	45	1.00	3.00	3.00	£1.12
HPCSM6-50	M6	50	1.00	3.00	3.00	£1.16



Stainless Hexagon Socket Set Screws

STD : DIN 916 - A2

With Cup Point



DISCOUNTS

1 - 9	10-39	40-99	100-199	200-499	500-999	1000-1999	2000-2999	3000+
List Price	-10%	-20%	-30%	-40%	-50%	-55%	-60%	-65%

PART NUMBER	Thread	Nominal Length L	Pitch	DV	S	PRICE EACH 1-9
HPCSM8-8	M8	8	1.25	5.00	4.00	£0.17
HPCSM8-10	M8	10	1.25	5.00	4.00	£0.17
HPCSM8-12	M8	12	1.25	5.00	4.00	£0.24
HPCSM8-16	M8	16	1.25	5.00	4.00	£0.24
HPCSM8-20	M8	20	1.25	5.00	4.00	£0.35
HPCSM8-25	M8	25	1.25	5.00	4.00	£0.46
HPCSM8-30	M8	30	1.25	5.00	4.00	£0.62
HPCSM8-35	M8	35	1.25	5.00	4.00	£0.75
HPCSM8-40	M8	40	1.25	5.00	4.00	£0.81
HPCSM8-50	M8	50	1.25	5.00	4.00	£1.11
HPCSM10-10	M10	10	1.50	6.00	5.00	£0.19
HPCSM10-12	M10	12	1.50	6.00	5.00	£0.22
HPCSM10-16	M10	16	1.50	6.00	5.00	£0.25
HPCSM10-20	M10	20	1.50	6.00	5.00	£0.29
HPCSM10-25	M10	25	1.50	6.00	5.00	£0.52
HPCSM10-30	M10	30	1.50	6.00	5.00	£0.59
HPCSM10-35	M10	35	1.50	6.00	5.00	£0.68
HPCSM10-40	M10	40	1.50	6.00	5.00	£0.77
HPCSM10-50	M10	50	1.50	6.00	5.00	£1.19
HPCSM12-12	M12	12	1.75	8.00	6.00	£0.30
HPCSM12-16	M12	16	1.75	8.00	6.00	£0.41
HPCSM12-20	M12	20	1.75	8.00	6.00	£0.46
HPCSM12-25	M12	25	1.75	8.00	6.00	£0.59

Fasteners Stainless Hexagon Socket Set Screws

PART NUMBER	Thread	Nominal Length L	Pitch	DV	S	PRICE EACH 1-9
HPCSM12-30	M12	30	1.75	8.00	6.00	£0.70
HPCSM12-35	M12	35	1.75	8.00	6.00	£0.93
HPCSM12-40	M12	40	1.75	8.00	6.00	£0.99
HPCSM12-50	M12	50	1.75	8.00	6.00	£1.16
HPCSM12-60	M12	60	1.75	8.00	6.00	£2.01
HPCSM16-16	M16	16	2.00	10.00	8.00	£1.05
HPCSM16-20	M16	20	2.00	10.00	8.00	£1.32
HPCSM16-25	M16	25	2.00	10.00	8.00	£1.76
HPCSM16-30	M16	30	2.00	10.00	8.00	£1.89
HPCSM16-35	M16	35	2.00	10.00	8.00	£2.21
HPCSM16-40	M16	40	2.00	10.00	8.00	£2.64
HPCSM16-50	M16	50	2.00	10.00	8.00	£3.09
HPCSM16-60	M16	60	2.00	10.00	8.00	£4.59

'Never Knowingly Outpriced'

Fasteners Stainless Hexagon Socket Set Screws



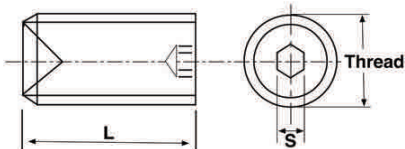
Fasteners

Materials

Steel Hexagon Socket Set Screws

STD : DIN 916

With Cup Point



DISCOUNTS

1 - 19	20-49	50-99	100-199	200+
List Price	-20%	-40%	-50%	-60%

PART NUMBER	Thread	Nominal Length L	Pitch	S	PRICE EACH 1-19
HPCGM3-3	M3	3	0.50	1.50	£0.19
HPCGM3-4	M3	4	0.50	1.50	£0.19
HPCGM3-5	M3	5	0.50	1.50	£0.19
HPCGM3-6	M3	6	0.50	1.50	£0.19
HPCGM3-8	M3	8	0.50	1.50	£0.19
HPCGM3-10	M3	10	0.50	1.50	£0.25
HPCGM3-12	M3	12	0.50	1.50	£0.33
HPCGM3-16	M3	16	0.50	1.50	£0.38
HPCGM4-4	M4	4	0.70	2.00	£0.17
HPCGM4-5	M4	5	0.70	2.00	£0.17
HPCGM4-6	M4	6	0.70	2.00	£0.17
HPCGM4-8	M4	8	0.70	2.00	£0.17
HPCGM4-10	M4	10	0.70	2.00	£0.17
HPCGM4-12	M4	12	0.70	2.00	£0.31
HPCGM4-16	M4	16	0.70	2.00	£0.31
HPCGM4-20	M4	20	0.70	2.00	£0.31
HPCGM4-25	M4	25	0.70	2.00	£0.45
HPCGM5-5	M5	5	0.80	2.50	£0.17
HPCGM5-6	M5	6	0.80	2.50	£0.17
HPCGM5-8	M5	8	0.80	2.50	£0.17
HPCGM5-10	M5	10	0.80	2.50	£0.17
HPCGM5-12	M5	12	0.80	2.50	£0.24
HPCGM5-16	M5	16	0.80	2.50	£0.27
HPCGM5-20	M5	20	0.80	2.50	£0.33
HPCGM5-25	M5	25	0.80	2.50	£0.38
HPCGM5-30	M5	30	0.80	2.50	£0.56

Fasteners Steel Hexagon Socket Set Screws

5.70

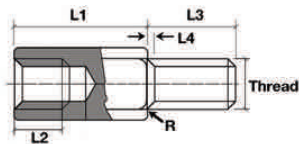


Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Thread	Nominal Length L	Pitch	S	PRICE EACH 1-19
HPCGM6-6	M6	6	1.00	3.00	£0.17
HPCGM6-8	M6	8	1.00	3.00	£0.17
HPCGM6-10	M6	10	1.00	3.00	£0.17
HPCGM6-12	M6	12	1.00	3.00	£0.17
HPCGM6-16	M6	16	1.00	3.00	£0.17
HPCGM6-20	M6	20	1.00	3.00	£0.27
HPCGM6-25	M6	25	1.00	3.00	£0.33
HPCGM6-30	M6	30	1.00	3.00	£0.38
HPCGM6-35	M6	35	1.00	3.00	£0.38
HPCGM8-8	M8	8	1.25	4.00	£0.24
HPCGM8-10	M8	10	1.25	4.00	£0.24
HPCGM8-12	M8	12	1.25	4.00	£0.25
HPCGM8-16	M8	16	1.25	4.00	£0.27
HPCGM8-20	M8	20	1.25	4.00	£0.31
HPCGM8-25	M8	25	1.25	4.00	£0.38
HPCGM8-30	M8	30	1.25	4.00	£0.51
HPCGM8-35	M8	35	1.25	4.00	£0.75
HPCGM8-40	M8	40	1.25	4.00	£0.70
HPCGM8-45	M8	45	1.25	4.00	£1.05
HPCGM8-50	M8	50	1.25	4.00	£0.90
HPCGM10-10	M10	10	1.50	5.00	£0.33
HPCGM10-12	M10	12	1.50	5.00	£0.38
HPCGM10-16	M10	16	1.50	5.00	£0.45
HPCGM10-20	M10	20	1.50	5.00	£0.53
HPCGM10-25	M10	25	1.50	5.00	£0.62
HPCGM10-30	M10	30	1.50	5.00	£0.77
HPCGM10-35	M10	35	1.50	5.00	£0.84
HPCGM10-40	M10	40	1.50	5.00	£0.89
HPCGM10-45	M10	45	1.50	5.00	£1.46
HPCGM10-50	M10	50	1.50	5.00	£1.85
HPCGM12-12	M12	12	1.75	6.00	£0.63
HPCGM12-16	M12	16	1.75	6.00	£0.68
HPCGM12-20	M12	20	1.75	6.00	£0.68
HPCGM12-25	M12	25	1.75	6.00	£0.80
HPCGM12-30	M12	30	1.75	6.00	£0.97
HPCGM12-35	M12	35	1.75	6.00	£1.05
HPCGM12-40	M12	40	1.75	6.00	£1.14
HPCGM12-45	M12	45	1.75	6.00	£1.60
HPCGM12-50	M12	50	1.75	6.00	£1.56
HPCGM12-60	M12	60	1.75	6.00	£1.92



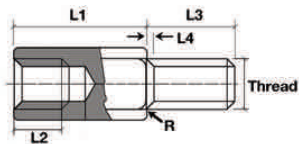


DISCOUNTS	1 - 10	11-49	50-99	100-199	200-499	500-999	1000-1499	1500+
	List Price	-45%	-55%	-65%	-70%	-75%	-80%	-82%

PART NUMBER	Thread	L1	L2	L3	L4	A/F	R	PRICE EACH 1-10
HPCMP3-5	M3	5	3	8	0.90	5	0.10	£0.55
HPCMP3-8	M3	8	5	8	0.90	5	0.10	£0.59
HPCMP3-10	M3	10	5	8	0.90	5	0.10	£0.56
HPCMP3-12	M3	12	8	8	0.90	5	0.10	£0.67
HPCMP3-15	M3	15	8	8	0.90	5	0.10	£0.69
HPCMP3-18	M3	18	8	8	0.90	5	0.10	£0.80
HPCMP3-20	M3	20	8	8	0.90	5	0.10	£0.81
HPCMP3-25	M3	25	10	10	0.90	5	0.10	£0.97
HPCMP3-30	M3	30	10	10	0.90	5	0.10	£1.02
HPCMP3-35	M3	35	10	10	0.90	5	0.10	£1.06
HPCMP3-40	M3	40	10	10	0.90	5	0.10	£1.98
HPCMP3-45	M3	45	10	10	0.90	5	0.10	£2.16
HPCMP3-50	M3	50	10	10	0.90	5	0.10	£2.36
HPCMP3-55	M3	55	10	10	0.90	5	0.10	£2.51
HPCMP3-60	M3	60	10	10	0.90	5	0.10	£2.67
HPCMP3-70	M3	70	10	10	0.90	5	0.10	£2.88
HPCMP3-80	M3	80	10	10	0.90	5	0.10	£3.10
HPCMP4-5	M4	5	3	8	1.20	7	0.20	£0.98
HPCMP4-8	M4	8	5	8	1.20	7	0.20	£1.07
HPCMP4-10	M4	10	5	8	1.20	7	0.20	£0.89
HPCMP4-12	M4	12	8	8	1.20	7	0.20	£0.92
HPCMP4-15	M4	15	8	8	1.20	7	0.20	£0.98

PART NUMBER	Thread	L1	L2	L3	L4	A/F	R	PRICE EACH 1-10
HPCMP4-18	M4	18	8	8	1.20	7	0.20	£1.04
HPCMP4-20	M4	20	8	8	1.20	7	0.20	£1.07
HPCMP4-25	M4	25	10	10	1.20	7	0.20	£1.27
HPCMP4-30	M4	30	10	10	1.20	7	0.20	£1.39
HPCMP4-35	M4	35	10	10	1.20	7	0.20	£1.49
HPCMP4-40	M4	40	10	10	1.20	7	0.20	£2.54
HPCMP4-45	M4	45	10	10	1.20	7	0.20	£2.73
HPCMP4-50	M4	50	10	10	1.20	7	0.20	£2.88
HPCMP4-55	M4	55	10	10	1.20	7	0.20	£3.09
HPCMP4-60	M4	60	10	10	1.20	7	0.20	£3.28
HPCMP4-70	M4	70	10	10	1.20	7	0.20	£3.73
HPCMP4-80	M4	80	10	10	1.20	7	0.20	£4.06
HPCMP5-5	M5	5	3	8	1.40	8	0.20	£1.70
HPCMP5-8	M5	8	5	8	1.40	8	0.20	£1.75
HPCMP5-10	M5	10	5	8	1.40	8	0.20	£1.79
HPCMP5-12	M5	12	8	8	1.40	8	0.20	£1.84
HPCMP5-15	M5	15	8	8	1.40	8	0.20	£1.94
HPCMP5-18	M5	18	8	8	1.40	8	0.20	£2.04
HPCMP5-20	M5	20	8	8	1.40	8	0.20	£2.13
HPCMP5-25	M5	25	10	10	1.40	8	0.20	£2.29
HPCMP5-30	M5	30	10	10	1.40	8	0.20	£2.44
HPCMP5-35	M5	35	10	10	1.40	8	0.20	£2.61
HPCMP5-40	M5	40	10	10	1.40	8	0.20	£2.76
HPCMP5-45	M5	45	10	10	1.40	8	0.20	£2.95
HPCMP5-50	M5	50	10	10	1.40	8	0.20	£3.10
HPCMP5-55	M5	55	10	10	1.40	8	0.20	£3.30
HPCMP5-60	M5	60	10	10	1.40	8	0.20	£3.27
HPCMP5-70	M5	70	10	10	1.40	8	0.20	£4.06
HPCMP5-80	M5	80	10	10	1.40	8	0.20	£4.41
HPCMP6-10	M6	10	5	8	2.10	10	0.25	£1.90
HPCMP6-12	M6	12	8	8	2.10	10	0.25	£2.03
HPCMP6-15	M6	15	8	8	2.10	10	0.25	£2.19
HPCMP6-18	M6	18	8	8	2.10	10	0.25	£2.30
HPCMP6-20	M6	20	8	8	2.10	10	0.25	£2.40





DISCOUNTS	1 - 10	11-49	50-99	100-199	200-499	500-999	1000-1499	1500+
	List Price	-45%	-55%	-65%	-70%	-75%	-80%	-82%

PART NUMBER	Thread	L1	L2	L3	L4	A/F	R	PRICE EACH 1-10
HPCMPE6-25	M6	25	10	10	2.10	10	0.25	£2.70
HPCMPE6-30	M6	30	10	10	2.10	10	0.25	£2.93
HPCMPE6-35	M6	35	10	10	2.10	10	0.25	£3.25
HPCMPE6-40	M6	40	10	10	2.10	10	0.25	£3.53
HPCMPE6-45	M6	45	10	10	2.10	10	0.25	£3.70
HPCMPE6-50	M6	50	10	10	2.10	10	0.25	£3.85
HPCMPE6-55	M6	55	10	10	2.10	10	0.25	£3.97
HPCMPE6-60	M6	60	10	10	2.10	10	0.25	£4.10
HPCMPE6-70	M6	70	10	10	2.10	10	0.25	£4.45
HPCMPE6-80	M6	80	10	10	2.10	10	0.25	£4.79

Material

HPCMPE: Mild Steel (S 300 Pb) with Zinc and clear Chromate finish.

Other Info

Male - female : M3 - M6

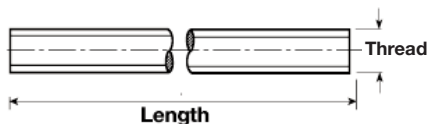
Other lengths and thread sizes available.

Materials

STD: A2 Stainless, 10.9 Grade Steel

Fasteners

Threaded Bar



DISCOUNTS		1 - 9	10-39	40-99	100+	
		List Price	-20%	-30%	-40%	
PART NUMBER		Thread Size	Pitch	Length	PRICE EACH 1-9	
Stainless	Steel				Stainless	Steel
HPCSIM-3	-	M3	0.50	1000	£2.16	-
HPCSIM-4	-	M4	0.70	1000	£4.60	-
HPCSIM-5	-	M5	0.80	1000	£2.37	-
HPCSIM-6	-	M6	1.00	1000	£2.79	-
HPCSIM-8	HPCCIM-8	M8	1.25	1000	£4.06	£9.67
HPCSIM-10	HPCCIM-10	M10	1.50	1000	£4.77	£12.19
HPCSIM-12	HPCCIM-12	M12	1.75	1000	£6.67	£15.38
HPCSIM-14	HPCCIM-14	M14	2.00	1000	£10.73	£19.29
HPCSIM-16	HPCCIM-16	M16	2.00	1000	£12.13	£24.85
HPCSIM-18	HPCCIM-18	M18	2.50	1000	£18.79	£30.42
HPCSIM-20	HPCCIM-20	M20	2.50	1000	£19.16	£36.58
HPCSIM-22	HPCCIM-22	M22	2.50	1000	£33.18	£43.69
HPCSIM-24	HPCCIM-24	M24	3.00	1000	£41.56	£51.74
HPCSIM-27	HPCCIM-27	M27	3.00	1000	£48.65	£48.65
HPCSIM-30	HPCCIM-30	M30	3.50	1000	£67.92	£79.84
HPCSIM-33	HPCCIM-33	M33	3.50	1000	£89.47	£89.47
HPCSIM-36	HPCCIM-36	M36	4.00	1000	£111.84	£114.90
HPCSIM-39	-	M39	4.00	1000	£142.23	-
HPCSIM-42	-	M42	4.50	1000	£200.55	-
HPCSIM-45	-	M45	4.50	1000	£237.23	-
HPCSIM-48	-	M48	5.00	1000	£288.68	-

Material

HPCSIM: A2 Stainless Steel. Manufactured from A2 302/304 grade stainless steel to DIN 975.

HPCCIM: Steel. Manufactured from 10.9 Grade steel to DIN 975.

Other lengths available.

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



5.75



HPCGN Type



HPCPPL Type

DISCOUNTS	1 - 19	20-49	50-99	100-199	200+
	List Price	-20%	-40%	-50%	-60%

PART NUMBER	Thread Size	Length	Torque (lbf. in)	PRICE EACH 1-19
PRESSURE PLUGS				
HPCPPL-1/8	1/8"	3/4"	220	£0.74
HPCPPL-1/4	1/4"	3/4"	620	£0.74
GREASE NIPPLES				
HPCGN-1/8	1/8"	-	-	£0.53
HPCGN-1/4	1/4"	-	-	£2.25
HPCGN-M8	M8	-	-	£1.33
HPCGN-M10	M10	-	-	£1.55

Material

Alloy Steel

Heat treatment - BSPTR Steel

HRC 35-40

Straight - grease nipples at 45° and 90° angle available

Mechanical

Pages 6.2 - 6.47



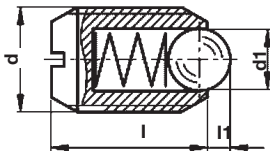
Materials

Black-oxide steel
or AISI 303 Stainless steel

Mechanical Spring Plungers

DISCOUNTS

1 - 15	List Price
20-39	-15%
40-59	-20%
60-99	-25%
100+	-30%



PART NUMBER		Main dimensions					Spring press.		Weight g	PRICE EACH 1-15	
							Preload [N~]	Max. load [N~]		Steel	Stainless
Steel	Stainless	d 6g	d1	l ±0.1	l1				Steel	Stainless	
HPCBPM3	HPCBPM3SS	M3	1.5	7	0.4	3	4.5	1	£2.08	£5.57	
HPCBPM4	HPCBPM4SS	M4	2.5	9	0.8	6	14.5	1	£1.58	£4.84	
HPCBPM5	HPCBPM5SS	M5	3.0	12	0.9	8	14	1	£1.58	£4.84	
HPCBPM6	HPCBPM6SS	M6	3.5	14	1.0	11	18	2	£1.58	£4.84	
HPCBPM8	HPCBPM8SS	M8	4.5	16	1.5	18	31	4	£2.12	£6.28	
HPCBPM10	HPCBPM10SS	M10	6.0	19	2.0	24	45	7	£2.25	£7.20	
HPCBPM12	HPCBPM12SS	M12	8.0	22	2.5	26	49	10	£3.71	£8.78	
HPCBPM16	HPCBPM16SS	M16	10.0	24	3.5	41	86	24	£6.38	£8.66	
HPCBPM20	HPCBPM20SS	M20	12.0	30	4.5	56	111	43	£7.36	£16.59	

Threaded body

Black-oxide steel or AISI 303 stainless steel, screwdriver slotted head.

Ball and spring

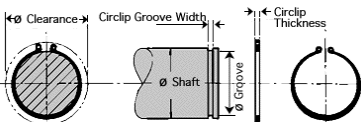
Hardened steel or stainless steel ball, steel or stainless steel spring with normal end-force.

Working temperature

From -40°C to +170°C.

Mechanical Circlips

Materials
Steel
External DIN 471



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	-12%
20 - 39	-25%
40 - 59	-33%
60 - 99	-37%
100 +	-42%

Mechanical circlips

PART NUMBER	Shaft Ø	Circlip Width	Groove Ø	Groove Width H13	Clearance Ø	Price Each 1-5
HPCCX6	6	0.70	5.70	0.80	11.30	£0.15
HPCCX7	7	0.80	6.70	0.90	13.43	£0.15
HPCCX8	8	0.80	7.60	0.90	14.36	£0.15
HPCCX9	9	1.00	8.60	1.10	15.56	£0.18
HPCCX10	10	1.00	9.60	1.10	16.67	£0.26
HPCCX11	11	1.00	10.57	1.10	17.89	£0.32
HPCCX12	12	1.00	11.50	1.10	18.10	£0.33
HPCCX13	13	1.00	12.40	1.10	20.65	£0.34
HPCCX14	14	1.00	13.40	1.10	22.50	£0.39
HPCCX15	15	1.00	14.30	1.10	22.90	£0.19
HPCCX16	16	1.00	15.20	1.10	25.40	£0.25
HPCCX17	17	1.00	16.20	1.10	24.90	£0.26
HPCCX18	18	1.20	17.00	1.30	26.30	£0.37
HPCCX19	19	1.20	18.00	1.30	28.00	£0.39
HPCCX20	20	1.20	19.00	1.30	28.50	£0.42
HPCCX22	22	1.20	21.00	1.30	31.50	£0.45
HPCCX24	24	1.20	22.90	1.30	31.90	£0.53
HPCCX25	25	1.20	23.90	1.30	34.40	£0.54
HPCCX26	26	1.20	24.90	1.30	36.90	£0.66
HPCCX28	28	1.50	26.60	1.60	36.10	£0.80
HPCCX30	30	1.50	28.60	1.60	40.60	£0.93
HPCCX32	32	1.50	30.30	1.60	43.30	£0.91
HPCCX35	35	1.50	33.00	1.60	47.00	£1.09
HPCCX38	38	1.75	36.00	1.85	51.00	£1.27
HPCCX40	40	1.75	37.50	1.85	49.50	£1.63
HPCCX45	45	1.75	42.50	1.85	56.00	£2.00
HPCCX50	50	2.00	47.00	2.15	61.00	£2.36

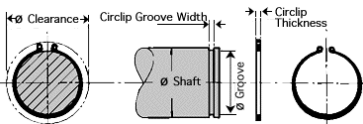
Materials

Stainless Steel
External DIN 471

Mechanical Circlips

DISCOUNTS

	List Price
1 - 5	
6 - 19	-12%
20 - 39	-25%
40 - 59	-33%
60 - 99	-37%
100 +	-42%



PART NUMBER	Shaft Ø	Circlip Width	Groove Ø	Groove Width H13	Clearance Ø	Price Each 1-49
HPCCX-4S	4	0.40	3.80	0.50	8.60	£0.27
HPCCX-5S	5	0.60	4.80	0.70	10.30	£0.33
HPCCX-6S	6	0.70	5.70	0.80	11.70	£0.39
HPCCX-7S	7	0.80	6.70	0.90	13.50	£0.39
HPCCX-8S	8	0.80	7.60	0.90	14.70	£0.39
HPCCX-9S	9	1.00	8.60	1.10	16.00	£0.68
HPCCX-10S	10	1.00	9.60	1.10	17.00	£1.04
HPCCX-12S	12	1.00	11.50	1.10	19.00	£1.04
HPCCX-14S	14	1.00	13.40	1.10	21.40	£1.07
HPCCX-15S	15	1.00	14.30	1.10	22.60	£1.11
HPCCX-16S	16	1.00	15.20	1.10	23.80	£1.16
HPCCX-17S	17	1.00	16.20	1.10	25.00	£1.18
HPCCX-18S	18	1.20	17.00	1.30	26.20	£1.22
HPCCX-20S	20	1.20	19.00	1.30	28.40	£1.22
HPCCX-22S	22	1.20	21.00	1.30	30.80	£1.90
HPCCX-24S	24	1.20	22.90	1.30	33.20	£1.75
HPCCX-25S	25	1.20	23.90	1.30	34.20	£2.09
HPCCX-26S	26	1.20	24.90	1.30	35.50	£2.09
HPCCX-30S	30	1.50	28.60	1.60	40.60	£3.39

HPCCX-4S to HPCCX-27S: Stainless Steel AISI 420 MoV (W.N. 1.4116).

HPCCX-28S to HPCCX-160S: Stainless Steel X35XCrMo17 (W.N. 1.4122).

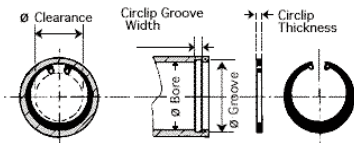
HPCCX-160S: Sizes available up to 160 mm.

Mechanical
Circlips



Mechanical Circlips

Materials
Steel
Internal DIN 472



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	-12%
20 - 39	-25%
40 - 59	-33%
60 - 99	-37%
100 +	-42%

Mechanical circlips

PART NUMBER	Shaft Ø	Circlip Width	Groove Ø	Groove Width H13	Clearance Ø	Price Each 1-5
HPCCY13	13	1.00	13.60	1.10	5.90	£0.20
HPCCY16	16	1.00	16.80	1.10	8.35	£0.24
HPCCY17	17	1.00	17.80	1.10	8.90	£0.25
HPCCY19	19	1.00	20.00	1.10	10.50	£0.29
HPCCY20	20	1.00	21.00	1.10	11.40	£0.30
HPCCY22	22	1.00	23.00	1.10	12.90	£0.31
HPCCY24	24	1.20	25.20	1.30	14.10	£0.59
HPCCY25	25	1.20	26.20	1.30	16.00	£0.34
HPCCY26	26	1.20	27.20	1.30	16.00	£0.67
HPCCY28	28	1.20	29.40	1.30	17.60	£0.56
HPCCY30	30	1.20	31.40	1.30	20.00	£0.59
HPCCY32	32	1.20	33.70	1.30	23.00	£0.76
HPCCY35	35	1.50	36.50	1.60	24.50	£1.02
HPCCY37	37	1.50	39.00	1.60	26.00	£1.26
HPCCY38	38	1.50	40.00	1.60	28.00	£1.50
HPCCY40	40	1.75	42.50	1.85	29.00	£1.63
HPCCY42	42	1.75	44.50	1.85	30.80	£1.63
HPCCY45	45	1.75	47.50	1.85	33.30	£1.58
HPCCY47	47	1.75	49.50	1.85	35.70	£1.84
HPCCY50	50	2.00	53.00	2.15	37.00	£2.09
HPCCY52	52	2.00	55.00	2.15	37.50	£2.26
HPCCY55	55	2.00	58.00	2.15	41.50	£2.71
HPCCY62	62	2.00	65.00	2.15	50.50	£3.14
HPCCY68	68	2.50	71.00	2.65	55.80	£3.59
HPCCY75	75	2.50	78.00	2.65	60.20	£4.75
HPCCY80	80	2.50	83.50	2.65	62.50	£5.91
HPCCY90	90	3.00	93.50	3.15	76.40	£7.06

HPCCY: Steel C60 or C75 (Spring DIN 17222 44-54 Hrc) - Sizes available up to 400 mm

Materials

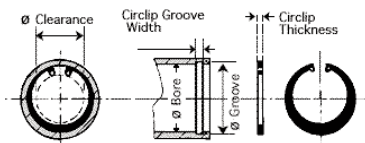
Stainless Steel

Internal DIN 472

Mechanical Circlips

DISCOUNTS

1 - 5	List Price
6 - 19	-12%
20 - 39	-25%
40 - 59	-33%
60 - 99	-37%
100 +	-42%



PART NUMBER	Shaft Ø	Circlip Width	Groove Ø	Groove Width H13	Clearance Ø	Price Each 1-49
HPCCY-10S	10	1.00	10.40	1.10	3.30	£0.90
HPCCY-11S	11	1.00	11.40	1.10	4.10	£0.90
HPCCY-12S	12	1.00	12.50	1.10	4.90	£0.97
HPCCY-13S	13	1.00	13.60	1.10	5.40	£0.97
HPCCY-14S	14	1.00	14.60	1.10	6.20	£0.97
HPCCY-15S	15	1.00	15.70	1.10	7.20	£1.11
HPCCY-16S	16	1.00	16.80	1.10	8.00	£1.17
HPCCY-18S	18	1.00	19.00	1.10	9.40	£1.22
HPCCY-20S	20	1.00	21.00	1.10	11.20	£1.36
HPCCY-22S	22	1.00	23.00	1.10	13.20	£1.53

HPCCY-8S to HPCCY-33S: Stainless Steel AISI 420 MoV (W.N. 1.4116).

HPCCY-34S to HPCCY-100S: Stainless Steel X35XCrMo17 (W.N. 1.4122).

HPCCY-160S: Sizes available up to 160 mm.

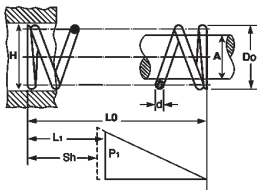
Mechanical Circlips

'Never Knowingly Outpriced'



Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

	List Price
1 - 5	
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

COMPRESSION SPRINGS

Our compression springs provide design engineers, draughtsmen, production and maintenance departments with precision engineered springs in an economical and time-saving way. Our service saves time and therefore money, as design work and calculations are no longer required.

KEY TO MEASUREMENTS

- Do** = Outside diameter mm.
- d** = Wire diameter mm
- L0** = Free length mm.
- L1** = Loaded length (min. working length)
- A** = To work over axle size mm.
- H** = To work in hole size mm.
- P1** = Load at L1 Newtons.
- R** = Rate N/mm.
- Sh** = Approx solid height mm.
- Lx** = Spring compression length mm.

ADDITIONAL TECHNICAL DATA**Materials**

STAINLESS STEEL to DIN 17224. No 1,4310. BS2056 EN58A. Commercial 302 AMS 5688 spring temper.

Ends

Wire up to 0.8mm, squared and unground.

Wire over 1.0mm, squared and ground.

tolerances

All dimensions and forces to DIN 2095 (Grade 2).

Loads

Load values shown are based on a service life of 50,000 cycles at 0.50 stress range.

For normal service, springs should not be compressed below L1.

Surface finish

Normal wire oiled. Shot-peened and plated finishes supplied on request.

Allow sufficient time for special finishes.

To determine the load at any working length use rate proposed deflection.

$P1=(L0 - Lx) \times R$ where Lx is spring compression length. Reference only.

1 lb = 4.448 Newtons

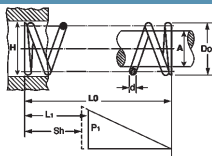
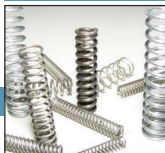
1 Newton = 0.225 lb

1 kg. = 9.80665 Newtons

1 Newton = 0.10197 kg

Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

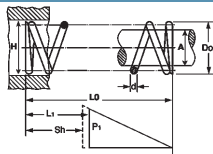
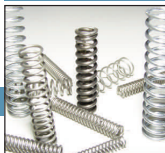
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2010	1.20	0.20	2.00	1.40	0.60	1.40	2.14	4.09	1.30	£2.88
HPCCD2011	1.20	0.20	2.70	1.90	0.60	1.40	2.14	2.60	1.70	£2.88
HPCCD2012	1.20	0.20	3.90	2.60	0.60	1.40	2.14	1.69	2.30	£2.88
HPCCD2013	1.20	0.20	5.50	3.60	0.60	1.40	2.14	1.15	3.10	£2.88
HPCCD2014	1.20	0.20	7.80	5.00	0.60	1.40	2.14	0.77	4.30	£2.88
HPCCD2015	1.40	0.20	2.30	1.50	0.80	1.70	1.89	2.36	1.30	£2.88
HPCCD2016	1.40	0.20	3.20	1.90	0.80	1.70	1.89	1.51	1.70	£2.88
HPCCD2017	1.40	0.20	4.60	2.70	0.80	1.70	1.89	0.97	2.30	£2.88
HPCCD2018	1.40	0.20	6.50	3.70	0.80	1.70	1.89	0.67	3.10	£2.88
HPCCD2019	1.40	0.20	9.30	5.10	0.80	1.70	1.89	0.45	4.30	£2.88
HPCCD2020	1.80	0.20	3.00	1.50	1.10	2.10	1.50	1.00	1.30	£2.88
HPCCD2021	1.80	0.20	4.40	2.00	1.10	2.10	1.50	0.64	1.70	£2.88
HPCCD2022	1.80	0.20	6.40	2.80	1.10	2.10	1.50	0.41	2.30	£2.88
HPCCD2023	1.80	0.20	9.20	3.80	1.10	2.10	1.50	0.28	3.10	£2.88
HPCCD2024	1.80	0.20	13.30	5.30	1.10	2.10	1.50	0.19	4.30	£2.88
HPCCD2025	2.20	0.20	4.00	1.50	1.50	2.60	1.24	0.51	1.30	£2.88
HPCCD2026	2.20	0.20	5.90	2.10	1.50	2.60	1.24	0.32	1.70	£2.88
HPCCD2027	2.20	0.20	8.70	2.90	1.50	2.60	1.24	0.21	2.30	£2.88
HPCCD2028	2.20	0.20	12.60	4.00	1.50	2.60	1.24	0.15	3.10	£2.88
HPCCD2029	2.20	0.20	18.30	5.60	1.50	2.60	1.24	0.10	4.30	£2.88
HPCCD2030	2.70	0.20	5.40	1.60	2.00	3.10	1.00	0.26	1.30	£2.88
HPCCD2031	2.70	0.20	8.20	2.20	2.00	3.10	1.00	0.17	1.70	£2.88
HPCCD2032	2.70	0.20	12.40	3.10	2.00	3.10	1.00	0.11	2.30	£2.88
HPCCD2033	2.70	0.20	17.90	4.20	2.00	3.10	1.00	0.07	3.10	£2.88
HPCCD2034	2.70	0.20	26.20	5.90	2.00	3.10	1.00	0.05	4.30	£2.88
HPCCD2035	1.45	0.25	2.40	1.80	0.70	1.70	3.42	5.79	1.60	£2.88

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2036	1.45	0.25	3.30	2.40	0.70	1.70	3.42	3.68	2.10	£2.88
HPCCD2037	1.45	0.25	4.70	3.30	0.70	1.70	3.42	2.38	2.90	£2.88
HPCCD2038	1.45	0.25	6.60	4.50	0.70	1.70	3.42	1.62	3.90	£2.88
HPCCD2039	1.45	0.25	9.40	6.30	0.70	1.70	3.42	1.10	5.40	£2.88
HPCCD2040	1.85	0.25	3.00	1.80	1.10	2.10	2.81	2.44	1.60	£2.88
HPCCD2041	1.85	0.25	4.30	2.40	1.10	2.10	2.81	1.55	2.10	£2.88
HPCCD2042	1.85	0.25	6.20	3.40	1.10	2.10	2.81	1.00	2.90	£2.88
HPCCD2043	1.85	0.25	8.70	4.60	1.10	2.10	2.81	0.69	3.90	£2.88
HPCCD2044	1.85	0.25	12.50	6.50	1.10	2.10	2.81	0.46	5.40	£2.88
HPCCD2045	2.25	0.25	3.70	1.90	1.50	2.60	2.34	1.25	1.60	£2.88
HPCCD2046	2.25	0.25	5.50	2.50	1.50	2.60	2.34	0.79	2.10	£2.88
HPCCD2047	2.25	0.25	8.00	3.50	1.50	2.60	2.34	0.51	2.90	£2.88
HPCCD2048	2.25	0.25	11.40	4.70	1.50	2.60	2.34	0.35	3.90	£2.88
HPCCD2049	2.25	0.25	16.60	6.70	1.50	2.60	2.34	0.24	5.40	£2.88
HPCCD2050	2.75	0.25	4.90	1.90	1.90	3.10	1.92	0.64	1.60	£2.88
HPCCD2051	2.75	0.25	7.30	2.60	1.90	3.10	1.92	0.41	2.10	£2.88
HPCCD2052	2.75	0.25	10.90	3.60	1.90	3.10	1.92	0.26	2.90	£2.88
HPCCD2053	2.75	0.25	15.70	5.00	1.90	3.10	1.92	0.18	3.90	£2.88
HPCCD2054	2.75	0.25	22.90	7.00	1.90	3.10	1.92	0.12	5.40	£2.88
HPCCD2055	3.45	0.25	7.10	2.00	2.50	4.00	1.53	0.30	1.60	£2.88
HPCCD2056	3.45	0.25	10.70	2.80	2.50	4.00	1.53	0.20	2.10	£2.88
HPCCD2057	3.45	0.25	16.10	3.80	2.50	4.00	1.53	0.13	2.90	£2.88
HPCCD2058	3.45	0.25	23.30	5.30	2.50	4.00	1.53	0.09	3.90	£2.88
HPCCD2059	3.45	0.25	34.10	7.50	2.50	4.00	1.53	0.06	5.40	£2.88
HPCCD2060	1.92	0.32	3.10	2.30	1.00	2.20	5.47	6.55	2.10	£2.88
HPCCD2061	1.92	0.32	4.40	3.10	1.00	2.20	5.47	4.17	2.70	£2.88
HPCCD2062	1.92	0.32	6.30	4.20	1.00	2.20	5.47	2.70	3.70	£2.88
HPCCD2063	1.92	0.32	8.70	5.80	1.00	2.20	5.47	1.83	5.00	£2.88
HPCCD2064	1.92	0.32	12.50	8.10	1.00	2.20	5.47	1.24	6.90	£2.88
HPCCD2065	2.32	0.32	3.70	2.30	1.40	2.60	4.69	3.35	2.10	£2.88
HPCCD2066	2.32	0.32	5.30	3.10	1.40	2.60	4.69	2.14	2.70	£2.88
HPCCD2067	2.32	0.32	7.70	4.3	1.40	2.60	4.69	1.38	3.70	£2.88
HPCCD2068	2.32	0.32	10.90	5.90	1.40	2.60	4.69	0.94	5.00	£2.88
HPCCD2069	2.32	0.32	15.60	8.20	1.40	2.60	4.69	0.64	6.90	£2.88
HPCCD2070	2.82	0.32	4.70	2.40	1.90	3.10	3.91	1.72	2.10	£2.88
HPCCD2071	2.82	0.32	6.80	3.20	1.90	3.10	3.91	1.09	2.70	£2.88
HPCCD2072	2.82	0.32	10.00	4.40	1.90	3.10	3.91	0.71	3.70	£2.88
HPCCD2073	2.82	0.32	14.20	6.10	1.90	3.10	3.91	0.48	5.00	£2.88
HPCCD2074	2.82	0.32	20.60	8.50	1.90	3.10	3.91	0.32	6.90	£2.88



Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

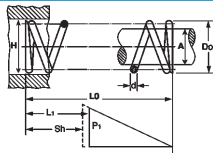
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R1	Solid Height Sh	Price Each 1-5
HPCCD2075	3.52	0.32	6.30	2.50	2.40	4.00	3.16	0.81	2.10	£2.88
HPCCD2076	3.52	0.32	9.40	3.30	2.40	4.00	3.16	0.52	2.70	£2.88
HPCCD2077	3.52	0.32	14.00	4.60	2.40	4.00	3.16	0.33	3.70	£2.88
HPCCD2078	3.52	0.32	20.10	6.30	2.40	4.00	3.16	0.23	5.00	£2.88
HPCCD2079	3.52	0.32	29.3	8.90	2.40	4.00	3.16	0.16	6.90	£2.88
HPCCD2080	4.32	0.32	8.70	2.60	3.20	4.80	2.57	0.42	2.10	£2.88
HPCCD2081	4.32	0.32	13.10	3.50	3.20	4.80	2.57	0.26	2.70	£2.88
HPCCD2082	4.32	0.32	19.80	4.90	3.20	4.80	2.57	0.18	3.70	£2.88
HPCCD2083	4.32	0.32	28.60	6.70	3.20	4.80	2.57	0.12	5.00	£2.88
HPCCD2084	4.32	0.32	41.90	9.50	3.20	4.80	2.57	0.08	6.90	£2.88
HPCCD2085	2.40	0.40	3.50	2.70	1.30	2.80	6.21	7.76	2.60	£2.88
HPCCD2086	2.40	0.40	5.00	3.70	1.30	2.80	6.21	4.90	3.40	£2.88
HPCCD2087	2.40	0.40	7.00	5.10	1.30	2.80	6.21	3.19	4.60	£2.88
HPCCD2088	2.40	0.40	10.00	7.00	1.30	2.80	6.21	2.17	6.20	£2.88
HPCCD2089	2.40	0.40	14.00	9.90	1.30	2.80	6.21	1.47	8.60	£2.88
HPCCD2090	2.90	0.40	4.30	2.80	1.80	3.30	5.96	3.97	2.60	£2.88
HPCCD2091	2.90	0.40	6.30	3.90	1.80	3.30	5.96	2.53	3.40	£2.88
HPCCD2092	2.90	0.40	9.10	5.40	1.80	3.30	5.96	1.63	4.60	£2.88
HPCCD2093	2.90	0.40	13.00	7.50	1.80	3.30	5.96	1.11	6.20	£2.88
HPCCD2094	2.90	0.40	18.50	10.60	1.80	3.30	5.96	0.75	8.60	£2.88
HPCCD2095	3.60	0.40	5.60	2.80	2.50	4.00	5.31	1.90	2.60	£2.88
HPCCD2096	3.60	0.40	8.30	3.90	2.50	4.00	5.31	1.21	3.40	£2.88
HPCCD2097	3.60	0.40	12.00	5.40	2.50	4.00	5.31	0.78	4.60	£2.88
HPCCD2098	3.60	0.40	17.50	7.50	2.50	4.00	5.31	0.53	6.20	£2.88
HPCCD2099	3.60	0.40	25.50	10.60	2.50	4.00	5.31	0.36	8.60	£2.88
HPCCD2100	4.40	0.40	7.50	3.00	3.20	5.00	4.37	0.97	2.60	£2.88

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2101	4.40	0.40	11.00	4.10	3.20	5.00	4.37	0.62	3.40	£2.88
HPCCD2102	4.40	0.40	16.50	5.80	3.20	5.00	4.37	0.40	4.60	£2.88
HPCCD2103	4.40	0.40	24.00	8.00	3.20	5.00	4.37	0.27	6.20	£2.88
HPCCD2104	4.40	0.40	35.50	11.40	3.20	5.00	4.37	0.18	8.60	£2.88
HPCCD2105	5.40	0.40	10.50	3.20	4.10	6.00	3.63	0.50	2.60	£2.88
HPCCD2106	5.40	0.40	16.00	4.50	4.10	6.00	3.63	0.32	3.40	£2.88
HPCCD2107	5.40	0.40	24.00	6.40	4.10	6.00	3.63	0.21	4.60	£2.88
HPCCD2108	5.40	0.40	35.00	9.00	4.10	6.00	3.63	0.14	6.20	£2.88
HPCCD2109	5.40	0.40	53.00	12.80	4.10	6.00	3.63	0.09	8.60	£2.88
HPCCD2110	3.00	0.50	4.40	3.50	1.70	3.40	8.66	9.65	3.30	£2.88
HPCCD2111	3.00	0.50	6.10	4.70	1.70	3.40	8.66	6.18	4.30	£2.88
HPCCD2112	3.00	0.50	8.70	6.50	1.70	3.40	8.66	4.00	5.80	£2.88
HPCCD2113	3.00	0.50	12.00	9.00	1.70	3.40	8.66	2.72	7.80	£2.88
HPCCD2114	3.00	0.50	17.50	12.80	1.70	3.40	8.66	1.84	10.80	£2.88
HPCCD2115	3.70	0.50	5.50	3.70	2.40	4.10	8.33	4.64	3.30	£2.88
HPCCD2116	3.70	0.50	7.90	5.10	2.40	4.10	8.33	2.94	4.30	£2.88
HPCCD2117	3.70	0.50	11.50	7.10	2.40	4.10	8.33	1.90	5.80	£2.88
HPCCD2118	3.70	0.50	16.00	9.80	2.40	4.10	8.33	1.30	7.80	£2.88
HPCCD2119	3.70	0.50	23.50	14.00	2.40	4.10	8.33	0.87	10.80	£2.88
HPCCD2120	4.50	0.50	7.00	3.70	3.20	5.00	7.76	2.36	3.30	£2.88
HPCCD2121	4.50	0.50	10.00	5.10	3.20	5.00	7.76	1.51	4.30	£2.88
HPCCD2122	4.50	0.50	15.00	7.10	3.20	5.00	7.76	0.97	5.80	£2.88
HPCCD2123	4.50	0.50	21.50	9.80	3.20	5.00	7.76	0.66	7.80	£2.88
HPCCD2124	4.50	0.50	31.00	14.00	3.20	5.00	7.76	0.45	10.80	£2.88
HPCCD2125	5.50	0.50	9.40	3.90	4.00	6.20	6.70	1.22	3.30	£2.88
HPCCD2126	5.50	0.50	14.00	5.40	4.00	6.20	6.70	0.77	4.30	£2.88
HPCCD2127	5.50	0.50	20.50	7.60	4.00	6.20	6.70	0.51	5.80	£2.88
HPCCD2128	5.50	0.50	30.00	10.60	4.00	6.20	6.70	0.34	7.80	£2.88
HPCCD2129	5.50	0.50	44.50	15.10	4.00	6.20	6.70	0.22	10.80	£2.88
HPCCD2130	6.80	0.50	13.50	4.30	5.30	7.50	5.47	0.61	3.30	£2.88
HPCCD2131	6.80	0.50	20.00	6.00	5.30	7.50	5.47	0.38	4.30	£2.88
HPCCD2132	6.80	0.50	30.00	8.70	5.30	7.50	5.47	0.25	5.80	£2.88
HPCCD2133	6.80	0.50	44.00	12.20	5.30	7.50	5.47	0.17	7.80	£2.88
HPCCD2134	6.80	0.50	65.00	17.40	5.30	7.50	5.47	0.12	10.80	£2.88
HPCCD2135	3.83	0.63	5.50	4.00	2.30	4.20	17.48	11.68	4.10	£2.88
HPCCD2136	3.83	0.63	7.80	5.40	2.30	4.20	17.48	7.41	5.40	£2.88
HPCCD2137	3.83	0.63	11.00	7.50	2.30	4.20	17.48	4.81	7.30	£2.88
HPCCD2138	3.83	0.63	15.50	10.30	2.30	4.20	17.48	3.27	9.80	£2.88
HPCCD2139	3.83	0.63	22.50	14.70	2.30	4.20	17.48	2.21	13.50	£2.88



Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

1 - 5	List Price
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51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

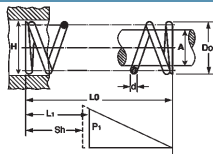
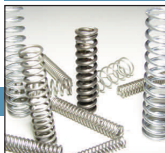
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2140	4.63	0.63	6.70	4.30	3.00	5.00	14.29	5.96	4.10	£2.88
HPCCD2141	4.63	0.63	9.60	5.80	3.00	5.00	14.29	3.79	5.40	£2.88
HPCCD2142	4.63	0.63	14.00	8.20	3.00	5.00	14.29	2.45	7.30	£2.88
HPCCD2143	4.63	0.63	20.00	11.30	3.00	5.00	14.29	1.67	9.80	£2.88
HPCCD2144	4.63	0.63	29.00	16.20	3.00	5.00	14.29	1.12	13.50	£2.88
HPCCD2145	5.63	0.63	8.50	4.30	3.90	6.10	12.90	3.07	4.10	£2.88
HPCCD2146	5.63	0.63	12.50	5.80	3.90	6.10	12.90	1.96	5.40	£2.88
HPCCD2147	5.63	0.63	18.50	8.20	3.90	6.10	12.90	1.29	7.30	£2.88
HPCCD2148	5.63	0.63	26.00	11.30	3.90	6.10	12.90	0.86	9.80	£2.88
HPCCD2149	5.63	0.63	38.50	16.20	3.90	6.10	12.90	0.58	13.50	£2.88
HPCCD2150	6.93	0.63	11.50	4.60	5.00	7.60	10.37	1.52	4.10	£2.88
HPCCD2151	6.93	0.63	17.00	6.20	5.00	7.60	10.37	0.97	5.40	£2.88
HPCCD2152	6.93	0.63	25.50	8.90	5.00	7.60	10.37	0.63	7.30	£2.88
HPCCD2153	6.93	0.63	36.50	12.30	5.00	7.60	10.37	0.42	9.80	£2.88
HPCCD2154	6.93	0.63	54.00	17.70	5.00	7.60	10.37	0.28	13.50	£2.88
HPCCD2155	8.63	0.63	16.00	5.10	6.80	9.40	8.33	0.74	4.10	£2.88
HPCCD2156	8.63	0.63	24.50	7.10	6.80	9.40	8.33	0.47	5.40	£2.88
HPCCD2157	8.63	0.63	37.00	10.20	6.80	9.40	8.33	0.31	7.30	£2.88
HPCCD2158	8.63	0.63	55.00	14.30	6.80	9.40	8.33	0.21	9.80	£2.88
HPCCD2159	8.63	0.63	80.50	20.60	6.80	9.40	8.33	0.14	13.50	£2.88
HPCCD2160	4.80	0.80	6.90	5.20	2.80	5.30	26.55	15.44	5.20	£2.88
HPCCD2161	4.80	0.80	9.70	7.00	2.80	5.30	26.55	9.89	6.80	£2.88
HPCCD2162	4.80	0.80	14.00	9.80	2.80	5.30	26.55	6.39	9.20	£2.88
HPCCD2163	4.80	0.80	19.50	13.50	2.80	5.30	26.55	4.35	12.40	£2.88
HPCCD2164	4.80	0.80	28.00	19.10	2.80	5.30	26.55	2.93	17.20	£2.88
HPCCD2165	5.80	0.80	8.30	5.60	3.80	6.30	21.65	7.94	5.20	£2.88

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2166	5.80	0.80	12.00	7.70	3.80	6.30	21.65	5.06	6.80	£2.88
HPCCD2167	5.80	0.80	17.50	10.90	3.80	6.30	21.65	3.27	9.20	£2.88
HPCCD2168	5.80	0.80	24.50	15.10	3.80	6.30	21.65	2.22	12.40	£2.88
HPCCD2169	5.80	0.80	36.00	21.50	3.80	6.30	21.65	1.50	17.20	£2.88
HPCCD2170	7.10	0.80	10.50	5.60	5.00	7.70	20.02	3.97	5.20	£2.88
HPCCD2171	7.10	0.80	15.50	7.70	5.00	7.70	20.02	2.52	6.80	£2.88
HPCCD2172	7.10	0.80	23.00	10.90	5.00	7.70	20.02	1.63	9.20	£2.88
HPCCD2173	7.10	0.80	33.00	15.10	5.00	7.70	20.02	1.11	12.40	£2.88
HPCCD2174	7.10	0.80	48.00	21.50	5.00	7.70	20.02	1.75	17.20	£2.88
HPCCD2175	8.80	0.80	14.50	6.10	6.60	9.60	16.26	1.93	5.20	£2.88
HPCCD2176	8.80	0.80	21.50	8.40	6.60	9.60	16.26	1.23	6.80	£2.88
HPCCD2177	8.80	0.80	32.00	12.00	6.60	9.60	16.26	0.80	9.20	£2.88
HPCCD2178	8.80	0.80	47.00	16.70	6.60	9.60	16.26	0.54	12.40	£2.88
HPCCD2179	8.80	0.80	68.00	23.80	6.60	9.60	16.26	0.37	17.20	£2.88
HPCCD2180	10.80	0.80	20.00	6.90	8.60	11.60	12.83	1.00	5.20	£2.88
HPCCD2181	10.80	0.80	30.00	9.80	8.60	11.60	12.83	0.63	6.80	£2.88
HPCCD2182	10.80	0.80	45.50	14.30	8.60	11.60	12.83	0.41	9.20	£2.88
HPCCD2183	10.80	0.80	66.00	19.90	8.60	11.60	12.83	0.27	12.40	£2.88
HPCCD2184	10.80	0.80	96.50	28.50	8.60	11.60	12.83	0.19	17.20	£2.88
HPCCD2185	6.00	1.00	8.50	6.60	3.60	6.50	36.44	19.36	5.50	£3.81
HPCCD2186	6.00	1.00	12.00	9.00	3.60	6.50	36.44	12.34	7.50	£3.81
HPCCD2187	6.00	1.00	17.00	12.60	3.60	6.50	36.44	7.97	10.50	£3.81
HPCCD2188	6.00	1.00	24.00	17.40	3.60	6.50	36.44	5.42	14.50	£3.81
HPCCD2189	6.00	1.00	34.50	24.60	3.60	6.50	36.44	3.60	20.50	£3.81
HPCCD2190	7.30	1.00	10.00	7.00	4.90	7.80	28.43	9.64	5.50	£3.81
HPCCD2191	7.30	1.00	14.50	9.80	4.90	7.80	28.43	6.16	7.50	£3.81
HPCCD2192	7.30	1.00	21.50	14.30	4.90	7.80	28.43	3.99	10.50	£3.81
HPCCD2193	7.30	1.00	30.50	19.90	4.90	7.80	28.43	2.72	14.50	£3.81
HPCCD2194	7.30	1.00	43.50	27.80	4.90	7.80	28.43	1.83	20.50	£3.81
HPCCD2195	9.00	1.00	13.00	7.30	6.50	9.60	27.61	4.73	5.50	£3.81
HPCCD2196	9.00	1.00	19.00	10.10	6.50	9.60	27.61	3.01	7.50	£3.81
HPCCD2197	9.00	1.00	28.50	14.60	6.50	9.60	27.61	1.94	10.50	£3.81
HPCCD2198	9.00	1.00	40.50	20.10	6.50	9.60	27.61	1.32	14.50	£3.81
HPCCD2199	9.00	1.00	59.00	28.90	6.50	9.60	27.61	0.90	20.50	£3.81
HPCCD2200	11.00	1.00	17.50	8.00	8.40	11.80	22.79	2.42	5.50	£3.81
HPCCD2201	11.00	1.00	26.00	11.20	8.40	11.80	22.79	1.54	7.50	£3.81
HPCCD2202	11.00	1.00	39.00	16.00	8.40	11.80	22.79	1.00	10.50	£3.81
HPCCD2203	11.00	1.00	56.00	22.40	8.40	11.80	22.79	0.67	14.50	£3.81
HPCCD2204	11.00	1.00	81.50	32.00	8.40	11.80	22.79	0.46	20.50	£3.81



Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

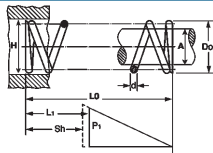
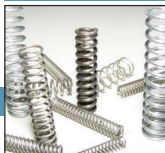
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size	Bore Ø Size	Load at L1 N P1	Rate N/mm	Solid Height Sh	Price Each 1-5
HPCCD2205	13.50	1.00	24.00	9.40	10.80	14.40	18.30	1.24	5.50	£3.81
HPCCD2206	13.50	1.00	36.50	13.40	10.80	14.40	18.30	0.79	7.50	£3.81
HPCCD2207	13.50	1.00	55.50	19.40	10.80	14.40	18.30	0.51	10.50	£3.81
HPCCD2208	13.50	1.00	80.50	27.40	10.80	14.40	18.30	0.34	14.50	£3.81
HPCCD2209	13.50	1.00	115.00	39.40	10.80	14.40	18.30	0.23	20.50	£3.81
HPCCD2210	7.55	1.25	12.00	7.20	4.70	8.10	111.10	24.18	6.90	£4.04
HPCCD2211	7.55	1.25	17.00	9.80	4.70	8.10	111.10	15.03	9.40	£4.04
HPCCD2212	7.55	1.25	25.00	13.80	4.70	8.10	111.10	9.80	13.10	£4.04
HPCCD2213	7.55	1.25	35.50	19.20	4.70	8.10	111.10	6.74	18.10	£4.04
HPCCD2214	7.55	1.25	51.50	27.10	4.70	8.10	111.10	4.49	25.60	£4.04
HPCCD2215	9.25	1.25	15.00	7.40	6.10	9.60	87.41	11.93	6.90	£4.04
HPCCD2216	9.25	1.25	22.00	10.50	6.10	9.60	87.41	7.43	9.40	£4.04
HPCCD2217	9.25	1.25	33.00	14.90	6.10	9.60	87.41	4.86	13.10	£4.04
HPCCD2218	9.25	1.25	47.50	21.00	6.10	9.60	87.41	3.30	18.10	£4.04
HPCCD2219	9.25	1.25	69.00	30.00	6.10	9.60	87.41	2.24	25.60	£4.04
HPCCD2220	11.25	1.25	20.00	7.70	8.20	11.90	71.15	5.91	6.90	£4.04
HPCCD2221	11.25	1.25	29.50	10.80	8.20	11.90	71.15	3.76	9.40	£4.04
HPCCD2222	11.25	1.25	44.50	15.20	8.20	11.90	71.15	2.43	13.10	£4.04
HPCCD2223	11.25	1.25	64.00	21.10	8.20	11.90	71.15	1.66	18.10	£4.04
HPCCD2224	11.25	1.25	93.50	30.00	8.20	11.90	71.15	1.12	25.60	£4.04
HPCCD2225	13.75	1.25	27.00	8.20	10.60	14.60	57.51	3.02	6.90	£4.04
HPCCD2226	13.75	1.25	41.50	11.60	10.60	14.60	57.51	1.92	9.40	£4.04
HPCCD2227	13.75	1.25	62.50	16.50	10.60	14.60	57.51	1.24	13.10	£4.04
HPCCD2228	13.75	1.25	90.50	23.10	10.60	14.60	57.51	0.85	18.10	£4.04
HPCCD2229	13.75	1.25	130.00	32.90	10.60	14.60	57.51	0.57	25.60	£4.04
HPCCD2230	17.25	1.25	40.50	9.10	14.10	18.20	45.17	1.44	6.90	£4.04

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2231	17.25	1.25	62.00	12.90	14.10	18.20	45.17	0.92	9.40	£4.04
HPCCD2232	17.25	1.25	94.00	18.50	14.10	18.20	45.17	0.60	13.10	£4.04
HPCCD2233	17.25	1.25	140.00	26.00	14.10	18.20	45.17	0.40	18.10	£4.04
HPCCD2234	17.25	1.25	205.00	37.30	14.10	18.20	45.17	0.27	25.60	£4.04
HPCCD2235	9.60	1.60	14.50	9.00	5.90	10.10	176.45	31.05	8.80	£4.04
HPCCD2236	9.60	1.60	21.50	12.60	5.90	10.10	176.45	19.77	12.00	£4.04
HPCCD2237	9.60	1.60	31.50	17.90	5.90	10.10	176.45	12.83	16.80	£4.04
HPCCD2238	9.60	1.60	45.00	24.80	5.90	10.10	176.45	8.66	23.20	£4.04
HPCCD2239	9.60	1.60	65.50	35.20	5.90	10.10	176.45	5.87	32.80	£4.04
HPCCD2240	11.60	1.60	18.50	9.40	7.90	12.10	141.33	15.93	8.80	£4.04
HPCCD2241	11.60	1.60	27.00	13.20	7.90	12.10	141.33	10.13	12.00	£4.04
HPCCD2242	11.60	1.60	40.50	18.90	7.90	12.10	141.33	6.56	16.80	£4.04
HPCCD2243	11.60	1.60	58.50	26.50	7.90	12.10	141.33	4.44	23.20	£4.04
HPCCD2244	11.60	1.60	85.00	37.90	7.90	12.10	141.33	3.01	32.80	£4.04
HPCCD2245	14.10	1.60	24.00	10.00	10.30	14.70	112.73	8.13	8.80	£4.04
HPCCD2246	14.10	1.60	36.00	14.10	10.30	14.70	112.73	5.19	12.00	£4.04
HPCCD2247	14.10	1.60	53.50	20.10	10.30	14.70	112.73	3.37	16.80	£4.04
HPCCD2248	14.10	1.60	78.00	28.00	10.30	14.70	112.73	2.27	23.20	£4.04
HPCCD2249	14.10	1.60	115.00	39.90	10.30	14.70	112.73	1.53	32.80	£4.04
HPCCD2250	17.60	1.60	34.00	11.00	13.70	18.30	88.22	3.87	8.80	£4.04
HPCCD2251	17.60	1.60	51.50	15.50	13.70	18.30	88.22	2.47	12.00	£4.04
HPCCD2252	17.60	1.60	77.50	22.20	13.70	18.30	88.22	1.60	16.80	£4.04
HPCCD2253	17.60	1.60	110.00	31.20	13.70	18.30	88.22	1.08	23.20	£4.04
HPCCD2254	17.60	1.60	165.00	44.60	13.70	18.30	88.22	0.73	32.80	£4.04
HPCCD2255	21.60	1.60	48.00	12.40	17.50	22.50	70.66	1.98	8.80	£4.04
HPCCD2256	21.60	1.60	73.50	17.60	17.50	22.50	70.66	1.27	12.00	£4.04
HPCCD2257	21.60	1.60	110.00	25.50	17.50	22.50	70.66	0.82	16.80	£4.04
HPCCD2258	21.60	1.60	165.00	36.00	17.50	22.50	70.66	0.56	23.20	£6.78
HPCCD2259	21.60	1.60	240.00	51.80	17.50	22.50	70.66	0.37	32.80	£6.78
HPCCD2260	12.00	2.00	18.00	11.20	7.50	12.50	264.68	38.80	11.00	£4.69
HPCCD2261	12.00	2.00	26.50	15.60	7.50	12.50	264.68	24.75	15.00	£4.69
HPCCD2262	12.00	2.00	38.50	22.00	7.50	12.50	264.68	16.01	21.00	£4.69
HPCCD2263	12.00	2.00	55.00	30.60	7.50	12.50	264.68	10.86	29.00	£4.69
HPCCD2264	12.00	2.00	79.50	43.40	7.50	12.50	264.68	7.34	41.00	£4.69
HPCCD2265	14.50	2.00	22.50	11.70	9.90	15.10	211.57	19.93	11.00	£4.69
HPCCD2266	14.50	2.00	33.00	16.40	9.90	15.10	211.57	12.66	15.00	£4.69
HPCCD2267	14.50	2.00	49.50	23.50	9.90	15.10	211.57	8.17	21.00	£4.69
HPCCD2268	14.50	2.00	71.00	33.00	9.90	15.10	211.57	5.57	29.00	£5.16
HPCCD2269	14.50	2.00	105.00	47.20	9.90	15.10	211.57	3.77	41.00	£5.16



Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

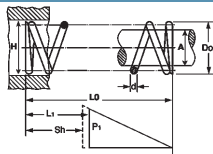
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm	Solid Height Sh	Price Each 1-5
HPCCD2270	18.00	2.00	30.00	12.50	13.40	18.60	165.01	9.48	11.00	£4.69
HPCCD2271	18.00	2.00	45.00	17.70	13.40	18.60	165.01	6.03	15.00	£4.69
HPCCD2272	18.00	2.00	68.00	25.50	13.40	18.60	165.01	3.91	21.00	£4.69
HPCCD2273	18.00	2.00	98.00	35.90	13.40	18.60	165.01	2.68	29.00	£4.69
HPCCD2274	18.00	2.00	145.00	51.40	13.40	18.60	165.01	1.80	41.00	£5.16
HPCCD2275	22.00	2.00	41.00	13.60	17.10	22.90	132.34	4.86	11.00	£4.69
HPCCD2276	22.00	2.00	62.00	19.20	17.10	22.90	132.34	3.09	15.00	£4.69
HPCCD2277	22.00	2.00	94.00	27.60	17.10	22.90	132.34	1.99	21.00	£4.69
HPCCD2278	22.00	2.00	135.00	38.80	17.10	22.90	132.34	1.36	29.00	£5.16
HPCCD2279	22.00	2.00	200.00	55.60	17.10	22.90	132.34	0.92	41.00	£6.79
HPCCD2280	27.00	2.00	58.00	15.00	22.00	27.90	106.20	2.48	11.00	£4.69
HPCCD2281	27.00	2.00	88.50	21.40	22.00	27.90	106.20	1.58	15.00	£5.16
HPCCD2282	27.00	2.00	135.00	31.00	22.00	27.90	106.20	1.02	21.00	£5.16
HPCCD2283	27.00	2.00	195.00	43.80	22.00	27.90	106.20	0.69	29.00	£6.79
HPCCD2284	27.00	2.00	290.00	63.00	22.00	27.90	106.20	0.47	41.00	£6.79
HPCCD2285	11.00	2.20	16.20	12.90	6.00	11.60	281.01	83.32	12.10	£6.79
HPCCD2286	11.00	2.20	23.00	17.70	6.00	11.60	281.01	52.94	16.50	£6.79
HPCCD2287	11.00	2.20	36.50	27.40	6.00	11.60	281.01	30.71	25.30	£6.79
HPCCD2288	11.00	2.20	56.80	41.90	6.00	11.60	281.01	18.79	38.50	£6.79
HPCCD2289	15.00	2.20	20.00	12.90	10.00	15.60	214.02	27.04	12.10	£6.79
HPCCD2290	15.00	2.20	30.20	17.70	10.00	15.60	214.02	17.23	16.50	£6.79
HPCCD2291	15.00	2.20	48.90	27.40	10.00	15.60	214.02	9.96	25.30	£6.79
HPCCD2292	24.00	2.20	39.20	14.00	18.90	24.70	138.05	5.47	12.10	£6.79
HPCCD2293	24.00	2.20	59.10	19.50	18.90	24.70	138.05	3.49	16.50	£6.79
HPCCD2294	15.00	2.50	22.00	14.00	9.40	15.60	389.66	48.61	13.80	£7.67
HPCCD2295	15.00	2.50	32.00	19.50	9.40	15.60	389.66	30.96	18.80	£7.67

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2296	15.00	2.50	47.50	27.80	9.40	15.60	389.66	20.02	26.30	£7.67
HPCCD2297	15.00	2.50	67.50	38.70	9.40	15.60	389.66	13.56	36.30	£7.67
HPCCD2298	15.00	2.50	98.00	55.10	9.40	15.60	389.66	9.15	51.30	£7.67
HPCCD2299	18.50	2.50	27.50	14.60	12.90	19.10	303.89	23.12	13.80	£7.67
HPCCD2300	18.50	2.50	41.00	20.50	12.90	19.10	303.89	14.70	18.80	£7.67
HPCCD2301	18.50	2.50	61.00	29.30	12.90	19.10	303.89	9.55	26.30	£7.67
HPCCD2302	18.50	2.50	88.00	41.10	12.90	19.10	303.89	6.48	36.30	£7.67
HPCCD2303	18.50	2.50	130.00	58.90	12.90	19.10	303.89	4.37	51.30	£7.67
HPCCD2304	22.50	2.50	36.00	15.50	16.80	23.20	243.44	11.85	13.80	£7.67
HPCCD2305	22.50	2.50	54.00	21.90	16.80	23.20	243.44	7.54	18.80	£7.67
HPCCD2306	22.50	2.50	81.50	31.50	16.80	23.20	243.44	4.87	26.30	£7.67
HPCCD2307	22.50	2.50	120.00	44.30	16.80	23.20	243.44	3.32	36.30	£7.67
HPCCD2308	22.50	2.50	175.00	63.60	16.80	23.20	243.44	2.24	51.30	£7.67
HPCCD2309	27.50	2.50	49.00	16.80	21.60	28.40	194.42	6.07	13.80	£6.79
HPCCD2310	27.50	2.50	74.50	24.00	21.60	28.40	194.42	3.87	18.80	£6.79
HPCCD2311	27.50	2.50	115.00	34.80	21.60	28.40	194.42	2.50	26.30	£6.79
HPCCD2312	27.50	2.50	165.00	49.20	21.60	28.40	194.42	1.70	36.30	£7.67
HPCCD2313	27.50	2.50	240.00	70.80	21.60	28.40	194.42	1.15	51.30	£11.58
HPCCD2314	34.50	2.50	71.50	19.30	28.30	35.70	151.94	2.90	13.80	£7.67
HPCCD2315	34.50	2.50	110.00	27.90	28.30	35.70	151.94	1.85	18.80	£7.67
HPCCD2316	34.50	2.50	170.00	41.00	28.30	35.70	151.94	1.19	26.30	£7.67
HPCCD2317	34.50	2.50	245.00	58.10	28.30	35.70	151.94	0.81	36.30	£7.67
HPCCD2318	34.50	2.50	360.00	83.90	28.30	35.70	151.94	0.55	51.30	£11.58
HPCCD2319	14.00	2.80	20.50	16.40	7.80	14.60	432.14	106.20	15.40	£7.67
HPCCD2320	14.00	2.80	29.00	22.30	7.80	14.60	432.14	52.36	21.00	£7.67
HPCCD2321	14.00	2.80	45.90	34.90	7.80	14.60	432.14	39.05	32.20	£7.67
HPCCD2322	14.00	2.80	71.40	53.30	7.80	14.60	432.14	23.93	49.00	£7.67
HPCCD2323	20.00	2.80	27.20	16.40	13.80	20.60	316.14	29.25	15.40	£7.67
HPCCD2324	20.00	2.80	39.50	22.50	13.80	20.60	316.14	18.63	21.00	£7.67
HPCCD2325	20.00	2.80	64.20	34.90	13.80	20.60	316.14	10.78	32.20	£7.67
HPCCD2326	30.00	2.80	47.00	17.90	23.70	30.70	215.68	7.40	15.40	£7.67
HPCCD2327	30.00	2.80	70.70	24.90	23.70	30.70	215.68	4.71	21.00	£7.67
HPCCD2328	19.20	3.20	27.50	17.80	12.20	19.80	600.42	61.92	17.60	£9.55
HPCCD2329	19.20	3.20	40.00	24.90	12.20	19.80	600.42	39.46	24.00	£9.55
HPCCD2330	19.20	3.20	59.00	35.40	12.20	19.80	600.42	25.56	33.60	£9.55
HPCCD2331	19.20	3.20	83.50	49.00	12.20	19.80	600.42	17.32	46.40	£9.55
HPCCD2332	19.20	3.20	120.00	69.40	12.20	19.80	600.42	11.76	65.60	£9.55
HPCCD2333	23.20	3.20	33.50	18.50	16.10	23.90	480.33	31.78	17.60	£9.55
HPCCD2334	23.20	3.20	49.50	25.90	16.10	23.90	480.33	20.18	24.00	£9.55



Mechanical Compression Springs

Materials
Stainless Steel
DIN 17224



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size Bore	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2335	23.20	3.20	74.00	37.10	16.10	23.90	480.33	13.07	33.60	£9.55
HPCCD2336	23.20	3.20	105.00	51.60	16.10	23.90	480.33	8.90	46.40	£9.55
HPCCD2337	23.20	3.20	155.00	73.20	16.10	23.90	480.33	6.01	65.60	£9.55
HPCCD2338	28.20	3.20	42.50	19.10	21.10	28.90	383.94	16.18	17.60	£9.55
HPCCD2339	28.20	3.20	63.50	26.30	21.10	28.90	383.94	10.30	24.00	£9.55
HPCCD2340	28.20	3.20	94.50	37.10	21.10	28.90	383.94	6.68	33.60	£9.55
HPCCD2341	28.20	3.20	135.00	51.60	21.10	28.90	383.94	4.54	46.40	£9.55
HPCCD2342	28.20	3.20	200.00	73.20	21.10	28.90	383.94	3.07	65.60	£14.30
HPCCD2343	35.20	3.20	58.50	19.80	27.60	36.40	300.61	7.76	17.60	£9.55
HPCCD2344	35.20	3.20	88.50	27.40	27.60	36.40	300.61	4.93	24.00	£9.55
HPCCD2345	35.20	3.20	135.00	38.80	27.60	36.40	300.61	3.18	33.60	£11.58
HPCCD2346	35.20	3.20	190.00	54.10	27.60	36.40	300.61	2.17	46.40	£14.30
HPCCD2347	35.20	3.20	280.00	77.00	27.60	36.40	300.61	1.47	65.60	£17.41
HPCCD2348	43.20	3.20	82.00	21.20	35.60	44.40	240.17	3.97	17.60	£9.55
HPCCD2349	43.20	3.20	125.00	29.70	35.60	44.40	240.17	2.52	24.00	£9.55
HPCCD2350	43.20	3.20	190.00	42.30	35.60	44.40	240.17	1.63	33.60	£9.55
HPCCD2351	43.20	3.20	275.00	59.20	35.60	44.40	240.17	1.11	46.40	£11.58
HPCCD2352	43.20	3.20	405.00	84.50	35.60	44.40	240.17	0.75	65.60	£14.30
HPCCD2353	24.00	4.00	33.50	22.20	15.30	24.70	890.41	77.53	22.00	£12.74
HPCCD2354	24.00	4.00	49.00	31.00	15.30	24.70	890.41	49.34	30.00	£12.74
HPCCD2355	24.00	4.00	72.00	44.20	15.30	24.70	890.41	31.94	42.00	£12.74
HPCCD2356	24.00	4.00	105.00	61.70	15.30	24.70	890.41	21.73	58.00	£12.74
HPCCD2357	24.00	4.00	150.00	87.70	15.30	24.70	890.41	14.62	82.00	£12.74
HPCCD2358	29.00	4.00	41.00	22.90	20.30	29.70	709.88	39.70	22.00	£12.74
HPCCD2359	29.00	4.00	60.50	32.20	20.30	29.70	709.88	25.24	30.00	£12.74
HPCCD2360	29.00	4.00	89.50	46.00	20.30	29.70	709.88	16.34	42.00	£12.74

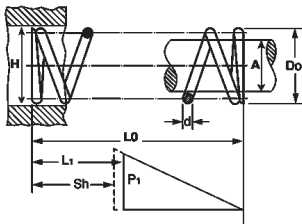
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCCD2361	29.00	4.00	130.00	64.50	20.30	29.70	709.88	11.11	58.00	£12.74
HPCCD2362	29.00	4.00	185.00	92.10	20.30	29.70	709.88	7.51	82.00	£15.79
HPCCD2363	36.00	4.00	53.50	24.00	27.00	37.00	554.67	18.95	22.00	£12.74
HPCCD2364	36.00	4.00	79.50	33.30	27.00	37.00	554.67	12.01	30.00	£12.74
HPCCD2365	36.00	4.00	120.00	47.20	27.00	37.00	554.67	7.79	42.00	£12.74
HPCCD2366	36.00	4.00	170.00	65.80	27.00	37.00	554.67	5.29	58.00	£15.79
HPCCD2367	36.00	4.00	250.00	93.60	27.00	37.00	554.67	3.58	82.00	£15.79
HPCCD2368	44.00	4.00	71.00	25.20	34.80	45.20	443.57	9.72	22.00	£12.74
HPCCD2369	44.00	4.00	105.00	35.10	34.80	45.20	443.57	6.16	30.00	£12.74
HPCCD2370	44.00	4.00	160.00	50.00	34.80	45.20	443.57	3.99	42.00	£12.74
HPCCD2371	44.00	4.00	235.00	69.80	34.80	45.20	443.57	2.72	58.00	£15.79
HPCCD2372	44.00	4.00	340.00	99.60	34.80	45.20	443.57	1.83	82.00	£20.55
HPCCD2373	54.00	4.00	99.00	27.40	44.00	56.00	355.35	4.96	22.00	£11.58
HPCCD2374	54.00	4.00	150.00	38.60	44.00	56.00	355.35	3.16	30.00	£12.74
HPCCD2375	54.00	4.00	230.00	55.40	44.00	56.00	355.35	2.04	42.00	£17.41
HPCCD2376	54.00	4.00	335.00	77.80	44.00	56.00	355.35	1.39	58.00	£18.94
HPCCD2377	54.00	4.00	490.00	111.00	44.00	56.00	355.35	0.94	82.00	£22.21
HPCCD2378	30.00	5.00	41.00	27.60	19.30	30.70	1307.03	97.21	27.50	£11.58
HPCCD2379	30.00	5.00	60.00	38.50	19.30	30.70	1307.03	61.68	37.50	£11.58
HPCCD2380	30.00	5.00	87.50	54.90	19.30	30.70	1307.03	39.87	52.50	£12.74
HPCCD2381	30.00	5.00	125.00	76.70	19.30	30.70	1307.03	27.15	72.50	£12.74
HPCCD2382	30.00	5.00	180.00	109.00	19.30	30.70	1307.03	18.30	102.50	£18.94
HPCCD2383	37.00	5.00	51.00	28.70	26.00	38.00	1021.12	46.16	27.50	£11.58
HPCCD2384	37.00	5.00	75.00	40.20	26.00	38.00	1021.12	29.40	37.50	£12.74
HPCCD2385	37.00	5.00	110.00	57.50	26.00	38.00	1021.12	19.03	52.50	£12.74
HPCCD2386	37.00	5.00	160.00	80.50	26.00	38.00	1021.12	12.90	72.50	£18.94
HPCCD2387	37.00	5.00	230.00	115.00	26.00	38.00	1021.12	8.74	102.50	£18.94
HPCCD2388	45.00	5.00	64.00	29.60	34.00	46.00	816.90	23.61	27.50	£12.74
HPCCD2389	45.00	5.00	95.50	41.10	34.00	46.00	816.90	15.03	37.50	£12.74
HPCCD2390	45.00	5.00	140.00	58.40	34.00	46.00	816.90	9.72	52.50	£18.94
HPCCD2391	45.00	5.00	205.00	81.40	34.00	46.00	816.90	6.61	72.50	£18.94
HPCCD2392	45.00	5.00	300.00	116.00	34.00	46.00	816.90	4.46	102.50	£18.94
HPCCD2393	55.00	5.00	85.00	30.90	43.00	57.00	653.51	12.09	27.50	£12.74

'Never Knowingly Outpriced'



Mechanical Compression Springs

Materials
Music Wire
DIN 17223



DISCOUNTS

	List Price
1 - 5	
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

COMPRESSION SPRINGS

Our compression springs provide design engineers, draughtsmen, production and maintenance departments with precision engineered springs in an economical and time-saving way. Our service saves time and therefore money, as design work and calculations are no longer required.

KEY TO MEASUREMENTS

- DO** = Outside diameter mm.
- d** = Wire diameter mm
- L0** = Free length mm.
- L1** = Loaded length (min. working length)
- A** = To work over axle size mm.
- H** = To work in hole size mm.
- P1** = Load at L1 Newtons.
- R** = Rate N/mm.
- Sh** = Approx solid height mm.
- Lx** = Spring compression length mm.

ADDITIONAL TECHNICAL DATA

Materials

MUSIC WIRE to DIN 17223. Class C. No 1,1200. BS5216 ND3 or HD3-AMS 5112. Commercial 302 AMS 5688 spring temper.

Coiled

Right hand.

Ends

Wire up to 0.8mm, squared and unground.

Wire over 1.0mm, squared and ground.

tolerances

All dimensions and forces to DIN 2095 (Grade 2).

Loads

Load values shown are based on a service life of 50,000 cycles at 0.50 stress range. For normal service, springs should not be compressed below L1.

Surface finish

Normal wire oiled. Shot-peened and plated finishes supplied on request.

Allow sufficient time for special finishes.

To determine the load at any working length use rate proposed deflection.

$P1 = (L0 - Lx) \times R$ where Lx is spring compression length. Reference only.

1 lb = 4.448 Newtons

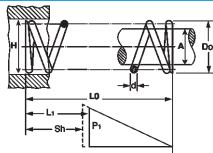
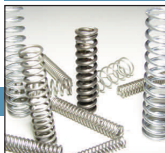
1 Newton = 0.225 lb

1 kg. = 9.80665 Newtons

1 Newton = 0.10197 kg

Mechanical Compression Springs

Materials
Music Wire
DIN 17223



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

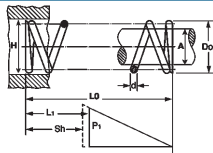
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCD1090	2.90	0.40	4.30	2.80	1.80	3.30	7.16	4.77	2.60	£1.83
HPCD1091	2.90	0.40	6.30	3.90	1.80	3.30	7.16	3.04	3.40	£1.83
HPCD1092	2.90	0.40	9.10	5.40	1.80	3.30	7.16	1.96	4.60	£1.83
HPCD1093	2.90	0.40	13.00	7.50	1.80	3.30	7.16	1.33	6.20	£1.83
HPCD1094	2.90	0.40	18.50	10.60	1.80	3.30	7.16	0.90	8.60	£1.83
HPCD1095	3.60	0.40	5.60	2.80	2.50	4.00	6.37	2.28	2.60	£1.83
HPCD1096	3.60	0.40	8.30	3.90	2.50	4.00	6.37	1.45	3.40	£1.83
HPCD1097	3.60	0.40	12.00	5.40	2.50	4.00	6.37	0.94	4.60	£1.83
HPCD1098	3.60	0.40	17.50	7.50	2.50	4.00	6.37	0.64	6.20	£1.83
HPCD1099	3.60	0.40	25.50	10.60	2.50	4.00	6.37	0.43	8.60	£1.83
HPCD1100	4.40	0.40	7.50	3.00	3.20	5.00	5.25	1.17	2.60	£1.83
HPCD1101	4.40	0.40	11.00	4.10	3.20	5.00	5.25	0.74	3.40	£1.83
HPCD1102	4.40	0.40	16.50	5.80	3.20	5.00	5.25	0.48	4.60	£1.83
HPCD1103	4.40	0.40	24.00	8.00	3.20	5.00	5.25	0.32	6.20	£1.83
HPCD1104	4.40	0.40	35.50	11.40	3.20	5.00	5.25	0.22	8.60	£1.83
HPCD1105	5.40	0.40	10.50	3.20	4.10	6.00	4.36	0.60	2.60	£1.83
HPCD1106	5.40	0.40	16.00	4.50	4.10	6.00	4.36	0.38	3.40	£1.83
HPCD1107	5.40	0.40	24.00	6.40	4.10	6.00	4.36	0.25	4.60	£1.83
HPCD1108	5.40	0.40	35.00	9.00	4.10	6.00	4.36	0.17	6.20	£1.83
HPCD1109	5.40	0.40	53.00	12.80	4.10	6.00	4.36	0.11	8.60	£1.83
HPCD1110	3.00	0.50	4.40	3.50	1.70	3.40	10.40	11.58	3.30	£1.83
HPCD1111	3.00	0.50	6.10	4.70	1.70	3.40	10.40	7.42	4.30	£1.83
HPCD1112	3.00	0.50	8.70	6.50	1.70	3.40	10.40	4.80	5.80	£1.83
HPCD1113	3.00	0.50	12.00	9.00	1.70	3.40	10.40	3.27	7.80	£1.83
HPCD1114	3.00	0.50	17.50	12.80	1.70	3.40	10.40	2.21	10.80	£1.83
HPCD1115	3.70	0.50	5.50	3.70	2.40	4.10	10.00	5.57	3.30	£1.83
HPCD1116	3.70	0.50	7.90	5.10	2.40	4.10	10.00	3.53	4.30	£1.83

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCD1117	3.70	0.50	11.50	7.10	2.40	4.10	10.00	2.28	5.80	£1.83
HPCD1118	3.70	0.50	16.00	9.80	2.40	4.10	10.00	1.56	7.80	£1.83
HPCD1119	3.70	0.50	23.50	14.00	2.40	4.10	10.00	1.05	10.80	£1.83
HPCD1120	4.50	0.50	7.00	3.70	3.20	5.00	9.32	2.83	3.30	£1.83
HPCD1121	4.50	0.50	10.00	5.10	3.20	5.00	9.32	1.81	4.30	£1.83
HPCD1122	4.50	0.50	15.00	7.10	3.20	5.00	9.32	1.17	5.80	£1.83
HPCD1123	4.50	0.50	21.50	9.80	3.20	5.00	9.32	0.79	7.80	£1.83
HPCD1124	4.50	0.50	31.00	14.00	3.20	5.00	9.32	0.54	10.80	£1.83
HPCD1125	5.50	0.50	9.40	3.90	4.00	6.20	8.04	1.46	3.30	£1.83
HPCD1126	5.50	0.50	14.00	5.40	4.00	6.20	8.04	0.93	4.30	£1.83
HPCD1127	5.50	0.50	20.50	7.60	4.00	6.20	8.04	0.61	5.80	£1.83
HPCD1128	5.50	0.50	30.00	10.60	4.00	6.20	8.04	0.41	7.80	£1.83
HPCD1129	5.50	0.50	44.50	15.10	4.00	6.20	8.04	0.27	10.80	£1.83
HPCD1130	6.80	0.50	13.50	4.30	5.30	7.50	6.57	0.73	3.30	£1.83
HPCD1131	6.80	0.50	20.00	6.00	5.30	7.50	6.57	0.46	4.30	£1.83
HPCD1132	6.80	0.50	30.00	8.70	5.30	7.50	6.57	0.30	5.80	£1.83
HPCD1133	6.80	0.50	44.00	12.20	5.30	7.50	6.57	0.21	7.80	£1.83
HPCD1134	6.80	0.50	65.00	17.40	5.30	7.50	6.57	0.14	10.80	£1.83
HPCD1135	3.83	0.63	5.50	4.00	2.30	4.20	20.99	14.02	4.10	£1.83
HPCD1136	3.83	0.63	7.80	5.40	2.30	4.20	20.99	8.90	5.40	£1.83
HPCD1137	3.83	0.63	11.00	7.50	2.30	4.20	20.99	5.77	7.30	£1.83
HPCD1138	3.83	0.63	15.50	10.30	2.30	4.20	20.99	3.93	9.80	£1.83
HPCD1139	3.83	0.63	22.50	14.70	2.30	4.20	20.99	2.65	13.50	£1.83
HPCD1140	4.63	0.63	6.70	4.30	3.00	5.00	17.16	7.16	4.10	£1.83
HPCD1141	4.63	0.63	9.60	5.80	3.00	5.00	17.16	4.55	5.40	£1.83
HPCD1142	4.63	0.63	14.00	8.20	3.00	5.00	17.16	2.94	7.30	£1.83
HPCD1143	4.63	0.63	20.00	11.30	3.00	5.00	17.16	2.00	9.80	£1.83
HPCD1144	4.63	0.63	29.00	16.20	3.00	5.00	17.16	1.35	13.50	£1.83
HPCD1145	5.63	0.63	8.50	4.30	3.90	6.10	15.49	3.69	4.10	£1.83
HPCD1146	5.63	0.63	12.50	5.80	3.90	6.10	15.49	2.35	5.40	£1.83
HPCD1147	5.63	0.63	18.50	8.20	3.90	6.10	15.49	1.55	7.30	£1.83
HPCD1148	5.63	0.63	26.00	11.30	3.90	6.10	15.49	1.03	9.80	£1.83
HPCD1149	5.63	0.63	38.50	16.20	3.90	6.10	15.49	0.70	13.50	£1.83
HPCD1150	6.93	0.63	11.50	4.60	5.00	7.60	12.45	1.83	4.10	£1.83
HPCD1151	6.93	0.63	17.00	6.20	5.00	7.60	12.45	1.17	5.40	£1.83
HPCD1152	6.93	0.63	25.50	8.90	5.00	7.60	12.45	0.76	7.30	£1.83
HPCD1153	6.93	0.63	36.50	12.30	5.00	7.60	12.45	0.51	9.80	£1.83
HPCD1154	6.93	0.63	54.00	17.70	5.00	7.60	12.45	0.34	13.50	£1.83
HPCD1155	8.63	0.63	16.00	5.10	6.80	9.40	10.00	0.89	4.10	£1.83
HPCD1156	8.63	0.63	24.50	7.10	6.80	9.40	10.00	0.57	5.40	£1.83



Mechanical Compression Springs

Materials
Music Wire
DIN 17223



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

PART NUMBER	Outside \varnothing D0	\varnothing Wire d	Free Length L0	Loaded Length L1	Axle \varnothing Size A	Bore \varnothing Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCD1157	8.63	0.63	37.00	10.20	6.80	9.40	10.00	0.37	7.30	£1.83
HPCD1158	8.63	0.63	55.00	14.30	6.80	9.40	10.00	0.25	9.80	£1.83
HPCD1159	8.63	0.63	80.50	20.60	6.80	9.40	10.00	0.17	13.50	£1.83
HPCD1160	4.80	0.80	6.90	5.20	2.80	5.30	31.87	18.53	5.20	£1.83
HPCD1161	4.80	0.80	9.70	7.00	2.80	5.30	31.87	11.87	6.80	£1.83
HPCD1162	4.80	0.80	14.00	9.80	2.80	5.30	31.87	7.67	9.20	£1.83
HPCD1163	4.80	0.80	19.50	13.50	2.80	5.30	31.87	5.22	12.40	£1.83
HPCD1164	4.80	0.80	28.00	19.10	2.80	5.30	31.87	3.52	17.20	£1.83
HPCD1165	5.80	0.80	8.30	5.60	3.80	6.30	25.99	9.53	5.20	£1.83
HPCD1166	5.80	0.80	12.00	7.70	3.80	6.30	25.99	6.07	6.80	£1.83
HPCD1167	5.80	0.80	17.50	10.90	3.80	6.30	25.99	3.92	9.20	£1.83
HPCD1168	5.80	0.80	24.50	15.10	3.80	6.30	25.99	2.67	12.40	£1.83
HPCD1169	5.80	0.80	36.00	21.50	3.80	6.30	25.99	1.80	17.20	£1.83
HPCD1170	7.10	0.80	10.50	5.60	5.00	7.70	24.03	4.77	5.20	£1.83
HPCD1171	7.10	0.80	15.50	7.70	5.00	7.70	24.03	3.03	6.80	£1.83
HPCD1172	7.10	0.80	23.00	10.90	5.00	7.70	24.03	1.96	9.20	£1.83
HPCD1173	7.10	0.80	33.00	15.10	5.00	7.70	24.03	1.33	12.40	£1.83
HPCD1174	7.10	0.80	48.00	21.50	5.00	7.70	24.03	0.90	17.20	£1.83
HPCD1175	8.80	0.80	14.50	6.10	6.60	9.60	19.52	2.32	5.20	£1.83
HPCD1176	8.80	0.80	21.50	8.40	6.60	9.60	19.52	1.48	6.80	£1.83
HPCD1177	8.80	0.80	32.00	12.00	6.60	9.60	19.52	0.96	9.20	£1.83
HPCD1178	8.80	0.80	47.00	16.70	6.60	9.60	19.52	0.65	12.40	£1.83
HPCD1179	8.80	0.80	68.00	23.80	6.60	9.60	19.52	0.44	17.20	£1.83
HPCD1180	10.80	0.80	20.00	6.90	8.60	11.60	15.40	1.20	5.20	£1.83
HPCD1181	10.80	0.80	30.00	9.80	8.60	11.60	15.40	0.76	6.80	£1.83
HPCD1182	10.80	0.80	45.50	14.30	8.60	11.60	15.40	0.49	9.20	£1.83
HPCD1183	10.80	0.80	66.00	19.90	8.60	11.60	15.40	0.33	12.40	£1.83

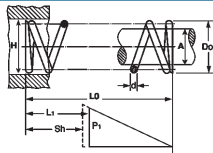
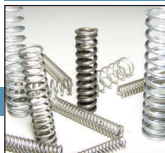
PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCD1184	10.80	0.80	96.50	28.50	8.60	11.60	15.40	0.23	17.20	£1.83
HPCD1185	6.00	1.00	8.50	6.60	3.60	6.50	43.74	23.24	5.50	£3.16
HPCD1186	6.00	1.00	12.00	9.00	3.60	6.50	43.74	14.81	7.50	£3.16
HPCD1187	6.00	1.00	17.00	12.60	3.60	6.50	43.74	9.57	10.50	£3.16
HPCD1188	6.00	1.00	24.00	17.40	3.60	6.50	43.74	6.51	14.50	£3.16
HPCD1189	6.00	1.00	34.50	24.60	3.60	6.50	43.74	4.40	20.50	£3.16
HPCD1190	7.30	1.00	10.00	7.00	4.90	7.80	34.60	11.57	5.50	£3.16
HPCD1191	7.30	1.00	14.50	9.80	4.90	7.80	34.60	7.39	7.50	£3.16
HPCD1192	7.30	1.00	21.50	14.30	4.90	7.80	34.60	4.79	10.50	£3.16
HPCD1193	7.30	1.00	30.50	19.90	4.90	7.80	34.60	3.26	14.50	£3.16
HPCD1194	7.30	1.00	43.50	28.30	4.90	7.80	34.60	2.20	20.50	£3.16
HPCD1195	9.00	1.00	13.00	7.30	6.50	9.60	32.36	5.68	5.50	£3.16
HPCD1196	9.00	1.00	19.00	10.10	6.50	9.60	32.36	3.61	7.50	£3.16
HPCD1197	9.00	1.00	28.50	14.60	6.50	9.60	32.36	2.33	10.50	£3.16
HPCD1198	9.00	1.00	40.50	20.10	6.50	9.60	32.36	1.59	14.50	£3.16
HPCD1199	9.00	1.00	59.00	28.90	6.50	9.60	32.36	1.08	20.50	£3.16
HPCD1200	11.00	1.00	17.50	8.00	8.40	11.80	27.36	2.90	5.50	£3.16
HPCD1201	11.00	1.00	26.00	11.20	8.40	11.80	27.36	1.85	7.50	£3.16
HPCD1202	11.00	1.00	39.00	16.00	8.40	11.80	27.36	1.20	10.50	£3.16
HPCD1203	11.00	1.00	56.00	22.40	8.40	11.80	27.36	0.81	14.50	£3.16
HPCD1204	11.00	1.00	81.50	32.00	8.40	11.80	27.36	0.55	20.50	£3.16
HPCD1205	13.50	1.00	24.00	9.40	10.80	14.40	21.97	1.49	5.50	£3.16
HPCD1206	13.50	1.00	36.50	13.40	10.80	14.40	21.97	0.95	7.50	£3.16
HPCD1207	13.50	1.00	55.50	19.40	10.80	14.40	21.97	0.61	10.50	£3.16
HPCD1208	13.50	1.00	80.50	27.40	10.80	14.40	21.97	0.41	14.50	£3.16
HPCD1209	13.50	1.00	115.00	39.40	10.80	14.40	21.97	0.28	20.50	£3.16
HPCD1210	7.55	1.25	12.00	7.20	4.70	8.10	133.37	29.03	6.90	£3.16
HPCD1211	7.55	1.25	17.00	9.80	4.70	8.10	133.37	18.04	9.40	£3.16
HPCD1212	7.55	1.25	25.00	13.80	4.70	8.10	133.37	11.77	13.10	£3.16
HPCD1213	7.55	1.25	35.50	19.20	4.70	8.10	133.37	8.09	18.10	£3.16
HPCD1214	7.55	1.25	51.50	27.10	4.70	8.10	133.37	5.39	25.60	£3.16
HPCD1215	9.25	1.25	15.00	7.40	6.10	9.60	104.93	14.32	6.90	£3.16
HPCD1216	9.25	1.25	22.00	10.50	6.10	9.60	104.93	8.92	9.40	£3.16
HPCD1217	9.25	1.25	33.00	14.90	6.10	9.60	104.93	5.83	13.10	£3.16
HPCD1218	9.25	1.25	47.50	21.00	6.10	9.60	104.93	3.96	18.10	£3.16
HPCD1219	9.25	1.25	69.00	30.00	6.10	9.60	104.93	2.69	25.60	£3.16
HPCD1220	11.25	1.25	20.00	7.70	8.20	11.90	85.42	7.09	6.90	£3.16
HPCD1221	11.25	1.25	29.50	10.80	8.20	11.90	85.42	4.51	9.40	£3.16
HPCD1222	11.25	1.25	44.50	15.20	8.20	11.90	85.42	2.92	13.10	£3.16
HPCD1223	11.25	1.25	64.00	21.10	8.20	11.90	85.42	1.99	18.10	£3.16



Mechanical Compression Springs

Materials

Music Wire DIN 17223



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Compression Springs

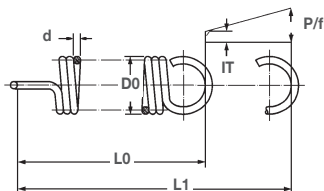
PART NUMBER	Outside \varnothing D0	\varnothing Wire d	Free Length L0	Loaded Length L1	Axle \varnothing Size A	Bore \varnothing Size H	Load at L1 N P1	Rate N/mm	Solid Height Sh	Price Each 1-5
HPCD1224	11.25	1.25	93.50	30.00	8.20	11.90	85.42	1.34	25.60	£3.16
HPCD1225	13.75	1.25	27.00	8.20	10.60	14.60	69.04	3.63	6.90	£3.16
HPCD1226	13.75	1.25	41.50	11.60	10.60	14.60	69.04	2.31	9.40	£3.16
HPCD1227	13.75	1.25	62.50	16.50	10.60	14.60	69.04	1.49	13.10	£3.16
HPCD1228	13.75	1.25	90.50	23.10	10.60	14.60	69.04	1.02	18.10	£3.16
HPCD1229	13.75	1.25	130.00	32.90	10.60	14.60	69.04	0.69	25.60	£3.16
HPCD1230	17.25	1.25	40.50	9.10	14.10	18.20	54.23	1.73	6.90	£3.16
HPCD1231	17.25	1.25	62.00	12.90	14.10	18.20	54.23	1.10	9.40	£3.16
HPCD1232	17.25	1.25	94.00	18.50	14.10	18.20	54.23	0.72	13.10	£3.16
HPCD1233	17.25	1.25	140.00	26.00	14.10	18.20	54.23	0.48	18.10	£3.16
HPCD1234	17.25	1.25	205.00	37.30	14.10	18.20	54.23	0.32	25.60	£3.16
HPCD1235	9.60	1.60	14.50	9.00	5.90	10.10	211.82	37.27	8.80	£3.94
HPCD1236	9.60	1.60	21.50	12.60	5.90	10.10	211.82	23.73	12.00	£3.94
HPCD1237	9.60	1.60	31.50	17.90	5.90	10.10	211.82	15.40	16.80	£3.94
HPCD1238	9.60	1.60	45.00	24.80	5.90	10.10	211.82	10.40	23.20	£3.94
HPCD1239	9.60	1.60	65.50	35.20	5.90	10.10	211.82	7.05	32.80	£3.94
HPCD1240	11.60	1.60	18.50	9.40	7.90	12.10	169.66	19.12	8.80	£3.94
HPCD1241	11.60	1.60	27.00	13.20	7.90	12.10	169.66	12.16	12.00	£3.94
HPCD1242	11.60	1.60	40.50	18.90	7.90	12.10	169.66	7.87	16.80	£3.94
HPCD1243	11.60	1.60	58.50	26.50	7.90	12.10	169.66	5.33	23.20	£3.94
HPCD1244	11.60	1.60	85.00	37.90	7.90	12.10	169.66	3.61	32.80	£3.94
HPCD1245	14.10	1.60	24.00	10.00	10.30	14.70	135.33	9.76	8.80	£3.94
HPCD1246	14.10	1.60	36.00	14.10	10.30	14.70	135.33	6.23	12.00	£3.94
HPCD1247	14.10	1.60	53.50	20.10	10.30	14.70	135.33	4.04	16.80	£3.94
HPCD1248	14.10	1.60	78.00	28.00	10.30	14.70	135.33	2.73	23.20	£3.94
HPCD1249	14.10	1.60	115.00	39.90	10.30	14.70	135.33	1.84	32.80	£3.94
HPCD1250	17.60	1.60	34.00	11.00	13.70	18.30	105.91	4.65	8.80	£3.94
HPCD1251	17.60	1.60	51.50	15.50	13.70	18.30	105.91	2.96	12.00	£3.94

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Loaded Length L1	Axle Ø Size A	Bore Ø Size H	Load at L1 N P1	Rate N/mm R	Solid Height Sh	Price Each 1-5
HPCD1252	17.60	1.60	77.50	22.20	13.70	18.30	105.91	1.92	16.80	£3.94
HPCD1253	17.60	1.60	110.00	31.20	13.70	18.30	105.91	1.30	23.20	£3.94
HPCD1254	17.60	1.60	165.00	44.60	13.70	18.30	105.91	0.88	32.80	£3.94
HPCD1255	21.60	1.60	48.00	12.40	17.50	22.50	84.83	2.38	8.80	£3.94
HPCD1256	21.60	1.60	73.50	17.60	17.50	22.50	84.83	1.52	12.00	£3.94
HPCD1257	21.60	1.60	110.00	25.50	17.50	22.50	84.83	0.99	16.80	£3.94
HPCD1258	21.60	1.60	165.00	36.00	17.50	22.50	84.83	0.67	23.20	£3.94
HPCD1259	21.60	1.60	240.00	51.80	17.50	22.50	84.83	0.45	32.80	£3.94
HPCD1260	12.00	2.00	18.00	11.20	7.50	12.50	317.74	46.58	11.00	£3.94
HPCD1261	12.00	2.00	26.50	15.60	7.50	12.50	317.74	29.71	15.00	£3.94
HPCD1262	12.00	2.00	38.50	22.00	7.50	12.50	317.74	19.22	21.00	£3.94
HPCD1263	12.00	2.00	55.00	30.60	7.50	12.50	317.74	13.04	29.00	£3.94
HPCD1264	12.00	2.00	79.50	43.40	7.50	12.50	317.74	8.81	41.00	£3.94
HPCD1265	14.50	2.00	22.50	11.70	9.90	15.10	253.99	23.93	11.00	£3.94
HPCD1266	14.50	2.00	33.00	16.40	9.90	15.10	253.99	15.20	15.00	£3.94
HPCD1267	14.50	2.00	49.50	23.50	9.90	15.10	253.99	9.81	21.00	£3.94
HPCD1268	14.50	2.00	71.00	33.00	9.90	15.10	253.99	6.69	29.00	£3.94
HPCD1269	14.50	2.00	105.00	47.20	9.90	15.10	253.99	4.52	41.00	£3.94
HPCD1270	18.00	2.00	30.00	12.50	13.40	18.60	198.09	11.38	11.00	£3.94
HPCD1271	18.00	2.00	45.00	17.70	13.40	18.60	198.09	7.24	15.00	£3.94
HPCD1272	18.00	2.00	68.00	25.50	13.40	18.60	198.09	4.69	21.00	£3.94
HPCD1273	18.00	2.00	98.00	35.90	13.40	18.60	198.09	3.19	29.00	£3.94
HPCD1274	18.00	2.00	145.00	51.40	13.40	18.60	198.09	2.16	41.00	£3.94
HPCD1275	22.00	2.00	41.00	13.60	17.10	22.90	158.87	5.83	11.00	£3.94
HPCD1276	22.00	2.00	62.00	19.20	17.10	22.90	158.87	3.71	15.00	£3.94
HPCD1277	22.00	2.00	94.00	27.60	17.10	22.90	158.87	2.39	21.00	£3.94
HPCD1278	22.00	2.00	135.00	38.80	17.10	22.90	158.87	1.63	29.00	£3.94
HPCD1279	22.00	2.00	200.00	55.60	17.10	22.90	158.87	1.10	41.00	£3.94
HPCD1280	27.00	2.00	58.00	15.00	22.00	27.90	127.49	2.98	11.00	£3.94
HPCD1281	27.00	2.00	88.50	21.40	22.00	27.90	127.49	1.90	15.00	£3.94
HPCD1282	27.00	2.00	135.00	31.00	22.00	27.90	127.49	1.23	21.00	£3.94
HPCD1283	27.00	2.00	195.00	43.80	22.00	27.90	127.49	0.83	29.00	£3.94
HPCD1284	27.00	2.00	290.00	63.00	22.00	27.90	127.49	0.57	41.00	£3.94
HPCD1285	11.00	2.20	16.20	12.90	6.00	11.60	337.35	100.03	12.10	£3.94
HPCD1286	11.00	2.20	23.00	17.70	6.00	11.60	337.35	63.55	16.50	£3.94
HPCD1287	11.00	2.20	36.50	27.40	6.00	11.60	337.35	36.87	25.30	£3.94
HPCD1288	11.00	2.20	56.80	41.90	6.00	11.60	337.35	22.56	38.50	£3.94
HPCD1289	15.00	2.20	20.00	12.90	10.00	15.60	256.93	32.46	12.10	£3.94
HPCD1290	15.00	2.20	30.20	17.70	10.00	15.60	256.93	20.69	16.50	£3.94
HPCD1291	15.00	2.20	48.90	27.40	10.00	15.60	256.93	11.96	25.30	£3.94
HPCD1292	24.00	2.20	39.20	14.00	18.90	24.70	165.73	6.57	12.10	£3.94



Mechanical Extension Springs

Materials
Stainless Steel



DISCOUNTS

	List Price
1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Extension SPRINGS

Our extension springs have a wide application for experimental, development, prototype and maintenance work and have been specified and designed to high precision standards.

All our extension springs have uniform body diameter and are produced with full twist loops the same diameter as the body.

They are wound with initial tension, therefore some force is required before the coils are initially separated.

KEY TO MEASUREMENTS

D0 = Outside diameter mm.

d = Wire diameter mm

L0 = Free length (ref. use only) mm.

L1 = Maximum extended length mm.

IT = Initial tension load in Newtons.

P1 = Load at L1 Newtons.

P/f = Rate N/mm..

ADDITIONAL TECHNICAL DATA

Materials

STAINLESS STEEL wire to DIN 17224. No. 1,4310.-BS2056 EN58A.
Commercial 302 AMS 5688 spring temper.

Ends

German loops closed. End position will vary.

Loads

Load values shown are for music wire

tolerances

All dimensions and forces to DIN 2097 (Grade 2).

Surface finish

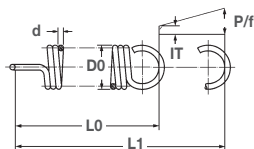
Normal wire oiled. Shot-peened and plated finishes supplied on request.

To determine the load at any working length (use rate x deflection) + initial tension.

1 lb	=	4.448 Newtons
1 Newton	=	0.225 lb
1 kg.	=	9.80665 Newtons
1 Newton	=	0.10197 kg

Mechanical Extension Springs

Materials
Stainless Steel



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical Extension Springs

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCET4080	2.50	0.50	7.90	9.61	2.05	13.42	6.65	£4.04
HPCET4081	2.50	0.50	10.90	13.64	2.05	13.42	4.15	£4.04
HPCET4082	2.50	0.50	15.40	19.68	2.05	13.42	2.66	£4.04
HPCET4083	3.50	0.50	9.50	13.82	1.47	10.00	1.96	£4.04
HPCET4084	3.50	0.50	12.50	19.41	1.47	10.00	1.22	£4.04
HPCET4085	3.50	0.50	17.00	27.80	1.47	10.00	0.78	£4.04
HPCET4086	3.50	0.50	24.50	41.80	1.47	10.00	0.49	£4.04
HPCET4087	3.50	0.50	290.00	500.00	1.47	10.00	0.04	£4.04
HPCET4088	5.50	0.50	12.70	25.80	2.09	7.63	0.42	£4.04
HPCET4089	5.50	0.50	15.70	36.60	2.09	7.63	0.26	£4.04
HPCET4090	5.50	0.50	20.20	52.90	2.09	7.63	0.17	£4.04
HPCET4091	5.50	0.50	27.70	80.00	2.09	7.63	0.11	£4.04
HPCET4092	5.50	0.50	37.70	116.10	2.09	7.63	0.07	£4.04
HPCET4093	2.80	0.55	8.80	10.78	2.33	15.83	6.82	£4.69
HPCET4094	2.80	0.55	12.10	15.27	2.33	15.83	4.26	£4.69
HPCET4095	2.80	0.55	17.00	21.96	2.33	15.83	2.72	£4.69
HPCET4096	3.50	0.55	9.90	13.58	1.98	13.08	3.02	£4.69
HPCET4097	3.50	0.55	13.20	19.09	1.98	13.08	1.89	£4.69
HPCET4098	3.50	0.55	18.10	27.30	1.98	13.08	1.21	£4.69
HPCET4099	3.50	0.55	26.40	41.10	1.98	13.08	0.75	£4.69
HPCET4100	6.00	0.55	13.90	28.00	0.91	7.92	0.48	£4.69
HPCET4101	6.00	0.55	17.20	39.70	0.91	7.92	0.30	£4.69
HPCET4102	6.00	0.55	22.10	57.20	0.91	7.92	0.19	£4.69
HPCET4103	6.00	0.55	30.40	86.60	0.91	7.92	0.12	£4.69
HPCET4104	6.00	0.55	41.40	125.70	0.91	7.92	0.09	£4.69
HPCET4105	3.00	0.63	9.70	11.55	3.49	21.83	10.08	£4.69

6.30



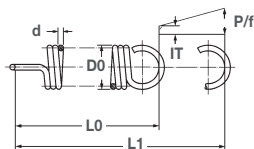
Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCET4106	3.00	0.63	13.50	16.46	3.49	21.83	6.26	£4.69
HPCET4107	3.00	0.63	19.20	23.82	3.49	21.83	4.01	£4.69
HPCET4108	4.50	0.63	12.10	17.75	2.18	15.25	2.31	£4.69
HPCET4109	4.50	0.63	15.90	24.94	2.18	15.25	1.44	£4.69
HPCET4110	4.50	0.63	21.60	35.70	2.18	15.25	0.92	£4.69
HPCET4111	4.50	0.63	31.00	53.60	2.18	15.25	0.58	£4.69
HPCET4112	7.00	0.63	16.10	32.70	1.39	10.17	0.52	£4.69
HPCET4113	7.00	0.63	19.90	46.50	1.39	10.17	0.32	£4.69
HPCET4114	7.00	0.63	25.60	67.20	1.39	10.17	0.21	£4.69
HPCET4115	7.00	0.63	35.00	101.50	1.39	10.17	0.13	£4.69
HPCET4116	7.00	0.63	47.60	147.30	1.39	10.17	0.09	£4.69
HPCET4117	3.50	0.70	11.10	13.46	3.72	25.58	9.25	£4.69
HPCET4118	3.50	0.70	15.30	19.08	3.72	25.58	5.79	£4.69
HPCET4119	3.50	0.70	21.60	27.50	3.72	25.58	3.70	£4.69
HPCET4120	5.00	0.70	13.50	19.75	2.83	18.83	2.56	£4.69
HPCET4121	5.00	0.70	17.70	27.70	2.83	18.83	1.60	£4.69
HPCET4122	5.00	0.70	24.00	39.60	2.83	18.83	1.02	£4.69
HPCET4123	5.00	0.70	34.50	59.50	2.83	18.83	0.64	£4.69
HPCET4124	7.50	0.70	17.50	34.40	1.81	12.83	0.65	£4.69
HPCET4125	7.50	0.70	21.70	48.70	1.81	12.83	0.41	£4.69
HPCET4126	7.50	0.70	28.00	70.20	1.81	12.83	0.26	£4.69
HPCET4127	7.50	0.70	38.50	106.00	1.81	12.83	0.17	£4.69
HPCET4128	7.50	0.70	52.50	153.50	1.81	12.83	0.11	£4.69
HPCET4129	4.00	0.80	12.60	15.26	4.96	33.25	10.58	£4.69
HPCET4130	4.00	0.80	17.40	21.66	4.96	33.25	6.67	£4.69
HPCET4131	4.00	0.80	24.60	31.26	4.96	33.25	4.25	£4.69
HPCET4132	5.50	0.80	15.00	21.40	3.99	25.17	3.33	£4.69
HPCET4133	5.50	0.80	19.80	30.00	3.99	25.17	2.08	£4.69
HPCET4134	5.50	0.80	27.00	43.00	3.99	25.17	1.33	£4.69
HPCET4135	5.50	0.80	39.00	64.60	3.99	25.17	0.83	£4.69
HPCET4136	5.50	0.80	290.00	515.00	3.99	25.17	0.09	£8.43
HPCET4137	9.00	0.80	20.60	42.00	2.28	15.83	0.63	£4.69
HPCET4138	9.00	0.80	25.40	59.70	2.28	15.83	0.39	£4.69

Mechanical Extension Springs

Materials
Stainless Steel



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

Mechanical
Extension Springs

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCET4139	9.00	0.80	32.60	86.10	2.28	15.83	0.25	£4.69
HPCET4140	9.00	0.80	44.60	130.20	2.28	15.83	0.16	£4.69
HPCET4141	9.00	0.80	60.60	188.60	2.28	15.83	0.11	£4.69
HPCET4142	4.50	0.90	14.20	17.15	6.20	41.42	11.92	£4.69
HPCET4143	4.50	0.90	19.60	24.32	6.20	41.42	7.47	£4.69
HPCET4144	4.50	0.90	27.70	35.08	6.20	41.42	4.77	£4.69
HPCET4145	6.30	0.90	17.10	24.53	4.66	30.92	3.52	£4.69
HPCET4146	6.30	0.90	22.50	34.00	4.66	30.92	2.21	£4.69
HPCET4147	6.30	0.90	30.60	49.20	4.66	30.92	1.42	£4.69
HPCET4148	6.30	0.90	44.10	73.80	4.66	30.92	0.88	£4.69
HPCET4149	10.00	0.90	23.00	46.10	2.89	20.00	0.73	£4.69
HPCET4150	10.00	0.90	28.40	65.30	2.89	20.00	0.46	£4.69
HPCET4151	10.00	0.90	36.50	94.10	2.89	20.00	0.29	£4.69
HPCET4152	10.00	0.90	50.00	142.20	2.89	20.00	0.19	£4.69
HPCET4153	10.00	0.90	68.00	206.00	2.89	20.00	0.12	£4.69
HPCET4154	5.00	1.00	15.80	19.05	6.27	50.66	13.25	£4.69
HPCET4155	5.00	1.00	21.80	27.00	6.27	50.66	8.25	£4.69
HPCET4156	5.00	1.00	30.80	38.90	6.27	50.66	5.30	£4.69
HPCET4157	7.00	1.00	19.00	27.17	6.27	37.75	3.92	£4.69
HPCET4158	7.00	1.00	25.00	38.10	6.27	37.75	2.45	£4.69
HPCET4159	7.00	1.00	34.00	54.40	6.27	37.75	1.52	£4.69
HPCET4160	7.00	1.00	49.00	81.70	6.27	37.75	0.98	£4.69
HPCET4161	7.00	1.00	290.00	510.00	6.27	37.75	0.15	£8.43
HPCET4162	11.00	1.00	25.40	50.20	3.49	24.67	0.85	£4.69
HPCET4163	11.00	1.00	31.40	71.00	3.49	24.67	0.53	£4.69
HPCET4164	11.00	1.00	40.40	102.30	3.49	24.67	0.34	£4.69

6.32



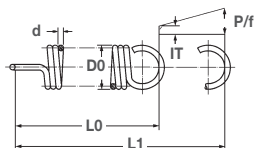
Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCET4165	11.00	1.00	55.40	154.40	3.49	24.67	0.22	£4.69
HPCET4166	11.00	1.00	75.40	224.40	3.49	24.67	0.14	£4.69
HPCET4167	5.50	1.10	17.40	20.94	8.97	60.66	14.58	£5.44
HPCET4168	5.50	1.10	24.00	29.66	8.97	60.66	9.17	£5.44
HPCET4169	5.50	1.10	33.90	42.74	8.97	60.66	5.83	£5.44
HPCET4170	7.50	1.10	20.60	28.90	6.87	46.25	4.74	£5.44
HPCET4171	7.50	1.10	27.20	40.50	6.87	46.25	2.96	£5.44
HPCET4172	7.50	1.10	37.10	57.90	6.87	46.25	1.90	£5.44
HPCET4173	7.50	1.10	53.60	86.80	6.87	46.25	1.18	£5.44
HPCET4174	12.00	1.10	27.80	54.20	4.38	29.83	0.96	£5.44
HPCET4175	12.00	1.10	34.40	76.70	4.38	29.83	0.60	£5.44
HPCET4176	12.00	1.10	44.30	110.40	4.38	29.83	0.38	£5.44
HPCET4177	12.00	1.10	60.80	166.80	4.38	29.83	0.23	£5.44
HPCET4178	12.00	1.10	82.80	241.80	4.38	29.83	0.17	£5.44
HPCET4179	6.00	1.20	19.00	22.80	10.52	71.08	15.92	£5.44
HPCET4180	6.00	1.20	26.20	32.28	10.52	71.08	10.00	£5.44
HPCET4181	6.00	1.20	37.00	46.50	10.52	71.08	6.36	£5.44
HPCET4182	8.50	1.20	23.00	32.85	7.68	52.33	4.52	£5.44
HPCET4183	8.50	1.20	30.20	46.00	7.68	52.33	2.82	£5.44
HPCET4184	8.50	1.20	41.00	65.60	7.68	52.33	1.81	£5.44
HPCET4185	8.50	1.20	59.00	98.60	7.68	52.33	1.12	£5.44
HPCET4186	8.50	1.20	290.00	515.00	7.68	52.33	0.20	£9.74
HPCET4187	13.00	1.20	30.20	58.10	5.47	35.17	1.07	£5.44
HPCET4188	13.00	1.20	37.40	82.10	5.47	35.17	0.67	£5.44
HPCET4189	13.00	1.20	48.20	118.00	5.47	35.17	0.42	£5.44
HPCET4190	13.00	1.20	66.20	178.20	5.47	35.17	0.27	£5.44
HPCET4191	13.00	1.20	90.20	258.20	5.47	35.17	0.17	£5.44
HPCET4192	7.00	1.40	22.10	26.46	14.07	95.00	18.58	£6.05
HPCET4193	7.00	1.40	30.50	37.48	14.07	95.00	11.58	£6.05
HPCET4194	7.00	1.40	43.10	54.00	14.07	95.00	7.42	£6.05
HPCET4195	10.00	1.40	26.90	38.50	10.55	69.66	5.12	£6.05
HPCET4196	10.00	1.40	35.30	53.80	10.55	69.66	3.19	£6.05
HPCET4197	10.00	1.40	47.90	76.80	10.55	69.66	2.05	£6.05

Mechanical Extension Springs

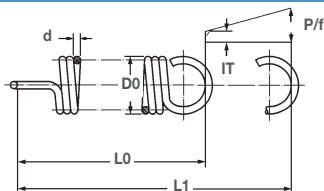
Materials
Stainless Steel



Mechanical
Extension Springs

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCET4198	10.00	1.40	68.90	115.10	10.55	69.66	1.28	£6.05
HPCET4199	10.00	1.40	290.00	510.10	10.55	69.66	0.27	£11.65
HPCET4200	15.00	1.40	34.90	66.10	7.09	47.58	1.29	£6.05
HPCET4201	15.00	1.40	43.30	93.30	7.09	47.58	0.81	£6.05
HPCET4202	15.00	1.40	55.90	134.00	7.09	47.58	0.52	£6.05
HPCET4203	15.00	1.40	76.90	201.90	7.09	47.58	0.32	£6.05
HPCET4204	15.00	1.40	105.00	292.00	7.09	47.58	0.22	£6.94
HPCET4205	8.00	1.60	25.30	30.18	18.17	121.66	21.17	£6.05
HPCET4206	8.00	1.60	34.90	42.71	18.17	121.66	13.25	£6.05
HPCET4207	8.00	1.60	49.30	61.50	18.17	121.66	8.50	£6.05
HPCET4208	11.00	1.60	30.10	41.80	14.09	92.50	6.70	£6.05
HPCET4209	11.00	1.60	39.70	58.40	14.09	92.50	4.18	£6.05
HPCET4210	11.00	1.60	54.10	83.40	14.09	92.50	2.68	£6.05
HPCET4211	11.00	1.60	78.10	124.90	14.09	92.50	1.67	£6.05
HPCET4212	17.00	1.60	39.70	74.00	9.68	61.66	1.52	£6.05
HPCET4213	17.00	1.60	49.30	104.10	9.68	61.66	0.95	£6.05
HPCET4214	17.00	1.60	63.70	149.30	9.68	61.66	0.61	£6.05
HPCET4215	17.00	1.60	87.70	224.70	9.68	61.66	0.38	£6.94
HPCET4216	17.00	1.60	120.00	325.00	9.68	61.66	0.25	£7.95
HPCET4217	9.00	1.80	28.40	33.77	22.06	149.99	23.83	£7.95

'Never Knowingly Outpriced'

**Extension SPRINGS**

Our extension springs have a wide application for experimental, development, prototype and maintenance work and have been specified and designed to high precision standards. All our extension springs have uniform body diameter and are produced with full twist loops the same diameter as the body. They are wound with initial tension, therefore some force is required before the coils are initially separated.

KEY TO MEASUREMENTS**D0** = Outside diameter mm.**L0** = Free length mm.**P/f** = Rate N/mm.**P1** = Load at L1 Newtons**d** = Wire diameter mm**L1** = Maximum extended length mm.**P/f** = Rate N/mm**I/T** = Initial tension load Newtons**Materials**

MUSIC WIRE to DIN 17223, Class C. No. 1,1200. BS5216 ND3 or HD3-AMS5112.

STAINLESS STEEL wire to DIN 17224. No. 1,4310.-BS2056 EN58A.

Commercial 302 AMS 5688 spring temper.

Ends

German loops closed. End position will vary.

Loads

Load values shown are for music wire

tolerances

All dimensions and forces to DIN 2097 (Grade 2).

Surface finish

Normal wire oiled. Shot-peened and plated finishes supplied on request.

To determine the load at any working length (use rate x deflection) + initial tension.

1 lb = 4.448 Newtons

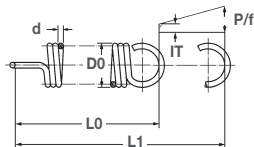
1 Newton = 0.225 lb

1 kg. = 9.80665 Newtons

1 Newton = 0.10197 kg

Mechanical Extension Springs

Materials
Music Wire
DN 17223



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

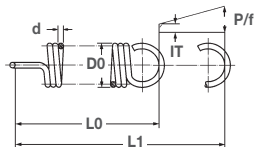
Mechanical Extension Springs

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCT3080	2.50	0.50	7.90	9.61	2.45	16.10	7.98	£3.61
HPCT3081	2.50	0.50	10.90	13.64	2.45	16.10	4.98	£3.61
HPCT3082	2.50	0.50	15.40	19.68	2.45	16.10	3.19	£3.61
HPCT3083	3.50	0.50	9.50	13.82	1.77	12.00	2.35	£3.61
HPCT3084	3.50	0.50	12.50	19.41	1.77	12.00	1.47	£3.61
HPCT3085	3.50	0.50	17.00	27.80	1.77	12.00	0.94	£3.61
HPCT3086	3.50	0.50	24.50	41.80	1.77	12.00	0.59	£3.61
HPCT3087	3.50	0.50	290.00	500.00	1.77	12.00	0.05	£3.61
HPCT3088	5.50	0.50	12.70	25.80	2.50	9.27	0.51	£3.61
HPCT3089	5.50	0.50	15.70	36.60	2.50	9.27	0.31	£3.61
HPCT3090	5.50	0.50	20.20	52.90	2.50	9.27	0.21	£3.61
HPCT3091	5.50	0.50	27.70	80.00	2.50	9.27	0.13	£3.61
HPCT3092	5.50	0.50	37.70	116.10	2.50	9.27	0.09	£3.61
HPCT3093	2.80	0.55	8.80	10.78	2.79	19.00	8.18	£3.61
HPCT3094	2.80	0.55	12.10	15.27	2.79	19.00	5.11	£3.61
HPCT3095	2.80	0.55	17.00	21.96	2.79	19.00	3.27	£3.61
HPCT3096	3.50	0.55	9.90	13.58	2.38	15.70	3.63	£3.61
HPCT3097	3.50	0.55	13.20	19.09	2.38	15.70	2.27	£3.61
HPCT3098	3.50	0.55	18.10	27.30	2.38	15.70	1.45	£3.61
HPCT3099	3.50	0.55	26.40	41.10	2.38	15.70	0.90	£3.61
HPCT3100	6.00	0.55	13.90	28.00	1.09	9.50	0.58	£3.61
HPCT3101	6.00	0.55	17.20	39.70	1.09	9.50	0.36	£3.61
HPCT3102	6.00	0.55	22.10	57.20	1.09	9.50	0.23	£3.61
HPCT3103	6.00	0.55	30.40	86.60	1.09	9.50	0.15	£3.61
HPCT3104	6.00	0.55	41.40	125.70	1.09	9.50	0.11	£3.61
HPCT3105	3.00	0.63	9.70	11.55	4.19	26.20	12.10	£3.99

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCT3106	3.00	0.63	13.50	16.46	4.19	26.20	7.51	£3.99
HPCT3107	3.00	0.63	19.20	23.82	4.19	26.20	4.81	£3.99
HPCT3108	4.50	0.63	12.10	17.75	2.61	18.30	2.77	£3.99
HPCT3109	4.50	0.63	15.90	24.94	2.61	18.30	1.73	£3.99
HPCT3110	4.50	0.63	21.60	35.70	2.61	18.30	1.11	£3.99
HPCT3111	4.50	0.63	31.00	53.60	2.61	18.30	0.70	£3.99
HPCT3112	7.00	0.63	16.10	32.70	1.67	12.20	0.62	£3.99
HPCT3113	7.00	0.63	19.90	46.50	1.67	12.20	0.39	£3.99
HPCT3114	7.00	0.63	25.60	67.20	1.67	12.20	0.25	£3.99
HPCT3115	7.00	0.63	35.00	101.50	1.67	12.20	0.16	£3.99
HPCT3116	7.00	0.63	47.60	147.30	1.67	12.20	0.11	£3.99
HPCT3117	3.50	0.70	11.10	13.46	4.47	30.70	11.10	£3.99
HPCT3118	3.50	0.70	15.30	19.08	4.47	30.70	6.95	£3.99
HPCT3119	3.50	0.70	21.60	27.50	4.47	30.70	4.44	£3.99
HPCT3120	5.00	0.70	13.50	19.75	3.39	22.60	3.07	£3.99
HPCT3121	5.00	0.70	17.70	27.70	3.39	22.60	1.92	£3.99
HPCT3122	5.00	0.70	24.00	39.60	3.39	22.60	1.23	£3.99
HPCT3123	5.00	0.70	34.50	59.50	3.39	22.60	0.77	£3.99
HPCT3124	7.50	0.70	17.50	34.40	2.18	15.40	0.78	£3.99
HPCT3125	7.50	0.70	21.70	48.70	2.18	15.40	0.49	£3.99
HPCT3126	7.50	0.70	28.00	70.20	2.18	15.40	0.31	£3.99
HPCT3127	7.50	0.70	38.50	106.00	2.18	15.40	0.20	£3.99
HPCT3128	7.50	0.70	52.50	153.50	2.18	15.40	0.13	£3.99
HPCT3129	4.00	0.80	12.60	15.26	5.96	39.90	12.70	£3.99
HPCT3130	4.00	0.80	17.40	21.66	5.96	39.90	8.00	£3.99
HPCT3131	4.00	0.80	24.60	31.26	5.96	39.90	5.10	£3.99
HPCT3132	5.50	0.80	15.00	21.40	4.79	30.20	4.00	£3.99
HPCT3133	5.50	0.80	19.80	30.00	4.79	30.20	2.50	£3.99
HPCT3134	5.50	0.80	27.00	43.00	4.79	30.20	1.60	£3.99
HPCT3135	5.50	0.80	39.00	64.60	4.79	30.20	1.00	£3.99
HPCT3136	5.50	0.80	290.00	515.00	4.79	30.20	0.11	£3.99
HPCT3137	9.00	0.80	20.60	42.00	2.73	19.00	0.76	£3.99
HPCT3138	9.00	0.80	25.40	59.70	2.73	19.00	0.47	£3.99

Mechanical Extension Springs

Materials
Music Wire
DN 17223



DISCOUNTS

1 - 5	List Price
6 - 10	-5%
11 - 25	-10%
26 - 50	-20%
51 - 99	-25%
100 - 199	-30%
200 +	-50%

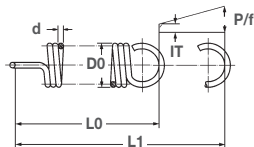
Mechanical Extension Springs

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCT3139	9.00	0.80	32.60	86.10	2.73	19.00	0.30	£3.99
HPCT3140	9.00	0.80	44.60	130.20	2.73	19.00	0.19	£3.99
HPCT3141	9.00	0.80	60.60	188.60	2.73	19.00	0.13	£3.99
HPCT3142	4.50	0.90	14.20	17.15	7.45	49.70	14.30	£4.46
HPCT3143	4.50	0.90	19.60	24.32	7.45	49.70	8.96	£4.46
HPCT3144	4.50	0.90	27.70	35.08	7.45	49.70	5.73	£4.46
HPCT3145	6.30	0.90	17.10	24.53	5.58	37.10	4.23	£4.46
HPCT3146	6.30	0.90	22.50	34.00	5.58	37.10	2.65	£4.46
HPCT3147	6.30	0.90	30.60	49.20	5.58	37.10	1.70	£4.46
HPCT3148	6.30	0.90	44.10	73.80	5.58	37.10	1.06	£4.46
HPCT3149	10.00	0.90	23.00	46.10	3.46	24.00	0.88	£4.46
HPCT3150	10.00	0.90	28.40	65.30	3.46	24.00	0.55	£4.46
HPCT3151	10.00	0.90	36.50	94.10	3.46	24.00	0.35	£4.46
HPCT3152	10.00	0.90	50.00	142.20	3.46	24.00	0.23	£4.46
HPCT3153	10.00	0.90	68.00	206.00	3.46	24.00	0.15	£4.46
HPCT3154	5.00	1.00	15.80	19.05	7.52	60.80	15.90	£4.46
HPCT3155	5.00	1.00	21.80	27.00	7.52	60.80	9.90	£4.46
HPCT3156	5.00	1.00	30.80	38.90	7.52	60.80	6.37	£4.46
HPCT3157	7.00	1.00	19.00	27.17	7.52	45.30	4.71	£4.46
HPCT3158	7.00	1.00	25.00	38.10	7.52	45.30	2.94	£4.46
HPCT3159	7.00	1.00	34.00	54.40	7.52	45.30	1.83	£4.46
HPCT3160	7.00	1.00	49.00	81.70	7.52	45.30	1.18	£4.46
HPCT3161	7.00	1.00	290.00	510.00	7.52	45.30	0.18	£6.21
HPCT3162	11.00	1.00	25.40	50.20	4.18	29.60	1.02	£4.50
HPCT3163	11.00	1.00	31.40	71.00	4.18	29.60	0.64	£4.50
HPCT3164	11.00	1.00	40.40	102.30	4.18	29.60	0.41	£4.50

PART NUMBER	Outside Ø D0	Ø Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCT3165	11.00	1.00	55.40	154.40	4.18	29.60	0.26	£4.50
HPCT3166	11.00	1.00	75.40	224.40	4.18	29.60	0.17	£4.50
HPCT3167	5.50	1.10	17.40	20.94	10.77	72.80	17.50	£4.50
HPCT3168	5.50	1.10	24.00	29.66	10.77	72.80	11.00	£4.50
HPCT3169	5.50	1.10	33.90	42.74	10.77	72.80	7.00	£4.50
HPCT3170	7.50	1.10	20.60	28.90	8.25	55.50	5.69	£4.50
HPCT3171	7.50	1.10	27.20	40.50	8.25	55.50	3.55	£4.50
HPCT3172	7.50	1.10	37.10	57.90	8.25	55.50	2.28	£4.50
HPCT3173	7.50	1.10	53.60	86.80	8.25	55.50	1.42	£4.50
HPCT3174	12.00	1.10	27.80	54.20	5.26	35.80	1.15	£4.50
HPCT3175	12.00	1.10	34.40	76.70	5.26	35.80	0.72	£4.50
HPCT3176	12.00	1.10	44.30	110.40	5.26	35.80	0.46	£4.50
HPCT3177	12.00	1.10	60.80	166.80	5.26	35.80	0.28	£4.50
HPCT3178	12.00	1.10	82.80	241.80	5.26	35.80	0.20	£4.50
HPCT3179	6.00	1.20	19.00	22.80	12.63	85.30	19.10	£4.82
HPCT3180	6.00	1.20	26.20	32.28	12.63	85.30	12.00	£4.82
HPCT3181	6.00	1.20	37.00	46.50	12.63	85.30	7.63	£4.82
HPCT3182	8.50	1.20	23.00	32.85	9.22	62.80	5.43	£4.82
HPCT3183	8.50	1.20	30.20	46.00	9.22	62.80	3.39	£4.82
HPCT3184	8.50	1.20	41.00	65.60	9.22	62.80	2.17	£4.82
HPCT3185	8.50	1.20	59.00	98.60	9.22	62.80	1.35	£4.82
HPCT3186	8.50	1.20	290.00	515.00	9.22	62.80	0.24	£6.91
HPCT3187	13.00	1.20	30.20	58.10	6.56	42.20	1.28	£4.82
HPCT3188	13.00	1.20	37.40	82.10	6.56	42.20	0.80	£4.82
HPCT3189	13.00	1.20	48.20	118.00	6.56	42.20	0.51	£4.82
HPCT3190	13.00	1.20	66.20	178.20	6.56	42.20	0.32	£4.82
HPCT3191	13.00	1.20	90.20	258.20	6.56	42.20	0.21	£4.82
HPCT3192	7.00	1.40	22.10	26.46	16.88	114.00	22.30	£4.82
HPCT3193	7.00	1.40	30.50	37.48	16.88	114.00	13.90	£4.82
HPCT3194	7.00	1.40	43.10	54.00	16.88	114.00	8.91	£4.82
HPCT3195	10.00	1.40	26.90	38.50	12.66	83.60	6.14	£4.82
HPCT3196	10.00	1.40	35.30	53.80	12.66	83.60	3.83	£4.82
HPCT3197	10.00	1.40	47.90	76.80	12.66	83.60	2.46	£4.82

Mechanical Extension Springs

Materials
Music Wire
DN 17223



Mechanical Extension Springs

PART NUMBER	Outside \emptyset D0	\emptyset Wire d	Free Length L0	Max Ext. L1	Initial Tension IT N	Load at L1 N P1	Rate N.mm P/f	Price Each 1-5
HPCT3198	10.00	1.40	68.90	115.10	12.66	83.60	1.54	£4.82
HPCT3199	10.00	1.40	290.00	510.10	12.66	83.60	0.32	£7.93
HPCT3200	15.00	1.40	34.90	66.10	8.50	57.10	1.55	£4.82
HPCT3201	15.00	1.40	43.30	93.30	8.50	57.10	0.97	£4.82
HPCT3202	15.00	1.40	55.90	134.00	8.50	57.10	0.62	£4.82
HPCT3203	15.00	1.40	76.90	201.90	8.50	57.10	0.39	£4.82
HPCT3204	15.00	1.40	105.00	292.00	8.50	57.10	0.26	£4.82
HPCT3205	8.00	1.60	25.30	30.18	21.81	146.00	25.40	£4.82
HPCT3206	8.00	1.60	34.90	42.71	21.81	146.00	15.90	£4.82
HPCT3207	8.00	1.60	49.30	61.50	21.81	146.00	10.20	£4.82
HPCT3208	11.00	1.60	30.10	41.80	16.91	111.00	8.04	£4.82
HPCT3209	11.00	1.60	39.70	58.40	16.91	111.00	5.02	£4.82
HPCT3210	11.00	1.60	54.10	83.40	16.91	111.00	3.22	£4.82
HPCT3211	11.00	1.60	78.10	124.90	16.91	111.00	2.01	£4.82
HPCT3212	17.00	1.60	39.70	74.00	11.62	74.00	1.82	£4.82
HPCT3213	17.00	1.60	49.30	104.10	11.62	74.00	1.14	£4.82
HPCT3214	17.00	1.60	63.70	149.30	11.62	74.00	0.73	£4.82
HPCT3215	17.00	1.60	87.70	224.70	11.62	74.00	0.46	£4.82
HPCT3216	17.00	1.60	120.00	325.00	11.62	74.00	0.30	£4.82
HPCT3217	9.00	1.80	28.40	33.77	26.47	180.00	28.60	£13.51

'Never Knowingly Outpriced'

6.40



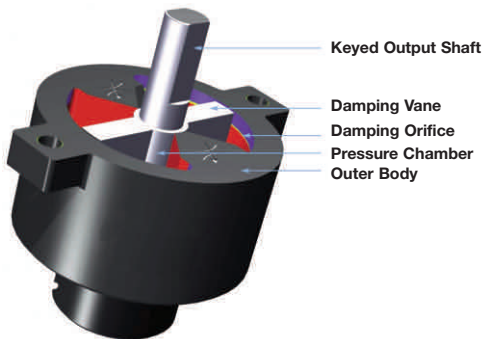
Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Mechanical Rotary Dampers

Introduction

Our Rotary Dampers are sealed maintenance free units. They are available with fixed or adjustable damping rates. The damping can be clockwise, anticlockwise or in both directions.

The outer body is either plastic or metal depending upon model size. The output connection can be direct onto the keyed output shaft or indirect via a plastic gear (available with 4 standard modules). Plastic racks with modules of 0.5 to 1 are also available. Applications include office machinery, lids and flaps, floppy disc drives, piano lids, CD players, auto glove-boxes, vending machines, medical equipment, furniture industry and a multitude of others.



Our Rotary Dampers guarantee the smooth controlled opening and closing of small lids, covers and flaps. They can be mounted directly on the pivot axis or can be used to provide linear damping by using a plastic gear and rack. They enable mechanisms to operate with a smooth controlled motion giving that "touch of quality" to whatever product they are used on.

Our rotary dampers are filled with a special high viscosity fluid (silicone type) and sealed for life. The fluid is passed through an orifice or groove by a rotating vane to provide damping resistance. The damping torque generated is determined by the fluid viscosity and by the orifice configuration.



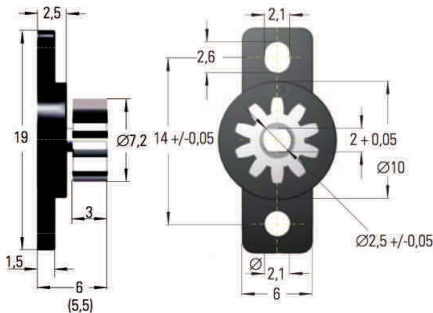
Lifetime: With a max. rotational speed of 50 revs/min and a maximum of 10 cycles/min (12 cycles/min with the FDT/FDN types) the rotary dampers still provide more than 80% of their damping torque after a run of 50000 cycles.

Mechanical

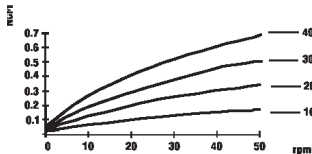
Rotary Dampers Bi - Directional

HPCFRTE2

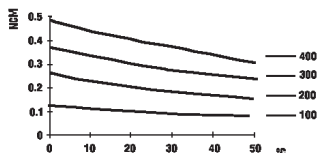
Body: Polycarbonate plastic
Gear: Polyacetal Plastic
Fluid: Silicone



FRT-E2 (at 23°C)



FRT-E2 (at 20 rpm)



Material: Polycarbonate plastic
Temperature range: 0° C to 50° C

Tooth: Involute
Module: 0.6
Pressure angle: 20°
Number of teeth: 10
P.C.D.: 6 mm

DISCOUNTS

Quantity	List Price
1 - 24	
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

0.6 mod matching plastic racks available up to 1 metre.
Units are supplied with removable gear.

PART NUMBER	Damping Torque Ncm	Price Each 1-24
HPCFRTE2100G1	0.1 ± 0.05	£5.22
HPCFRTE2200G1	0.2 ± 0.07	£5.22
HPCFRTE2300G1	0.3 ± 0.08	£5.22
HPCFRTE2400G1	0.4 ± 0.10	£5.22

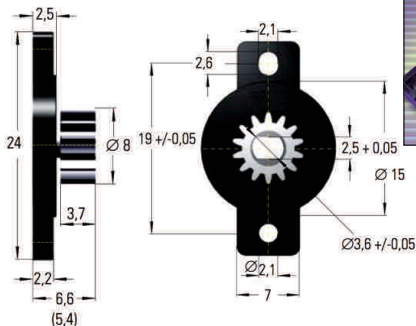
HPCFRTG2

Body: Polycarbonate plastic

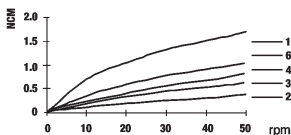
Gear: Polyacetal Plastic

Fluid: Silicone

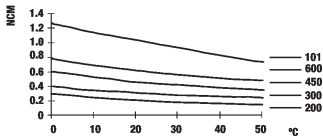
Mechanical Rotary Dampers Bi - Directional



FRT-G2 (at 23°C)



FRT-G2 (at 20 rpm)



Material: polycarbonate plastic
Temperature range: 0° C to 50° C

Tooth: Involute
Module: 0.5
Pressure angle: 20°
Number of teeth: 14
P.C.D.: 7 mm

DISCOUNTS

Quantity	Discount
1 - 24	List Price
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

0.5 mod matching plastic racks available up to 1 metre. Units are supplied with removable gear.

PART NUMBER	Damping Torque Ncm	Price Each 1-24
HPCFRTG2200G1	0.20 ± 0.07	£5.22
HPCFRTG2300G1	0.30 ± 0.08	£5.22
HPCFRTG2450G1	0.45 ± 0.10	£5.22
HPCFRTG2600G1	0.60 ± 0.12	£5.22
HPCFRTG2101G1	1.00 ± 0.20	£5.22



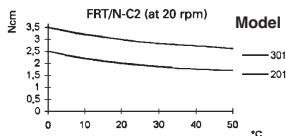
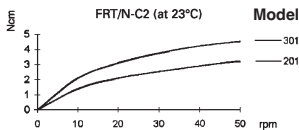
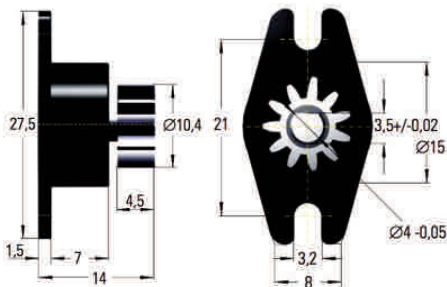
Mechanical HPCFRTC2 & HPCFRNC2

Rotary Dampers

Body: Polycarbonate plastic

Gear: Polyacetal Plastic

Bi - Directional & Uni - Directional Fluid: Silicone



Material: polycarbonate plastic
Temperature range: 0° C to 50° C

Tooth: Involute
Module: 0.8
Pressure angle: 20°
Number of teeth: 11
P.C.D.: 8.8 mm

0.8 mod matching plastic racks available up to 1 metre. Units are supplied with removable gear.

0.8 mod flexible racks available up to 2 metre.

DISCOUNTS

Quantity	List Price
1 - 24	
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

PART NUMBER			Damping Torque Nm (Nom. 20 rpm. 23° C)	Price Each 1-24
Bi-directional damping	R-hand damping (clockwise)	L-hand damping (anti-clockwise)		
HPCFRTC2201G1			2 ± 0.6	£12.02
HPCFRTC2301G1			3 ± 0.8	£12.02
	HPCFRNC2R201G1	HPCFRNC2L201G1	2 ± 0.6	£14.30
	HPCFRNC2R301G1	HPCFRNC2L301G1	3 ± 0.8	£14.30

HPCFRND2

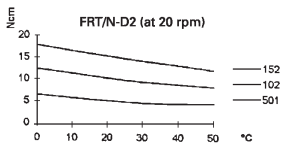
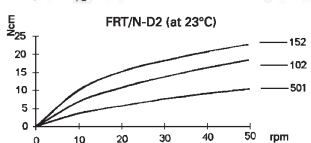
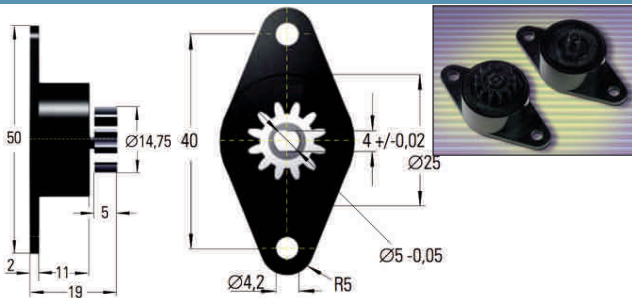
Body: Polycarbonate plastic

Gear: Polyacetal Plastic

Fluid: Silicone **Bi - Directional & Uni - Directional**

Mechanical

Rotary Dampers



Material: polycarbonate plastic Temperature range: 0° C to 50° C

Tooth: Involute
 Module: 1.0
 Pressure angle: 20°
 Number of teeth: 12
 P.C.D.: 12.75 mm

DISCOUNTS	
1 - 24	List Price
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

PART NUMBER			Damping Torque Ncm (Nom. 20 rpm. 23° C)	Price Each 1-24
Bi-directional damping	R-hand damping (clockwise)	L-hand damping (anti-clockwise)		
	HPCFRND2R501G1	HPCFRND2L501G1	5 ± 1	£46.62
	HPCFRND2R102G1	HPCFRND2L102G1	10 ± 2	£46.62
	HPCFRND2R152G1	HPCFRND2L152G1	15 ± 3	£46.62
HPCFRND2501G1			5 ± 1	£40.85
HPCFRND2102G1			10 ± 2	£40.85
HPCFRND2152G1			15 ± 3	£40.85

1 mod matching plastic racks available up to 1 metre. Units are supplied with removable gears. 1 mod flexible racks are available up to 2 metre.

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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6.45

Mechanical

HPCFRTK2

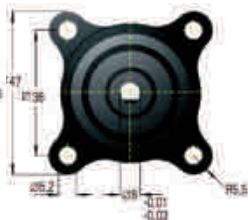
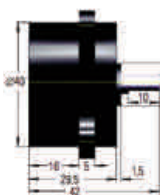
Rotary Dampers

Body: Polycarbonate plastic

Gear: Polyacetal Plastic

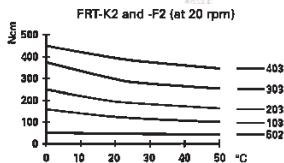
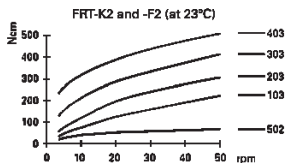
Fluid: Silicone

Bi - Directional & Uni - Directional



Mechanical Rotary Dampers

Mechanical Rotary Dampers



Material: polycarbonate plastic
Temperature range: 0° C to 50° C

Weight max.: 0.116 kg

DISCOUNTS

1 - 9	List Price
10 - 24	-10%
25 - 49	-15%
50 +	-30%

PART NUMBER			Damping Torque Ncm (Nom. 20 rpm. 23° C)	Price Each 1-9
Bi-directional damping	R-hand damping (clockwise)	L-hand damping (anti-clockwise)		
HPCFRTK2502			50 ± 10	£83.83
HPCFRTK2103			100 ± 20	£83.83
HPCFRTK2203			200 ± 40	£83.83
HPCFRTK2303			300 ± 80	£82.83
HPCFRTK2403			400 ± 100	£83.83
	HPCFRNK2R502	HPCFRNK2L502	50 ± 10	£92.28
	HPCFRNK2R103	HPCFRNK2L103	100 ± 20	£92.28
	HPCFRNK2R203	HPCFRNK2L203	200 ± 40	£92.28

6.46



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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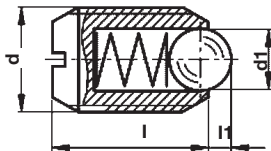
Materials

Black-oxide steel
or AISI 303 Stainless steel

Mechanical Spring Plungers

DISCOUNTS

1 - 15	List Price
20-39	-15%
40-59	-20%
60-99	-25%
100+	-30%



PART NUMBER		Main dimensions					Spring press.		Weight g	PRICE EACH 1-15	
							Preload [N~]	Max. load [N~]		Steel	Stainless
Steel	Stainless	d 6g	d1	l ±0.1	l1				Steel	Stainless	
HPCBPM3	HPCBPM3SS	M3	1.5	7	0.4	3	4.5	1	£2.08	£5.57	
HPCBPM4	HPCBPM4SS	M4	2.5	9	0.8	6	14.5	1	£1.58	£4.84	
HPCBPM5	HPCBPM5SS	M5	3.0	12	0.9	8	14	1	£1.58	£4.84	
HPCBPM6	HPCBPM6SS	M6	3.5	14	1.0	11	18	2	£1.58	£4.84	
HPCBPM8	HPCBPM8SS	M8	4.5	16	1.5	18	31	4	£2.12	£6.28	
HPCBPM10	HPCBPM10SS	M10	6.0	19	2.0	24	45	7	£2.25	£7.20	
HPCBPM12	HPCBPM12SS	M12	8.0	22	2.5	26	49	10	£3.71	£8.78	
HPCBPM16	HPCBPM16SS	M16	10.0	24	3.5	41	86	24	£6.38	£8.66	
HPCBPM20	HPCBPM20SS	M20	12.0	30	4.5	56	111	43	£7.36	£16.59	

Threaded body

Black-oxide steel or AISI 303 stainless steel, screwdriver slotted head.

Ball and spring

Hardened steel or stainless steel ball, steel or stainless steel spring with normal end-force.

Working temperature

From -40°C to +170°C.



HPC Gears Ltd

'Never Knowingly Outpriced'

Custom Made Gears

**48hr Breakdown and
Replacement Service**



Lubricants

Pages 7.2 – 7.10



Lubricants

Introduction

HPC high-performance lubricants help reduce friction and wear, extend lubrication time and reduce maintenance and replacement costs in applications that would defeat conventional oils and greases. Formulated to withstand the rigors of heavy loads, dirty, dusty or chemically harsh environments, temperature and speed extremes, HPC lubricants are also ideal for normal service lubrication.

To select the best lubricant for your application, let your specific performance needs be your guide:

Load
Environment
Temperature
Speed

There are six classes of lubricants from which to choose. Each class has a different physical form with properties that make it suitable for specific applications:

► **Pastes** – Grease-like materials containing a very high percentage of solid lubricants. Used for assembly and lubrication of highly loaded, slow moving parts for threaded fasteners.



▶ **Greases** – Solid to semisolid materials consisting of a lubricating fluid, thickening agent and additives. Used on rolling element bearings and other moving parts.

▶ **Compounds** – Grease-like materials composed of silicone fluids and silica fillers. Used for their sealing, dielectric, non-metal-to-metal lubricating and release properties.

▶ **High Performance Industrial Lubricating Oils** – Based on hydroprocessed mineral oils or synthetic base stocks such as polyalphaolefin (PAO) and esters, these lubricating fluids are fortified with carefully selected additives to provide optimum performance and service life while maximising protection of the equipment and machinery they are designed to lubricate

▶ **Anti-Friction Coatings** – “Lubricating paints”; when applied, these materials cure to form dry, solid lubricant coatings that are bonded to the surface.

▶ **Dispersions** – Finely divided solid lubricants suspended in lubricating fluids; preferred when it is necessary to apply solid lubricants in liquid form.

Lubricants

Applications

Gears

Application	Temp. Range [°C]	Other Considerations	Part Number
Pretreatment (Metal to metal)	-25 to +450	Run-in lubricant	HPCLUBG-RapidPlus
Operation (Metal to metal)	-40 to +150	Multi-purpose synthetic/food grade	HPCLUBG-4500
	-40 to +177	Synthetic lubrication/high loads	HPCLUBG-4700
Metal to plastic / plastic to plastic	-73 to +180	Wide temperature range/low friction	HPCLUB-33L
Metal to plastic plastic to plastic	-40 to +130	Multi-purpose semi-synthetic	HPCLUBPG-75

Chain Drives

Application	Temp. Range [°C]	Other Considerations	Part Number
Greased chains	-40 to +230	Tacky paste/wide temperature range / water-resistant	HPCLUBP-40
	-180 to +450	Long-term lubrication	HPCLUBD-321R
Oiled chains (Metal to metal)		Extreme loads/ high MoS_2 content	HPCLUBM-55P

Power Screw Drives/ Leadscrews

Application	Temp. Range [°C]	Other Considerations	Part Number
Operation (Metal to metal)	-40 to +150	Multi-purpose synthetic/food grade	HPCLUBG-4500
Plastic to metal / plastic to plastic	-73 to +180	Wide temperature range/low friction	HPCLUB-33L
Operation (Metal to metal)	-30 to +130	General Purpose	HPCLUB-MULITILUB

Worm & Wheel Gearboxes

Application	Part Number
Worm gear unit, Guideways	HPCLUB-GLY-460

HPCLUBG-Rapidplus

- ▶ **Description** – Solid lubricating paste with particularly low friction coefficient for assembly and running-in of metal components.
- ▶ **Application** – Suitable for the press-fit production of all types of machine elements, as a running-in lubricant for new machines and gears, as permanent lubrication of machine elements which are submitted to slight or intermittent movement only, as well as for drilling, sawing and thread cutting; Used to lubricate threaded spindles, splined shafts, tooth gearing, worm gearing, moving screws, fittings, pumps, guides on machine tools, as well as for fitting of ball and roller bearings, pulleys, wheel flanges and bolts.
- ▶ **Features** – Low friction coefficient; High load-carrying capacity; Prevents seizure and scoring; Suppresses stick-slip; Reduces formation of fretting corrosion; Provides emergency running performance.
- ▶ **Composition** – Mineral oil; Solid lubricants.
- ▶ **Temperature Range** – From -35 to +450°C.
- ▶ **Packages** – Aerosol: 400ml; Tube: 50g; Cans: 250g, 1kg; Pails: 5kg, 25kg.

HPCLUBG-4500

- ▶ **Description** – Specialty lubricant that combines the benefits of wide operating temperature and broad compatibility with varied materials.
- ▶ **Application** – Long-term lubrication for assembly and maintenance; Can be used in food processing applications involving mixers, motors, conveyors, low-temperature equipment, packaging machines and many other applications in or out of the food processing industry where a white grease may be desirable. Such applications may involve furniture, instrumentation, photo and optical equipment.
- ▶ **Features** – Multi-purpose capabilities; Wide temperature operating range; Broad compatibility; Complies with the listing requirements of the FDA regulation 21 CFR 178.3570 and is registered at NSF under H1 category for “incidental food contact”.

Lubricants

Descriptions

- ▶ **Composition** – Polyalphaolefine; Aluminum complex thickeners; Solid lubricants.
- ▶ **Temperature Range** – From -40 to +150°C
- ▶ **Packages** – Aerosol: 400ml; Cartridge: 400g; Pails: 5kg, 25kg

Lubricants

HPCLUBG-4700

- ▶ **Description** – Specialty lubricant that combines the benefits of wide operating temperature and broad compatibility with varied materials.
- ▶ **Application** – Long-term lubrication for assembly and maintenance; Can be used in most non-food related grease applications such as metal working machines, motors, fans, blowers, conveyors, wheel bearings and custom machinery where heavy duty, long-lasting lubrication is desired.
- ▶ **Features** – Multi-purpose capabilities; Wide temperature operating range; Broad compatibility; Meets Cinnccinati Machine P-64, Ford ESA MIC75-B, GM998525H.
- ▶ **Composition** – Polyalphaolefine; Lithium complex thickeners; Solid lubricants.
- ▶ **Temperature Range** – From -40 to +177°C.
- ▶ **Packages** – Cartridge: 400g; Can: 1kg; Pail: 25kg

HPCLUBPG-75

- ▶ **Description** – Lubricating grease for plastic/plastic and plastic/metal combinations with slow to medium-fast movements and light loads.
- ▶ **Application** – Used on vehicle track-rod joints.
- ▶ **Features** – Suitable for long-term lubrication; Good low temperature characteristics; Very low coefficient of friction; Compatible with many plastics and elastomers.
- ▶ **Composition** – Mineral oil; Polyalphaolefine; Lithium soap; Solid lubricants.
- ▶ **Temperature Range** – From -40 to +130°C
- ▶ **Packages** – Can: 1kg; Pails: 5kg, 25kg, 50kg

HPCLUBP-40

- ▶ **Description** – Metal-free adhesive lubrication paste which can be used for all assembly and continuous lubricating jobs, particularly those exposed to corrosive environments such as splash water or humidity.
- ▶ **Application** – Assembly and threaded connections, spline shafts, mounting of bearings, Continuous lubrication: for various parts in brake systems, in brake rods, guide bolts. Axles of commercial vehicles, cams and plain bearings; Open gears; Marine applications.
- ▶ **Features** – Excellent adhesion; Good corrosion protection; Good water resistance; Good anti-fretting; Assembly and continuous lubrication; Metal-free; Low water pollution class.
- ▶ **Composition** – Semi-synthetic oil; Solid lubricants; Corrosion inhibitor.
- ▶ **Temperature Range** – From -40 to +230°C as a paste, -40 to +1200°C as a solid lubricant.
- ▶ **Packages** – Can: 1kg; Pails: 5kg, 25kg

HPCLUBD-321R

- ▶ **Description** – Air-curing dry lubricant.
- ▶ **Application** – For metal/metal combinations with slow to medium-fast movements and high loads; Suitable for the permanent lubrication of highly stressed sliding guides with low sliding speeds, oscillating movements or intermittent operation; Improving the running-in process and for lubrication under high vacuum and at extreme temperatures; Used successfully for cylinder-head bolts, toaster guides, car mirror adjustment mechanisms, high voltage switches, for the running in of highly stressed gear wheel; Emergency lubricant for parts of the rotor head of wind energy installations and for groove-free cold extrusion of steel.
- ▶ **Features** – Air-drying; Avoidance of stick-slip; High ageing resistance.
- ▶ **Composition** – Solid lubricants; Inorganic binder; Solvents.
- ▶ **Temperature Range** – From -180 to +450°
- ▶ **Packages** – Aerosol: 400ml; Can: 1kg; Pail: 5kg

Lubricants

Descriptions

HPCLUBM-55PLUS

- ▶ **Description** – Black dispersion of solid lubricants in mineral oil.
- ▶ **Application** – Used successfully as an additive for mineral oils.
- ▶ **Features** – Increases load-carrying capacity; Reduces friction and wear; Reduces running noise; Improves running-in; Emergency running properties; Prevents and reduces pitting in gears.
- ▶ **Composition** – Mineral oil; Molybdenum disulphide; Dispersant.
- ▶ **Temperature Range** – Depends on the oil to which it is added.
- ▶ **Packages** – Can: 1l; Pails: 5l, 20l.

HPCLUB-33L

- ▶ **Description** – Lubricating grease for metal/metal, metal/plastic combinations involving slow to medium-fast movements and light loads, especially over a wide range of temperatures.
- ▶ **Application** – Used successfully for rollers in mobile refrigerating equipment and refrigeration plants, control cables, electric clocks, motors, windscreen wiper motors, vehicle starter motors, photographic and optical equipment, surveying instruments.
- ▶ **Features** – High oxidation resistance; Wide service temperature range; Good low temperature performance; Compatible with many plastics; Water-resistant.
- ▶ **Composition** – Silicone oil; Lithium soap.
- ▶ **Temperature Range** – From -73 to +180°C
- ▶ **Packages** – Tube: 100g; Can: 1kg; Pails: 25kg, 50 kg; Drum: 180kg

HPCLUB-MULTILUB

- ▶ **Description** – High-performance grease for metal/metal combinations involving slow to fast movements and medium to high loads.
- ▶ **Application** – Lubrication contacts with light to medium loads and low to high speeds, even in the presence of moisture and spray; Used on roller bearings, plain bearings, sliding guides, roller guides, ball-and-socket joints, splined shafts and threaded spindles; Used for chassis lubrication on cranes, forklift trucks and lifting apparatus.
- ▶ **Features** – Good load-carrying capacity; Suitable for long-term lubrication by virtue of low oil evaporation; Good water wash-out resistance; Good corrosion protection; Good oxidation resistance; Reduction of wear and scoring.
- ▶ **Composition** – Mineral oil; Lithium soap; EP additive; Corrosion inhibitor.
- ▶ **Temperature Range** – From -25 to +120°C
- ▶ **Packages** – Tube: 100g; Cartridge: 400g; Pails: 1kg, 5kg, 20kg, 50kg; Drum: 180kg

HPCLUB-GLY-460

- ▶ **Application & Description** – Polyglycol based lubricants. Designed for the lubrication of filled for life gearboxes and heavy-duty worm gears, severe service applications, also in food grade applications.
- ▶ **Synthetic Benefits** – Improved gear efficiency, Lower oil operating temperature, Easy start-up at low temperatures, Micropitting protection

ISO VG	Kinematic Viscosity		VI	Pour Point °C	Flash Point °C
	40°C	100°C			
460	460	78	250	-33	265

Lubricants

Descriptions

HPCLUBBR2-PLUS

- ▶ **Description** – High performance grease with solid lubricants for metal/metal combinations involving slow to fast movements, particularly with medium to high loads.
- ▶ **Application** – Used successfully on roller bearings, plain bearings, sliding guides, roller guides, ball-and-socket joints, splined shafts and threaded spindles.
- ▶ **Features** – High load carrying capacity; Suitable for long-term lubrication; Good oxidation resistance; Emergency running properties i.e. in case of mixed friction providing of wear protection by solid lubricants and EP additives; Good protection against scaring (false Brinelling); Good water washout resistance; Good corrosion protection; Good protection against fretting corrosion.
- ▶ **Composition** – Mineral oil; Lithium soap; Solid lubricants; EP additive; Corrosion inhibitor.
- ▶ **Temperature Range** – From -30 to +130°C, +150°C for short periods.
- ▶ **Packages** – Tube: 100g, Cartridge: 400g; Can: 1kg; Pails: 5kg, 25kg; Drum: 180kg.

PART NUMBER	Size	Type	PRICE EACH 1-5
HPCLUBG-RapidPlus	400 ml	Cartridge	£34.29
HPCLUBG-4500	400 ml	Aerosol	£27.14
HPCLUBG-4700	400 gr	Cartridge	£29.20
HPCLUB33-L	100 gr	Tube	£25.98
HPCLUBPG-75	1 kg	Can	£46.53
HPCLUBP-40	1 kg	Can	£52.61
HPCLUBD-321R	400 ml	Aerosol	£31.13
HPCLUBM-55PLUS	1 ltr	Can	£49.62
HPCLUBMULTI-100G	100 gr	Tube	£9.53
HPCLUBMULTI-1KG	1 kg	Pale	£27.28
HPCLUBGLY-460	0.5 ltr	Can	£86.13
HPCLUBBR2-PLUS	400 gr	Cartridge	£87.00

Motors

Pages 8.2 – 8.14

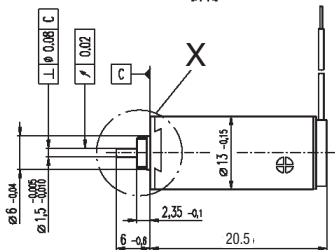
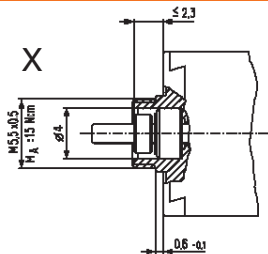
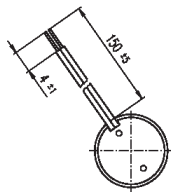


Motors

13mm Dia. Motor

DC Motors

Ø1.5mm Motor Shaft
1.2 Watt - Precious Metal Brushes



Motor Data

HPCMAX203889 HPCMAX203892

Values at nominal voltage

1	Nominal voltage	V	6.0	12.0
2	No load speed	rpm	11100	13440
3	Nominal speed	rpm	5780	6912
4	Nominal torque (max.continuous torque)	mNm	1.32	1.28
5	Nominal current (max.continuous current)	A	0.267	0.158
6	Max. permissible speed	rpm	19000	19000

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER

Price Each 1-5

HPCMAX203889

£103.52

HPCMAX203892

£103.52

8.2



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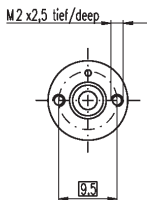
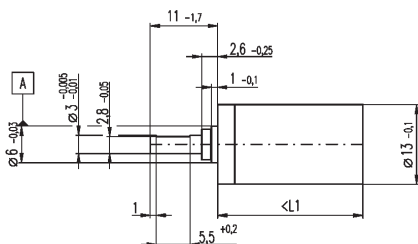
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Motors 1.2 W Ø13 mm

∅13mm

Gearheads: DC Motors & Gearbox Combinations

0.2 - 0.35 NM



Notes:

13mm planetary gearhead, supplied with fixing kit to suit motors opposite. Pinion supplied loose for fixing to motor shaft using Loctite 603.

Maximum Axial Load: 8N Maximum Radial Load at 6mm from Flange:
1 Stage = 8N, 2Stage = 12N , 3 Stage = 16N, 4 Stage = 20N.

Operating Temperature Range: -15°C to +100°C

Mass: 11-23g.

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER	Ratio	No. of Stages	Length L	Cont. Torque (Nm)	Peak Torque (Nm)	Max Speed	Eff.	Average Backlash	Price Each 1-5
HPCMAX110313	4:1	1	16.0	0.20	0.30	<8000	91%	1.0°	£56.96
HPCMAX110314	17:1	2	19.9	0.20	0.30	<8000	83%	1.2°	£69.92
HPCMAX110315	67:1	3	23.7	0.30	0.45	<8000	75%	1.5°	£80.00
HPCMAX110316	275:1	4	27.6	0.30	0.45	<8000	69%	1.8°	£91.68
HPCMAX110317	1119:1	5	31.4	0.35	0.53	<8000	62%	2.0°	£106.24

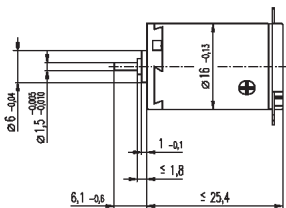
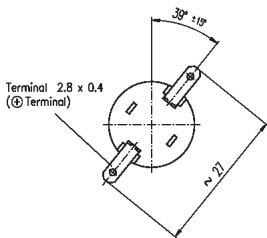
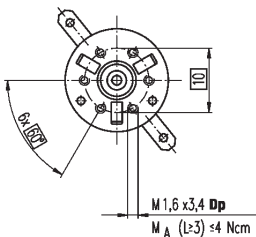


Motors

16mm Dia. Motor

DC Motors

Ø1.5mm Motor Shaft
2 Watt - Precious Metal Brushes CLL



Motors 2 W Ø16 mm

Motor Data

HPCMAX110044 HPCMAX110048

Values at nominal voltage

1	Nominal voltage	V	6	12.0
2	No load speed	rpm	8200	7828
3	No load current	mA	12.7	6.53
4	Nominal speed	rpm	4460	4594
5	Nominal torque (max.continuous torque)	mNm	2.18	2.14
6	Nominal current (max.continuous current)	A	0.326	0.153
7	Max. permissible speed	rpm	19000	19000

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER

Price Each 1-5

HPCMAX110044	£62.88
HPCMAX110048	£62.88

8.4

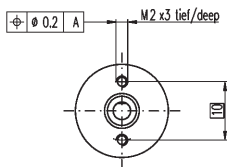
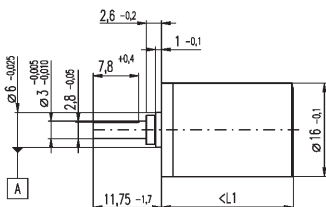


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Ø16mm

Gearheads: DC Motors & Gearbox Combinations

0.1 - 0.3 NM



Notes:

16mm planetary gearhead, supplied with fixing kit to suit motors opposite.
Pinion supplied loose for fixing to motor shaft using Loctite 603.

Maximum Axial Load: 8N **Maximum Radial Load at 6mm from Flange:**
2 Stage = 15N , 5 Stage = 20N.

Operating Temperature Range: -15°C to +100°C

Mass: 23-35g.

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER	Ratio	No. of Stages	Length L	Cont. Torque (Nm)	Peak Torque (Nm)	Max Speed	Eff.	Average Backlash	Price Each 1-5
HPCMAX110322	19:1	2	19.1	0.15	0.225	8000	81%	1.6°	£68.80
HPCMAX110323	84:1	3	22.7	0.20	0.300	8000	73%	2.0°	£80.48
HPCMAX110324	370:1	4	26.3	0.25	0.375	8000	65%	2.4°	£91.20
HPCMAX110325	1621:1	5	29.9	0.30	0.450	8000	59%	3.0°	£101.92

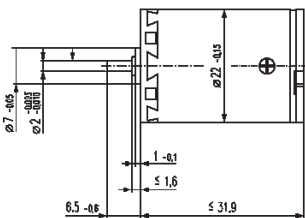
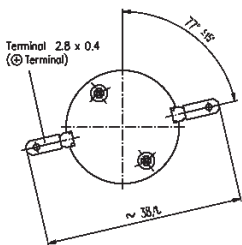
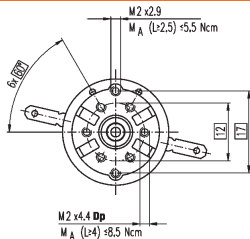


Motors

22mm Dia. Motor

DC Motors

Ø2mm Motor Shaft
5 Watt - Precious Metal Bushes CLL



Motors 5 W Ø22 mm

Motor Data		HPCMAX110119	HPCMAX110124	HPCMAX110127	
1	Nominal voltage	V	6.0	12.0	24.0
2	No load speed	rpm	6646	6646	6533
3	Nominal speed	rpm	4900	4873	4726
4	No load current	mA	21	10	5
5	Nominal torque (max.continuous torque)	mNm	6.33	6.25	6.15
6	Max. continuous current	mA	751	371	179

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER

Price Each 1-5

HPCMAX110119	£72.32
HPCMAX110124	£72.32
HPCMAX110127	£72.32

8.6



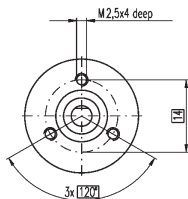
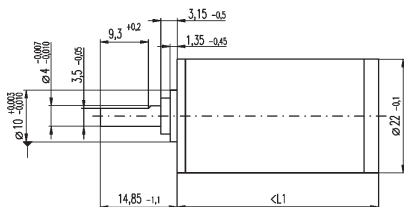
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Ø22mm

Gearheads: DC Motors & Gearbox

0.5 - 1.0 NM ø4mm Output Shaft

Combinations



Notes:

22mm planetary gearhead, supplied with fixing kit to suit motors opposite.
Pinion supplied loose for fixing to motor shaft using Loctite 603.

Maximum Axial Load: 100N

Maximum Radial Load at 10mm from Flange: 70N

Operating Temperature Range: -15°C to +100°C

Mass: 55-94g.

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER	Ratio	No. of Stages	Length L	Cont. Torque (Nm)	Peak Torque (Nm)	Max Speed	Eff.	Average Backlash	Price Each 1-5
HPCMAX110338	19:1	2	32.2	0.50	0.80	6000	70%	1.2°	£118.08
HPCMAX110339	84:1	3	39.0	0.80	1.20	6000	59%	1.6°	£124.64
HPCMAX110340	370:1	4	45.8	1.00	1.60	6000	49%	2.0°	£130.88
HPCMAX110341	1621:1	5	52.6	1.00	1.60	6000	42%	2.0°	£137.44

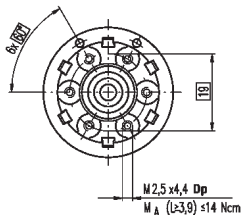
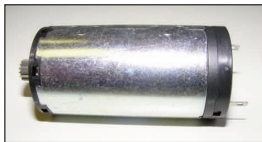


Motors

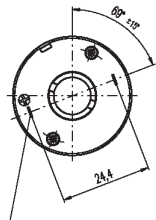
32mm Dia. Motor

DC Motors

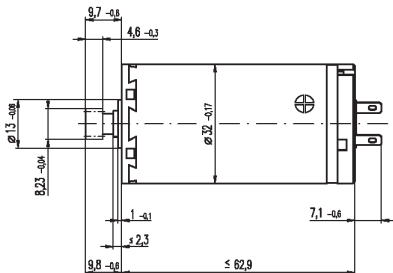
Ø4mm Motor Shaft
15 Watt - Graphite Bushes



Motors 15 W Ø32 mm



Terminal 2.8 x 0.4



Motor Data

HPCMAX242467 HPCMAX242472

Values at nominal voltage

		HPCMAX242467	HPCMAX242472	
1	Nominal voltage	V	12.0	24.0
2	No load speed	rpm	4670	5930
3	No load current	mA	58.4	38.6
4	Nominal speed	rpm	2860	4180
5	Nominal torque (max.continuous torque)	mNm	36.0	36.7
6	Nominal current (max.continuous current)	A	1.55	0.998

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER

HPCMAX242467
HPCMAX242472

Price Each 1-5

£269.81
£267.49

8.8

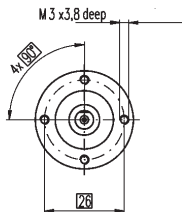
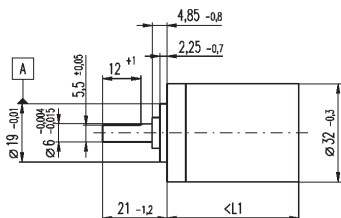


Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Ø32mm

Gearheads: DC Motors & Gearbox Combinations

0.75 - 4.5 NM ø6mm Output Shaft



Notes:

32mm planetary gearhead, supplied with fixing kit to suit motors opposite.

Maximum Speed: 6000 rpm

Maximum Axial Load: 120N

Maximum Radial Load at 12mm from Flange: 140N

Operating Temperature Range: -15°C to +80°C

Mass: 118-226g.

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER	Ratio	No. of Stages	Length L	Cont. Torque (Nm)	Peak Torque (Nm)	Efficiency	Average Backlash	Price Each 1-5
HPCMAX166156	4.8:1	1	26.5	0.75	1.0	80%	0.7°	£154.12
HPCMAX166159	18.0:1	2	36.4	2.25	3.4	75%	0.8°	£188.02
HPCMAX166165	66.0:1	3	43.1	4.50	6.5	75%	1.0°	£215.77
HPCMAX166169	111.0:1	3	43.1	4.50	6.5	70%	1.0°	£261.92
HPCMAX166174	246.0:1	4	49.8	4.50	6.5	60%	1.0°	£254.29

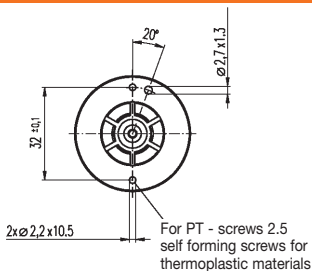


Motors

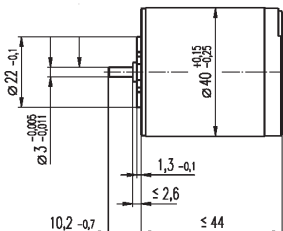
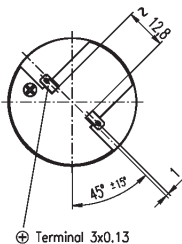
40mm Dia. Motor

DC Motors

Ø3mm Motor Shaft
4 Watt - Precious Metal Brushes



Motors 4 W Ø40 mm



Motor Data

HPCMAX2140934 HPCMAX2140937

Values at nominal voltage

1	Nominal voltage	V	12.0	24.0
2	No load speed	rpm	4090	4110
3	No load current	mA	12.3	6.19
4	Nominal speed	rpm	2430	2420
5	Nominal torque (max.continuous torque)	mNm	13.9	13.6
6	Nominal current (max.continuous current)	A	0.508	0.251

DISCOUNTS

1 - 5	List Price
6 - 19	-8%
20 +	-14%

PART NUMBER

Price Each 1-5

HPCMAX2140934	£103.52
HPCMAX2140937	£103.52

8.10



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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Ø38mm

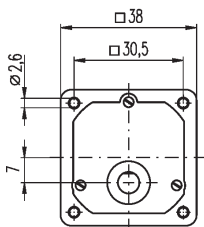
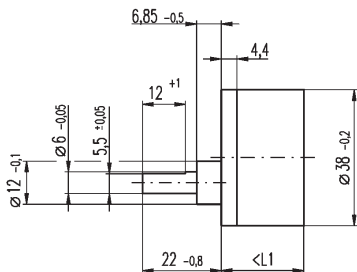
Gearheads: DC Motors & Gearbox

0.1 - 0.6 NM Ø6mm Output Shaft

Combinations



DC Motor & Gearbox Up to 0.6NM



Notes:

38mm spur gearhead, supplied with fixing kit to suit motors opposite, sleeve bearing output.

Pinion supplied loose with gearhead, requires attachment to motor shaft.

Maximum Axial Load: 30N

Maximum Radial Load at 5mm from Flange: 50N

Operating Temperature Range: -5°C to $+65^{\circ}\text{C}$

Mass: 60-75g.

DISCOUNTS

	List Price
1 - 5	
6 - 19	-8%
20 +	-14%

PART NUMBER	Ratio	No. of Stages	Length L	Cont. Torque (Nm)	Peak Torque (Nm)	Max Speed	Eff.	Average Backlash	Price Each 1-5
HPCMAX110453	18:1	3	23.2	0.2	0.6	5000	73%	1.5°	£48.64
HPCMAX110454	30:1	3	23.2	0.2	0.6	5000	73%	1.5°	£48.64
HPCMAX110455	60:1	4	25.7	0.3	1.8	5000	66%	2.0°	£53.42
HPCMAX110456	100:1	4	25.7	0.6	1.8	5000	66%	2.0°	£53.42
HPCMAX110457	200:1	5	28.2	0.6	1.8	5000	59%	2.5°	£55.60
HPCMAX110458	500:1	6	30.7	0.6	1.8	5000	53%	3.0°	£57.34
HPCMAX110459	900:1	6	30.7	0.6	1.8	5000	53%	3.0°	£57.34

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8.11

Motors

Motor Selection

The drive requirements must be defined before proceeding to motor selection.

- How fast and at which torques does the load move?
- How long do the individual load phases last?
- What accelerations take place?
- How great are the mass inertias?

Often the drive is indirect, this means that there is a mechanical transformation of the motor output power using belts, gears, screws and the like.

The drive parameters, therefore, are to be calculated to the motor shaft.

Additional steps for gear selection are listed below.

Furthermore, the power supply requirements need to be checked.

- Which maximum voltage is available at the motor terminals?
- Which limitations apply with regard to current?

The current and voltage of motors supplied with batteries or solar cells are very limited. In the case of control of the unit via a servo amplifier, the amplifier's maximum current is often an important limit.

Selection of motor types

The possible motor types are selected using the required torque. On the one hand, the peak torque, M_{max} is to be taken into consideration and on the other, the effective torque M_{RMS} . Continuous operation is characterised by a single operating point (M_B, n_B). The motor types in question must have a nominal torque (= max. continuous torque) M_N that is greater than operating torque M_B .

$$M_N > M_B$$

In work cycles, such as start/stop operation, the motor's nominal torque must be greater than the effective load torque (quadratically averaged). This prevents the motor from overheating.

$$M_N > M_{RMS}$$

The stall torque of the selected motor should usually exceed the emerging load peak torque.

$$M_H > M_{max}$$

Selection of the winding: electric requirement

In selecting the winding, it must be ensured that the voltage applied directly to the motor is sufficient for attaining the required speed in all operating points.

Unregulated operation

In applications with only one operating point, this is often achieved with a fixed voltage U . A winding is sought with a speed-torque line that passes through the operating point at the specified voltage. The calculation uses the fact that all motors of a type feature practically the same speed-torque gradient. A target no-load speed $n_{0,theor}$ is calculated from operating point (n_B, M_B) .

$$n_{0,theor} = n_B + \frac{\Delta n}{\Delta M} M_B$$

This target no-load speed must be achieved with the existing voltage U , which defines the target speed constant.

$$K_{0,theor} = \frac{n_{0,theor}}{U}$$

Those windings whose k_n is as close to $k_{0,theor}$ as possible, will approximate the operating point the best at the specified voltage. A somewhat larger speed constant results in a somewhat higher speed, a smaller speed constant results in a lower one. The variation of the voltage adjusts the speed to the required value, a principle that servo amplifiers also use.

Motor current I is calculated from the torque constant k_M of the selected winding and the operating torque M_B .

$$I = \frac{M_B}{k_M}$$

Regulated servo drives

In work cycles, all operating points must lie beneath the curve at a maximum voltage U_{max} . Mathematically, this means that the following must apply for all operating points (n_B, M_B) :

$$k_N \cdot U_{max} = n_0 > n_B + \frac{\Delta n}{\Delta M} M_B$$

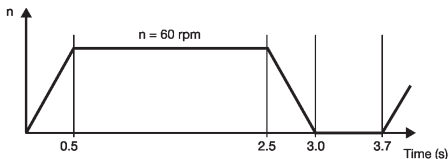
When using servo amplifiers, a voltage drop occurs at the power stage, so that the effective voltage applied to the motor is lower. This must be taken into consideration when determining the maximum supply voltage U_{max} . It is recommended that a regulating reserve of some 20% be included, so that regulation is even ensured with an unfavourable tolerance situation of motor, load, amplifier and supply voltage. Finally, the average current load and peak current are calculated ensuring that the servo amplifier used can deliver these currents. In some cases, a higher resistance winding must be selected, so that the currents are lower. However, the required voltage is then increased.

Motors

Motor Selection

Example for motor/gear selection

A drive should move cyclically in accordance with the following speed diagram.



The inertia of load J_L to be accelerated is 130000 gcm^2 . The constant friction torque is 300 mNm . The motor is to be driven with the linear 4-Q servo amplifier. The power supply delivers max. 5 A and 24 V .

Calculation of load data

The torque required for acceleration and braking are calculated as follows (motor and gearhead inertia omitted):

$$M\alpha = J_L \alpha = J_L \cdot \frac{\pi}{30} \frac{\Delta n}{\Delta t} = 0.013 \cdot \frac{\pi}{30} \cdot \frac{60}{0.5} = 0.0163 \text{ Nm} = 163 \text{ mNm}$$

Together with the friction torque, the following torques result for the different phases of motion.

– Acceleration phase	(duration 0.5 s)	463 mNm
– Constant speed	(duration 2 s)	300 mNm
– Braking (friction brakes with 300 mNm)	(duration 0.5 s)	137 mNm
– Standstill	(duration 0.7 s)	0 mNm

Peak torque occurs during acceleration.

The RMS determined torque of the entire work cycle is

$$M_{RMS} = \sqrt{\frac{1}{J_{tot}} (t_1 M_1^2 + t_2 M_2^2 + t_3 M_3^2 + t_4 M_4^2)}$$

$$= \sqrt{\frac{1}{3.7} (0.5 \cdot 463^2 + 2 \cdot 300^2 + 0.5 \cdot 137^2 + 0.7 \cdot 0^2)} \approx 280 \text{ mNm}$$

The maximum speed (60 rpm) occurs at the end of the acceleration phase at maximum torque (463 mNm). Thus, the peak mechanical power is:

$$P_{max} = M_{max} \cdot n_{max} \frac{\pi}{30} = 0.46 \cdot 60 \frac{\pi}{30} \approx 2.9 \text{ W}$$

Hard & Ground Racks & Pinions

Pages 9.2 – 9.7



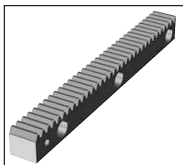
Hardened & Ground Spur Racks

Material

Straight Cut

20° P.A.

C45E DIN 1.1191



Profile: All faces ground
Quality: 6h23 DIN 3962/63/67

Adjacent pitch error (mm):

Mod ≤ 3: 0.006

Mod > 3: 0.008

Tolerance of cut for continuous mounting
-0.05 / -0.2 (mm)

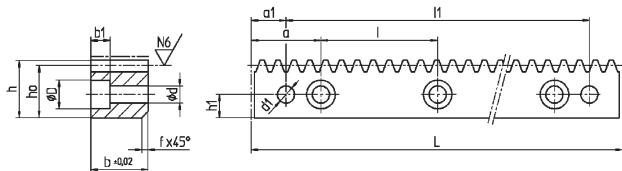
Spur Racks Straight Cut

PART NUMBER	Pitch	Mod	L	Teeth	b	h	h _o	f ^{+0.5}	a	l
HPC240012	4.712	1.5	499.51	106	19	19	17.50	2	62.44	124.88
HPC240013	4.712	1.5	999.03	212	19	19	17.50	2	62.44	124.88
HPC240022	6.283	2.0	502.65	80	24	24	22.00	2	62.83	125.66
HPC240023	6.283	2.0	1005.31	160	24	24	22.00	2	62.83	125.66
HPC240032	7.854	2.5	502.65	64	24	24	21.50	2	62.83	125.66
HPC240033	7.854	2.5	1005.31	128	24	24	21.50	2	62.83	125.66
HPC240042	9.425	3.0	508.94	54	29	29	26.00	2	63.62	127.23
HPC240043	9.425	3.0	1017.88	108	29	29	26.00	2	63.62	127.23
HPC240052	12.566	4.0	502.65	40	39	39	35.00	2	62.83	125.66
HPC240053	12.566	4.0	1005.31	80	39	39	35.00	2	62.83	125.66
HPC240062	15.708	5.0	502.65	32	49	39	34.00	3	62.83	125.66
HPC240063	15.708	5.0	1005.31	64	49	39	34.00	3	62.83	125.66
HPC240072	18.850	6.0	508.94	27	59	49	43.00	3	63.62	127.23
HPC240073	18.850	6.0	1017.88	54	59	49	43.00	3	63.62	127.23
HPC240082	25.133	8.0	502.65	20	79	79	71.00	3	62.83	125.66
HPC240083	25.133	8.0	1005.31	40	79	79	71.00	3	62.83	125.66
HPC240092	31.416	10.0	502.65	16	99	99	89.00	3	62.83	125.66
HPC240093	31.416	10.0	1005.31	32	99	99	89.00	3	62.83	125.66

Material**Hardened & Ground Spur Racks**

C45E DIN 1.1191

20° P.A.

Straight Cut

PART NUMBER	h_1	d	D	b_1	a_1	l_1	d_1	F_p	m (kg)	PRICE EACH
HPC240012	8	7	11	7	29.0	441.5	5.7	0.029	1.3	£152.49
HPC240013	8	7	11	7	29.0	941.0	5.7	0.043	2.6	£359.31
HPC240022	8	7	11	7	31.3	440.1	5.7	0.025	2.1	£178.47
HPC240023	8	7	11	7	31.3	942.7	5.7	0.036	4.2	£252.85
HPC240032	9	7	11	7	31.3	440.1	5.7	0.027	2.0	£185.29
HPC240033	9	7	11	7	31.3	942.7	5.7	0.036	4.1	£261.62
HPC240042	9	10	15	9	34.4	440.1	7.7	0.029	3.0	£214.85
HPC240043	9	10	15	9	34.4	949.1	7.7	0.037	6.0	£306.27
HPC240052	12	10	15	9	37.5	427.7	7.7	0.030	5.4	£299.62
HPC240053	12	10	15	9	37.5	930.3	7.7	0.037	10.8	£426.13
HPC240062	12	14	20	13	30.2	442.3	11.7	0.028	6.6	£370.75
HPC240063	12	14	20	13	30.2	944.9	11.7	0.034	13.1	£530.07
HPC240072	16	18	26	17	31.4	446.1	15.7	0.031	10.1	£464.30
HPC240073	16	18	26	17	31.4	955.0	15.7	0.036	20.3	£661.78
HPC240082	25	22	33	21	26.7	449.3	19.7	0.029	22.1	£859.25
HPC240083	25	22	33	21	26.7	952.0	19.7	0.033	44.3	£1226.44
HPC240092	32	33	48	32	125.2	252.3	19.7	0.029	34.8	£1141.50
HPC240093	32	33	48	32	125.2	755.0	19.7	0.032	69.5	£1630.17

 F_p : Cumulative pitch error (mm) m : Mass (kg)

Hardened & Ground Helical Racks Material

Helical Cut

19° 31' 42" H.A. RH.
20° P.A.

C45E DIN 1.1191



Profile: All faces ground
Quality: 6h23 DIN 3962/63/67

Adjacent pitch error (mm):

Mod ≤ 3: 0.006

Mod > 3: 0.008

Tolerance of cut for continuous mounting
-0.05 / -0.2 (mm)

Helical Racks Helical Cut

PART NUMBER	Normal Pitch	P_t	Mod	L	L_1	Teeth	b	h	h_o	f+0.5	a
HPC246012	4.712	5.00	1.5	500.00	6.7	100	19	19	17.50	2	62.5
HPC246013	4.712	5.00	1.5	1000.00	6.7	200	19	19	17.50	2	62.5
HPC246022	6.283	6.67	2.0	500.00	8.5	75	24	24	22.00	2	62.5
HPC246023	6.283	6.67	2.0	1000.00	8.5	150	24	24	22.00	2	62.5
HPC246032	7.854	8.33	2.5	500.00	8.5	60	24	24	21.50	2	62.5
HPC246033	7.854	8.33	2.5	1000.00	8.5	120	24	24	21.50	2	62.5
HPC246042	9.425	10.00	3.0	500.00	10.3	50	29	29	26.00	2	62.5
HPC246043	9.425	10.00	3.0	1000.00	10.3	100	29	29	26.00	2	62.5
HPC246052	12.566	13.33	4.0	506.67	13.8	38	39	39	35.00	3	62.5
HPC246053	12.566	13.33	4.0	1000.00	13.8	75	39	39	35.00	3	62.5
HPC246062	15.708	16.67	5.0	500.00	17.4	30	49	39	34.00	3	62.5
HPC246063	15.708	16.67	5.0	1000.00	17.4	60	49	39	34.00	3	62.5
HPC246072	18.850	20.00	6.0	500.00	20.9	25	59	49	43.00	3	62.5
HPC246073	18.850	20.00	6.0	1000.00	20.9	50	59	49	43.00	3	62.5
HPC246082	25.133	26.66	8.0	480.00	28.0	18	79	79	71.00	3	60.0
HPC246083	25.133	26.66	8.0	960.00	28.0	36	79	79	71.00	3	60.0
HPC246092	31.416	33.33	10.0	500.00	35.1	15	99	99	89.00	3	62.5
HPC246093	31.416	33.33	10.0	1000.00	35.1	30	99	99	89.00	3	62.5

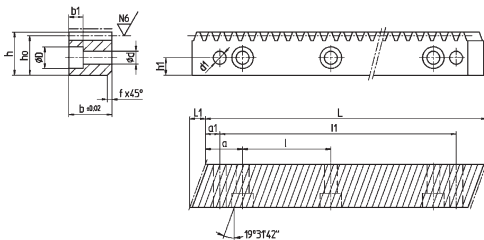
p_t (mm) : Transverse Pitch

Material **Hardened & Ground Helical Racks**

C45E DIN 1.1191

19° 31' 42" H.A. RH.
20° P.A.

Helical Cut



PART NUMBER	l	h ₁	d	D	b ₁	a ₁	l ₁	d ₁	F _p	m(kg)	PRICE EACH
HPC246012	125.00	8	7	11	7	31.7	436.6	5.7	0.029	1.3	£201.21
HPC246013	125.00	8	7	11	7	31.7	936.6	5.7	0.043	2.6	£288.26
HPC246022	125.00	8	7	11	7	31.7	436.6	5.7	0.025	2.1	£235.48
HPC246023	125.00	8	7	11	7	31.7	936.6	5.7	0.036	4.1	£333.89
HPC246032	125.00	9	7	11	7	31.7	436.6	5.7	0.027	2.0	£244.73
HPC246033	125.00	9	7	11	7	31.7	936.6	5.7	0.036	4.1	£345.42
HPC246042	125.00	9	10	15	9	35.0	430.0	7.7	0.028	3.0	£283.55
HPC246043	125.00	9	10	15	9	35.0	930.0	7.7	0.037	5.9	£404.70
HPC246052	125.00	12	10	15	9	33.3	433.0	7.7	0.030	5.4	£395.60
HPC246053	125.00	12	10	15	9	33.3	933.4	7.7	0.036	10.7	£562.55
HPC246062	125.00	12	14	20	13	37.5	425.0	11.7	0.028	6.5	£489.31
HPC246063	125.00	12	14	20	13	37.5	925.0	11.7	0.034	13.1	£699.78
HPC246072	125.00	16	18	26	17	37.5	425.0	15.7	0.031	10.0	£612.89
HPC246073	125.00	16	18	26	17	37.5	925.0	15.7	0.036	19.9	£873.54
HPC246082	120.00	25	22	33	21	120.0	240.0	19.7	0.029	22.0	£1134.20
HPC246083	120.00	25	22	33	21	120.0	720.0	19.7	0.033	44.0	£1618.96
HPC246092	125.00	32	33	48	32	125.0	250.0	19.7	0.029	34.0	£1506.90
HPC246093	125.00	32	33	48	32	125.0	750.0	19.7	0.032	68.0	£2151.80

F_p : Cumulative pitch error (mm)

m : Mass (kg)

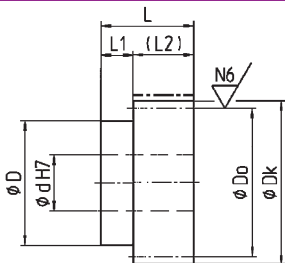
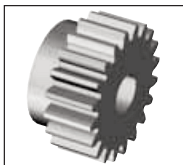


Hardened & Ground Spur Pinions Material

Straight Cut

20° P.A.

16MnCr5 DIN 1.7131



Spur Pinions Straight Cut

Quality: 6f24 DIN 3962/63/67

Adjacent pitch error (mm):

Mod ≤ 3: 0.006

Mod > 3: 0.008

Teeth : Hardened, ground, crowned

Bore : Soft

PART NUMBER	Pitch	Mod	Teeth	d	D _k	D ₀	D	L	L ₁	L ₂	J	m (kg)	PRICE EACH
HPC254012	4.712	1.5	20	10	33.0	30.0	25.0	28.0	8.0	20	15	0.12	£103.24
HPC254022	6.283	2.0	20	15	44.0	40.0	34.5	30.0	10.0	20	50	0.23	£105.00
HPC254032	7.854	2.5	20	15	55.0	50.0	40.0	37.0	12.0	25	142	0.45	£108.00
HPC254042	9.425	3.0	20	15	66.0	60.0	40.0	44.0	14.0	30	323	0.74	£125.00
HPC254052	12.566	4.0	20	30	88.0	80.0	65.0	59.0	19.0	40	1447	1.62	£180.96
HPC254062	15.708	5.0	20	40	110.0	100.0	85.0	70.0	20.0	50	4293	2.88	£234.50
HPC254072	18.850	6.0	20	50	132.0	120.0	104.0	100.0	40.0	60	12772	6.46	£820.44
HPC254082	25.133	8.0	20	50	176.0	160.0	120.0	130.0	50.0	80	47465	15.00	£1367.89
HPC254092	31.416	10.0	20	50	220.0	200.0	150.0	150.0	50.0	100	141188	29.10	£1739.30

J : (10-6 kg m²) Inertia

m : Mass (kg)

9.6

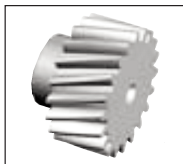
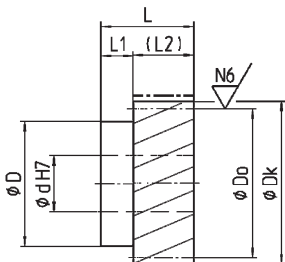


Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Material**Hardened & Ground Helical Pinions**

16MnCr5 DIN 1.7131

19° 31' 42" H.A. LH.
20° P.A.**Helical Cut****Quality: 6f24 DIN 3962/63/67****Adjacent pitch error (mm):****Mod ≤ 3: 0.006****Mod > 3: 0.008****Teeth : Hardened, ground, crowned****Bore : Soft**

PART NUMBER	Pitch	Mod	Teeth	d	D _k	D ₀	D	L	L ₁	L ₂	J	m (kg)	PRICE EACH
HPC254512	4.712	1.5	20	10	34.83	31.83	25.0	28.0	8.0	20	18	0.14	£108.40
HPC254522	6.283	2.0	20	15	46.44	42.44	35.0	30.0	10.0	20	60	0.25	£110.25
HPC254532	7.854	2.5	20	15	58.05	53.05	40.0	37.0	12.0	25	174	0.50	£113.40
HPC254542	9.425	3.0	20	15	69.66	63.66	40.0	44.0	14.0	30	403	0.82	£131.25
HPC254552	12.566	4.0	20	30	92.88	84.88	65.0	59.0	19.0	40	1782	1.81	£190.00
HPC254562	15.708	5.0	20	40	116.10	106.10	85.0	70.0	20.0	50	5317	3.26	£246.23
HPC254572	18.850	6.0	20	50	139.30	127.32	105.0	100.0	40.0	60	15310	7.13	£861.46
HPC254582	25.133	8.0	20	50	185.70	169.76	120.0	130.0	50.0	80	58243	16.6	£1436.28
HPC254592	31.416	10.0	20	50	232.20	213.21	150.0	150.0	50.0	100	173931	32.18	£1826.27

J : (10⁻⁶ kg m²) Inertia**m : Mass (kg)**

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Ratchets and Pawls

Pages 10.2 – 10.4

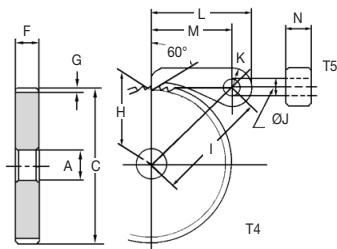


Ratchets & Pawls

Materials

Pitch 2.09 - 12.56

STD : Steel S45C
Induction hardened teeth



Pawls

PART NUMBER	J	K	L	M	N	Shape	Weight (kgf)	Price Each
SRT2/3-C	5	8.0	38.0	30	6	T4	0.02	£27.86
SRT1-C	8	10.0	49.0	39	12	T4	0.05	£42.25
SRT2-C	10	12.5	67.5	55	15	T4	0.12	£45.97
SRT3-C	12	15.0	80.0	65	20	T4	0.22	£52.23
SRT4-C	13	18.0	98.0	80	25	T4	0.30	£74.61

Ratchets

PART NUMBER	Pitch	No. of Teeth	Bore (A)	Outside Dia.(C)	Face Width(F)	Total Length
SRT2/3-50	2.09	50	10	33.3	6	6
SRT2/3-60		60	10	40		
SRT2/3-80		80	12	53.3		
SRT2/3-90		90	12	60		
SRT2/3-100		100	12	66.6		
SRT1-50	3.14	50	12	50	12	12
SRT1-60		60	15	60		
SRT1-80		80	15	80		
SRT1-90		90	15	90		
SRT1-100		100	15	100		
SRT2-30	6.28	30	15	60	15	15
SRT2-40		40	15	80		
SRT2-50		50	15	100		
SRT2-60		60	15	120		
SRT3-30		9.42	30	15		
SRT3-40	40		20	120		
SRT3-50	50		20	150		
SRT4-30	30		20	120		
SRT4-40	12.56		40	20	160	25
SRT4-50		50	20	200		

10.2



Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

STD : Steel S45C
Induction hardened teeth

Ratchets & Pawls

Pitch 2.09 - 12.56



SPECIFICATIONS

CATALOGUE NO.	SRT - C / SRT
Angle of jaw or teeth	60°
Material	S45C
Heat treatment	Induction harden teeth
Surface hardness	HRC48 ~ 53
Surface treatment	Black oxide
Surface finish	Cut
Datum reference surface for teeth cutting	Bore

DISCOUNTS

1 - 9	List Price
10 - 29	- 5%
30 - 49	- 10%
50 - 99	- 15%
100 - 200	- 20%

PART NUMBER	Depth of Teeth(G)	Mounting Distance	Centre Distance	Shape	Allowable Load (kgf) Bending strength	Allowable Load (N) Bending strength	Weight (kgf)	Price Each 1-9
SRT2/3-50	1.0	15.5	33.5	T4	20	196.1	0.034	£29.08
SRT2/3-60		19.0	35.2		22	215.8	0.053	£33.82
SRT2/3-80		25.5	39.1		24	235.4	0.095	£43.49
SRT2/3-90		29.0	41.4		25	245.2	0.120	£47.75
SRT2/3-100		32.0	43.5		26	255.0	0.150	£55.46
SRT1-50	1.6	23.4	45.4	T4	64	627.6	0.160	£34.27
SRT1-60		28.4	48.1		70	686.5	0.240	£40.76
SRT1-80		38.4	54.6		78	764.9	0.440	£53.96
SRT1-90		43.4	58.2		81	794.3	0.560	£59.95
SRT1-100		48.4	62.0		83	814.0	0.700	£73.37
SRT2-30	3.1	26.9	61.1	T4	110	1079.0	0.280	£41.79
SRT2-40		36.9	66.0		136	1334.0	0.530	£55.46
SRT2-50		46.9	72.0		154	1510.0	0.860	£70.36
SRT2-60		56.9	78.9		169	1657.0	1.240	£82.34
SRT3-30	5.0	40.0	76.2	T4	236	2314.0	0.860	£74.61
SRT3-40		55.0	85.0		292	2864.0	1.580	£109.19
SRT3-50		70.0	95.4		333	3266.0	2.540	£158.49
SRT4-30	7.4	52.6	95.7	T4	438	4295.0	1.910	£149.27
SRT4-40		72.6	108.0		541	5305.0	3.540	£217.72
SRT4-50		92.6	122.4		616	6041.0	5.680	£311.07

Pawls & Ratchets steel PITCH 2.09/12.56



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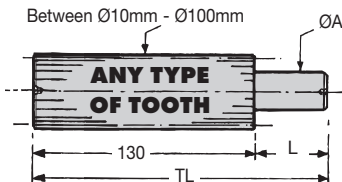
Toothed Bar Stock

Pages 11.2 – 11.3



**ASG
AKG**

Toothed Bar Stock

Materials**0.25MOD - 2MOD
96DP - 12DP****STD : Steel 214M15 (En202)
or Stainless Steel 303S21
(En58)**

Helical Gear, Spur Gear, Timing Pulleys

Prices are with teeth finished to your specification.
When ordering Toothed Bar Stock in Helical form, face width will be 115mm. Certain tooth forms not available, consult technical.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Steel 214M15 (En202)

PART NUMBER	ØD BETWEEN	L	TL	ØA BOSS	Price Each 1-5
ASG2	10 - 30	30	160	12	£45.64
ASG3	31 - 40	30	160	15	£59.77
ASG4	41 - 50	40	170	15	£98.98
ASG5	51 - 60	40	170	15	£129.99
ASG6	61 - 100	40	170	15	£232.63

Stainless Steel 303S21 (En58)

PART NUMBER	ØD BETWEEN	L	TL	ØA BOSS	Price Each 1-5
AKG2	10 - 30	30	160	12	£70.13
AKG3	31 - 40	30	160	15	£85.02
AKG4	41 - 50	40	170	15	£143.84
AKG5	51 - 60	40	170	15	£172.26
AKG6	61 - 100	40	170	15	£270.49

Toothed Bar Stock ASG AKG**11.2**

Unit 14, Foxwood Industrial Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Materials

STD : Delrin, Tufnol,
Aluminium or Brass CZ121

Toothed Bar Stock

0.25MOD - 2MOD
96DP - 12DP

ADG
ATG
AAG
ABG

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Delrin

PART NUMBER	ØD BETWEEN	L	TL	ØA BOSS	Price Each 1-5
ADG2	10 - 30	30	160	12	£44.80
ADG3	31 - 40	30	160	15	£58.16
ADG4	41 - 50	40	170	15	£77.33
ADG5	51 - 60	40	170	15	£116.13
ADG6	61 - 100	40	170	15	£219.61

Tufnol

PART NUMBER	ØD BETWEEN	L	TL	ØA BOSS	Price Each 1-5
ATG2	25 - 30	30	100	12	£68.20
ATG3	31 - 40	30	100	15	£83.08
ATG4	41 - 50	30	100	15	£141.89
ATG5	51 - 60	30	100	15	£170.32
ATG6	61 - 100	30	100	15	£268.57

Aluminium

PART NUMBER	ØD BETWEEN	L	TL	ØA BOSS	Price Each 1-5
AAG2	10 - 30	30	160	12	£59.11
AAG3	31 - 40	30	160	15	£66.43
AAG4	41 - 50	40	170	15	£118.31
AAG5	51 - 60	40	170	15	£133.98
AAG6	61 - 100	40	170	15	£238.48

Brass cz121

PART NUMBER	ØD BETWEEN	L	TL	ØA BOSS	Price Each 1-5
ABG2	10 - 30	30	160	12	£68.20
ABG3	31 - 40	30	160	15	£83.08
ABG4	41 - 50	40	170	15	£141.89
ABG5	51 - 60	40	170	15	£170.32
ABG6	61 - 100	40	170	15	£268.57

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11.3

Toothed Bar Stock

ADG,ATG,AAG,ABG

TECHNICAL REQUEST

Non-Standard Pulleys

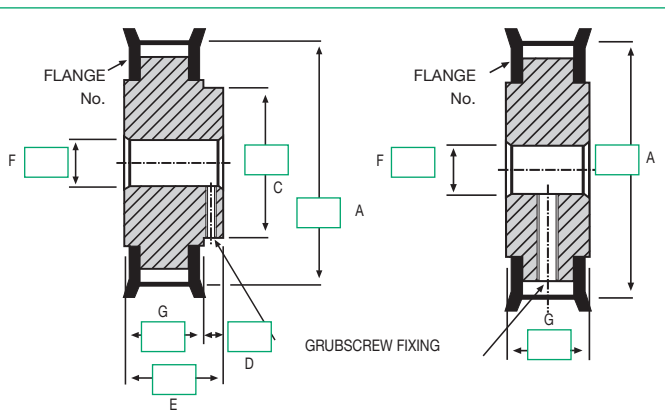
photocopy double

size and fax on

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QUANTITY	_____	BORE DIAMETER (F)	_____
MATERIAL	_____	FACE WIDTH (G)	_____
NUMBER OF TEETH	_____	CENTRES (C)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
BOSS DIAMETER (C)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OVERALL WIDTH (E)	_____		

SPECIAL FEATURES



Pulleys and Belts

Pages 12.2 – 12.145

*Zero Backlash tooth form available on request. For prices contact sales.
Cold temperature sub zero °C belts available on request.
Please consult technical support.*

TECHNICAL

Pages 27.17 – 27.47



*For non-standard Pulleys use form on opposite page or send
a drawing or sample for a free, no-obligation quote.*

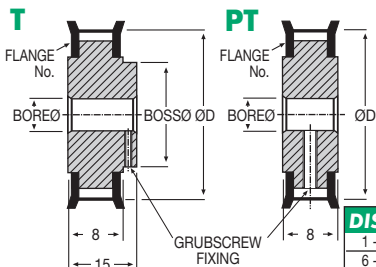
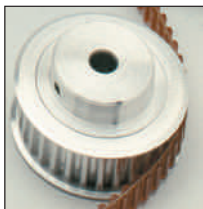


Timing Pulleys

Materials

2.5mm Pitch : 4mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 238**

ALL PULLEYS FLANGED, (X, Y in Aluminium)

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 2.5-8	10	7.96	10 X,Y	7.40	13	3	£9.09	£8.63
11T 2.5-8	11	8.75	10 X,Y	8.20	13	3	£9.24	£8.77
12T 2.5-8	12	9.55	10 X,Y	9.00	13	3	£9.38	£8.91
13T 2.5-8	13	10.35	13 X,Y	9.80	16	3	£9.62	£9.16
14T 2.5-8	14	11.14	16 X,Y	10.60	18	3	£9.74	£9.26
15T 2.5-8	15	11.94	16 X,Y	11.40	18	3	£9.94	£9.40
16T 2.5-8	16	12.73	16 X,Y	12.20	18	4	£10.02	£9.53
17T 2.5-8	17	13.53	31 X,Y	13.00	18	4	£10.19	£9.67
18T 2.5-8	18	14.32	31 X,Y	13.80	18	4	£10.28	£9.74
19T 2.5-8	19	15.12	32 X,Y	14.60	20	4	£10.44	£9.94
20T 2.5-8	20	15.92	32 X,Y	15.40	20	4	£10.57	£10.02
21T 2.5-8	21	16.71	32 X,Y	16.20	20	4	£10.70	£10.19
22T 2.5-8	22	17.51	32 X,Y	17.00	20	4	£10.81	£10.30
23T 2.5-8	23	18.30	12 XL	17.80	13	4	£10.96	£10.42
24T 2.5-8	24	19.10	12 XL	18.55	13	4	£11.10	£10.54
25T 2.5-8	25	19.89	12 XL	19.35	13	4	£11.21	£10.68
26T 2.5-8	26	20.69	12 XL	20.15	13	5	£11.35	£10.80
27T 2.5-8	27	21.49	12 XL	20.95	13	5	£11.50	£10.95
28T 2.5-8	28	22.28	14 XL	21.75	13	5	£11.59	£10.99
29T 2.5-8	29	23.08	16 XL	22.55	20	5	£11.77	£11.18
30T 2.5-8	30	23.87	16 XL	23.35	20	5	£11.89	£11.30
31T 2.5-8	31	24.67	18 XL	24.15	20	5	£12.04	£11.36
32T 2.5-8	32	25.46	18 XL	24.95	20	5	£12.09	£11.51
33T 2.5-8	33	26.26	18 XL	25.75	20	5	£12.22	£11.58
34T 2.5-8	34	27.06	18 XL	26.55	20	5	£12.24	£11.59
35T 2.5-8	35	27.85	18 XL	27.35	20	5	£12.32	£11.65
36T 2.5-8	36	28.65	18 XL	28.10	20	5	£12.33	£11.77

Pulleys & Belts PITCH 2.5mm

12.2



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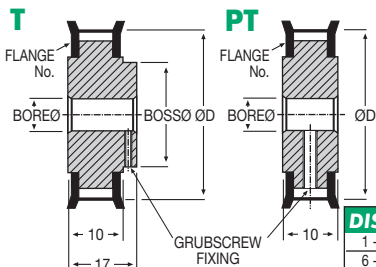
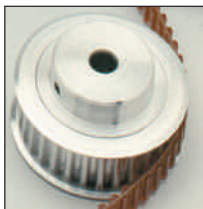
PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 2.5-8	37	29.44	20XL	28.90	24	6	£12.34	£11.83
38T 2.5-8	38	30.24	20XL	29.70	24	6	£12.39	£11.84
39T 2.5-8	39	31.04	20XL	30.50	24	6	£12.50	£11.86
40T 2.5-8	40	31.83	21XL	31.30	24	6	£12.66	£11.96
41T 2.5-8	41	32.83	21XL	32.10	24	6	£12.76	£12.09
42T 2.5-8	42	33.42	21XL	32.90	24	6	£12.85	£12.23
43T 2.5-8	43	34.22	21XL	33.70	24	6	£13.03	£12.39
44T 2.5-8	44	35.01	21XL	34.50	24	6	£13.14	£12.50
45T 2.5-8	45	35.81	22XL	35.30	24	6	£13.28	£12.64
46T 2.5-8	46	36.61	22XL	36.10	24	6	£13.41	£12.75
47T 2.5-8	47	37.40	22XL	36.90	24	6	£13.57	£12.83
48T 2.5-8	48	38.20	24XL	37.70	24	6	£13.65	£13.01
49T 2.5-8	49	38.99	24XL	38.45	24	6	£13.78	£13.12
50T 2.5-8	50	39.79	24XL	39.25	24	6	£13.96	£13.25
51T 2.5-8	51	40.58	24XL	40.05	24	6	£14.06	£13.32
52T 2.5-8	52	41.38	24XL	40.85	24	6	£14.20	£13.48
53T 2.5-8	53	42.18	26XL	41.65	24	6	£14.33	£13.61
54T 2.5-8	54	42.97	26XL	42.45	24	6	£14.46	£13.71
55T 2.5-8	55	43.77	28XL	43.25	24	6	£14.63	£13.82
56T 2.5-8	56	44.56	28XL	44.05	24	6	£14.69	£13.97
57T 2.5-8	57	45.36	28XL	44.85	24	6	£14.83	£14.07
58T 2.5-8	58	46.15	28XL	45.65	24	6	£15.03	£14.29
59T 2.5-8	59	46.95	28XL	46.45	24	6	£15.20	£14.46
60T 2.5-8	60	47.75	30XL	47.25	24	6	£15.37	£14.61
61T 2.5-8	61	48.54	30XL	48.05	24	6	£15.50	£14.73
62T 2.5-8	62	49.34	30XL	48.85	24	6	£15.60	£14.83
63T 2.5-8	63	50.13	30XL	49.60	24	6	£15.77	£14.97
64T 2.5-8	64	50.93	17L	50.40	24	6	£15.90	£15.11
65T 2.5-8	65	51.73	14H	51.20	24	6	£16.09	£15.33
66T 2.5-8	66	52.52	14H	52.00	24	6	£16.32	£15.50
67T 2.5-8	67	53.32	14H	52.80	24	6	£16.46	£15.65
68T 2.5-8	68	54.11	14H	53.60	24	6	£16.57	£15.77
69T 2.5-8	69	54.91	15H	54.40	24	6	£16.73	£15.89
70T 2.5-8	70	55.70	15H	55.20	24	6	£16.99	£16.18
71T 2.5-8	71	56.50	15H	56.00	24	6	£17.15	£16.27
72T 2.5-8	72	57.30	15H	56.80	24	6	£17.29	£16.42
73T 2.5-8	73	58.09	16H	57.59	24	6	£17.38	£16.53
74T 2.5-8	74	58.89	16H	58.39	24	6	£17.52	£16.68
75T 2.5-8	75	59.68	16H	59.18	24	6	£17.67	£16.78
76T 2.5-8	76	60.48	17H	59.98	24	6	£17.81	£16.93
77T 2.5-8	77	61.27	17H	60.77	24	6	£17.90	£16.99
78T 2.5-8	78	62.07	17H	61.57	24	6	£18.10	£17.24
79T 2.5-8	79	62.87	17H	62.37	24	6	£18.23	£17.30
80T 2.5-8	80	63.66	17H	63.16	24	6	£18.34	£17.43
81T 2.5-8	81	64.46	17H	63.96	24	6	£18.48	£17.52
82T 2.5-8	82	65.25	17H	64.75	24	6	£18.71	£17.67
83T 2.5-8	83	66.05	17H	65.55	24	6	£18.74	£17.81
84T 2.5-8	84	66.85	18H	66.35	24	6	£18.83	£18.09
238T 2.5-8	238	189.39	48H	188.89	50	20	£133.46	£109.75

Timing Pulleys

Materials

2.5 mm Pitch : 6mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 238**

ALL PULLEYS FLANGED, (X, Y in Aluminium)

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 2.5-10	10	7.96	10 X,Y	7.40	13	3	£9.40	£8.91
11T 2.5-10	11	8.75	10 X,Y	8.20	13	3	£9.53	£9.03
12T 2.5-10	12	9.55	10 X,Y	9.00	13	3	£9.68	£9.18
13T 2.5-10	13	10.35	13 X,Y	9.80	16	3	£9.82	£9.31
14T 2.5-10	14	11.14	16 X,Y	10.60	18	3	£9.95	£9.47
15T 2.5-10	15	11.94	16 X,Y	11.40	18	3	£10.04	£9.53
16T 2.5-10	16	12.73	16 X,Y	12.20	18	4	£10.21	£9.68
17T 2.5-10	17	13.53	31 X,Y	13.00	18	4	£10.31	£9.82
18T 2.5-10	18	14.32	31 X,Y	13.80	18	4	£10.44	£9.95
19T 2.5-10	19	15.12	32 X,Y	14.60	20	4	£10.57	£10.04
20T 2.5-10	20	15.92	32 X,Y	15.40	20	4	£10.73	£10.19
21T 2.5-10	21	16.71	32 X,Y	16.20	20	4	£10.81	£10.28
22T 2.5-10	22	17.51	32 X,Y	17.00	20	4	£10.96	£10.42
23T 2.5-10	23	18.30	12 XL	17.80	13	4	£11.12	£10.54
24T 2.5-10	24	19.10	12 XL	18.55	13	4	£11.25	£10.70
25T 2.5-10	25	19.89	12 XL	19.35	13	4	£11.34	£10.77
26T 2.5-10	26	20.69	12 XL	20.15	13	5	£11.49	£10.94
27T 2.5-10	27	21.49	12 XL	20.95	13	5	£11.65	£10.99
28T 2.5-10	28	22.28	14 XL	21.75	13	5	£11.74	£11.19
29T 2.5-10	29	23.08	16 XL	22.55	20	5	£11.86	£11.29
30T 2.5-10	30	23.87	16 XL	23.35	20	5	£12.05	£11.36
31T 2.5-10	31	24.67	18 XL	24.15	20	5	£12.14	£11.51
32T 2.5-10	32	25.46	18 XL	24.95	20	5	£12.24	£11.65
33T 2.5-10	33	26.26	18 XL	25.75	20	5	£12.39	£11.81
34T 2.5-10	34	27.06	18 XL	26.55	20	5	£12.52	£11.90
35T 2.5-10	35	27.85	18 XL	27.35	20	5	£12.64	£11.93
36T 2.5-10	36	28.65	18 XL	28.10	20	5	£12.66	£11.96

Pulleys & Belts PITCH 2.5mm



PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 2.5-10	37	29.44	20XL	28.90	24	6	£12.77	£12.14
38T 2.5-10	38	30.24	20XL	29.70	24	6	£12.95	£12.32
39T 2.5-10	39	31.04	20XL	30.50	24	6	£13.14	£12.50
40T 2.5-10	40	31.83	21XL	31.30	24	6	£13.32	£12.67
41T 2.5-10	41	32.83	21XL	32.10	24	6	£13.41	£12.83
42T 2.5-10	42	33.42	21XL	32.90	24	6	£13.65	£13.01
43T 2.5-10	43	34.22	21XL	33.70	24	6	£13.82	£13.14
44T 2.5-10	44	35.01	21XL	34.50	24	6	£14.02	£13.30
45T 2.5-10	45	35.81	22XL	35.30	24	6	£14.20	£13.48
46T 2.5-10	46	36.61	22XL	36.10	24	6	£14.33	£13.61
47T 2.5-10	47	37.40	22XL	36.90	24	6	£14.46	£13.71
48T 2.5-10	48	38.20	24XL	37.70	24	6	£14.61	£13.82
49T 2.5-10	49	38.99	24XL	38.45	24	6	£14.69	£13.97
50T 2.5-10	50	39.79	24XL	39.25	24	6	£14.83	£14.07
51T 2.5-10	51	40.58	24XL	40.05	24	6	£15.00	£14.26
52T 2.5-10	52	41.38	24XL	40.85	24	6	£15.14	£14.38
53T 2.5-10	53	42.18	26XL	41.65	24	6	£15.33	£14.39
54T 2.5-10	54	42.97	26XL	42.45	24	6	£15.42	£14.66
55T 2.5-10	55	43.77	28XL	43.25	24	6	£15.51	£14.74
56T 2.5-10	56	44.56	28XL	44.05	24	6	£15.74	£14.95
57T 2.5-10	57	45.36	28XL	44.85	24	6	£15.86	£15.04
58T 2.5-10	58	46.15	28XL	45.65	24	6	£15.90	£15.11
59T 2.5-10	59	46.95	28XL	46.45	24	6	£15.98	£15.19
60T 2.5-10	60	47.75	30XL	47.25	24	6	£16.18	£15.39
61T 2.5-10	61	48.54	30XL	48.05	24	6	£16.27	£15.48
62T 2.5-10	62	49.34	30XL	48.85	24	6	£16.45	£15.60
63T 2.5-10	63	50.13	30XL	49.60	24	6	£16.56	£15.74
64T 2.5-10	64	50.93	17L	50.40	24	6	£16.70	£15.86
65T 2.5-10	65	51.73	14H	51.20	24	6	£16.83	£15.97
66T 2.5-10	66	52.52	14H	52.00	24	6	£16.95	£16.13
67T 2.5-10	67	53.32	14H	52.80	24	6	£17.07	£16.23
68T 2.5-10	68	54.11	14H	53.60	24	6	£17.26	£16.32
69T 2.5-10	69	54.91	15H	54.40	24	6	£17.34	£16.46
70T 2.5-10	70	55.70	15H	55.20	24	6	£17.48	£16.57
71T 2.5-10	71	56.50	15H	56.00	24	6	£17.61	£16.73
72T 2.5-10	72	57.30	15H	56.80	24	6	£17.77	£16.85
73T 2.5-10	73	58.09	16H	57.59	24	6	£17.87	£16.95
74T 2.5-10	74	58.89	16H	58.39	24	6	£17.99	£17.07
75T 2.5-10	75	59.68	16H	59.18	24	6	£18.13	£17.26
76T 2.5-10	76	60.48	17H	59.98	24	6	£18.24	£17.34
77T 2.5-10	77	61.27	17H	60.77	24	6	£18.40	£17.48
78T 2.5-10	78	62.07	17H	61.57	24	6	£18.52	£17.59
79T 2.5-10	79	62.87	17H	62.37	24	6	£18.67	£17.73
80T 2.5-10	80	63.66	17H	63.16	24	6	£18.77	£17.83
81T 2.5-10	81	64.46	17H	63.96	24	6	£18.88	£17.94
82T 2.5-10	82	65.25	17H	64.75	24	6	£19.04	£18.10
83T 2.5-10	83	66.05	17H	65.55	24	6	£19.16	£18.18
84T 2.5-10	84	66.85	18H	66.35	24	6	£19.39	£18.42
238T 2.5-10	238	189.39	48H	188.89	50	20	£140.13	£115.23

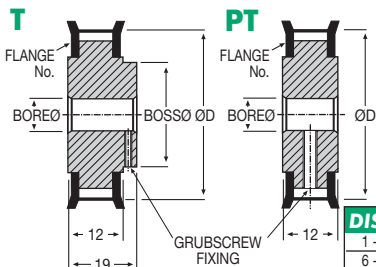


Timing Pulleys

Materials

2.5 mm Pitch : 8mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 238**

ALL PULLEYS FLANGED, (X, Y in Aluminium)

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 2.5-12	10	7.96	10 X,Y	7.40	13	3	£9.87	£9.37
11T 2.5-12	11	8.75	10 X,Y	8.20	13	3	£10.01	£9.50
12T 2.5-12	12	9.55	10 X,Y	9.00	13	3	£10.19	£9.62
13T 2.5-12	13	10.35	13 X,Y	9.80	16	3	£10.31	£9.82
14T 2.5-12	14	11.14	16 X,Y	10.60	18	3	£10.44	£9.94
15T 2.5-12	15	11.94	16 X,Y	11.40	18	3	£10.57	£10.01
16T 2.5-12	16	12.73	16 X,Y	12.20	18	4	£10.73	£10.19
17T 2.5-12	17	13.53	31 X,Y	13.00	18	4	£10.81	£10.31
18T 2.5-12	18	14.32	31 X,Y	13.80	18	4	£10.97	£10.44
19T 2.5-12	19	15.12	32 X,Y	14.60	20	4	£11.11	£10.57
20T 2.5-12	20	15.92	32 X,Y	15.40	20	4	£11.28	£10.72
21T 2.5-12	21	16.71	32 X,Y	16.20	20	4	£11.36	£10.79
22T 2.5-12	22	17.51	32 X,Y	17.00	20	4	£11.51	£10.95
23T 2.5-12	23	18.30	12 XL	17.80	13	4	£11.70	£11.10
24T 2.5-12	24	19.10	12 XL	18.55	13	4	£11.83	£11.21
25T 2.5-12	25	19.89	12 XL	19.35	13	4	£11.91	£11.33
26T 2.5-12	26	20.69	12 XL	20.15	13	5	£12.07	£11.48
27T 2.5-12	27	21.49	12 XL	20.95	13	5	£12.22	£11.56
28T 2.5-12	28	22.28	14 XL	21.75	13	5	£12.34	£11.76
29T 2.5-12	29	23.08	16 XL	22.55	20	5	£12.48	£11.86
30T 2.5-12	30	23.87	16 XL	23.35	20	5	£12.66	£11.96
31T 2.5-12	31	24.67	18 XL	24.15	20	5	£12.76	£12.09
32T 2.5-12	32	25.46	18 XL	24.95	20	5	£12.89	£12.23
33T 2.5-12	33	26.26	18 XL	25.75	20	5	£13.01	£12.41
34T 2.5-12	34	27.06	18 XL	26.55	20	5	£13.19	£12.51
35T 2.5-12	35	27.85	18 XL	27.35	20	5	£13.27	£12.56
36T 2.5-12	36	28.65	18 XL	28.10	20	5	£13.30	£12.57

Pulleys & Belts PITCH 2.5mm

12.6



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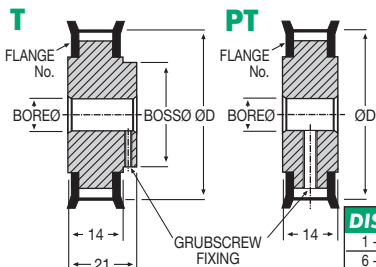
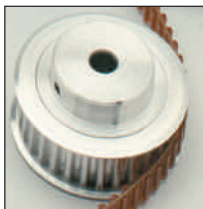
PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 2.5-12	37	29.44	20XL	28.90	24	6	£13.41	£12.76
38T 2.5-12	38	30.24	20XL	29.70	24	6	£13.63	£12.94
39T 2.5-12	39	31.04	20XL	30.50	24	6	£13.82	£13.13
40T 2.5-12	40	31.83	21XL	31.30	24	6	£14.02	£13.31
41T 2.5-12	41	32.83	21XL	32.10	24	6	£14.09	£13.48
42T 2.5-12	42	33.42	21XL	32.90	24	6	£14.36	£13.65
43T 2.5-12	43	34.22	21XL	33.70	24	6	£14.50	£13.82
44T 2.5-12	44	35.01	21XL	34.50	24	6	£14.74	£13.98
45T 2.5-12	45	35.81	22XL	35.30	24	6	£14.90	£14.15
46T 2.5-12	46	36.61	22XL	36.10	24	6	£15.06	£14.31
47T 2.5-12	47	37.40	22XL	36.90	24	6	£15.20	£14.43
48T 2.5-12	48	38.20	24XL	37.70	24	6	£15.33	£14.50
49T 2.5-12	49	38.99	24XL	38.45	24	6	£15.45	£14.68
50T 2.5-12	50	39.79	24XL	39.25	24	6	£15.61	£14.78
51T 2.5-12	51	40.58	24XL	40.05	24	6	£15.74	£14.96
52T 2.5-12	52	41.38	24XL	40.85	24	6	£15.93	£15.14
53T 2.5-12	53	42.18	26XL	41.65	24	6	£16.05	£15.14
54T 2.5-12	54	42.97	26XL	42.45	24	6	£16.19	£15.39
55T 2.5-12	55	43.77	28XL	43.25	24	6	£16.35	£15.50
56T 2.5-12	56	44.56	28XL	44.05	24	6	£16.53	£15.69
57T 2.5-12	57	45.36	28XL	44.85	24	6	£16.68	£15.78
58T 2.5-12	58	46.15	28XL	45.65	24	6	£16.73	£15.89
59T 2.5-12	59	46.95	28XL	46.45	24	6	£16.81	£15.97
60T 2.5-12	60	47.75	30XL	47.25	24	6	£16.98	£16.15
61T 2.5-12	61	48.54	30XL	48.05	24	6	£17.13	£16.27
62T 2.5-12	62	49.34	30XL	48.85	24	6	£17.28	£16.42
63T 2.5-12	63	40.13	30XL	49.60	24	6	£17.38	£16.53
64T 2.5-12	64	50.93	17L	50.40	24	6	£17.55	£16.68
65T 2.5-12	65	51.73	14H	51.20	24	6	£17.67	£16.79
66T 2.5-12	66	52.52	14H	52.00	24	6	£17.81	£16.93
67T 2.5-12	67	53.32	14H	52.80	24	6	£17.95	£17.07
68T 2.5-12	68	54.11	14H	53.60	24	6	£18.10	£17.18
69T 2.5-12	69	54.91	15H	54.40	24	6	£18.23	£17.29
70T 2.5-12	70	55.70	15H	55.20	24	6	£18.37	£17.43
71T 2.5-12	71	56.50	15H	56.00	24	6	£18.48	£17.59
72T 2.5-12	72	57.30	15H	56.80	24	6	£18.66	£17.69
73T 2.5-12	73	58.09	16H	57.59	24	6	£18.77	£17.81
74T 2.5-12	74	58.89	16H	58.39	24	6	£18.88	£17.95
75T 2.5-12	75	59.68	16H	59.18	24	6	£19.04	£18.10
76T 2.5-12	76	60.48	17H	59.98	24	6	£19.16	£18.23
77T 2.5-12	77	61.27	17H	60.77	24	6	£19.33	£18.37
78T 2.5-12	78	62.07	17H	61.57	24	6	£19.49	£18.47
79T 2.5-12	79	62.87	17H	62.37	24	6	£19.61	£18.65
80T 2.5-12	80	63.66	17H	63.16	24	6	£19.72	£18.74
81T 2.5-12	81	64.46	17H	63.96	24	6	£19.85	£18.84
82T 2.5-12	82	65.25	17H	64.75	24	6	£20.00	£19.02
83T 2.5-12	83	66.05	17H	65.55	24	6	£20.15	£19.13
84T 2.5-12	84	66.85	18H	66.35	24	6	£20.36	£19.36
238T 2.5-12	238	189.39	48H	188.89	50	20	£147.15	£120.96

Timing Pulleys

Materials

2.5 mm Pitch : 10mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 238**

ALL PULLEYS FLANGED, (X, Y in Aluminium)

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 2.5-14	10	7.96	10X,Y	7.40	13	3	£10.08	£9.55
11T 2.5-14	11	8.75	10X,Y	8.20	13	3	£10.22	£9.70
12T 2.5-14	12	9.55	10X,Y	9.00	13	3	£10.36	£9.86
13T 2.5-14	13	10.35	13X,Y	9.80	16	3	£10.50	£9.99
14T 2.5-14	14	11.14	16X,Y	10.60	18	3	£10.68	£10.09
15T 2.5-14	15	11.94	16X,Y	11.40	18	3	£10.79	£10.25
16T 2.5-14	16	12.73	16X,Y	12.20	18	4	£10.95	£10.36
17T 2.5-14	17	13.53	31X,Y	13.00	18	4	£11.06	£10.50
18T 2.5-14	18	14.32	31X,Y	13.80	18	4	£11.20	£10.68
19T 2.5-14	19	15.12	32X,Y	14.60	20	4	£11.34	£10.77
20T 2.5-14	20	15.92	32X,Y	15.40	20	4	£11.49	£10.94
21T 2.5-14	21	16.71	32X,Y	16.20	20	4	£11.65	£10.99
22T 2.5-14	22	17.51	32X,Y	17.00	20	4	£11.81	£11.20
23T 2.5-14	23	18.30	12XL	17.80	13	4	£11.90	£11.33
24T 2.5-14	24	19.10	12XL	18.55	13	4	£12.06	£11.40
25T 2.5-14	25	19.89	12XL	19.35	13	4	£12.19	£11.58
26T 2.5-14	26	20.69	12XL	20.15	13	5	£12.33	£11.73
27T 2.5-14	27	21.49	12XL	20.95	13	5	£12.48	£11.85
28T 2.5-14	28	22.28	14XL	21.75	13	5	£12.64	£11.96
29T 2.5-14	29	23.08	16XL	22.55	20	5	£12.76	£12.09
30T 2.5-14	30	23.87	16XL	23.35	20	5	£12.85	£12.23
31T 2.5-14	31	24.67	18XL	24.15	20	5	£13.03	£12.39
32T 2.5-14	32	25.46	18XL	24.95	20	5	£13.18	£12.52
33T 2.5-14	33	26.26	18XL	25.75	20	5	£13.30	£12.66
34T 2.5-14	34	27.06	18XL	26.55	20	5	£13.46	£12.76
35T 2.5-14	35	27.85	18XL	27.35	20	5	£13.61	£12.94
36T 2.5-14	36	28.65	18XL	28.10	20	5	£13.75	£13.09

Pulleys & Belts PITCH 2.5mm

12.8



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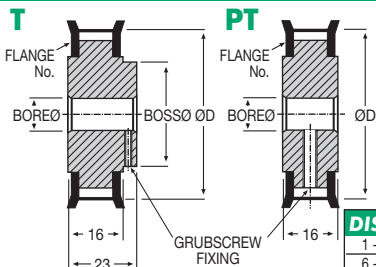
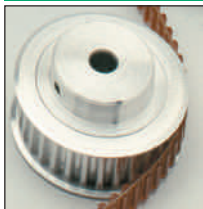
PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 2.5-14	37	29.44	20XL	28.90	24	6	£13.94	£13.25
38T 2.5-14	38	30.24	20XL	29.70	24	6	£14.02	£13.30
39T 2.5-14	39	31.04	20XL	30.50	24	6	£14.20	£13.48
40T 2.5-14	40	31.83	21XL	31.30	24	6	£14.33	£13.61
41T 2.5-14	41	32.83	21XL	32.10	24	6	£14.46	£13.71
42T 2.5-14	42	33.42	21XL	32.90	24	6	£14.63	£13.82
43T 2.5-14	43	34.22	21XL	33.70	24	6	£14.69	£13.97
44T 2.5-14	44	35.01	21XL	34.50	24	6	£14.86	£14.12
45T 2.5-14	45	35.81	22XL	35.30	24	6	£15.00	£14.26
46T 2.5-14	46	36.61	22XL	36.10	24	6	£15.14	£14.38
47T 2.5-14	47	37.40	22XL	36.90	24	6	£15.33	£14.47
48T 2.5-14	48	38.20	24XL	37.70	24	6	£15.40	£14.64
49T 2.5-14	49	38.99	24XL	38.45	24	6	£15.51	£14.74
50T 2.5-14	50	39.79	24XL	39.25	24	6	£15.68	£14.95
51T 2.5-14	51	40.58	24XL	40.05	24	6	£15.83	£15.03
52T 2.5-14	52	41.38	24XL	40.85	24	6	£15.94	£15.14
53T 2.5-14	53	42.18	26XL	41.65	24	6	£16.09	£15.33
54T 2.5-14	54	42.97	26XL	42.45	24	6	£16.23	£15.42
55T 2.5-14	55	43.77	28XL	43.25	24	6	£16.38	£15.51
56T 2.5-14	56	44.56	28XL	44.05	24	6	£16.49	£15.68
57T 2.5-14	57	45.36	28XL	44.85	24	6	£16.68	£15.83
58T 2.5-14	58	46.15	28XL	45.65	24	6	£16.78	£15.94
59T 2.5-14	59	46.95	28XL	46.45	24	6	£16.92	£16.05
60T 2.5-14	60	47.75	30XL	47.25	24	6	£16.93	£16.18
61T 2.5-14	61	48.54	30XL	48.05	24	6	£16.99	£16.29
62T 2.5-14	62	49.34	30XL	48.85	24	6	£17.30	£16.45
63T 2.5-14	63	40.13	30XL	49.60	24	6	£17.43	£16.56
64T 2.5-14	64	50.93	17L	50.40	24	6	£17.59	£16.70
65T 2.5-14	65	51.73	14H	51.20	24	6	£17.73	£16.83
66T 2.5-14	66	52.52	14H	52.00	24	6	£17.83	£16.93
67T 2.5-14	67	53.32	14H	52.80	24	6	£17.99	£17.07
68T 2.5-14	68	54.11	14H	53.60	24	6	£18.13	£17.26
69T 2.5-14	69	54.91	15H	54.40	24	6	£18.24	£17.34
70T 2.5-14	70	55.70	15H	55.20	24	6	£18.37	£17.48
71T 2.5-14	71	56.50	15H	56.00	24	6	£18.52	£17.59
72T 2.5-14	72	57.30	15H	56.80	24	6	£18.68	£17.77
73T 2.5-14	73	58.09	16H	57.59	24	6	£18.79	£17.87
74T 2.5-14	74	58.89	16H	58.39	24	6	£18.94	£17.99
75T 2.5-14	75	59.68	16H	59.18	24	6	£19.06	£18.13
76T 2.5-14	76	60.48	17H	59.98	24	6	£19.20	£18.23
77T 2.5-14	77	61.27	17H	60.77	24	6	£19.36	£18.37
78T 2.5-14	78	62.07	17H	61.57	24	6	£19.50	£18.52
79T 2.5-14	79	62.87	17H	62.37	24	6	£19.61	£18.67
80T 2.5-14	80	63.66	17H	63.16	24	6	£19.73	£18.76
81T 2.5-14	81	64.46	17H	63.96	24	6	£19.89	£18.87
82T 2.5-14	82	65.25	17H	64.75	24	6	£20.08	£19.04
83T 2.5-14	83	66.05	17H	65.55	24	6	£20.16	£19.15
84T 2.5-14	84	66.85	18H	66.35	24	6	£20.32	£19.33
238T 2.5-14	238	189.39	48H	188.89	50	20	£147.13	£120.96

Timing Pulleys

Materials

2.5 mm Pitch : 12mm Wide Belt

STD: Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 238**

ALL PULLEYS FLANGED, (X,Y in Aluminium)

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 2.5-16	10	7.96	10X,Y	7.40	13	3	£10.62	£10.02
11T 2.5-16	11	8.75	10X,Y	8.20	13	3	£10.75	£10.22
12T 2.5-16	12	9.55	10X,Y	9.00	13	3	£10.94	£10.36
13T 2.5-16	13	10.35	13X,Y	9.80	16	3	£11.03	£10.47
14T 2.5-16	14	11.14	16X,Y	10.60	18	3	£11.20	£10.65
15T 2.5-16	15	11.94	16X,Y	11.40	18	3	£11.34	£10.77
16T 2.5-16	16	12.73	16X,Y	12.20	18	4	£11.50	£10.94
17T 2.5-16	17	13.53	31X,Y	13.00	18	4	£11.65	£11.03
18T 2.5-16	18	14.32	31X,Y	13.80	18	4	£11.77	£11.20
19T 2.5-16	19	15.12	32X,Y	14.60	20	4	£11.91	£11.33
20T 2.5-16	20	15.92	32X,Y	15.40	20	4	£12.07	£11.48
21T 2.5-16	21	16.71	32X,Y	16.20	20	4	£12.22	£11.56
22T 2.5-16	22	17.51	32X,Y	17.00	20	4	£12.41	£11.77
23T 2.5-16	23	18.30	12XL	17.80	13	4	£12.51	£11.90
24T 2.5-16	24	19.10	12XL	18.55	13	4	£12.67	£12.04
25T 2.5-16	25	19.89	12XL	19.35	13	4	£12.83	£12.16
26T 2.5-16	26	20.69	12XL	20.15	13	5	£12.95	£12.33
27T 2.5-16	27	21.49	12XL	20.95	13	5	£13.12	£12.44
28T 2.5-16	28	22.28	14XL	21.75	13	5	£13.27	£12.57
29T 2.5-16	29	23.08	16XL	22.55	20	5	£13.39	£12.75
30T 2.5-16	30	23.87	16XL	23.35	20	5	£13.54	£12.85
31T 2.5-16	31	24.67	18XL	24.15	20	5	£13.70	£13.00
32T 2.5-16	32	25.46	18XL	24.95	20	5	£13.83	£13.19
33T 2.5-16	33	26.26	18XL	25.75	20	5	£13.98	£13.30
34T 2.5-16	34	27.06	18XL	26.55	20	5	£14.12	£13.39
35T 2.5-16	35	27.85	18XL	27.35	20	5	£14.31	£13.61
36T 2.5-16	36	28.65	18XL	28.10	20	5	£14.46	£13.75

Pulleys & Belts PITCH 2.5mm

12.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	BossØ mm	BoreØ mm	PRICE EACH 1-5	
							T	PT
37T 2.5-16	37	29.44	20XL	28.90	24	6	£14.64	£13.93
38T 2.5-16	38	30.24	20XL	29.70	24	6	£14.74	£13.98
39T 2.5-16	39	31.04	20XL	30.50	24	6	£14.90	£14.15
40T 2.5-16	40	31.83	21XL	31.30	24	6	£15.06	£14.31
41T 2.5-16	41	32.83	21XL	32.10	24	6	£15.20	£14.43
42T 2.5-16	42	33.42	21XL	32.90	24	6	£15.36	£14.51
43T 2.5-16	43	34.22	21XL	33.70	24	6	£15.45	£14.68
44T 2.5-16	44	35.01	21XL	34.50	24	6	£15.65	£14.83
45T 2.5-16	45	35.81	22XL	35.30	24	6	£15.74	£14.96
46T 2.5-16	46	36.61	22XL	36.10	24	6	£15.93	£15.14
47T 2.5-16	47	37.40	22XL	36.90	24	6	£16.05	£15.22
48T 2.5-16	48	38.20	24XL	37.70	24	6	£16.17	£15.37
49T 2.5-16	49	38.99	24XL	38.45	24	6	£16.35	£15.50
50T 2.5-16	50	39.79	24XL	39.25	24	6	£16.45	£15.68
51T 2.5-16	51	40.58	24XL	40.05	24	6	£16.64	£15.77
52T 2.5-16	52	41.38	24XL	40.85	24	6	£16.77	£15.93
53T 2.5-16	53	42.18	26XL	41.65	24	6	£16.90	£16.05
54T 2.5-16	54	42.97	26XL	42.45	24	6	£17.07	£16.19
55T 2.5-16	55	43.77	28XL	43.25	24	6	£17.24	£16.35
56T 2.5-16	56	44.56	28XL	44.05	24	6	£17.31	£16.46
57T 2.5-16	57	45.36	28XL	44.85	24	6	£17.54	£16.64
58T 2.5-16	58	46.15	28XL	45.65	24	6	£17.63	£16.77
59T 2.5-16	59	46.95	28XL	46.45	24	6	£17.76	£16.85
60T 2.5-16	60	47.75	30XL	47.25	24	6	£17.77	£16.98
61T 2.5-16	61	48.54	30XL	48.05	24	6	£17.88	£17.15
62T 2.5-16	62	49.34	30XL	48.85	24	6	£18.18	£17.28
63T 2.5-16	63	40.13	30XL	49.60	24	6	£18.47	£17.38
64T 2.5-16	64	50.93	17L	50.40	24	6	£18.49	£17.55
65T 2.5-16	65	51.73	14H	51.20	24	6	£18.65	£17.67
66T 2.5-16	66	52.52	14H	52.00	24	6	£18.74	£17.77
67T 2.5-16	67	53.32	14H	52.80	24	6	£18.88	£17.95
68T 2.5-16	68	54.11	14H	53.60	24	6	£19.04	£18.10
69T 2.5-16	69	54.91	15H	54.40	24	6	£19.16	£18.23
70T 2.5-16	70	55.70	15H	55.20	24	6	£19.27	£18.37
71T 2.5-16	71	56.50	15H	56.00	24	6	£19.49	£18.47
72T 2.5-16	72	57.30	15H	56.80	24	6	£19.62	£18.66
73T 2.5-16	73	58.09	16H	57.59	24	6	£19.76	£18.77
74T 2.5-16	74	58.89	16H	58.39	24	6	£19.92	£18.88
75T 2.5-16	75	59.68	16H	59.18	24	6	£20.08	£19.04
76T 2.5-16	76	60.48	17H	59.98	24	6	£20.16	£19.14
77T 2.5-16	77	61.27	17H	60.77	24	6	£20.34	£19.27
78T 2.5-16	78	62.07	17H	61.57	24	6	£20.50	£19.49
79T 2.5-16	79	62.87	17H	62.37	24	6	£20.61	£19.61
80T 2.5-16	80	63.66	17H	63.16	24	6	£20.73	£19.71
81T 2.5-16	81	64.46	17H	63.96	24	6	£20.90	£19.82
82T 2.5-16	82	65.25	17H	64.75	24	6	£21.07	£20.08
83T 2.5-16	83	66.05	17H	65.55	24	6	£21.21	£20.12
84T 2.5-16	84	66.85	18H	66.35	24	6	£21.36	£20.32
238T 2.5-16	238	189.39	48H	188.89	50	20	£154.47	£127.03

Pulleys & Belts
PITCH 2.5mm

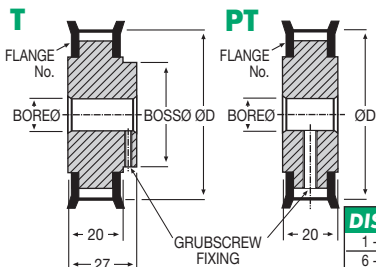
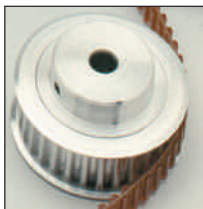


Timing Pulleys

Materials

2.5 mm Pitch : 16mm Wide Belt

STD: Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 238**

ALL PULLEYS FLANGED, (X,Y in Aluminium)

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 2.5-20	10	7.96	10X,Y	7.40	13	3	£11.11	£10.54
11T 2.5-20	11	8.75	10X,Y	8.20	13	3	£11.28	£10.72
12T 2.5-20	12	9.55	10X,Y	9.00	13	3	£11.41	£10.94
13T 2.5-20	13	10.35	13X,Y	9.80	16	3	£11.58	£10.99
14T 2.5-20	14	11.14	16X,Y	10.60	18	3	£11.76	£11.15
15T 2.5-20	15	11.94	16X,Y	11.40	18	3	£11.89	£11.30
16T 2.5-20	16	12.73	16X,Y	12.20	18	4	£12.06	£11.41
17T 2.5-20	17	13.53	31X,Y	13.00	18	4	£12.18	£11.58
18T 2.5-20	18	14.32	31X,Y	13.80	18	4	£12.34	£11.76
19T 2.5-20	19	15.12	32X,Y	14.60	20	4	£12.51	£11.85
20T 2.5-20	20	15.92	32X,Y	15.40	20	4	£12.65	£12.04
21T 2.5-20	21	16.71	32X,Y	16.20	20	4	£12.79	£12.14
22T 2.5-20	22	17.51	32X,Y	17.00	20	4	£13.01	£12.34
23T 2.5-20	23	18.30	12XL	17.80	13	4	£13.12	£12.50
24T 2.5-20	24	19.10	12XL	18.55	13	4	£13.28	£12.57
25T 2.5-20	25	19.89	12XL	19.35	13	4	£13.41	£12.75
26T 2.5-20	26	20.69	12XL	20.15	13	5	£13.58	£12.93
27T 2.5-20	27	21.49	12XL	20.95	13	5	£13.75	£13.04
28T 2.5-20	28	22.28	14XL	21.75	13	5	£13.92	£13.18
29T 2.5-20	29	23.08	16XL	22.55	20	5	£14.05	£13.32
30T 2.5-20	30	23.87	16XL	23.35	20	5	£14.20	£13.46
31T 2.5-20	31	24.67	18XL	24.15	20	5	£14.35	£13.61
32T 2.5-20	32	25.46	18XL	24.95	20	5	£14.51	£13.82
33T 2.5-20	33	26.26	18XL	25.75	20	5	£14.66	£13.94
34T 2.5-20	34	27.06	18XL	26.55	20	5	£14.78	£14.05
35T 2.5-20	35	27.85	18XL	27.35	20	5	£15.00	£14.26
36T 2.5-20	36	28.65	18XL	28.10	20	5	£15.15	£14.43

Pulleys & Belts PITCH 2.5mm

12.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	BossØ mm	BoreØ mm	PRICE EACH 1-5	
							T	PT
37T2.5-20	37	29.44	20XL	28.90	24	6	£15.36	£14.61
38T2.5-20	38	30.24	20XL	29.70	24	6	£15.45	£14.66
39T2.5-20	39	31.04	20XL	30.50	24	6	£15.61	£14.83
40T2.5-20	40	31.83	21XL	31.30	24	6	£15.78	£15.00
41T2.5-20	41	32.83	21XL	32.10	24	6	£15.94	£15.11
42T2.5-20	42	33.42	21XL	32.90	24	6	£16.05	£15.33
43T2.5-20	43	34.22	21XL	33.70	24	6	£16.19	£15.40
44T2.5-20	44	35.01	21XL	34.50	24	6	£16.42	£15.55
45T2.5-20	45	35.81	22XL	35.30	24	6	£16.48	£15.68
46T2.5-20	46	36.61	22XL	36.10	24	6	£16.68	£15.86
47T2.5-20	47	37.40	22XL	36.90	24	6	£16.81	£15.95
48T2.5-20	48	38.20	24XL	37.70	24	6	£16.95	£16.09
49T2.5-20	49	38.99	24XL	38.45	24	6	£17.13	£16.24
50T2.5-20	50	39.79	24XL	39.25	24	6	£17.26	£16.43
51T2.5-20	51	40.58	24XL	40.05	24	6	£17.43	£16.53
52T2.5-20	52	41.38	24XL	40.85	24	6	£17.57	£16.68
53T2.5-20	53	42.18	26XL	41.65	24	6	£17.67	£16.81
54T2.5-20	54	42.97	26XL	42.45	24	6	£17.88	£16.96
55T2.5-20	55	43.77	28XL	43.25	24	6	£18.04	£17.13
56T2.5-20	56	44.56	28XL	44.05	24	6	£18.17	£17.26
57T2.5-20	57	45.36	28XL	44.85	24	6	£18.38	£17.43
58T2.5-20	58	46.15	28XL	45.65	24	6	£18.48	£17.55
59T2.5-20	59	46.95	28XL	46.45	24	6	£18.61	£17.65
60T2.5-20	60	47.75	30XL	47.25	24	6	£18.65	£17.81
61T2.5-20	61	48.54	30XL	48.05	24	6	£18.73	£17.95
62T2.5-20	62	49.34	30XL	48.85	24	6	£19.04	£18.10
63T2.5-20	63	49.13	30XL	49.60	24	6	£19.20	£18.23
64T2.5-20	64	50.93	17L	50.40	24	6	£19.38	£18.38
65T2.5-20	65	51.73	14H	51.20	24	6	£19.49	£18.50
66T2.5-20	66	52.52	14H	52.00	24	6	£19.64	£18.61
67T2.5-20	67	53.32	14H	52.80	24	6	£19.81	£18.78
68T2.5-20	68	54.11	14H	53.60	24	6	£19.96	£18.98
69T2.5-20	69	54.91	15H	54.40	24	6	£20.10	£19.07
70T2.5-20	70	55.70	15H	55.20	24	6	£20.22	£19.25
71T2.5-20	71	56.50	15H	56.00	24	6	£20.42	£19.36
72T2.5-20	72	57.30	15H	56.80	24	6	£20.59	£19.54
73T2.5-20	73	58.09	16H	57.59	24	6	£20.68	£19.69
74T2.5-20	74	58.89	16H	58.39	24	6	£20.87	£19.77
75T2.5-20	75	59.68	16H	59.18	24	6	£21.01	£19.95
76T2.5-20	76	60.48	17H	59.98	24	6	£21.10	£20.08
77T2.5-20	77	61.27	17H	60.77	24	6	£21.32	£20.20
78T2.5-20	78	62.07	17H	61.57	24	6	£21.44	£20.42
79T2.5-20	79	62.87	17H	62.37	24	6	£21.60	£20.56
80T2.5-20	80	63.66	17H	63.16	24	6	£21.74	£20.65
81T2.5-20	81	64.46	17H	63.96	24	6	£21.91	£20.73
82T2.5-20	82	65.25	17H	64.75	24	6	£22.06	£20.96
83T2.5-20	83	66.05	17H	65.55	24	6	£22.21	£21.08
84T2.5-20	84	66.85	18H	66.35	24	6	£22.36	£21.30
238T2.5-20	238	189.39	48H	188.89	50	20	£161.85	£133.05

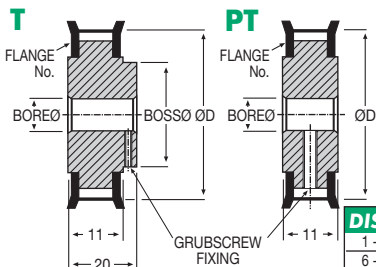


Timing Pulleys

Materials

5mm Pitch : 6mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-11	10	15.92	11XL	15.05	12	5	£9.53	£8.63
11T 5-11	11	17.51	11XL	16.65	12	5	£9.93	£8.96
12T 5-11	12	19.10	12XL	18.25	13	5	£10.25	£9.31
13T 5-11	13	20.69	12XL	19.85	13	5	£10.68	£9.68
14T 5-11	14	22.28	14XL	21.45	16	5	£10.98	£9.99
15T 5-11	15	23.87	14XL	23.05	16	6	£11.34	£10.31
16T 5-11	16	25.46	14XL	24.60	16	6	£11.73	£10.68
17T 5-11	17	27.06	16XL	26.20	16	6	£12.08	£10.96
18T 5-11	18	28.65	18XL	27.80	20	6	£12.48	£11.33
19T 5-11	19	30.24	18XL	29.40	20	6	£12.79	£11.65
20T 5-11	20	31.83	20XL	31.00	20	6	£13.18	£11.96
21T 5-11	21	33.42	20XL	32.70	20	6	£13.57	£12.32
22T 5-11	22	35.01	21XL	34.25	20	6	£13.94	£12.66
23T 5-11	23	36.61	22XL	35.76	20	6	£14.29	£13.01
24T 5-11	24	38.20	24XL	37.35	25	6	£14.66	£13.30
25T 5-11	25	39.79	24XL	39.00	25	6	£15.00	£13.63
26T 5-11	26	41.38	24XL	40.60	25	6	£15.39	£13.97
27T 5-11	27	42.97	26XL	42.20	25	6	£15.74	£14.29
28T 5-11	28	44.56	26XL	43.75	25	6	£16.13	£14.66
29T 5-11	29	46.15	28XL	45.35	25	6	£16.46	£14.97
30T 5-11	30	47.75	28XL	46.95	30	8	£16.83	£15.36
31T 5-11	31	49.34	30XL	48.55	30	8	£17.24	£15.60
32T 5-11	32	50.93	16L	50.10	30	8	£17.52	£15.94
33T 5-11	33	52.52	17L	51.70	30	8	£17.90	£16.27
34T 5-11	34	54.11	14H	53.25	30	8	£18.25	£16.61
35T 5-11	35	55.70	14H	54.85	30	8	£18.67	£16.95
36T 5-11	36	57.30	14H	56.45	30	8	£19.00	£17.27

Pulleys & Belts PITCH 5mm

12.14



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-11	37	58.89	15H	58.05	40	8	£19.59	£17.81
38T 5-11	38	60.48	15H	59.65	40	8	£20.12	£18.30
39T 5-11	39	62.07	16H	61.25	40	8	£20.69	£18.83
40T 5-11	40	63.66	16H	62.85	40	8	£21.33	£19.39
41T 5-11	41	65.25	17H	64.40	40	8	£21.92	£19.94
42T 5-11	42	66.85	17H	66.00	40	8	£22.47	£20.47
43T 5-11	43	68.44	17H	67.70	40	8	£23.07	£20.96
44T 5-11	44	70.03	18H	69.20	40	8	£23.67	£21.52
45T 5-11	45	71.62	18H	70.80	40	8	£24.22	£22.05
46T 5-11	46	73.21	18H	72.40	40	8	£24.81	£22.57
47T 5-11	47	74.80	19H	73.95	40	8	£25.40	£23.09
48T 5-11	48	76.39	19H	75.55	40	8	£26.00	£23.67
49T 5-11	49	77.99	19H	77.15	40	8	£26.60	£24.19
50T 5-11	50	79.58	20H	78.75	60	10	£27.18	£24.73
51T 5-11	51	81.17	21H	80.35	60	10	£27.74	£25.28
52T 5-11	52	82.76	21H	81.95	60	10	£28.37	£25.77
53T 5-11	53	84.35	21H	83.50	60	10	£28.95	£26.32
54T 5-11	54	85.94	22H	85.10	60	10	£29.52	£26.85
55T 5-11	55	87.54	22H	86.70	60	10	£30.08	£27.39
56T 5-11	56	89.13	22H	88.30	60	10	£30.73	£27.92
57T 5-11	57	90.72	23H	89.90	60	10	£31.26	£28.43
58T 5-11	58	92.31	23H	91.50	60	10	£31.85	£28.99
59T 5-11	59	93.90	24H	93.05	60	10	£32.67	£29.73
60T 5-11	60	95.49	24H	94.65	60	10	£33.53	£30.48
61T 5-11	61	97.08	24H	96.25	60	10	£34.35	£31.26
62T 5-11	62	98.68	25H	97.85	60	10	£35.17	£31.99
63T 5-11	63	100.27	25H	99.45	60	10	£36.00	£32.72
64T 5-11	64	101.86	26H	101.05	60	10	£36.91	£33.56
65T 5-11	65	103.45	26H	102.65	60	10	£37.70	£34.27
66T 5-11	66	105.04	26H	104.20	60	10	£38.54	£35.06
67T 5-11	67	106.63	26H	105.80	60	10	£39.30	£35.82
68T 5-11	68	108.23	27H	107.40	60	10	£40.21	£36.55
69T 5-11	69	109.82	27H	109.00	60	10	£41.02	£37.33
70T 5-11	70	111.41	28H	110.60	60	10	£41.88	£38.06
71T 5-11	71	113.00	28H	112.20	60	10	£42.68	£38.86
72T 5-11	72	114.59	28H	113.75	60	10	£43.51	£39.58
73T 5-11	73	116.18	30H	115.35	60	10	£44.35	£40.34
74T 5-11	74	117.77	30H	116.95	60	10	£45.19	£41.14
75T 5-11	75	119.37	30H	118.55	60	10	£45.97	£41.88
76T 5-11	76	120.96	30H	120.15	60	10	£46.87	£42.60
77T 5-11	77	122.55	31H	121.75	60	10	£47.66	£43.35
78T 5-11	78	124.14	31H	123.30	60	10	£48.51	£44.15
79T 5-11	79	125.73	31H	124.90	60	10	£49.35	£44.89
80T 5-11	80	127.32	32H	126.50	60	10	£50.19	£45.68
81T 5-11	81	128.92	32H	128.10	60	10	£50.99	£46.45
82T 5-11	82	130.51	33H	129.70	60	10	£51.81	£47.15
83T 5-11	83	132.10	33H	131.30	60	10	£52.66	£47.92
84T 5-11	84	133.69	33H	132.85	60	10	£53.48	£48.65
280T 5-11	280	445.63	-	444.79	100	30	£335.25	£293.10

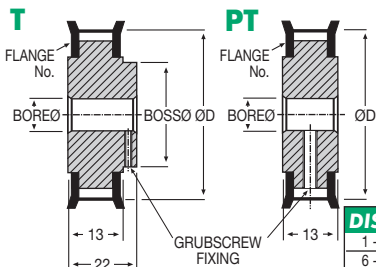
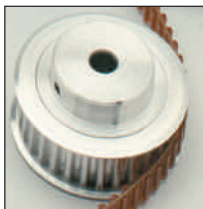


Timing Pulleys

Materials

5mm Pitch : 8mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-13	10	15.92	11XL	15.05	12	5	£10.01	£9.09
11T 5-13	11	17.51	11XL	16.65	12	5	£10.42	£9.47
12T 5-13	12	19.10	12XL	18.25	13	5	£10.72	£9.82
13T 5-13	13	20.69	12XL	19.85	13	5	£11.20	£10.19
14T 5-13	14	22.28	14XL	21.45	16	5	£11.53	£10.47
15T 5-13	15	23.87	14XL	23.05	16	6	£11.91	£10.81
16T 5-13	16	25.46	14XL	24.60	16	6	£12.33	£11.20
17T 5-13	17	27.06	16XL	26.20	16	6	£12.69	£11.51
18T 5-13	18	28.65	18XL	27.80	20	6	£13.12	£11.90
19T 5-13	19	30.24	18XL	29.40	20	6	£13.46	£12.23
20T 5-13	20	31.83	20XL	31.00	20	6	£13.83	£12.57
21T 5-13	21	33.42	20XL	32.70	20	6	£14.26	£12.93
22T 5-13	22	35.01	21XL	34.25	20	6	£14.64	£13.28
23T 5-13	23	36.61	22XL	35.76	20	6	£15.00	£13.64
24T 5-13	24	38.20	24XL	37.35	25	6	£15.39	£13.97
25T 5-13	25	39.79	24XL	39.00	25	6	£15.74	£14.32
26T 5-13	26	41.38	24XL	40.60	25	6	£16.15	£14.68
27T 5-13	27	42.97	26XL	42.20	25	6	£16.53	£15.00
28T 5-13	28	44.56	26XL	43.75	25	6	£16.93	£15.39
29T 5-13	29	46.15	28XL	45.35	25	6	£17.29	£15.71
30T 5-13	30	47.75	28XL	46.95	30	8	£17.67	£16.12
31T 5-13	31	49.34	30XL	48.55	30	8	£18.08	£16.42
32T 5-13	32	50.93	16L	50.10	30	8	£18.42	£16.77
33T 5-13	33	52.52	17L	51.70	30	8	£18.83	£17.13
34T 5-13	34	54.11	14H	53.25	30	8	£19.20	£17.48
35T 5-13	35	55.70	14H	54.85	30	8	£19.61	£17.81
36T 5-13	36	57.30	14H	56.45	30	8	£19.95	£18.12

Pulleys & Belts PITCH 5mm

12.16



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-13	37	58.89	15H	58.05	40	8	£20.57	£18.73
38T 5-13	38	60.48	15H	59.65	40	8	£21.15	£19.25
39T 5-13	39	62.07	16H	61.25	40	8	£21.74	£19.77
40T 5-13	40	63.66	16H	62.85	40	8	£22.43	£20.36
41T 5-13	41	65.25	17H	64.40	40	8	£23.00	£20.92
42T 5-13	42	66.85	17H	66.00	40	8	£23.62	£21.52
43T 5-13	43	68.44	17H	67.70	40	8	£24.21	£22.02
44T 5-13	44	70.03	18H	69.20	40	8	£24.87	£22.57
45T 5-13	45	71.62	18H	70.80	40	8	£25.42	£23.20
46T 5-13	46	73.21	18H	72.40	40	8	£26.09	£23.71
47T 5-13	47	74.80	19H	73.95	40	8	£26.68	£24.23
48T 5-13	48	76.39	19H	75.55	40	8	£27.31	£24.87
49T 5-13	49	77.99	19H	77.15	40	8	£27.93	£25.39
50T 5-13	50	79.58	20H	78.75	60	10	£28.60	£26.00
51T 5-13	51	81.17	21H	80.35	60	10	£29.12	£26.54
52T 5-13	52	82.76	21H	81.95	60	10	£29.81	£27.07
53T 5-13	53	84.35	21H	83.50	60	10	£30.41	£27.64
54T 5-13	54	85.94	22H	85.10	60	10	£31.01	£28.20
55T 5-13	55	87.54	22H	86.70	60	10	£31.59	£28.76
56T 5-13	56	89.13	22H	88.30	60	10	£32.26	£29.33
57T 5-13	57	90.72	23H	89.90	60	10	£32.88	£29.86
58T 5-13	58	92.31	23H	91.50	60	10	£33.43	£30.48
59T 5-13	59	93.90	24H	93.05	60	10	£34.33	£31.26
60T 5-13	60	95.49	24H	94.65	60	10	£35.22	£32.03
61T 5-13	61	97.08	24H	96.25	60	10	£36.10	£32.88
62T 5-13	62	98.68	25H	97.85	60	10	£36.95	£33.62
63T 5-13	63	100.27	25H	99.45	60	10	£37.83	£34.39
64T 5-13	64	101.86	26H	101.05	60	10	£38.72	£35.27
65T 5-13	65	103.45	26H	102.65	60	10	£39.58	£36.00
66T 5-13	66	105.04	26H	104.20	60	10	£40.49	£36.80
67T 5-13	67	106.63	26H	105.80	60	10	£41.31	£37.60
68T 5-13	68	108.23	27H	107.40	60	10	£42.21	£38.36
69T 5-13	69	109.82	27H	109.00	60	10	£43.06	£39.20
70T 5-13	70	111.41	28H	110.60	60	10	£43.98	£39.96
71T 5-13	71	113.00	28H	112.20	60	10	£44.85	£40.79
72T 5-13	72	114.59	28H	113.75	60	10	£45.68	£41.55
73T 5-13	73	116.18	30H	115.35	60	10	£46.58	£42.39
74T 5-13	74	117.77	30H	116.95	60	10	£47.47	£43.21
75T 5-13	75	119.37	30H	118.55	60	10	£48.29	£43.97
76T 5-13	76	120.96	30H	120.15	60	10	£49.21	£44.73
77T 5-13	77	122.55	31H	121.75	60	10	£50.04	£45.54
78T 5-13	78	124.14	31H	123.30	60	10	£50.92	£46.36
79T 5-13	79	125.73	31H	124.90	60	10	£51.82	£47.15
80T 5-13	80	127.32	32H	126.50	60	10	£52.70	£47.95
81T 5-13	81	128.92	32H	128.10	60	10	£53.58	£48.76
82T 5-13	82	130.51	33H	129.70	60	10	£54.41	£49.50
83T 5-13	83	132.10	33H	131.30	60	10	£55.29	£50.33
84T 5-13	84	133.69	33H	132.85	60	10	£56.15	£51.09
280T 5-13	280	445.63	-	444.79	100	30	£352.00	£307.79

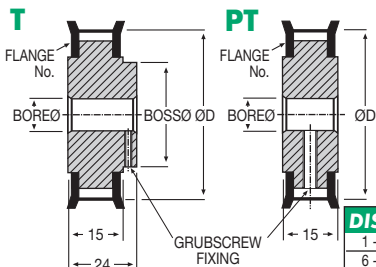
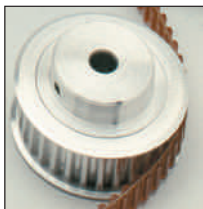


Timing Pulleys

Materials

5mm Pitch : 10mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-15	10	15.92	11XL	15.05	12	5	£10.79	£9.83
11T 5-15	11	17.51	11XL	16.65	12	5	£11.19	£10.19
12T 5-15	12	19.10	12XL	18.25	13	5	£11.49	£10.44
13T 5-15	13	20.69	12XL	19.85	13	5	£11.85	£10.77
14T 5-15	14	22.28	14XL	21.45	16	5	£12.16	£11.06
15T 5-15	15	23.87	14XL	23.05	16	6	£12.52	£11.36
16T 5-15	16	25.46	14XL	24.60	16	6	£12.83	£11.67
17T 5-15	17	27.06	16XL	26.20	16	6	£13.25	£12.05
18T 5-15	18	28.65	18XL	27.80	20	6	£13.57	£12.32
19T 5-15	19	30.24	18XL	29.40	20	6	£13.94	£12.66
20T 5-15	20	31.83	20XL	31.00	20	6	£14.20	£12.94
21T 5-15	21	33.42	20XL	32.70	20	6	£14.63	£13.26
22T 5-15	22	35.01	21XL	34.25	20	6	£14.95	£13.58
23T 5-15	23	36.61	22XL	35.76	20	6	£15.33	£13.94
24T 5-15	24	38.20	24XL	37.35	25	6	£15.57	£14.20
25T 5-15	25	39.79	24XL	39.00	25	6	£15.94	£14.51
26T 5-15	26	41.38	24XL	40.60	25	6	£16.25	£14.78
27T 5-15	27	42.97	26XL	42.20	25	6	£16.61	£15.14
28T 5-15	28	44.56	26XL	43.75	25	6	£16.95	£15.42
29T 5-15	29	46.15	28XL	45.35	25	6	£17.30	£15.77
30T 5-15	30	47.75	28XL	46.95	30	8	£17.63	£16.05
31T 5-15	31	49.34	30XL	48.55	30	8	£17.99	£16.38
32T 5-15	32	50.93	16L	50.10	30	8	£18.30	£16.68
33T 5-15	33	52.52	17L	51.70	30	8	£18.68	£16.96
34T 5-15	34	54.11	14H	53.25	30	8	£19.01	£17.29
35T 5-15	35	55.70	14H	54.85	30	8	£19.36	£17.61
36T 5-15	36	57.30	14H	56.45	30	8	£19.64	£17.87

Pulleys & Belts PITCH 5mm

12.18



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-15	37	58.89	15H	58.05	40	8	£20.32	£18.47
38T 5-15	38	60.48	15H	59.65	40	8	£21.07	£19.16
39T 5-15	39	62.07	16H	61.25	40	8	£21.71	£19.77
40T 5-15	40	63.66	16H	62.85	40	8	£22.45	£20.44
41T 5-15	41	65.25	17H	64.40	40	8	£23.12	£21.07
42T 5-15	42	66.85	17H	66.00	40	8	£23.84	£21.67
43T 5-15	43	68.44	17H	67.70	40	8	£24.54	£22.36
44T 5-15	44	70.03	18H	69.20	40	8	£25.21	£22.93
45T 5-15	45	71.62	18H	70.80	40	8	£25.95	£23.56
46T 5-15	46	73.21	18H	72.40	40	8	£26.61	£24.21
47T 5-15	47	74.80	19H	73.95	40	8	£27.30	£24.81
48T 5-15	48	76.39	19H	75.55	40	8	£28.01	£25.44
49T 5-15	49	77.99	19H	77.15	40	8	£28.68	£26.10
50T 5-15	50	79.58	20H	78.75	60	10	£29.38	£26.70
51T 5-15	51	81.17	21H	80.35	60	10	£30.08	£27.39
52T 5-15	52	82.76	21H	81.95	60	10	£30.78	£28.01
53T 5-15	53	84.35	21H	83.50	60	10	£31.49	£28.66
54T 5-15	54	85.94	22H	85.10	60	10	£32.15	£29.30
55T 5-15	55	87.54	22H	86.70	60	10	£32.89	£29.93
56T 5-15	56	89.13	22H	88.30	60	10	£33.61	£30.53
57T 5-15	57	90.72	23H	89.90	60	10	£34.25	£31.17
58T 5-15	58	92.31	23H	91.50	60	10	£34.97	£31.77
59T 5-15	59	93.90	24H	93.05	60	10	£36.03	£32.78
60T 5-15	60	95.49	24H	94.65	60	10	£37.15	£33.82
61T 5-15	61	97.08	24H	96.25	60	10	£38.27	£34.81
62T 5-15	62	98.68	25H	97.85	60	10	£39.35	£35.86
63T 5-15	63	100.27	25H	99.45	60	10	£40.50	£36.91
64T 5-15	64	101.86	26H	101.05	60	10	£41.62	£37.84
65T 5-15	65	103.45	26H	102.65	60	10	£42.72	£38.88
66T 5-15	66	105.04	26H	104.20	60	10	£43.86	£39.92
67T 5-15	67	106.63	26H	105.80	60	10	£44.95	£40.68
68T 5-15	68	108.23	27H	107.40	60	10	£46.05	£41.89
69T 5-15	69	109.82	27H	109.00	60	10	£47.15	£42.89
70T 5-15	70	111.41	28H	110.60	60	10	£48.25	£43.91
71T 5-15	71	113.00	28H	112.20	60	10	£49.35	£44.89
72T 5-15	72	114.59	28H	113.75	60	10	£50.45	£45.87
73T 5-15	73	116.18	30H	115.35	60	10	£51.60	£46.91
74T 5-15	74	117.77	30H	116.95	60	10	£52.70	£47.95
75T 5-15	75	119.37	30H	118.55	60	10	£53.81	£48.97
76T 5-15	76	120.96	30H	120.15	60	10	£54.92	£49.97
77T 5-15	77	122.55	31H	121.75	60	10	£56.03	£50.94
78T 5-15	78	124.14	31H	123.30	60	10	£57.13	£51.98
79T 5-15	79	125.73	31H	124.90	60	10	£58.26	£53.01
80T 5-15	80	127.32	32H	126.50	60	10	£59.34	£54.00
81T 5-15	81	128.92	32H	128.10	60	10	£60.45	£55.01
82T 5-15	82	130.51	33H	129.70	60	10	£61.53	£56.01
83T 5-15	83	132.10	33H	131.30	60	10	£62.70	£56.99
84T 5-15	84	133.69	33H	132.85	60	10	£63.80	£58.06
280T 5-15	280	445.63	-	444.79	100	30	£362.07	£307.79

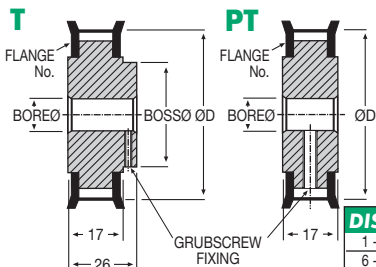
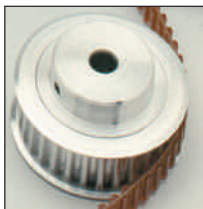


Timing Pulleys

Materials

5mm Pitch : 12mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-17	10	15.92	11XL	15.05	12	5	£11.34	£10.32
11T 5-17	11	17.51	11XL	16.65	12	5	£12.34	£10.70
12T 5-17	12	19.10	12XL	18.25	13	5	£12.07	£10.96
13T 5-17	13	20.69	12XL	19.85	13	5	£12.44	£11.33
14T 5-17	14	22.28	14XL	21.45	16	5	£12.78	£11.65
15T 5-17	15	23.87	14XL	23.05	16	6	£13.19	£11.96
16T 5-17	16	25.46	14XL	24.60	16	6	£13.48	£12.29
17T 5-17	17	27.06	16XL	26.20	16	6	£13.93	£12.66
18T 5-17	18	28.65	18XL	27.80	20	6	£14.26	£12.94
19T 5-17	19	30.24	18XL	29.40	20	6	£14.64	£13.30
20T 5-17	20	31.83	20XL	31.00	20	6	£14.95	£13.61
21T 5-17	21	33.42	20XL	32.70	20	6	£15.36	£13.94
22T 5-17	22	35.01	21XL	34.25	20	6	£15.68	£14.27
23T 5-17	23	36.61	22XL	35.76	20	6	£16.05	£14.64
24T 5-17	24	38.20	24XL	37.35	25	6	£16.42	£14.90
25T 5-17	25	39.79	24XL	39.00	25	6	£16.77	£15.24
26T 5-17	26	41.38	24XL	40.60	25	6	£17.13	£15.57
27T 5-17	27	42.97	26XL	42.20	25	6	£17.51	£15.90
28T 5-17	28	44.56	26XL	43.75	25	6	£17.81	£16.19
29T 5-17	29	46.15	28XL	45.35	25	6	£18.18	£16.56
30T 5-17	30	47.75	28XL	46.95	30	8	£18.50	£16.85
31T 5-17	31	49.34	30XL	48.55	30	8	£18.88	£17.24
32T 5-17	32	50.93	16L	50.10	30	8	£19.25	£17.54
33T 5-17	33	52.52	17L	51.70	30	8	£19.62	£17.83
34T 5-17	34	54.11	14H	53.25	30	8	£19.96	£18.17
35T 5-17	35	55.70	14H	54.85	30	8	£20.34	£18.48
36T 5-17	36	57.30	14H	56.45	30	8	£20.64	£18.77

Pulleys & Belts PITCH 5mm

12.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-17	37	58.89	15H	58.05	40	8	£21.36	£19.40
38T 5-17	38	60.48	15H	59.65	40	8	£22.13	£20.15
39T 5-17	39	62.07	16H	61.25	40	8	£22.81	£20.81
40T 5-17	40	63.66	16H	62.85	40	8	£23.61	£21.44
41T 5-17	41	65.25	17H	64.40	40	8	£24.26	£22.13
42T 5-17	42	66.85	17H	66.00	40	8	£25.03	£22.76
43T 5-17	43	68.44	17H	67.70	40	8	£25.76	£23.47
44T 5-17	44	70.03	18H	69.20	40	8	£26.53	£24.10
45T 5-17	45	71.62	18H	70.80	40	8	£27.25	£24.78
46T 5-17	46	73.21	18H	72.40	40	8	£27.96	£25.41
47T 5-17	47	74.80	19H	73.95	40	8	£28.67	£26.09
48T 5-17	48	76.39	19H	75.55	40	8	£29.42	£26.80
49T 5-17	49	77.99	19H	77.15	40	8	£30.13	£27.41
50T 5-17	50	79.58	20H	78.75	60	10	£30.87	£28.04
51T 5-17	51	81.17	21H	80.35	60	10	£31.59	£28.76
52T 5-17	52	82.76	21H	81.95	60	10	£32.32	£29.42
53T 5-17	53	84.35	21H	83.50	60	10	£33.06	£30.10
54T 5-17	54	85.94	22H	85.10	60	10	£33.78	£30.76
55T 5-17	55	87.54	22H	86.70	60	10	£34.55	£31.43
56T 5-17	56	89.13	22H	88.30	60	10	£35.29	£32.07
57T 5-17	57	90.72	23H	89.90	60	10	£35.98	£32.72
58T 5-17	58	92.31	23H	91.50	60	10	£36.73	£33.37
59T 5-17	59	93.90	24H	93.05	60	10	£37.84	£34.44
60T 5-17	60	95.49	24H	94.65	60	10	£39.04	£35.53
61T 5-17	61	97.08	24H	96.25	60	10	£40.21	£36.58
62T 5-17	62	98.68	25H	97.85	60	10	£41.34	£37.67
63T 5-17	63	100.27	25H	99.45	60	10	£42.55	£38.72
64T 5-17	64	101.86	26H	101.05	60	10	£43.71	£39.75
65T 5-17	65	103.45	26H	102.65	60	10	£44.87	£40.83
66T 5-17	66	105.04	26H	104.20	60	10	£46.05	£41.90
67T 5-17	67	106.63	26H	105.80	60	10	£47.19	£42.68
68T 5-17	68	108.23	27H	107.40	60	10	£48.35	£43.98
69T 5-17	69	109.82	27H	109.00	60	10	£49.50	£45.04
70T 5-17	70	111.41	28H	110.60	60	10	£50.67	£46.10
71T 5-17	71	113.00	28H	112.20	60	10	£51.82	£47.15
72T 5-17	72	114.59	28H	113.75	60	10	£52.93	£48.18
73T 5-17	73	116.18	30H	115.35	60	10	£54.18	£49.24
74T 5-17	74	117.77	30H	116.95	60	10	£55.33	£50.34
75T 5-17	75	119.37	30H	118.55	60	10	£56.49	£51.41
76T 5-17	76	120.96	30H	120.15	60	10	£57.65	£52.48
77T 5-17	77	122.55	31H	121.75	60	10	£58.83	£53.52
78T 5-17	78	124.14	31H	123.30	60	10	£59.30	£54.61
79T 5-17	79	125.73	31H	124.90	60	10	£61.18	£55.65
80T 5-17	80	127.32	32H	126.50	60	10	£62.32	£56.72
81T 5-17	81	128.92	32H	128.10	60	10	£63.49	£57.78
82T 5-17	82	130.51	33H	129.70	60	10	£64.61	£58.82
83T 5-17	83	132.10	33H	131.30	60	10	£65.84	£59.85
84T 5-17	84	133.69	33H	132.85	60	10	£66.98	£60.96
280T 5-17	280	445.63	-	444.79	100	30	£380.18	£323.17

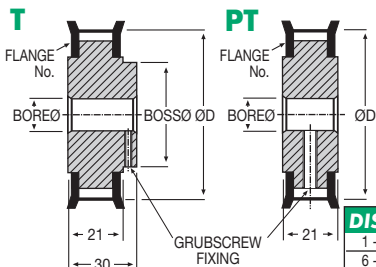


Timing Pulleys

Materials

5mm Pitch : 16mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-21	10	15.92	11XL	15.05	12	5	£12.50	£11.34
11T 5-21	11	17.51	11XL	16.65	12	5	£13.03	£11.85
12T 5-21	12	19.10	12XL	18.25	13	5	£13.49	£12.24
13T 5-21	13	20.69	12XL	19.85	13	5	£14.02	£12.76
14T 5-21	14	22.28	14XL	21.45	16	5	£14.51	£13.25
15T 5-21	15	23.87	14XL	23.05	16	6	£15.03	£13.65
16T 5-21	16	25.46	14XL	24.60	16	6	£15.51	£14.13
17T 5-21	17	27.06	16XL	26.20	16	6	£16.05	£14.63
18T 5-21	18	28.65	18XL	27.80	20	6	£16.56	£15.04
19T 5-21	19	30.24	18XL	29.40	20	6	£17.02	£15.50
20T 5-21	20	31.83	20XL	31.00	20	6	£17.59	£15.97
21T 5-21	21	33.42	20XL	32.70	20	6	£18.10	£16.46
22T 5-21	22	35.01	21XL	34.25	20	6	£18.61	£16.92
23T 5-21	23	36.61	22XL	35.76	20	6	£19.13	£17.36
24T 5-21	24	38.20	24XL	37.35	25	6	£19.60	£17.83
25T 5-21	25	39.79	24XL	39.00	25	6	£20.10	£18.25
26T 5-21	26	41.38	24XL	40.60	25	6	£20.64	£18.77
27T 5-21	27	42.97	26XL	42.20	25	6	£21.10	£19.20
28T 5-21	28	44.56	26XL	43.75	25	6	£21.62	£19.69
29T 5-21	29	46.15	28XL	45.35	25	6	£22.12	£20.12
30T 5-21	30	47.75	28XL	46.95	30	8	£22.67	£20.61
31T 5-21	31	49.34	30XL	48.55	30	8	£23.00	£21.09
32T 5-21	32	50.93	16L	50.10	30	8	£23.67	£21.52
33T 5-21	33	52.52	17L	51.70	30	8	£24.19	£22.00
34T 5-21	34	54.11	14H	53.25	30	8	£24.67	£22.45
35T 5-21	35	55.70	14H	54.85	30	8	£25.18	£22.90
36T 5-21	36	57.30	14H	56.45	30	8	£25.68	£23.37

Pulleys & Belts PITCH 5mm

12.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-21	37	58.89	15H	58.05	40	8	£26.27	£23.88
38T 5-21	38	60.48	15H	59.65	40	8	£26.80	£24.40
39T 5-21	39	62.07	16H	61.25	40	8	£27.40	£24.89
40T 5-21	40	63.66	16H	62.85	40	8	£27.96	£25.40
41T 5-21	41	65.25	17H	64.40	40	8	£28.55	£25.97
42T 5-21	42	66.85	17H	66.00	40	8	£29.08	£26.47
43T 5-21	43	68.44	17H	67.70	40	8	£29.68	£27.02
44T 5-21	44	70.03	18H	69.20	40	8	£30.22	£27.51
45T 5-21	45	71.62	18H	70.80	40	8	£30.79	£28.02
46T 5-21	46	73.21	18H	72.40	40	8	£31.34	£28.55
47T 5-21	47	74.80	19H	73.95	40	8	£31.95	£29.05
48T 5-21	48	76.39	19H	75.55	40	8	£32.53	£29.60
49T 5-21	49	77.99	19H	77.15	40	8	£33.09	£30.08
50T 5-21	50	79.58	20H	78.75	60	10	£33.63	£30.61
51T 5-21	51	81.17	21H	80.35	60	10	£34.23	£31.15
52T 5-21	52	82.76	21H	81.95	60	10	£34.77	£31.67
53T 5-21	53	84.35	21H	83.50	60	10	£35.36	£32.15
54T 5-21	54	85.94	22H	85.10	60	10	£35.92	£32.66
55T 5-21	55	87.54	22H	86.70	60	10	£36.49	£33.20
56T 5-21	56	89.13	22H	88.30	60	10	£37.05	£33.69
57T 5-21	57	90.72	23H	89.90	60	10	£37.68	£34.25
58T 5-21	58	92.31	23H	91.50	60	10	£38.17	£34.73
59T 5-21	59	93.90	24H	93.05	60	10	£38.74	£35.29
60T 5-21	60	95.49	24H	94.65	60	10	£40.17	£36.54
61T 5-21	61	97.08	24H	96.25	60	10	£41.39	£37.68
62T 5-21	62	98.68	25H	97.85	60	10	£42.72	£38.88
63T 5-21	63	100.27	25H	99.45	60	10	£44.02	£40.06
64T 5-21	64	101.86	26H	101.05	60	10	£45.38	£41.30
65T 5-21	65	103.45	26H	102.65	60	10	£46.66	£42.50
66T 5-21	66	105.04	26H	104.20	60	10	£47.99	£43.70
67T 5-21	67	106.63	26H	105.80	60	10	£49.35	£44.89
68T 5-21	68	108.23	27H	107.40	60	10	£50.65	£46.15
69T 5-21	69	109.82	27H	109.00	60	10	£51.98	£47.29
70T 5-21	70	111.41	28H	110.60	60	10	£53.29	£48.51
71T 5-21	71	113.00	28H	112.20	60	10	£51.53	£49.72
72T 5-21	72	114.59	28H	113.75	60	10	£55.94	£50.90
73T 5-21	73	116.18	30H	115.35	60	10	£57.28	£52.12
74T 5-21	74	117.77	30H	116.95	60	10	£58.63	£53.41
75T 5-21	75	119.37	30H	118.55	60	10	£59.97	£54.54
76T 5-21	76	120.96	30H	120.15	60	10	£61.26	£55.77
77T 5-21	77	122.55	31H	121.75	60	10	£62.60	£56.95
78T 5-21	78	124.14	31H	123.30	60	10	£63.87	£58.16
79T 5-21	79	125.73	31H	124.90	60	10	£65.23	£59.34
80T 5-21	80	127.32	32H	126.50	60	10	£66.58	£60.55
81T 5-21	81	128.92	32H	128.10	60	10	£67.84	£61.76
82T 5-21	82	130.51	33H	129.70	60	10	£69.23	£62.96
83T 5-21	83	132.10	33H	131.30	60	10	£70.52	£64.21
84T 5-21	84	133.69	33H	132.85	60	10	£71.85	£65.37
280T 5-21	280	445.63	-	444.79	100	30	£380.18	£323.16

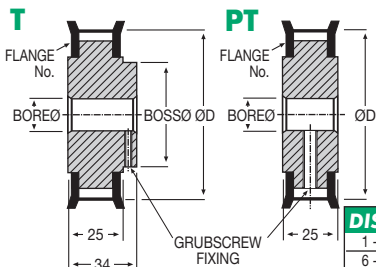
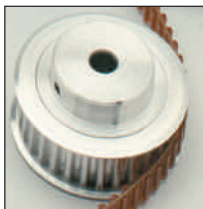


Timing Pulleys

Materials

5mm Pitch : 20mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-25	10	15.92	11XL	15.05	12	5	£13.13	£11.91
11T 5-25	11	17.51	11XL	16.65	12	5	£13.70	£12.44
12T 5-25	12	19.10	12XL	18.25	13	5	£14.20	£12.85
13T 5-25	13	20.69	12XL	19.85	13	5	£14.73	£13.39
14T 5-25	14	22.28	14XL	21.45	16	5	£15.24	£13.93
15T 5-25	15	23.87	14XL	23.05	16	6	£15.77	£14.36
16T 5-25	16	25.46	14XL	24.60	16	6	£16.35	£14.86
17T 5-25	17	27.06	16XL	26.20	16	6	£17.06	£15.36
18T 5-25	18	28.65	18XL	27.80	20	6	£17.37	£15.78
19T 5-25	19	30.24	18XL	29.40	20	6	£17.89	£16.29
20T 5-25	20	31.83	20XL	31.00	20	6	£18.47	£16.79
21T 5-25	21	33.42	20XL	32.70	20	6	£19.02	£17.29
22T 5-25	22	35.01	21XL	34.25	20	6	£19.58	£17.76
23T 5-25	23	36.61	22XL	35.76	20	6	£20.10	£18.23
24T 5-25	24	38.20	24XL	37.35	25	6	£20.59	£18.74
25T 5-25	25	39.79	24XL	39.00	25	6	£21.10	£19.20
26T 5-25	26	41.38	24XL	40.60	25	6	£21.68	£19.72
27T 5-25	27	42.97	26XL	42.20	25	6	£22.18	£20.16
28T 5-25	28	44.56	26XL	43.75	25	6	£22.73	£20.68
29T 5-25	29	46.15	28XL	45.35	25	6	£23.25	£21.15
30T 5-25	30	47.75	28XL	46.95	30	8	£23.80	£21.66
31T 5-25	31	49.34	30XL	48.55	30	8	£24.16	£22.15
32T 5-25	32	50.93	16L	50.10	30	8	£24.87	£22.57
33T 5-25	33	52.52	17L	51.70	30	8	£25.39	£23.10
34T 5-25	34	54.11	14H	53.25	30	8	£25.93	£23.61
35T 5-25	35	55.70	14H	54.85	30	8	£26.47	£24.10
36T 5-25	36	57.30	14H	56.45	30	8	£26.97	£24.55

Pulleys & Belts PITCH 5mm

12.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-25	37	58.89	15H	58.05	40	8	£27.60	£25.08
38T 5-25	38	60.48	15H	59.65	40	8	£28.14	£25.64
39T 5-25	39	62.07	16H	61.25	40	8	£28.78	£26.13
40T 5-25	40	63.66	16H	62.85	40	8	£29.37	£26.68
41T 5-25	41	65.25	17H	64.40	40	8	£30.00	£27.30
42T 5-25	42	66.85	17H	66.00	40	8	£30.55	£27.79
43T 5-25	43	68.44	17H	67.70	40	8	£31.17	£28.39
44T 5-25	44	70.03	18H	69.20	40	8	£31.77	£28.90
45T 5-25	45	71.62	18H	70.80	40	8	£32.33	£29.43
46T 5-25	46	73.21	18H	72.40	40	8	£32.94	£30.00
47T 5-25	47	74.80	19H	73.95	40	8	£33.56	£30.53
48T 5-25	48	76.39	19H	75.55	40	8	£34.17	£31.05
49T 5-25	49	77.99	19H	77.15	40	8	£34.75	£31.59
50T 5-25	50	79.58	20H	78.75	60	10	£35.32	£32.17
51T 5-25	51	81.17	21H	80.35	60	10	£35.96	£32.70
52T 5-25	52	82.76	21H	81.95	60	10	£36.54	£33.28
53T 5-25	53	84.35	21H	83.50	60	10	£37.15	£33.78
54T 5-25	54	85.94	22H	85.10	60	10	£37.73	£34.33
55T 5-25	55	87.54	22H	86.70	60	10	£38.32	£34.88
56T 5-25	56	89.13	22H	88.30	60	10	£38.92	£35.39
57T 5-25	57	90.72	23H	89.90	60	10	£39.56	£35.98
58T 5-25	58	92.31	23H	91.50	60	10	£40.16	£36.47
59T 5-25	59	93.90	24H	93.05	60	10	£40.68	£37.05
60T 5-25	60	95.49	24H	94.65	60	10	£42.20	£38.35
61T 5-25	61	97.08	24H	96.25	60	10	£43.49	£39.56
62T 5-25	62	98.68	25H	97.85	60	10	£44.87	£40.83
63T 5-25	63	100.27	25H	99.45	60	10	£46.24	£42.16
64T 5-25	64	101.86	26H	101.05	60	10	£47.64	£43.36
65T 5-25	65	103.45	26H	102.65	60	10	£49.01	£44.64
66T 5-25	66	105.04	26H	104.20	60	10	£50.38	£45.91
67T 5-25	67	106.63	26H	105.80	60	10	£51.82	£47.15
68T 5-25	68	108.23	27H	107.40	60	10	£53.17	£48.45
69T 5-25	69	109.82	27H	109.00	60	10	£54.61	£49.65
70T 5-25	70	111.41	28H	110.60	60	10	£56.01	£50.92
71T 5-25	71	113.00	28H	112.20	60	10	£57.35	£52.23
72T 5-25	72	114.59	28H	113.75	60	10	£58.75	£53.46
73T 5-25	73	116.18	30H	115.35	60	10	£60.17	£54.78
74T 5-25	74	117.77	30H	116.95	60	10	£61.58	£56.07
75T 5-25	75	119.37	30H	118.55	60	10	£62.96	£60.12
76T 5-25	76	120.96	30H	120.15	60	10	£64.35	£58.57
77T 5-25	77	122.55	31H	121.75	60	10	£65.73	£59.82
78T 5-25	78	124.14	31H	123.30	60	10	£67.08	£61.09
79T 5-25	79	125.73	31H	124.90	60	10	£68.90	£62.32
80T 5-25	80	127.32	32H	126.50	60	10	£69.91	£63.61
81T 5-25	81	128.92	32H	128.10	60	10	£71.30	£64.86
82T 5-25	82	130.51	33H	129.70	60	10	£72.69	£66.11
83T 5-25	83	132.10	33H	131.30	60	10	£74.08	£67.45
84T 5-25	84	133.69	33H	132.85	60	10	£75.44	£68.64
280T 5-25	280	445.63	-	444.79	100	30	£399.20	£339.33

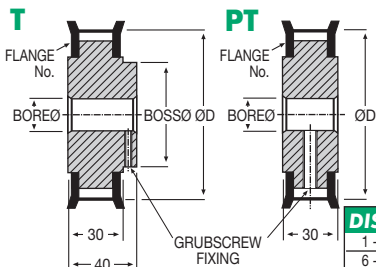
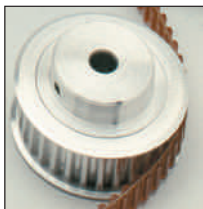


Timing Pulleys

Materials

5mm Pitch : 25mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-30	10	15.92	11XL	15.05	12	5	£13.63	£12.39
11T 5-30	11	17.51	11XL	16.65	12	5	£14.20	£12.94
12T 5-30	12	19.10	12XL	18.25	13	5	£14.78	£13.48
13T 5-30	13	20.69	12XL	19.85	13	5	£15.40	£13.99
14T 5-30	14	22.28	14XL	21.45	16	5	£15.97	£14.61
15T 5-30	15	23.87	14XL	23.05	16	6	£16.57	£15.11
16T 5-30	16	25.46	14XL	24.60	16	6	£17.24	£15.60
17T 5-30	17	27.06	16XL	26.20	16	6	£17.78	£16.18
18T 5-30	18	28.65	18XL	27.80	20	6	£18.34	£16.70
19T 5-30	19	30.24	18XL	29.40	20	6	£18.94	£17.26
20T 5-30	20	31.83	20XL	31.00	20	6	£19.54	£17.78
21T 5-30	21	33.42	20XL	32.70	20	6	£20.10	£18.25
22T 5-30	22	35.01	21XL	34.25	20	6	£20.68	£18.78
23T 5-30	23	36.61	22XL	35.76	20	6	£21.27	£19.36
24T 5-30	24	38.20	24XL	37.35	25	6	£21.91	£19.89
25T 5-30	25	39.79	24XL	39.00	25	6	£22.47	£20.47
26T 5-30	26	41.38	24XL	40.60	25	6	£23.07	£20.96
27T 5-30	27	42.97	26XL	42.20	25	6	£23.67	£21.52
28T 5-30	28	44.56	26XL	43.75	25	6	£24.22	£22.05
29T 5-30	29	46.15	28XL	45.35	25	6	£24.81	£22.57
30T 5-30	30	47.75	28XL	46.95	30	8	£25.40	£23.09
31T 5-30	31	49.34	30XL	48.55	30	8	£26.00	£23.67
32T 5-30	32	50.93	16L	50.10	30	8	£26.60	£24.19
33T 5-30	33	52.52	17L	51.70	30	8	£27.18	£24.73
34T 5-30	34	54.11	14H	53.25	30	8	£27.74	£25.28
35T 5-30	35	55.70	14H	54.85	30	8	£28.39	£25.80
36T 5-30	36	57.30	14H	56.45	30	8	£28.95	£26.32

Pulleys & Belts PITCH 5mm

12.26



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-30	37	58.89	15H	58.05	40	8	£29.42	£26.74
38T 5-30	38	60.48	15H	59.65	40	8	£30.01	£27.30
39T 5-30	39	62.07	16H	61.25	40	8	£30.51	£27.74
40T 5-30	40	63.66	16H	62.85	40	8	£31.05	£28.23
41T 5-30	41	65.25	17H	64.40	40	8	£31.61	£28.75
42T 5-30	42	66.85	17H	66.00	40	8	£32.10	£29.27
43T 5-30	43	68.44	17H	67.70	40	8	£32.63	£29.68
44T 5-30	44	70.03	18H	69.20	40	8	£33.16	£30.17
45T 5-30	45	71.62	18H	70.80	40	8	£33.69	£30.72
46T 5-30	46	73.21	18H	72.40	40	8	£34.23	£31.15
47T 5-30	47	74.80	19H	73.95	40	8	£34.73	£31.63
48T 5-30	48	76.39	19H	75.55	40	8	£35.30	£32.10
49T 5-30	49	77.99	19H	77.15	40	8	£35.86	£32.62
50T 5-30	50	79.58	20H	78.75	60	10	£36.35	£33.07
51T 5-30	51	81.17	21H	80.35	60	10	£36.91	£33.61
52T 5-30	52	82.76	21H	81.95	60	10	£37.40	£34.02
53T 5-30	53	84.35	21H	83.50	60	10	£37.92	£34.53
54T 5-30	54	85.94	22H	85.10	60	10	£38.46	£34.99
55T 5-30	55	87.54	22H	86.70	60	10	£39.02	£35.51
56T 5-30	56	89.13	22H	88.30	60	10	£39.56	£35.96
57T 5-30	57	90.72	23H	89.90	60	10	£40.04	£36.63
58T 5-30	58	92.31	23H	91.50	60	10	£40.59	£36.95
59T 5-30	59	93.90	24H	93.05	60	10	£41.10	£37.37
60T 5-30	60	95.49	24H	94.65	60	10	£42.76	£38.88
61T 5-30	61	97.08	24H	96.25	60	10	£44.39	£49.90
62T 5-30	62	98.68	25H	97.85	60	10	£46.08	£41.91
63T 5-30	63	100.27	25H	99.45	60	10	£47.71	£43.46
64T 5-30	64	101.86	26H	101.05	60	10	£49.44	£44.95
65T 5-30	65	103.45	26H	102.65	60	10	£51.09	£46.49
66T 5-30	66	105.04	26H	104.20	60	10	£52.77	£47.98
67T 5-30	67	106.63	26H	105.80	60	10	£54.40	£49.49
68T 5-30	68	108.23	27H	107.40	60	10	£56.07	£51.31
69T 5-30	69	109.82	27H	109.00	60	10	£57.69	£52.51
70T 5-30	70	111.41	28H	110.60	60	10	£59.35	£54.00
71T 5-30	71	113.00	28H	112.20	60	10	£61.07	£55.52
72T 5-30	72	114.59	28H	113.75	60	10	£62.71	£57.02
73T 5-30	73	116.18	30H	115.35	60	10	£64.34	£58.57
74T 5-30	74	117.77	30H	116.95	60	10	£66.06	£60.09
75T 5-30	75	119.37	30H	118.55	60	10	£67.69	£61.55
76T 5-30	76	120.96	30H	120.15	60	10	£69.39	£63.12
77T 5-30	77	122.55	31H	121.75	60	10	£71.04	£64.61
78T 5-30	78	124.14	31H	123.30	60	10	£72.69	£66.14
79T 5-30	79	125.73	31H	124.90	60	10	£74.37	£67.66
80T 5-30	80	127.32	32H	126.50	60	10	£76.01	£69.13
81T 5-30	81	128.92	32H	128.10	60	10	£77.66	£70.67
82T 5-30	82	130.51	33H	129.70	60	10	£79.30	£72.16
83T 5-30	83	132.10	33H	131.30	60	10	£80.98	£73.68
84T 5-30	84	133.69	33H	132.85	60	10	£82.66	£75.16
280T 5-30	280	445.63	-	444.79	100	30	£399.17	£339.33

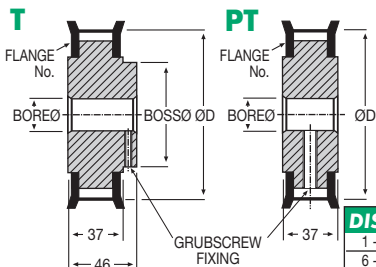
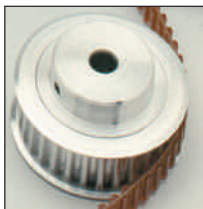


Timing Pulleys

Materials

5mm Pitch : 32mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 280**

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 5-37	10	15.92	11XL	15.05	12	5	£14.33	£13.01
11T 5-37	11	17.51	11XL	16.65	12	5	£14.95	£13.61
12T 5-37	12	19.10	12XL	18.25	13	5	£15.57	£14.15
13T 5-37	13	20.69	12XL	19.85	13	5	£16.17	£14.72
14T 5-37	14	22.28	14XL	21.45	16	5	£14.97	£15.33
15T 5-37	15	23.87	14XL	23.05	16	6	£17.43	£15.89
16T 5-37	16	25.46	14XL	24.60	16	6	£18.08	£16.42
17T 5-37	17	27.06	16XL	26.20	16	6	£18.69	£16.98
18T 5-37	18	28.65	18XL	27.80	20	6	£19.26	£17.55
19T 5-37	19	30.24	18XL	29.40	20	6	£19.92	£18.10
20T 5-37	20	31.83	20XL	31.00	20	6	£20.55	£18.69
21T 5-37	21	33.42	20XL	32.70	20	6	£21.10	£19.20
22T 5-37	22	35.01	21XL	34.25	20	6	£21.73	£19.73
23T 5-37	23	36.61	22XL	35.76	20	6	£22.36	£20.34
24T 5-37	24	38.20	24XL	37.35	25	6	£22.99	£20.90
25T 5-37	25	39.79	24XL	39.00	25	6	£23.62	£21.52
26T 5-37	26	41.38	24XL	40.60	25	6	£24.21	£22.05
27T 5-37	27	42.97	26XL	42.20	25	6	£24.87	£22.57
28T 5-37	28	44.56	26XL	43.75	25	6	£25.42	£23.20
29T 5-37	29	46.15	28XL	45.35	25	6	£26.09	£23.71
30T 5-37	30	47.75	28XL	46.95	30	8	£26.68	£24.23
31T 5-37	31	49.34	30XL	48.55	30	8	£27.31	£24.87
32T 5-37	32	50.93	16L	50.10	30	8	£27.93	£25.39
33T 5-37	33	52.52	17L	51.70	30	8	£28.57	£26.00
34T 5-37	34	54.11	14H	53.25	30	8	£29.12	£26.54
35T 5-37	35	55.70	14H	54.85	30	8	£29.82	£27.09
36T 5-37	36	57.30	14H	56.45	30	8	£30.41	£27.64

Pulleys & Belts PITCH 5mm

12.28



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 5-37	37	58.89	15H	58.05	40	8	£30.91	£28.13
38T 5-37	38	60.48	15H	59.65	40	8	£31.50	£28.67
39T 5-37	39	62.07	16H	61.25	40	8	£32.05	£29.12
40T 5-37	40	63.66	16H	62.85	40	8	£32.61	£29.65
41T 5-37	41	65.25	17H	64.40	40	8	£33.24	£30.20
42T 5-37	42	66.85	17H	66.00	40	8	£33.72	£30.73
43T 5-37	43	68.44	17H	67.70	40	8	£34.25	£31.17
44T 5-37	44	70.03	18H	69.20	40	8	£34.84	£31.70
45T 5-37	45	71.62	18H	70.80	40	8	£35.39	£32.22
46T 5-37	46	73.21	18H	72.40	40	8	£35.96	£32.70
47T 5-37	47	74.80	19H	73.95	40	8	£36.47	£33.26
48T 5-37	48	76.39	19H	75.55	40	8	£37.08	£33.72
49T 5-37	49	77.99	19H	77.15	40	8	£37.67	£34.24
50T 5-37	50	79.58	20H	78.75	60	10	£38.17	£34.73
51T 5-37	51	81.17	21H	80.35	60	10	£38.74	£35.29
52T 5-37	52	82.76	21H	81.95	60	10	£39.27	£35.72
53T 5-37	53	84.35	21H	83.50	60	10	£39.89	£36.26
54T 5-37	54	85.94	22H	85.10	60	10	£40.38	£36.75
55T 5-37	55	87.54	22H	86.70	60	10	£40.99	£37.31
56T 5-37	56	89.13	22H	88.30	60	10	£41.53	£37.76
57T 5-37	57	90.72	23H	89.90	60	10	£42.05	£38.50
58T 5-37	58	92.31	23H	91.50	60	10	£42.64	£38.80
59T 5-37	59	93.90	24H	93.05	60	10	£43.18	£39.26
60T 5-37	60	95.49	24H	94.65	60	10	£44.91	£40.83
61T 5-37	61	97.08	24H	96.25	60	10	£46.65	£42.46
62T 5-37	62	98.68	25H	97.85	60	10	£48.38	£44.02
63T 5-37	63	100.27	25H	99.45	60	10	£50.11	£45.63
64T 5-37	64	101.86	26H	101.05	60	10	£51.93	£47.20
65T 5-37	65	103.45	26H	102.65	60	10	£53.66	£48.80
66T 5-37	66	105.04	26H	104.20	60	10	£55.42	£50.36
67T 5-37	67	106.63	26H	105.80	60	10	£57.14	£51.96
68T 5-37	68	108.23	27H	107.40	60	10	£58.87	£53.89
69T 5-37	69	109.82	27H	109.00	60	10	£60.59	£55.16
70T 5-37	70	111.41	28H	110.60	60	10	£62.34	£56.74
71T 5-37	71	113.00	28H	112.20	60	10	£64.10	£58.32
72T 5-37	72	114.59	28H	113.75	60	10	£65.86	£59.86
73T 5-37	73	116.18	30H	115.35	60	10	£67.55	£61.50
74T 5-37	74	117.77	30H	116.95	60	10	£69.39	£63.11
75T 5-37	75	119.37	30H	118.55	60	10	£71.07	£64.72
76T 5-37	76	120.96	30H	120.15	60	10	£72.88	£66.30
77T 5-37	77	122.55	31H	121.75	60	10	£74.61	£67.84
78T 5-37	78	124.14	31H	123.30	60	10	£76.33	£69.48
79T 5-37	79	125.73	31H	124.90	60	10	£78.11	£71.02
80T 5-37	80	127.32	32H	126.50	60	10	£79.83	£72.58
81T 5-37	81	128.92	32H	128.10	60	10	£81.57	£74.22
82T 5-37	82	130.51	33H	129.70	60	10	£83.31	£75.78
83T 5-37	83	132.10	33H	131.30	60	10	£85.07	£77.38
84T 5-37	84	133.69	33H	132.85	60	10	£86.78	£78.94
280T 5-37	280	445.63	-	444.79	100	30	£419.17	£354.35

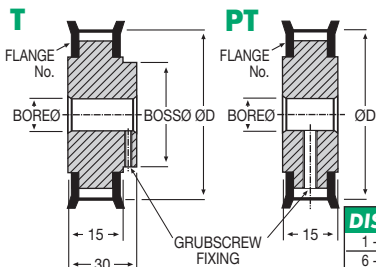


Timing Pulleys

Materials

10mm Pitch : 10mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-15	10	31.83	10L	30.00	20	8	£15.93	£14.32
11T 10-15	11	35.01	12L	33.14	20	8	£18.29	£16.13
12T 10-15	12	38.20	12L	36.35	24	8	£19.92	£16.94
13T 10-15	13	41.38	14L	39.50	30	8	£20.47	£17.87
14T 10-15	14	44.56	14L	42.70	30	8	£21.42	£18.30
15T 10-15	15	47.75	15L	45.90	35	10	£22.02	£19.20
16T 10-15	16	50.93	16L	49.05	35	10	£23.12	£19.64
17T 10-15	17	54.11	17L	52.25	40	10	£23.81	£20.56
18T 10-15	18	57.30	14H	55.45	40	10	£25.68	£22.31
19T 10-15	19	60.48	15H	58.60	40	10	£26.86	£24.07
20T 10-15	20	63.66	16H	61.80	40	10	£27.92	£25.18
21T 10-15	21	66.85	17H	65.00	40	12	£29.12	£26.68
22T 10-15	22	70.03	17H	68.15	50	12	£31.22	£27.60
23T 10-15	23	73.21	18H	71.35	50	12	£32.72	£28.75
24T 10-15	24	76.39	18H	74.55	50	12	£34.50	£29.32
25T 10-15	25	79.58	19H	77.70	50	12	£36.63	£31.77
26T 10-15	26	82.76	21H	80.90	50	12	£37.83	£32.45
27T 10-15	27	85.94	21H	84.10	50	12	£39.47	£33.76
28T 10-15	28	89.13	22H	87.25	50	12	£40.45	£34.88
29T 10-15	29	92.31	23H	90.45	50	12	£41.14	£35.39
30T 10-15	30	95.49	23H	93.65	50	12	£42.17	£36.77
31T 10-15	31	98.68	24H	96.80	50	12	£43.38	£37.34
32T 10-15	32	101.86	25H	100.00	60	12	£42.64	£39.12
33T 10-15	33	105.04	26H	103.20	60	12	£48.45	£41.79
34T 10-15	34	108.23	26H	106.40	60	12	£49.87	£42.54
35T 10-15	35	111.41	27H	109.55	60	12	£52.74	£44.10
36T 10-15	36	114.59	28H	112.75	60	12	£52.19	£44.85

Pulleys & Belts PITCH 10mm

12.30



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-15	37	117.77	30H	115.90	60	15	£58.00	£48.61
38T 10-15	38	120.96	30H	119.10	60	15	£60.14	£49.16
39T 10-15	39	124.14	31H	122.30	60	15	£61.46	£50.33
40T 10-15	40	127.32	31H	125.45	75	15	£62.29	£50.89
41T 10-15	41	130.51	32H	128.65	75	15	£63.80	£52.85
42T 10-15	42	133.69	33H	131.85	75	15	£65.32	£54.78
43T 10-15	43	136.87	34H	135.00	75	15	£69.17	£57.13
44T 10-15	44	140.06	36H	138.20	75	15	£70.86	£58.00
45T 10-15	45	143.24	36H	141.40	75	15	£71.93	£58.82
46T 10-15	46	146.42	36H	144.55	75	15	£74.76	£65.09
47T 10-15	47	149.61	38H	147.75	75	15	£79.38	£65.86
48T 10-15	48	152.79	38H	150.95	75	15	£84.39	£72.15
49T 10-15	49	155.97	40H	154.10	75	15	£89.62	£74.70
50T 10-15	50	159.15	40H	157.30	75	15	£93.76	£78.40
51T 10-15	51	162.34	40H	160.50	100	15	£98.94	£82.42
52T 10-15	52	165.52	42H	163.65	100	15	£108.54	£89.31
53T 10-15	53	168.70	42H	166.85	100	15	£110.01	£92.11
54T 10-15	54	171.89	42H	170.05	100	15	£111.63	£94.35
55T 10-15	55	175.07	44H	173.20	100	15	£115.40	£96.34
56T 10-15	56	178.25	44H	176.40	100	15	£116.79	£97.32
57T 10-15	57	181.44	46H	179.60	100	15	£119.49	£99.70
58T 10-15	58	184.62	46H	182.75	100	15	£124.22	£104.77
59T 10-15	59	187.80	48H	185.95	100	15	£129.57	£107.97
60T 10-15	60	190.99	48H	189.10	100	15	£133.84	£110.80
61T 10-15	61	194.17	48H	192.30	100	15	£135.55	£115.90
62T 10-15	62	197.35	48H	195.50	100	15	£138.74	£118.69
63T 10-15	63	200.54	-	198.65	100	15	£143.06	£120.52
64T 10-15	64	203.72	-	201.85	100	15	£150.98	£125.88
65T 10-15	65	206.90	-	205.05	100	15	£161.11	£135.97
66T 10-15	66	210.08	-	208.20	100	15	£162.72	£136.17
67T 10-15	67	213.27	-	211.40	100	15	£163.96	£136.36
68T 10-15	68	216.45	-	214.60	100	15	£167.11	£139.23
69T 10-15	69	219.63	-	217.75	100	15	£168.39	£142.53
70T 10-15	70	222.82	-	220.95	100	15	£171.11	£145.29
71T 10-15	71	226.00	-	224.15	100	15	£178.57	£148.81
72T 10-15	72	229.18	-	227.30	100	15	£182.83	£150.50
73T 10-15	73	232.37	-	230.50	100	15	£184.87	£153.04
74T 10-15	74	235.55	-	233.70	100	15	£188.26	£159.15
75T 10-15	75	238.73	-	236.90	100	15	£192.45	£167.80
76T 10-15	76	241.92	-	240.05	100	15	£193.98	£168.75
77T 10-15	77	245.10	-	243.25	100	15	£204.50	£172.96
78T 10-15	78	248.48	-	246.40	100	15	£209.14	£177.69
79T 10-15	79	251.46	-	249.60	100	15	£210.94	£184.72
80T 10-15	80	254.65	-	252.80	100	15	£214.48	£193.76
81T 10-15	81	257.83	-	255.95	100	15	£219.93	£199.85
82T 10-15	82	261.01	-	259.15	100	15	£229.82	£206.32
83T 10-15	83	264.20	-	262.35	100	15	£237.29	£212.18
84T 10-15	84	267.38	-	265.50	100	15	£258.82	£216.95
140T 10-15	140	445.63	-	443.75	100	30	£414.50	£352.28

Pulleys & Belts
PITCH 10mm

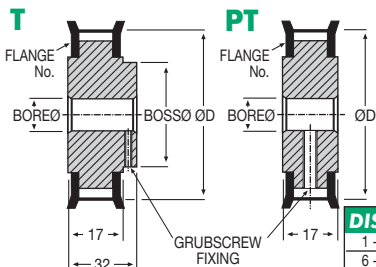
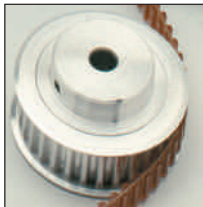


Timing Pulleys

Materials

10mm Pitch : 12mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-17	10	31.83	10L	30.00	20	8	£16.44	£14.76
11T 10-17	11	35.01	12L	33.14	20	8	£18.87	£16.27
12T 10-17	12	38.20	12L	36.35	24	8	£20.56	£17.48
13T 10-17	13	41.38	14L	39.50	30	8	£21.15	£18.45
14T 10-17	14	44.56	14L	42.70	30	8	£22.13	£18.88
15T 10-17	15	47.75	15L	45.90	35	10	£22.74	£19.81
16T 10-17	16	50.93	16L	49.05	35	10	£23.88	£20.29
17T 10-17	17	54.11	17L	52.25	40	10	£24.55	£21.21
18T 10-17	18	57.30	14H	55.45	40	10	£26.54	£23.04
19T 10-17	19	60.48	15H	58.60	40	10	£27.69	£24.81
20T 10-17	20	63.66	16H	61.80	40	10	£28.79	£26.00
21T 10-17	21	66.85	17H	65.00	40	12	£30.08	£27.54
22T 10-17	22	70.03	17H	68.15	50	12	£32.25	£28.48
23T 10-17	23	73.21	18H	71.35	50	12	£33.82	£29.68
24T 10-17	24	76.39	18H	74.55	50	12	£35.59	£30.26
25T 10-17	25	79.58	19H	77.70	50	12	£37.80	£32.78
26T 10-17	26	82.76	21H	80.90	50	12	£39.04	£33.53
27T 10-17	27	85.94	21H	84.10	50	12	£40.73	£34.85
28T 10-17	28	89.13	22H	87.25	50	12	£41.70	£36.00
29T 10-17	29	92.31	23H	90.45	50	12	£42.46	£36.54
30T 10-17	30	95.49	23H	93.65	50	12	£43.49	£37.65
31T 10-17	31	98.68	24H	96.80	50	12	£44.79	£38.55
32T 10-17	32	101.86	25H	100.00	60	12	£47.15	£40.38
33T 10-17	33	105.04	26H	103.20	60	12	£49.97	£43.13
34T 10-17	34	108.23	26H	106.40	60	12	£51.45	£43.93
35T 10-17	35	111.41	27H	109.55	60	12	£52.74	£45.52
36T 10-17	36	114.59	28H	112.75	60	12	£53.85	£46.27

Pulleys & Belts PITCH 10mm

12.32



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-17	37	117.77	30H	115.90	60	15	£59.86	£50.15
38T 10-17	38	120.96	30H	119.10	60	15	£62.08	£50.68
39T 10-17	39	124.14	31H	122.30	60	15	£63.41	£51.95
40T 10-17	40	127.32	31H	125.45	75	15	£64.28	£52.51
41T 10-17	41	130.51	32H	128.65	75	15	£65.86	£54.55
42T 10-17	42	133.69	33H	131.85	75	15	£67.45	£56.50
43T 10-17	43	136.87	34H	135.00	75	15	£71.39	£58.91
44T 10-17	44	140.06	36H	138.20	75	15	£72.38	£59.86
45T 10-17	45	143.24	36H	141.40	75	15	£74.22	£60.72
46T 10-17	46	146.42	36H	144.55	75	15	£74.76	£61.48
47T 10-17	47	149.61	38H	147.75	75	15	£81.94	£67.96
48T 10-17	48	152.79	38H	150.95	75	15	£87.09	£74.44
49T 10-17	49	155.97	40H	154.10	75	15	£92.49	£77.08
50T 10-17	50	159.15	40H	157.30	75	15	£96.74	£80.88
51T 10-17	51	162.34	40H	160.50	100	15	£102.10	£85.08
52T 10-17	52	165.52	42H	163.65	100	15	£112.02	£92.18
53T 10-17	53	168.70	42H	166.85	100	15	£113.55	£95.04
54T 10-17	54	171.89	42H	170.05	100	15	£115.17	£97.36
55T 10-17	55	175.07	44H	173.20	100	15	£119.07	£99.44
56T 10-17	56	178.25	44H	176.40	100	15	£120.52	£100.42
57T 10-17	57	181.44	46H	179.60	100	15	£123.31	£102.88
58T 10-17	58	184.62	46H	182.75	100	15	£128.19	£108.14
59T 10-17	59	187.80	48H	185.95	100	15	£133.73	£111.44
60T 10-17	60	190.99	48H	189.10	100	15	£138.09	£114.33
61T 10-17	61	194.17	48H	192.30	100	15	£139.86	£119.66
62T 10-17	62	197.35	48H	195.50	100	15	£143.15	£122.48
63T 10-17	63	200.54	-	198.65	100	15	£147.59	£124.40
64T 10-17	64	203.72	-	201.85	100	15	£155.83	£129.87
65T 10-17	65	206.90	-	205.05	100	15	£166.29	£138.55
66T 10-17	66	210.08	-	208.20	100	15	£167.93	£138.78
67T 10-17	67	213.27	-	211.40	100	15	£169.22	£140.74
68T 10-17	68	216.45	-	214.60	100	15	£172.43	£143.70
69T 10-17	69	219.63	-	217.75	100	15	£173.76	£147.10
70T 10-17	70	222.82	-	220.95	100	15	£176.54	£149.94
71T 10-17	71	226.00	-	224.15	100	15	£184.25	£153.54
72T 10-17	72	229.18	-	227.30	100	15	£188.66	£155.30
73T 10-17	73	232.37	-	230.50	100	15	£190.77	£157.92
74T 10-17	74	235.55	-	233.70	100	15	£194.31	£164.20
75T 10-17	75	238.73	-	236.90	100	15	£198.60	£173.11
76T 10-17	76	241.92	-	240.05	100	15	£200.20	£174.17
77T 10-17	77	245.10	-	243.25	100	15	£210.99	£178.47
78T 10-17	78	248.48	-	246.40	100	15	£215.81	£183.39
79T 10-17	79	251.46	-	249.60	100	15	£217.65	£190.67
80T 10-17	80	254.65	-	252.80	100	15	£221.32	£199.96
81T 10-17	81	257.83	-	255.95	100	15	£226.90	£206.22
82T 10-17	82	261.01	-	259.15	100	15	£237.14	£212.90
83T 10-17	83	264.20	-	262.35	100	15	£244.87	£218.96
84T 10-17	84	267.38	-	265.50	100	15	£267.10	£223.87
140T 10-17	140	445.63	-	443.75	100	30	£427.73	£363.55

Pulleys & Belts
PITCH 10mm

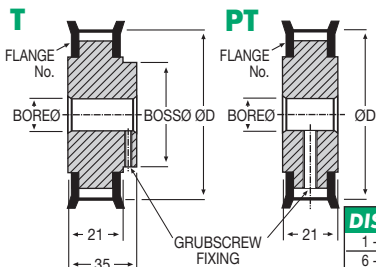
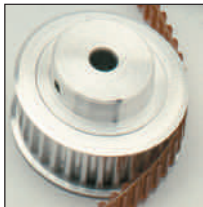


Timing Pulleys

Materials

10mm Pitch : 16mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-21	10	31.83	10L	30.00	20	8	£16.95	£15.20
11T 10-21	11	35.01	12L	33.14	20	8	£19.42	£17.13
12T 10-21	12	38.20	12L	36.35	24	8	£21.17	£18.01
13T 10-21	13	41.38	14L	39.50	30	8	£21.77	£19.01
14T 10-21	14	44.56	14L	42.70	30	8	£22.79	£19.44
15T 10-21	15	47.75	15L	45.90	35	10	£23.45	£20.42
16T 10-21	16	50.93	16L	49.05	35	10	£24.61	£20.90
17T 10-21	17	54.11	17L	52.25	40	10	£25.32	£21.85
18T 10-21	18	57.30	14H	55.45	40	10	£27.33	£23.74
19T 10-21	19	60.48	15H	58.60	40	10	£28.57	£25.59
20T 10-21	20	63.66	16H	61.80	40	10	£29.68	£26.80
21T 10-21	21	66.85	17H	65.00	40	12	£31.01	£28.39
22T 10-21	22	70.03	17H	68.15	50	12	£33.20	£29.32
23T 10-21	23	73.21	18H	71.35	50	12	£34.84	£30.57
24T 10-21	24	76.39	18H	74.55	50	12	£36.69	£31.21
25T 10-21	25	79.58	19H	77.70	50	12	£38.96	£33.82
26T 10-21	26	82.76	21H	80.90	50	12	£40.23	£34.55
27T 10-21	27	85.94	21H	84.10	50	12	£41.95	£35.92
28T 10-21	28	89.13	22H	87.25	50	12	£43.00	£37.09
29T 10-21	29	92.31	23H	90.45	50	12	£43.75	£37.68
30T 10-21	30	95.49	23H	93.65	50	12	£44.80	£38.80
31T 10-21	31	98.68	24H	96.80	50	12	£46.18	£39.72
32T 10-21	32	101.86	25H	100.00	60	12	£48.61	£41.62
33T 10-21	33	105.04	26H	103.20	60	12	£51.56	£44.40
34T 10-21	34	108.23	26H	106.40	60	12	£53.10	£45.25
35T 10-21	35	111.41	27H	109.55	60	12	£54.36	£46.91
36T 10-21	36	114.59	28H	112.75	60	12	£55.50	£47.71

Pulleys & Belts PITCH 10mm

12.34



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-21	37	117.77	30H	115.90	60	15	£61.73	£51.69
38T 10-21	38	120.96	30H	119.10	60	15	£63.99	£52.30
39T 10-21	39	124.14	31H	122.30	60	15	£65.37	£53.52
40T 10-21	40	127.32	31H	125.45	75	15	£66.25	£54.14
41T 10-21	41	130.51	32H	128.65	75	15	£67.84	£56.20
42T 10-21	42	133.69	33H	131.85	75	15	£69.53	£58.26
43T 10-21	43	136.87	34H	135.00	75	15	£73.56	£60.77
44T 10-21	44	140.06	36H	138.20	75	15	£74.61	£61.73
45T 10-21	45	143.24	36H	141.40	75	15	£76.55	£62.57
46T 10-21	46	146.42	36H	144.55	75	15	£77.08	£63.37
47T 10-21	47	149.61	38H	147.75	75	15	£84.49	£70.04
48T 10-21	48	152.79	38H	150.95	75	15	£89.77	£76.73
49T 10-21	49	155.97	40H	154.10	75	15	£95.35	£79.48
50T 10-21	50	159.15	40H	157.30	75	15	£99.71	£83.39
51T 10-21	51	162.34	40H	160.50	100	15	£105.26	£87.70
52T 10-21	52	165.52	42H	163.65	100	15	£115.44	£95.00
53T 10-21	53	168.70	42H	166.85	100	15	£117.00	£98.03
54T 10-21	54	171.89	42H	170.05	100	15	£118.74	£100.38
55T 10-21	55	175.07	44H	173.20	100	15	£122.75	£102.50
56T 10-21	56	178.25	44H	176.40	100	15	£124.23	£103.54
57T 10-21	57	181.44	46H	179.60	100	15	£127.13	£106.08
58T 10-21	58	184.62	46H	182.75	100	15	£132.19	£111.46
59T 10-21	59	187.80	48H	185.95	100	15	£137.84	£114.87
60T 10-21	60	190.99	48H	189.10	100	15	£142.36	£117.87
61T 10-21	61	194.17	48H	192.30	100	15	£144.22	£123.32
62T 10-21	62	197.35	48H	195.50	100	15	£147.58	£126.27
63T 10-21	63	200.54	-	198.65	100	15	£152.21	£128.20
64T 10-21	64	203.72	-	201.85	100	15	£160.65	£133.86
65T 10-21	65	206.90	-	205.05	100	15	£171.41	£142.81
66T 10-21	66	210.08	-	208.20	100	15	£173.11	£143.06
67T 10-21	67	213.27	-	211.40	100	15	£174.43	£145.05
68T 10-21	68	216.45	-	214.60	100	15	£177.76	£148.09
69T 10-21	69	219.63	-	217.75	100	15	£179.14	£151.59
70T 10-21	70	222.82	-	220.95	100	15	£182.00	£154.60
71T 10-21	71	226.00	-	224.15	100	15	£189.96	£158.31
72T 10-21	72	229.18	-	227.30	100	15	£194.53	£160.11
73T 10-21	73	232.37	-	230.50	100	15	£196.67	£162.77
74T 10-21	74	235.55	-	233.70	100	15	£200.29	£169.29
75T 10-21	75	238.73	-	236.90	100	15	£204.76	£178.47
76T 10-21	76	241.92	-	240.05	100	15	£206.38	£179.52
77T 10-21	77	245.10	-	243.25	100	15	£217.55	£183.96
78T 10-21	78	248.48	-	246.40	100	15	£222.48	£189.03
79T 10-21	79	251.46	-	249.60	100	15	£224.40	£196.50
80T 10-21	80	254.65	-	252.80	100	15	£228.13	£206.13
81T 10-21	81	257.83	-	255.95	100	15	£233.92	£212.63
82T 10-21	82	261.01	-	259.15	100	15	£244.47	£219.50
83T 10-21	83	264.20	-	262.35	100	15	£252.47	£225.73
84T 10-21	84	267.38	-	265.50	100	15	£275.36	£230.80
140T 10-21	140	445.63	-	443.75	100	30	£440.94	£374.78

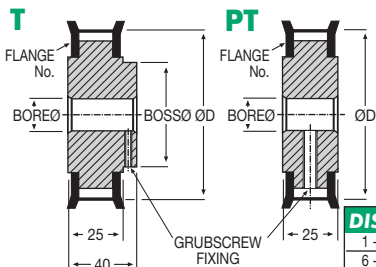
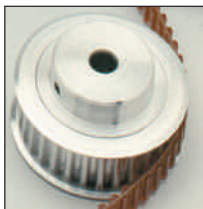


Timing Pulleys

Materials

10mm Pitch : 20mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-25	10	31.83	10L	30.00	20	8	£17.81	£15.97
11T 10-25	11	35.01	12L	33.14	20	8	£20.42	£18.61
12T 10-25	12	38.20	12L	36.35	24	8	£22.26	£18.90
13T 10-25	13	41.38	14L	39.50	30	8	£22.90	£19.96
14T 10-25	14	44.56	14L	42.70	30	8	£23.95	£20.44
15T 10-25	15	47.75	15L	45.90	35	10	£24.61	£21.42
16T 10-25	16	50.93	16L	49.05	35	10	£25.86	£21.96
17T 10-25	17	54.11	17L	52.25	40	10	£26.57	£22.96
18T 10-25	18	57.30	14H	55.45	40	10	£28.70	£24.93
19T 10-25	19	60.48	15H	58.60	40	10	£30.01	£26.87
20T 10-25	20	63.66	16H	61.80	40	10	£31.17	£28.14
21T 10-25	21	66.85	17H	65.00	40	12	£32.58	£29.82
22T 10-25	22	70.03	17H	68.15	50	12	£34.88	£30.79
23T 10-25	23	73.21	18H	71.35	50	12	£36.59	£32.14
24T 10-25	24	76.39	18H	74.55	50	12	£38.54	£32.78
25T 10-25	25	79.58	19H	77.70	50	12	£40.95	£35.53
26T 10-25	26	82.76	21H	80.90	50	12	£42.25	£36.27
27T 10-25	27	85.94	21H	84.10	50	12	£44.05	£37.73
28T 10-25	28	89.13	22H	87.25	50	12	£45.18	£38.99
29T 10-25	29	92.31	23H	90.45	50	12	£45.95	£39.56
30T 10-25	30	95.49	23H	93.65	50	12	£47.09	£40.73
31T 10-25	31	98.68	24H	96.80	50	12	£48.48	£41.71
32T 10-25	32	101.86	25H	100.00	60	12	£51.04	£43.71
33T 10-25	33	105.04	26H	103.20	60	12	£54.12	£46.66
34T 10-25	34	108.23	26H	106.40	60	12	£55.75	£47.53
35T 10-25	35	111.41	27H	109.55	60	12	£57.09	£49.24
36T 10-25	36	114.59	28H	112.75	60	12	£58.30	£50.11

Pulleys & Belts PITCH 10mm

12.36



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-25	37	117.77	30H	115.90	60	15	£64.84	£54.28
38T 10-25	38	120.96	30H	119.10	60	15	£67.53	£54.91
39T 10-25	39	124.14	31H	122.30	60	15	£68.64	£56.25
40T 10-25	40	127.32	31H	125.45	75	15	£69.57	£56.84
41T 10-25	41	130.51	32H	128.65	75	15	£71.30	£59.06
42T 10-25	42	133.69	33H	131.85	75	15	£72.99	£61.18
43T 10-25	43	136.87	34H	135.00	75	15	£77.25	£63.80
44T 10-25	44	140.06	36H	138.20	75	15	£78.34	£64.84
45T 10-25	45	143.24	36H	141.40	75	15	£80.38	£65.69
46T 10-25	46	146.42	36H	144.55	75	15	£80.98	£66.56
47T 10-25	47	149.61	38H	147.75	75	15	£88.69	£73.56
48T 10-25	48	152.79	38H	150.95	75	15	£94.27	£80.60
49T 10-25	49	155.97	40H	154.10	75	15	£100.12	£83.44
50T 10-25	50	159.15	40H	157.30	75	15	£104.71	£87.56
51T 10-25	51	162.34	40H	160.50	100	15	£110.53	£92.09
52T 10-25	52	165.52	42H	163.65	100	15	£121.25	£99.75
53T 10-25	53	168.70	42H	166.85	100	15	£122.93	£102.90
54T 10-25	54	171.89	42H	170.05	100	15	£124.68	£105.39
55T 10-25	55	175.07	44H	173.20	100	15	£128.93	£107.63
56T 10-25	56	178.25	44H	176.40	100	15	£130.48	£108.75
57T 10-25	57	181.44	46H	179.60	100	15	£133.49	£111.36
58T 10-25	58	184.62	46H	182.75	100	15	£138.81	£117.08
59T 10-25	59	187.80	48H	185.95	100	15	£144.77	£120.62
60T 10-25	60	190.99	48H	189.10	100	15	£149.49	£123.79
61T 10-25	61	194.17	48H	192.30	100	15	£151.42	£129.50
62T 10-25	62	197.35	48H	195.50	100	15	£154.95	£132.58
63T 10-25	63	200.54	-	198.65	100	15	£159.81	£134.66
64T 10-25	64	203.72	-	201.85	100	15	£168.68	£140.57
65T 10-25	65	206.90	-	205.05	100	15	£180.03	£149.97
66T 10-25	66	210.08	-	208.20	100	15	£181.77	£150.21
67T 10-25	67	213.27	-	211.40	100	15	£183.17	£152.36
68T 10-25	68	216.45	-	214.60	100	15	£186.69	£155.54
69T 10-25	69	219.63	-	217.75	100	15	£188.12	£159.19
70T 10-25	70	222.82	-	220.95	100	15	£191.13	£162.34
71T 10-25	71	226.00	-	224.15	100	15	£199.49	£166.24
72T 10-25	72	229.18	-	227.30	100	15	£204.26	£168.13
73T 10-25	73	232.37	-	230.50	100	15	£206.53	£170.95
74T 10-25	74	235.55	-	233.70	100	15	£210.30	£177.79
75T 10-25	75	238.73	-	236.90	100	15	£215.01	£187.41
76T 10-25	76	241.92	-	240.05	100	15	£216.69	£188.50
77T 10-25	77	245.10	-	243.25	100	15	£228.44	£193.20
78T 10-25	78	248.48	-	246.40	100	15	£233.60	£198.51
79T 10-25	79	251.46	-	249.60	100	15	£235.62	£206.33
80T 10-25	80	254.65	-	252.80	100	15	£239.58	£216.44
81T 10-25	81	257.83	-	255.95	100	15	£245.64	£223.26
82T 10-25	82	261.01	-	259.15	100	15	£256.68	£230.48
83T 10-25	83	264.20	-	262.35	100	15	£265.10	£237.03
84T 10-25	84	267.38	-	265.50	100	15	£289.16	£242.37
140T 10-25	140	445.63	-	443.75	100	30	£463.01	£393.51

Pulleys & Belts
PITCH 10mm

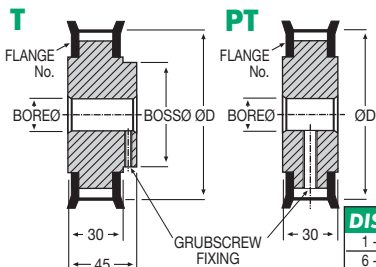


Timing Pulleys

Materials

10mm Pitch : 25mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-30	10	31.83	18XL	30.00	20	8	£23.50	£15.50
11T 10-30	11	35.01	12L	33.14	20	8	£23.56	£15.60
12T 10-30	12	38.20	12L	36.35	24	8	£23.67	£16.49
13T 10-30	13	41.38	14L	39.50	30	8	£24.51	£17.36
14T 10-30	14	44.56	14L	42.70	30	8	£26.85	£19.13
15T 10-30	15	47.75	16L	45.90	35	10	£28.42	£20.88
16T 10-30	16	50.93	16L	49.05	35	10	£29.37	£22.66
17T 10-30	17	54.11	14H	52.25	40	10	£30.84	£23.54
18T 10-30	18	57.30	14H	55.45	40	10	£31.95	£24.51
19T 10-30	19	60.48	15H	58.60	40	10	£33.09	£25.41
20T 10-30	20	63.66	16H	61.80	40	10	£34.17	£27.25
21T 10-30	21	66.85	17H	65.00	40	12	£35.82	£28.15
22T 10-30	22	70.03	17H	68.15	50	12	£38.96	£31.91
23T 10-30	23	73.21	18H	71.35	50	12	£39.94	£32.85
24T 10-30	24	76.39	19H	74.55	50	12	£40.99	£33.76
25T 10-30	25	79.58	19H	77.70	50	12	£42.86	£35.54
26T 10-30	26	82.76	21H	80.90	50	12	£44.31	£37.29
27T 10-30	27	85.94	21H	84.10	50	12	£46.51	£39.74
28T 10-30	28	89.13	22H	87.25	50	12	£47.59	£41.91
29T 10-30	29	92.31	23H	90.45	50	12	£48.76	£43.05
30T 10-30	30	95.49	23H	93.65	50	12	£51.62	£45.45
31T 10-30	31	98.68	24H	96.80	50	12	£53.05	£48.55
32T 10-30	32	101.86	25H	100.00	60	12	£54.78	£49.44
33T 10-30	33	105.04	26H	103.20	60	12	£56.15	£50.29
34T 10-30	34	108.23	26H	106.40	60	12	£57.66	£51.73
35T 10-30	35	111.41	27H	109.55	60	12	£58.63	£52.40
36T 10-30	36	114.59	28H	112.75	60	12	£59.77	£53.12

Pulleys & Belts PITCH 10mm

12.38



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-30	37	117.77	30H	115.90	60	15	£60.52	£53.75
38T 10-30	38	120.96	30H	119.10	60	15	£61.58	£55.52
39T 10-30	39	124.14	31H	122.30	60	15	£63.94	£56.67
40T 10-30	40	127.32	31H	125.45	75	15	£65.66	£57.78
41T 10-30	41	130.51	32H	128.65	75	15	£68.54	£59.46
42T 10-30	42	133.69	33H	131.85	75	15	£69.72	£61.07
43T 10-30	43	136.87	34H	135.00	75	15	£70.86	£62.76
44T 10-30	44	140.06	36H	138.20	75	15	£71.97	£63.55
45T 10-30	45	143.24	36H	141.40	75	15	£72.49	£67.73
46T 10-30	46	146.42	36H	144.55	75	15	£79.80	£67.74
47T 10-30	47	149.61	37H	147.75	75	15	£82.19	£69.02
48T 10-30	48	152.79	38H	150.95	75	15	£83.39	£69.72
49T 10-30	49	155.97	40H	154.10	75	15	£85.37	£71.12
50T 10-30	50	159.15	40H	157.30	75	15	£92.37	£80.14
51T 10-30	51	162.34	40H	160.50	100	15	£97.35	£84.92
52T 10-30	52	165.52	42H	163.65	100	15	£104.76	£98.88
53T 10-30	53	168.70	42H	166.85	100	15	£113.40	£105.63
54T 10-30	54	171.89	42H	170.05	100	15	£129.50	£109.11
55T 10-30	55	175.07	44H	173.20	100	15	£130.61	£112.56
56T 10-30	56	178.25	44H	176.40	100	15	£138.13	£113.79
57T 10-30	57	181.44	46H	179.60	100	15	£142.63	£119.27
58T 10-30	58	184.62	46H	182.75	100	15	£152.14	£126.81
59T 10-30	59	187.80	48H	185.95	100	15	£161.41	£134.52
60T 10-30	60	190.99	48H	189.10	100	15	£172.11	£144.94
61T 10-30	61	194.17	48H	192.30	100	15	£180.61	£150.49
62T 10-30	62	197.35	48H	195.50	100	15	£187.24	£156.01
63T 10-30	63	200.54	-	198.65	100	15	£188.63	£156.71
64T 10-30	64	203.72	-	201.85	100	15	£191.03	£158.86
65T 10-30	65	206.90	-	205.05	100	15	£194.05	£161.73
66T 10-30	66	210.08	-	208.20	100	15	£194.33	£162.60
67T 10-30	67	213.27	-	211.40	100	15	£194.43	£163.32
68T 10-30	68	216.45	-	214.60	100	15	£194.52	£164.16
69T 10-30	69	219.63	-	217.75	100	15	£195.76	£164.38
70T 10-30	70	222.82	-	220.95	100	15	£197.75	£164.77
71T 10-30	71	226.00	-	224.15	100	15	£202.52	£169.90
72T 10-30	72	229.18	-	227.30	100	15	£214.50	£175.03
73T 10-30	73	232.37	-	230.50	100	15	£216.31	£180.27
74T 10-30	74	235.55	-	233.70	100	15	£217.55	£183.00
75T 10-30	75	238.73	-	236.90	100	15	£222.48	£185.74
76T 10-30	76	241.92	-	240.05	100	15	£224.40	£188.49
77T 10-30	77	245.10	-	243.25	100	15	£226.89	£191.29
78T 10-30	78	248.48	-	246.40	100	15	£232.89	£194.05
79T 10-30	79	251.46	-	249.60	100	15	£244.14	£206.13
80T 10-30	80	254.65	-	252.80	100	15	£252.47	£218.17
81T 10-30	81	257.83	-	255.95	100	15	£276.32	£230.25
82T 10-30	82	261.01	-	259.15	100	15	£279.78	£236.79
83T 10-30	83	264.20	-	262.35	100	15	£281.82	£243.22
84T 10-30	84	267.38	-	265.50	100	15	£293.46	£249.76
140T 10-30	140	445.63	-	443.75	100	30	£462.99	£393.51

Pulleys & Belts
PITCH 10mm

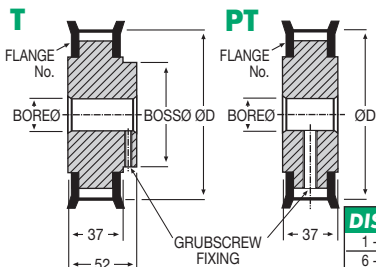
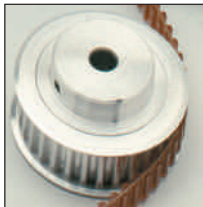


Timing Pulleys

Materials

10mm Pitch : 32mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-37	10	31.83	10L	30.00	20	8	£28.89	£19.06
11T 10-37	11	35.01	12L	33.14	20	8	£28.97	£19.50
12T 10-37	12	38.20	12L	36.35	24	8	£29.05	£20.81
13T 10-37	13	41.38	14L	39.50	30	8	£29.10	£21.07
14T 10-37	14	44.56	14L	42.70	30	8	£29.13	£21.27
15T 10-37	15	47.75	15L	45.90	35	10	£30.17	£24.51
16T 10-37	16	50.93	16L	49.05	35	10	£31.99	£28.79
17T 10-37	17	54.11	17L	52.25	40	10	£33.88	£32.30
18T 10-37	18	57.30	14H	55.45	40	10	£35.70	£33.19
19T 10-37	19	60.48	15H	58.60	40	10	£37.79	£33.82
20T 10-37	20	63.66	16H	61.80	40	10	£39.20	£36.25
21T 10-37	21	66.85	18H	65.00	40	12	£40.27	£37.42
22T 10-37	22	70.03	17H	68.15	50	12	£41.88	£38.58
23T 10-37	23	73.21	18H	71.35	50	12	£43.05	£39.69
24T 10-37	24	76.39	18H	74.55	50	12	£44.95	£40.78
25T 10-37	25	79.58	19H	77.70	50	12	£45.78	£41.91
26T 10-37	26	82.76	21H	80.90	50	12	£48.46	£44.15
27T 10-37	27	85.94	21H	84.10	50	12	£52.12	£46.30
28T 10-37	28	89.13	22H	87.25	50	12	£53.42	£48.97
29T 10-37	29	92.31	23H	90.45	50	12	£54.92	£51.62
30T 10-37	30	95.49	23H	93.65	50	12	£57.13	£50.49
31T 10-37	31	98.68	24H	96.80	50	12	£59.23	£53.19
32T 10-37	32	101.86	25H	100.00	60	12	£61.73	£57.02
33T 10-37	33	105.04	26H	103.20	60	12	£65.66	£57.84
34T 10-37	34	108.23	26H	106.40	60	12	£68.51	£60.13
35T 10-37	35	111.41	27H	109.55	60	12	£70.82	£62.44
36T 10-37	36	114.59	28H	112.75	60	12	£75.28	£67.08

Pulleys & Belts PITCH 10mm

12.40



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-37	37	117.77	30H	115.90	60	15	£76.93	£72.67
38T 10-37	38	120.96	30H	119.10	60	15	£78.74	£75.42
39T 10-37	39	124.14	31H	122.30	60	15	£79.82	£76.84
40T 10-37	40	127.32	31H	125.45	75	15	£80.51	£78.16
41T 10-37	41	130.51	32H	128.65	75	15	£81.58	£79.54
42T 10-37	42	133.69	33H	131.85	75	15	£83.58	£80.94
43T 10-37	43	136.87	34H	135.00	75	15	£91.13	£82.32
44T 10-37	44	140.06	36H	138.20	75	15	£102.27	£86.95
45T 10-37	45	143.24	36H	141.40	75	15	£119.96	£91.59
46T 10-37	46	146.42	36H	144.55	75	15	£121.01	£92.99
47T 10-37	47	149.61	38H	147.75	75	15	£121.96	£94.35
48T 10-37	48	152.79	38H	150.95	75	15	£123.32	£95.74
49T 10-37	49	155.97	40H	154.10	75	15	£128.93	£98.52
50T 10-37	50	159.15	40H	157.30	75	15	£130.72	£105.97
51T 10-37	51	162.34	40H	160.50	100	15	£141.59	£117.09
52T 10-37	52	165.52	42H	163.65	100	15	£142.95	£124.98
53T 10-37	53	168.70	42H	166.85	100	15	£148.55	£126.07
54T 10-37	54	171.89	42H	170.05	100	15	£156.76	£126.11
55T 10-37	55	175.07	44H	173.20	100	15	£161.24	£127.47
56T 10-37	56	178.25	44H	176.40	100	15	£161.93	£129.04
57T 10-37	57	181.44	46H	179.60	100	15	£165.69	£132.27
58T 10-37	58	184.62	46H	182.75	100	15	£169.52	£132.34
59T 10-37	59	187.80	48H	185.95	100	15	£174.08	£132.49
60T 10-37	60	190.99	48H	189.10	100	15	£180.67	£143.82
61T 10-37	61	194.17	48H	192.30	100	15	£185.48	£151.95
62T 10-37	62	197.35	48H	195.50	100	15	£190.29	£156.76
63T 10-37	63	200.54	-	198.65	100	15	£194.58	£162.16
64T 10-37	64	203.72	-	201.85	100	15	£195.64	£163.01
65T 10-37	65	206.90	-	205.05	100	15	£199.10	£166.90
66T 10-37	66	210.08	-	208.20	100	15	£207.51	£170.74
67T 10-37	67	213.27	-	211.40	100	15	£209.53	£174.60
68T 10-37	68	216.45	-	214.60	100	15	£218.84	£181.30
69T 10-37	69	219.63	-	217.75	100	15	£228.12	£187.98
70T 10-37	70	222.82	-	220.95	100	15	£233.66	£194.70
71T 10-37	71	226.00	-	224.15	100	15	£245.60	£199.66
72T 10-37	72	229.18	-	227.30	100	15	£247.21	£204.65
73T 10-37	73	232.37	-	230.50	100	15	£250.15	£209.68
74T 10-37	74	235.55	-	233.70	100	15	£253.05	£213.98
75T 10-37	75	238.73	-	236.90	100	15	£261.97	£218.33
76T 10-37	76	241.92	-	240.05	100	15	£267.18	£222.62
77T 10-37	77	245.10	-	243.25	100	15	£274.60	£228.29
78T 10-37	78	248.48	-	246.40	100	15	£280.78	£233.92
79T 10-37	79	251.46	-	249.60	100	15	£292.56	£240.45
80T 10-37	80	254.65	-	252.80	100	15	£296.31	£246.93
81T 10-37	81	257.83	-	255.95	100	15	£304.98	£255.08
82T 10-37	82	261.01	-	259.15	100	15	£315.50	£263.26
83T 10-37	83	264.20	-	262.35	100	15	£323.62	£271.41
84T 10-37	84	267.38	-	265.50	100	15	£337.93	£279.61
140T 10-37	140	445.63	-	443.75	100	30	£486.13	£413.19

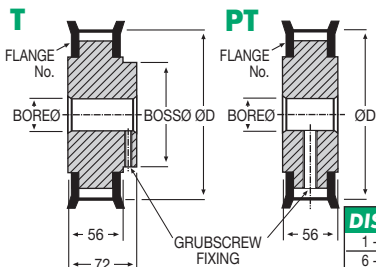
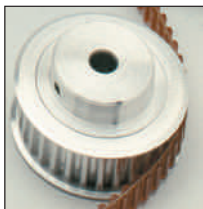


Timing Pulleys

Materials

10mm Pitch : 50mm Wide Belt

STD : Mild Steel with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 85 - 140**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
10T 10-56	10	31.83	10L	30.00	20	8	£39.65	£25.59
11T 10-56	11	35.01	12L	33.14	20	8	£39.72	£26.67
12T 10-56	12	38.20	12L	36.35	24	8	£39.74	£28.13
13T 10-56	13	41.38	14L	39.50	30	8	£39.79	£28.14
14T 10-56	14	44.56	14L	42.70	30	8	£39.92	£30.91
15T 10-56	15	47.75	15L	45.90	35	10	£39.95	£32.03
16T 10-56	16	50.93	16L	49.05	35	10	£39.98	£35.06
17T 10-56	17	54.11	17L	52.25	40	10	£40.04	£35.19
18T 10-56	18	57.30	14H	55.45	40	10	£40.06	£35.30
19T 10-56	19	60.48	15H	58.60	40	10	£41.30	£36.81
20T 10-56	20	63.66	16H	61.80	40	10	£43.98	£39.42
21T 10-56	21	66.85	17H	65.00	40	10	£48.13	£42.91
22T 10-56	22	70.03	17H	68.15	50	12	£52.51	£45.60
23T 10-56	23	73.21	18H	71.35	50	12	£55.29	£49.19
24T 10-56	24	76.39	18H	74.55	50	12	£59.34	£53.12
25T 10-56	25	79.58	19H	77.70	50	12	£61.87	£54.83
26T 10-56	26	82.76	21H	80.90	50	12	£64.47	£56.99
27T 10-56	27	85.94	21H	84.10	50	12	£66.93	£57.19
28T 10-56	28	89.13	22H	87.25	50	12	£67.82	£57.28
29T 10-56	29	92.31	23H	90.45	50	12	£70.69	£59.64
30T 10-56	30	95.49	23H	93.65	50	12	£73.16	£64.06
31T 10-56	31	98.68	24H	96.80	50	12	£76.42	£67.80
32T 10-56	32	101.86	25H	100.00	60	12	£77.93	£69.03
33T 10-56	33	105.04	26H	103.20	60	12	£79.49	£70.38
34T 10-56	34	108.23	26H	106.40	60	12	£81.06	£71.87
35T 10-56	35	111.41	27H	109.55	60	12	£83.34	£74.22
36T 10-56	36	114.59	28H	112.75	60	12	£86.02	£75.61

Pulleys & Belts PITCH 10mm

12.42



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
37T 10-56	37	117.77	30H	115.90	60	15	£89.80	£78.16
38T 10-56	38	120.96	30H	119.10	60	15	£93.15	£80.77
39T 10-56	39	124.14	31H	122.30	60	15	£94.28	£81.46
40T 10-56	40	127.32	31H	125.45	75	15	£98.24	£84.51
41T 10-56	41	130.51	32H	128.65	75	15	£100.01	£86.02
42T 10-56	42	133.69	33H	131.85	75	15	£106.53	£90.47
43T 10-56	43	136.87	34H	135.00	75	15	£112.75	£95.04
44T 10-56	44	140.06	36H	138.20	75	15	£115.53	£96.95
45T 10-56	45	143.24	36H	141.40	75	15	£126.65	£100.75
46T 10-56	46	146.42	36H	144.55	75	15	£128.98	£104.18
47T 10-56	47	149.61	38H	147.75	75	15	£138.58	£108.47
48T 10-56	48	152.79	38H	150.95	75	15	£143.79	£113.62
49T 10-56	49	155.97	40H	154.10	75	15	£154.56	£120.92
50T 10-56	50	159.15	40H	157.30	75	15	£157.06	£121.86
51T 10-56	51	162.34	40H	160.50	100	15	£159.46	£124.23
52T 10-56	52	165.52	42H	163.65	100	15	£168.40	£126.64
53T 10-56	53	168.70	42H	166.85	100	15	£171.17	£126.81
54T 10-56	54	171.89	42H	170.05	100	15	£176.16	£129.50
55T 10-56	55	175.07	44H	173.20	100	15	£180.58	£130.91
56T 10-56	56	178.25	44H	176.40	100	15	£196.96	£136.15
57T 10-56	57	181.44	46H	179.60	100	15	£200.30	£138.03
58T 10-56	58	184.62	46H	182.75	100	15	£202.56	£141.78
59T 10-56	59	187.80	48H	185.95	100	15	£205.44	£148.55
60T 10-56	60	190.99	48H	189.10	100	15	£208.14	£152.83
61T 10-56	61	194.17	48H	192.30	100	15	£209.38	£158.09
62T 10-56	62	197.35	48H	195.50	100	15	£211.77	£164.51
63T 10-56	63	200.54	-	198.65	100	15	£212.49	£167.63
64T 10-56	64	203.72	-	201.85	100	15	£214.17	£171.86
65T 10-56	65	206.90	-	205.05	100	15	£218.23	£178.12
66T 10-56	66	210.08	-	208.20	100	15	£223.74	£185.28
67T 10-56	67	213.27	-	211.40	100	15	£227.25	£191.03
68T 10-56	68	216.45	-	214.60	100	15	£232.92	£193.20
69T 10-56	69	219.63	-	217.75	100	15	£237.30	£197.54
70T 10-56	70	222.82	-	220.95	100	15	£241.20	£200.95
71T 10-56	71	226.00	-	224.15	100	15	£251.08	£209.21
72T 10-56	72	229.18	-	227.30	100	15	£272.64	£227.25
73T 10-56	73	232.37	-	230.50	100	15	£278.24	£232.51
74T 10-56	74	235.55	-	233.70	100	15	£293.36	£241.81
75T 10-56	75	238.73	-	236.90	100	15	£295.36	£246.11
76T 10-56	76	241.92	-	240.05	100	15	£299.21	£249.32
77T 10-56	77	245.10	-	243.25	100	15	£308.53	£259.50
78T 10-56	78	248.28	-	246.40	100	15	£316.13	£261.22
79T 10-56	79	251.46	-	249.60	100	15	£321.84	£291.81
80T 10-56	80	254.65	-	252.80	100	15	£386.78	£322.25
81T 10-56	81	257.83	-	255.95	100	15	£387.04	£326.73
82T 10-56	82	261.01	-	259.15	100	15	£396.42	£331.09
83T 10-56	83	264.20	-	262.35	100	15	£401.98	£334.56
84T 10-56	84	267.38	-	265.50	100	15	£416.34	£338.00
140T 10-56	140	445.63	-	443.75	100	30	£568.06	£482.86

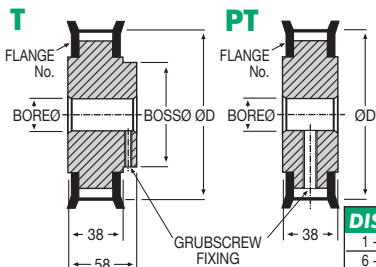


Timing Pulleys

Materials

20mm Pitch : 32mm Wide Belt

STD : Mild Steel (En202)
with Steel Flanges



DISCOUNTS	
Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **over 45**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
21T 20-38	21	133.71	33H	130.85	75	15	£89.20	£75.75
22T 20-38	22	140.06	36H	137.20	75	15	£92.85	£77.89
23T 20-38	23	146.41	36H	143.55	75	15	£103.68	£83.78
24T 20-38	24	152.81	38H	149.95	75	15	£115.56	£91.32
25T 20-38	25	159.16	40H	156.30	75	15	£120.99	£93.82
26T 20-38	26	165.51	42H	162.65	100	20	£122.82	£95.68
27T 20-38	27	171.91	42H	169.05	100	20	£135.67	£99.74
28T 20-38	28	178.26	44H	175.40	100	20	£151.70	£104.83
29T 20-38	29	184.61	46H	181.75	100	20	£156.04	£109.18
30T 20-38	30	191.01	48H	188.15	100	20	£160.36	£117.73
31T 20-38	31	197.36	48H	194.50	100	20	£163.13	£126.67
32T 20-38	32	203.71	-	200.85	100	20	£164.97	£132.34
33T 20-38	33	210.11	-	207.25	100	20	£165.83	£142.67
34T 20-38	34	216.45	-	213.59	125	25	£167.49	£143.27
35T 20-38	35	222.81	-	219.95	125	25	£169.14	£145.46
36T 20-38	36	229.18	-	226.32	125	25	£170.81	£146.86
37T 20-38	37	235.54	-	232.69	125	25	£172.47	£148.32
38T 20-38	38	241.91	-	239.05	125	25	£175.79	£151.18
39T 20-38	39	248.28	-	245.42	125	25	£179.09	£153.99
40T 20-38	40	254.64	-	251.78	125	25	£180.76	£155.45
41T 20-38	41	261.01	-	258.15	125	25	£182.45	£156.90
42T 20-38	42	267.38	-	264.52	125	25	£185.74	£159.74
43T 20-38	43	273.74	-	270.88	125	25	£187.40	£161.16
44T 20-38	44	280.11	-	277.25	125	25	£189.06	£162.55
45T 20-38	45	286.47	-	283.61	125	25	£190.74	£163.98

Pulleys & Belts PITCH 20mm

12.44



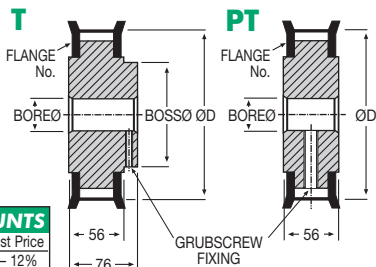
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Mild Steel (En202)
with Steel Flanges

Timing Pulleys

20mm Pitch : 50mm Wide Belt



DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : over 45

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
21T 20-56	21	133.71	33H	130.85	75	15	£111.51	£94.69
22T 20-56	22	140.06	36H	137.20	75	15	£116.13	£97.39
23T 20-56	23	146.41	36H	143.55	75	15	£129.64	£104.70
24T 20-56	24	152.81	38H	149.95	75	15	£144.53	£114.20
25T 20-56	25	159.16	40H	156.30	75	15	£151.25	£117.32
26T 20-56	26	165.51	42H	162.65	100	20	£153.54	£119.67
27T 20-56	27	171.91	42H	169.05	100	20	£169.61	£124.69
28T 20-56	28	178.26	44H	175.40	100	20	£189.64	£131.11
29T 20-56	29	184.61	46H	181.75	100	20	£195.06	£136.52
30T 20-56	30	191.01	48H	188.15	100	20	£200.42	£147.20
31T 20-56	31	197.36	48H	194.50	100	20	£203.97	£158.45
32T 20-56	32	203.71	-	200.85	100	20	£206.25	£165.51
33T 20-56	33	210.11	-	207.25	100	20	£207.31	£178.40
34T 20-56	34	216.45	-	213.59	125	25	£209.40	£179.09
35T 20-56	35	222.81	-	219.95	125	25	£211.46	£181.86
36T 20-56	36	229.18	-	226.32	125	25	£213.54	£183.61
37T 20-56	37	235.54	-	232.69	125	25	£215.61	£185.39
38T 20-56	38	241.91	-	239.05	125	25	£219.77	£188.97
39T 20-56	39	248.28	-	245.42	125	25	£223.87	£192.57
40T 20-56	40	254.64	-	251.78	125	25	£225.98	£194.33
41T 20-56	41	261.01	-	258.15	125	25	£228.09	£196.13
42T 20-56	42	267.38	-	264.52	125	25	£232.22	£199.68
43T 20-56	43	273.74	-	270.88	125	25	£234.28	£201.47
44T 20-56	44	280.11	-	277.25	125	25	£236.37	£203.24
45T 20-56	45	286.47	-	283.61	125	25	£238.45	£205.00

Pulleys & Belts
PITCH 20mm

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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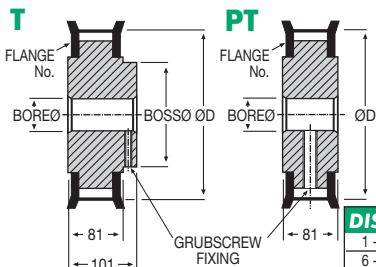
12.45

Timing Pulleys

Materials

20mm Pitch : 75mm Wide Belt

STD : Mild Steel (En202)
with Steel Flanges



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **over 45**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
21T 20-81	21	133.71	33H	130.85	75	15	£133.84	£113.63
22T 20-81	22	140.06	36H	137.20	75	15	£139.33	£116.89
23T 20-81	23	146.41	36H	143.55	75	15	£155.58	£125.66
24T 20-81	24	152.81	38H	149.95	75	15	£173.36	£137.01
25T 20-81	25	159.16	40H	156.30	75	15	£181.51	£140.80
26T 20-81	26	165.51	42H	162.65	100	20	£184.27	£143.58
27T 20-81	27	171.91	42H	169.05	100	20	£203.54	£149.70
28T 20-81	28	178.26	44H	175.40	100	20	£227.62	£157.34
29T 20-81	29	184.61	46H	181.75	100	20	£234.12	£163.82
30T 20-81	30	191.01	48H	188.15	100	20	£240.52	£176.65
31T 20-81	31	197.36	48H	194.50	100	20	£244.74	£190.09
32T 20-81	32	203.71	-	200.85	100	20	£247.53	£198.61
33T 20-81	33	210.11	-	207.25	100	20	£248.78	£214.11
34T 20-81	34	216.45	-	213.59	125	25	£251.32	£214.92
35T 20-81	35	222.81	-	219.95	125	25	£253.76	£218.26
36T 20-81	36	229.18	-	226.32	125	25	£256.30	£220.35
37T 20-81	37	235.54	-	232.69	125	25	£258.76	£222.52
38T 20-81	38	241.91	-	239.05	125	25	£263.72	£226.79
39T 20-81	39	248.28	-	245.42	125	25	£268.67	£231.04
40T 20-81	40	254.64	-	251.78	125	25	£271.21	£233.22
41T 20-81	41	261.01	-	258.15	125	25	£273.73	£235.36
42T 20-81	42	267.38	-	264.52	125	25	£278.67	£239.61
43T 20-81	43	273.74	-	270.88	125	25	£281.13	£241.76
44T 20-81	44	280.11	-	277.25	125	25	£283.67	£243.86
45T 20-81	45	286.47	-	283.61	125	25	£286.10	£246.04

PITCH 20mm
Pulleys & Belts

12.46



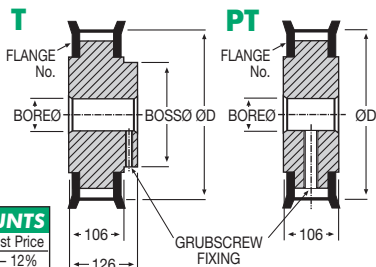
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Mild Steel (En202)
with Steel Flanges

Timing Pulleys

20mm Pitch : 100mm Wide Belt



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : over 45

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							T	PT
21T 20-106	21	133.71	33H	130.85	75	15	£178.47	£150.68
22T 20-106	22	140.06	36H	137.20	75	15	£185.84	£155.87
23T 20-106	23	146.41	36H	143.55	75	15	£207.50	£167.58
24T 20-106	24	152.81	38H	149.95	75	15	£231.21	£182.73
25T 20-106	25	159.16	40H	156.30	75	15	£242.09	£187.74
26T 20-106	26	165.51	42H	162.65	100	20	£245.77	£191.50
27T 20-106	27	171.91	42H	169.05	100	20	£271.42	£199.59
28T 20-106	28	178.26	44H	175.40	100	20	£303.49	£209.81
29T 20-106	29	184.61	46H	181.75	100	20	£312.20	£218.46
30T 20-106	30	191.01	48H	188.15	100	20	£320.76	£235.56
31T 20-106	31	197.36	48H	194.50	100	20	£326.36	£253.48
32T 20-106	32	203.71	-	200.85	100	20	£330.04	£264.85
33T 20-106	33	210.11	-	207.25	100	20	£331.77	£285.51
34T 20-106	34	216.45	-	213.59	125	25	£335.09	£286.61
35T 20-106	35	222.81	-	219.95	125	25	£338.36	£290.99
36T 20-106	36	229.18	-	226.32	125	25	£341.72	£293.89
37T 20-106	37	235.54	-	232.69	125	25	£345.43	£296.69
38T 20-106	38	241.91	-	239.05	125	25	£351.72	£302.42
39T 20-106	39	248.28	-	245.42	125	25	£358.32	£308.10
40T 20-106	40	254.64	-	251.78	125	25	£361.66	£310.98
41T 20-106	41	261.01	-	258.15	125	25	£365.00	£313.87
42T 20-106	42	267.38	-	264.52	125	25	£371.63	£319.56
43T 20-106	43	273.74	-	270.88	125	25	£374.91	£322.42
44T 20-106	44	280.11	-	277.25	125	25	£378.23	£325.22
45T 20-106	45	286.47	-	283.61	125	25	£381.57	£328.10

Pulleys & Belts
PITCH 20mm

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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12.47

Timing Pulleys

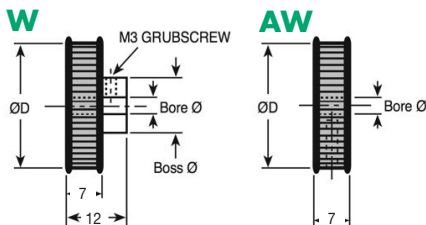
Materials

0.08" Pitch : 3.175mm Wide Belt

STD : Aluminium
with Aluminium Flanges



To suit MXL & MP Belts



SPECIAL TEETH : **between 12 - 290**

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FLANGED WHERE PART NUMBER IS FOLLOWED BY 'F'

PART NUMBER	Teeth	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	W	A-W
12WF125 A12WF125	12	12 WX,WY	7.26	11	4	£9.03	£7.66	
14WF125 A14WF125	14	12 WX,WY	8.56	11	4	£9.82	£8.46	
15WF125 A15WF125	15	15 WX,WY	9.19	13	4	£10.59	£9.31	
16WF125 A16WF125	16	15 WX,WY	9.83	13	4	£11.34	£10.12	
18WF125 A18WF125	18	15 WX,WY	11.13	13	4	£12.07	£10.87	
20WF125 A20WF125	20	20 WX,WY	12.42	17	4	£12.68	£11.56	
22WF125 A22WF125	22	20 WX,WY	13.72	17	4	£13.31	£12.16	
24WF125 A24WF125	24	22 WX,WY	15.01	20	4	£13.94	£12.85	
25WF125 A25WF125	25	22 WX,WY	15.66	20	4	£14.63	£13.41	
26WF125 A26WF125	26	26 WX,WY	16.30	21	5	£15.49	£14.27	
28WF125 A28WF125	28	26 WX,WY	17.60	21	5	£16.44	£15.11	
30WF125 A30WF125	30	30 WX	18.89	15	5	£17.34	£15.94	
32WF125 A32WF125	32	30 WX	20.19	15	5	£18.30	£16.77	
36WF125 A36WF125	36	40 WX	22.78	16	5	£19.44	£17.38	
40WF125 A40WF125	40	40 WX	25.36	16	5	£20.61	£18.12	
48WF125 A48WF125	48	48 WX	30.53	16	5	£21.73	£18.78	
60W125 A60W125	60	-	38.30	20	6	£22.93	£19.42	
72W125 A72W125	72	-	46.06	20	6	£24.26	£19.89	
80W125 A80W125	80	-	51.23	20	6	£25.66	£20.32	
100W125 A100W125	100	-	64.17	20	6	£27.02	£20.70	
120W125 A120W125	120	-	77.11	20	6	£29.60	£22.66	
156W125 A156W125	156	-	100.39	20	6	£31.73	£24.86	

Pulleys & Belts PITCH 0.08"

12.48



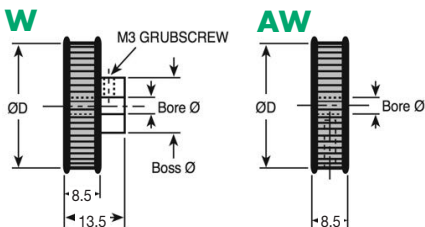
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Aluminium
with Aluminium Flanges

Timing Pulleys

0.08" Pitch : 4.762mm Wide Belt



To suit MXL & MP Belts

SPECIAL TEETH : between 12 - 290

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FLANGED WHERE PART NUMBER
IS FOLLOWED BY 'F'

PART NUMBER	Teeth	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH		
						1-5 W	A-W	
12WF187	A12WF187	12	12 WX,WY	7.26	11	4	£9.22	£7.80
14WF187	A14WF187	14	12 WX,WY	8.56	11	4	£10.01	£8.63
15WF187	A15WF187	15	15 WX,WY	9.19	13	4	£10.81	£9.51
16WF187	A16WF187	16	15 WX,WY	9.83	13	4	£11.59	£10.35
18WF187	A18WF187	18	15 WX,WY	11.13	13	4	£12.33	£11.11
20WF187	A20WF187	20	20 WX,WY	12.42	17	4	£12.95	£11.81
22WF187	A22WF187	22	20 WX,WY	13.72	17	4	£13.59	£12.43
24WF187	A24WF187	24	22 WX,WY	15.01	20	4	£14.20	£13.12
25WF187	A25WF187	25	22 WX,WY	15.66	20	4	£14.90	£13.70
26WF187	A26WF187	26	26 WX,WY	16.30	21	5	£15.83	£14.61
28WF187	A28WF187	28	26 WX,WY	17.60	21	5	£16.77	£15.42
30WF187	A30WF187	30	30 WX	18.89	15	5	£17.73	£16.25
32WF187	A32WF187	32	30 WX	20.19	15	5	£18.69	£17.09
36WF187	A36WF187	36	40 WX	22.78	16	5	£19.89	£17.78
40WF187	A40WF187	40	40 WX	25.36	16	5	£21.01	£18.49
48WF187	A48WF187	48	48 WX	30.53	16	5	£22.21	£19.16
60W187	A60W187	60	-	38.30	20	6	£23.43	£19.89
72W187	A72W187	72	-	46.06	20	6	£24.78	£20.31
80W187	A80W187	80	-	51.23	20	6	£26.20	£20.70
100W187	A100W187	100	-	64.17	20	6	£27.60	£21.17
120W187	A120W187	120	-	77.11	20	6	£30.20	£23.09
156W187	A156W187	156	-	100.39	20	6	£32.38	£25.40

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12.49

Pulleys & Belts
PITCH 0.08"

Timing Pulleys

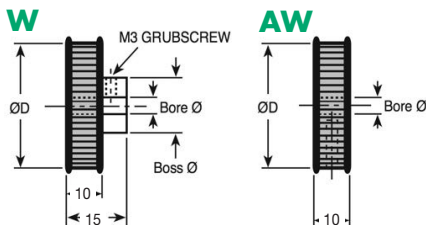
Materials

0.08" Pitch : 6.35mm Wide Belt

STD : Aluminium
with Aluminium Flanges



To suit MXL & MP Belts



SPECIAL TEETH : **between 12 - 290**

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FLANGED WHERE PART NUMBER IS FOLLOWED BY 'F'

PART NUMBER	Teeth	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	W	A-W
12WF A12W	12	12 WX,WY	7.26	11	4	£9.53	£8.07	
14WF A14W	14	12 WX,WY	8.56	11	4	£10.32	£8.91	
15WF A15W	15	15 WX,WY	9.19	13	4	£11.19	£9.82	
16WF A16W	16	15 WX,WY	9.83	13	4	£11.96	£10.70	
18WF A18W	18	15 WX,WY	11.13	13	4	£12.75	£11.49	
20WF A20W	20	20 WX,WY	12.42	17	4	£13.37	£12.16	
22WF A22W	22	20 WX,WY	13.72	17	4	£14.02	£12.83	
24WF A24W	24	22 WX,WY	15.01	20	4	£14.67	£13.57	
25WF A25W	25	22 WX,WY	15.66	20	4	£15.39	£14.13	
26WF A26W	26	26 WX,WY	16.30	21	5	£16.32	£15.03	
28WF A28W	28	26 WX,WY	17.60	21	5	£17.30	£15.90	
30WF A30WF	30	30 WX	18.89	15	5	£18.25	£16.78	
32WF A32WF	32	30 WX	20.19	15	5	£19.29	£17.63	
36WF A36WF	36	40 WX	22.78	16	5	£20.50	£18.34	
40WF A40WF	40	40 WX	25.36	16	5	£21.68	£19.06	
48WF A48WF	48	48 WX	30.53	16	5	£22.90	£19.77	
60W A60W	60	-	38.30	20	6	£24.16	£20.47	
72W A72W	72	-	46.06	20	6	£25.59	£20.92	
80W A80W	80	-	51.23	20	6	£27.02	£21.38	
100W A100W	100	-	64.17	20	6	£28.43	£21.85	
120W A120W	120	-	77.11	20	6	£31.15	£23.84	
156W A156W	156	-	100.39	20	6	£33.41	£26.20	

Pulleys & Belts PITCH 0.08"

12.50



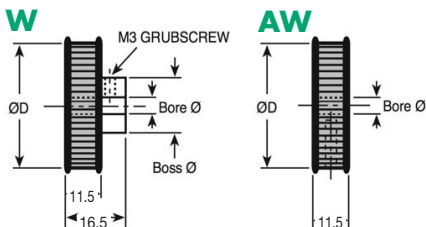
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Aluminium
with Aluminium Flanges

Timing Pulleys

0.08" Pitch : 7.937mm Wide Belt



To suit MXL & MP Belts

SPECIAL TEETH : between 12 - 290

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FLANGED WHERE PART NUMBER
IS FOLLOWED BY 'F'

PART NUMBER	Teeth	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5		
						W	A-W	
12WF312	A12WF312	12	12 WX,WY	7.26	11	4	£9.82	£8.29
14WF312	A14WF312	14	12 WX,WY	8.56	11	4	£10.65	£9.20
15WF312	A15WF312	15	15 WX,WY	9.19	13	4	£11.51	£10.09
16WF312	A16WF312	16	15 WX,WY	9.83	13	4	£12.34	£10.98
18WF312	A18WF312	18	15 WX,WY	11.13	13	4	£13.09	£11.83
20WF312	A20WF312	20	20 WX,WY	12.42	17	4	£13.75	£12.52
22WF312	A22WF312	22	20 WX,WY	13.72	17	4	£14.44	£13.25
24WF312	A24WF312	24	22 WX,WY	15.01	20	4	£15.23	£13.96
25WF312	A25WF312	25	22 WX,WY	15.66	20	4	£15.86	£14.61
26WF312	A26WF312	26	26 WX,WY	16.30	21	5	£16.81	£15.48
28WF312	A28WF312	28	26 WX,WY	17.60	21	5	£17.83	£16.42
30WF312	A30WF312	30	30 WX	18.89	15	5	£18.79	£17.29
32WF312	A32WF312	32	30 WX	20.19	15	5	£19.76	£18.17
36WF312	A36WF312	36	40 WX	22.78	16	5	£21.10	£18.87
40WF312	A40WF312	40	40 WX	25.36	16	5	£22.36	£19.64
48WF312	A48WF312	48	48 WX	30.53	16	5	£23.56	£20.37
60W312	A60W312	60	-	38.30	20	6	£24.70	£21.09
72W312	A72W312	72	-	46.06	20	6	£26.33	£21.58
80W312	A80W312	80	-	51.23	20	6	£27.86	£22.01
100W312	A100W312	100	-	64.17	20	6	£29.30	£22.48
120W312	A120W312	120	-	77.11	20	6	£32.05	£24.55
156W312	A156W312	156	-	100.39	20	6	£34.40	£26.97

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12.51

Pulleys & Belts
PITCH 0.08"

Timing Pulleys

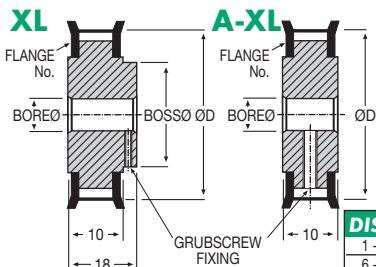
Materials

0.2" Pitch : 6.35mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



To suit XL Belts



SPECIAL TEETH : between 10 - 276
PULLEYS FLANGED WHERE SPECIFIED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 0.2"

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							XL	A-XL
10 XL 025F	10	16.17	11XL	15.67	11.10	4.75	£8.18	£6.87
11 XL 025F	11	17.79	11XL	17.29	11.10	4.75	£8.73	£7.32
12 XL 025F	12	19.40	12XL	18.90	12.70	4.75	£9.24	£7.76
13 XL 025F	13	21.02	14XL	20.52	12.70	4.75	£10.01	£8.41
14 XL 025F	14	22.64	14XL	22.14	15.88	4.75	£10.54	£8.87
15 XL 025F	15	24.26	15XL	23.76	15.88	6.35	£10.98	£9.24
16 XL 025F	16	25.87	15XL	25.37	15.88	6.35	£11.70	£9.82
17 XL 025F	17	27.49	16XL	26.99	15.88	6.35	£12.08	£10.15
18 XL 025F	18	29.11	18XL	28.61	19.05	7.92	£12.29	£10.36
20 XL 025F	20	32.34	20XL	31.84	19.05	7.92	£13.13	£10.99
21 XL 025F	21	33.96	21XL	33.45	19.05	7.92	£13.97	£11.70
22 XL 025F	22	35.57	22XL	35.07	19.05	9.53	£14.44	£12.09
24 XL 025F	24	38.81	24XL	38.31	25.40	9.53	£15.06	£12.67
25 XL 025F	25	40.43	26XL	39.93	25.40	9.53	£15.65	£13.13
26 XL 025F	26	42.04	26XL	41.54	25.40	9.53	£17.69	£14.86
28 XL 025F	28	45.28	28XL	44.78	25.40	9.53	£19.76	£16.57
30 XL 025F	30	48.51	30XL	48.01	25.40	9.53	£20.50	£17.18
32 XL 025	32	51.74	-	51.24	31.75	9.53	£20.84	£17.51
36 XL 025	36	58.21	-	57.71	31.75	9.53	£21.70	£18.23
40 XL 025	40	64.68	-	64.18	31.75	9.53	£22.29	£18.69
42 XL 025	42	67.91	-	67.41	31.75	9.53	£22.90	£19.26
44 XL 025	44	71.15	-	70.65	31.75	9.53	£23.87	£20.08
48 XL 025	48	77.62	-	77.12	31.75	9.53	£25.07	£21.07
50 XL 025	50	80.85	-	80.35	31.75	12.70	£28.23	£23.68
54 XL 025	54	87.32	-	86.82	31.75	12.70	£28.79	£24.20
60 XL 025	60	97.02	-	96.52	31.75	12.70	£30.53	£25.66
70 XL 025	70	113.19	-	112.69	31.75	12.70	£33.55	£28.14
72 XL 025	72	116.43	-	115.93	31.75	12.70	£36.80	£34.34

12.52



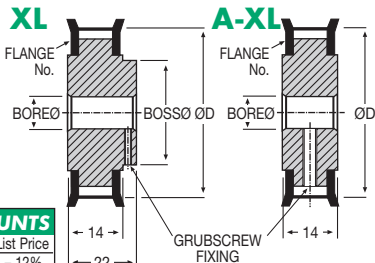
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Aluminium with Steel or
Aluminium Flanges

Timing Pulleys

0.2" Pitch : 9.52mm Wide Belt



To suit XL Belts

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 10 - 276
PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							XL	A-XL
10 XL 037F	10	16.17	11XL	15.67	11.10	4.75	£10.25	£8.59
11 XL 037F	11	17.79	11XL	17.29	11.10	4.75	£10.94	£9.16
12 XL 037F	12	19.40	12XL	18.90	12.70	4.75	£11.58	£9.74
13 XL 037F	13	21.02	14XL	20.52	12.70	4.75	£12.52	£10.50
14 XL 037F	14	22.64	14XL	22.14	15.88	4.75	£13.25	£11.12
15 XL 037F	15	24.26	15XL	23.76	15.88	6.35	£13.75	£11.56
16 XL 037F	16	25.87	15XL	25.37	15.88	6.35	£14.66	£12.32
17 XL 037F	17	27.49	16XL	26.99	15.88	6.35	£15.14	£12.69
18 XL 037F	18	29.11	18XL	28.61	19.05	7.92	£15.39	£13.01
20 XL 037F	20	32.34	20XL	31.84	19.05	7.92	£16.45	£13.78
21 XL 037F	21	33.96	21XL	33.45	19.05	7.92	£17.51	£14.67
22 XL 037F	22	35.57	22XL	35.07	19.05	9.53	£18.09	£15.15
24 XL 037F	24	38.81	24XL	38.31	25.40	9.53	£18.84	£15.86
25 XL 037F	25	40.43	26XL	39.93	25.40	9.53	£19.60	£16.45
26 XL 037F	26	42.04	26XL	41.54	25.40	9.53	£22.13	£18.65
28 XL 037F	28	45.28	28XL	44.78	25.40	9.53	£24.73	£20.73
30 XL 037F	30	48.51	30XL	48.01	25.40	9.53	£25.66	£21.52
32 XL 037	32	51.74	-	51.24	31.75	9.53	£26.05	£21.91
36 XL 037	36	58.21	-	57.71	31.75	9.53	£27.18	£22.79
40 XL 037	40	64.68	-	64.18	31.75	9.53	£27.88	£23.39
42 XL 037	42	67.91	-	67.41	31.75	9.53	£28.66	£24.10
44 XL 037	44	71.15	-	70.65	31.75	9.53	£29.85	£25.08
48 XL 037	48	77.62	-	77.12	31.75	9.53	£31.35	£26.33
50 XL 037	50	80.85	-	80.35	31.75	12.70	£35.30	£29.64
54 XL 037	54	87.32	-	86.82	31.75	12.70	£36.03	£30.26
60 XL 037	60	97.02	-	96.52	31.75	12.70	£38.17	£32.07
70 XL 037	70	113.19	-	112.69	31.75	12.70	£41.92	£35.19
72 XL 037	72	116.43	-	115.93	31.75	12.70	£48.51	£42.97

Pulleys & Belts
PITCH 0.2"

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12.53

Timing Pulleys

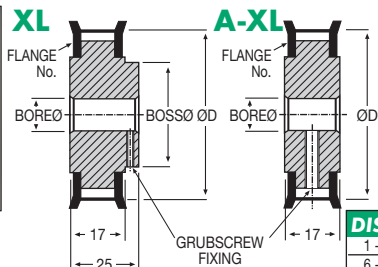
Materials

0.2" Pitch : 12.70mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



To suit XL Belts



SPECIAL TEETH : **between 10 - 276**
PULLEYS FLANGED WHERE SPECIFIED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 0.2"

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							XL	A-XL
10 XL 050F	10	16.17	11XL	15.67	11.10	4.75	£12.34	£10.31
11 XL 050F	11	17.79	11XL	17.29	11.10	4.75	£13.09	£10.98
12 XL 050F	12	19.40	12XL	18.90	12.70	4.75	£13.95	£11.70
13 XL 050F	13	21.02	14XL	20.52	12.70	4.75	£15.07	£12.65
14 XL 050F	14	22.64	14XL	22.14	15.88	4.75	£15.89	£13.37
15 XL 050F	15	24.26	15XL	23.76	15.88	6.35	£16.53	£13.93
16 XL 050F	16	25.87	15XL	25.37	15.88	6.35	£17.59	£14.76
17 XL 050F	17	27.49	16XL	26.99	15.88	6.35	£18.18	£15.23
18 XL 050F	18	29.11	18XL	28.61	19.05	7.92	£18.47	£15.60
20 XL 050F	20	32.34	20XL	31.84	19.05	7.92	£19.73	£16.57
21 XL 050F	21	33.96	21XL	33.45	19.05	7.92	£20.98	£17.62
22 XL 050F	22	35.57	22XL	35.07	19.05	9.53	£21.70	£18.23
24 XL 050F	24	38.81	24XL	38.31	25.40	9.53	£22.67	£19.03
25 XL 050F	25	40.43	26XL	39.93	25.40	9.53	£23.53	£19.73
26 XL 050F	26	42.04	26XL	41.54	25.40	9.53	£26.57	£22.38
28 XL 050F	28	45.28	28XL	44.78	25.40	9.53	£29.68	£24.93
30 XL 050F	30	48.51	30XL	48.01	25.40	9.53	£30.79	£25.81
32 XL 050	32	51.74	-	51.24	31.75	9.53	£31.29	£26.30
36 XL 050	36	58.21	-	57.71	31.75	9.53	£32.63	£27.39
40 XL 050	40	64.68	-	64.18	31.75	9.53	£33.44	£28.04
42 XL 050	42	67.91	-	67.41	31.75	9.53	£34.39	£28.95
44 XL 050	44	71.15	-	70.65	31.75	9.53	£35.88	£30.11
48 XL 050	48	77.62	-	77.12	31.75	9.53	£37.70	£31.62
50 XL 050	50	80.85	-	80.35	31.75	12.70	£42.39	£35.56
54 XL 050	54	87.32	-	86.82	31.75	12.70	£43.24	£36.34
60 XL 050	60	97.02	-	96.52	31.75	12.70	£45.89	£38.54
70 XL 050	70	113.19	-	112.69	31.75	12.70	£50.33	£42.24
72 XL 050	72	116.43	-	115.93	31.75	12.70	£58.23	£51.60

12.54



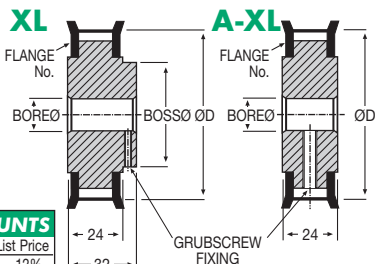
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Aluminium with Steel or
Aluminium Flanges

Timing Pulleys

0.2" Pitch : 19.05mm Wide Belt



To suit XL Belts

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 10 - 276
PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							XL	A-XL
10 XL 075F	10	16.17	11XL	15.67	11.10	4.75	£14.72	£12.34
11 XL 075F	11	17.79	11XL	17.29	11.10	4.75	£15.65	£13.12
12 XL 075F	12	19.40	12XL	18.90	12.70	4.75	£16.64	£13.98
13 XL 075F	13	21.02	14XL	20.52	12.70	4.75	£18.01	£15.06
14 XL 075F	14	22.64	14XL	22.14	15.88	4.75	£18.98	£15.94
15 XL 075F	15	24.26	15XL	23.76	15.88	6.35	£19.71	£16.57
16 XL 075F	16	25.87	15XL	25.37	15.88	6.35	£21.02	£17.63
17 XL 075F	17	27.49	16XL	26.99	15.88	6.35	£21.71	£18.21
18 XL 075F	18	29.11	18XL	28.61	19.05	7.92	£22.01	£18.65
20 XL 075F	20	32.34	20XL	31.84	19.05	7.92	£23.56	£19.76
21 XL 075F	21	33.96	21XL	33.45	19.05	7.92	£25.06	£21.02
22 XL 075F	22	35.57	22XL	35.07	19.05	9.53	£25.92	£21.73
24 XL 075F	24	38.81	24XL	38.31	25.40	9.53	£26.98	£22.73
25 XL 075F	25	40.43	26XL	39.93	25.40	9.53	£28.02	£23.56
26 XL 075F	26	42.04	26XL	41.54	25.40	9.53	£31.68	£26.66
28 XL 075F	28	45.28	28XL	44.78	25.40	9.53	£35.40	£29.69
30 XL 075F	30	48.51	30XL	48.01	25.40	9.53	£36.73	£30.78
32 XL 075	32	51.74	-	51.24	31.75	9.53	£37.31	£31.34
36 XL 075	36	58.21	-	57.71	31.75	9.53	£38.89	£32.64
40 XL 075	40	64.68	-	64.18	31.75	9.53	£39.01	£33.44
42 XL 075	42	67.91	-	67.41	31.75	9.53	£40.99	£34.51
44 XL 075	44	71.15	-	70.65	31.75	9.53	£42.75	£35.93
48 XL 075	48	77.62	-	77.12	31.75	9.53	£44.91	£37.71
50 XL 075	50	80.85	-	80.35	31.75	12.70	£50.49	£42.39
54 XL 075	54	87.32	-	86.82	31.75	12.70	£51.56	£43.24
60 XL 075	60	97.02	-	96.52	31.75	12.70	£54.66	£45.92
70 XL 075	70	113.19	-	112.69	31.75	12.70	£59.96	£50.33
72 XL 075	72	116.43	-	115.93	31.75	12.70	£69.39	£61.46

Pulleys & Belts
PITCH 0.2"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.55

Timing Pulleys

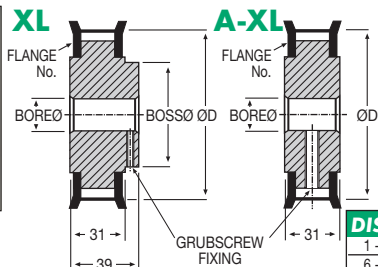
Materials

0.2" Pitch : 25.4mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



To suit XL Belts



SPECIAL TEETH : **between 10 - 276**
PULLEYS FLANGED WHERE SPECIFIED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 0.2"

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH	
							1-5 XL	A-XL
10 XL 100F	10	16.17	11XL	15.67	11.10	4.75	£17.67	£14.78
11 XL 100F	11	17.79	11XL	17.29	11.10	4.75	£18.76	£15.77
12 XL 100F	12	19.40	12XL	18.90	12.70	4.75	£19.97	£16.78
13 XL 100F	13	21.02	14XL	20.52	12.70	4.75	£21.65	£18.10
14 XL 100F	14	22.64	14XL	22.14	15.88	4.75	£22.78	£19.14
15 XL 100F	15	24.26	15XL	23.76	15.88	6.35	£23.68	£19.93
16 XL 100F	16	25.87	15XL	25.37	15.88	6.35	£25.18	£21.17
17 XL 100F	17	27.49	16XL	26.99	15.88	6.35	£26.09	£21.87
18 XL 100F	18	29.11	18XL	28.61	19.05	7.92	£26.62	£22.38
20 XL 100F	20	32.34	20XL	31.84	19.05	7.92	£28.29	£23.74
21 XL 100F	21	33.96	21XL	33.45	19.05	7.92	£30.08	£25.33
22 XL 100F	22	35.57	22XL	35.07	19.05	9.53	£31.09	£26.10
24 XL 100F	24	38.81	24XL	38.31	25.40	9.53	£32.40	£27.30
25 XL 100F	25	40.43	26XL	39.93	25.40	9.53	£33.64	£28.29
26 XL 100F	26	42.04	26XL	41.54	25.40	9.53	£38.03	£32.02
28 XL 100F	28	45.28	28XL	44.78	25.40	9.53	£42.52	£35.67
30 XL 100F	30	48.51	30XL	48.01	25.40	9.53	£44.05	£36.97
32 XL 100	32	51.74	-	51.24	31.75	9.53	£44.77	£37.65
36 XL 100	36	58.21	-	57.71	31.75	9.53	£46.15	£39.21
40 XL 100	40	64.68	-	64.18	31.75	9.53	£47.87	£40.18
42 XL 100	42	67.91	-	67.41	31.75	9.53	£49.21	£41.42
44 XL 100	44	71.15	-	70.65	31.75	9.53	£51.31	£43.13
48 XL 100	48	77.62	-	77.12	31.75	9.53	£53.90	£45.27
50 XL 100	50	80.85	-	80.35	31.75	12.70	£60.61	£50.89
54 XL 100	54	87.32	-	86.82	31.75	12.70	£61.85	£51.97
60 XL 100	60	97.02	-	96.52	31.75	12.70	£65.61	£55.16
70 XL 100	70	113.19	-	112.69	31.75	12.70	£71.96	£60.41
72 XL 100	72	116.43	-	115.93	31.75	12.70	£83.25	£73.74

12.56



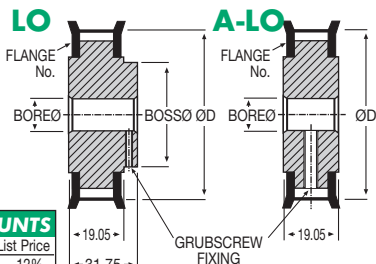
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Mild Steel with Steel or Aluminium Flanges

Timing Pulleys

3/8" Pitch : 13mm Wide Belt



To suit L Belts

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 10 - 148
PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							LO	A-LO
10LO 50F	10	30.32	10L	29.52	19.05	9.53	£16.95	£14.20
11LO 50F	11	33.35	10L	32.55	21.00	9.53	£17.90	£15.03
12LO 50F	12	36.38	12L	35.58	27.00	9.53	£19.42	£16.27
13LO 50F	13	39.41	12L	38.61	27.00	9.53	£20.24	£16.96
14LO 50F	14	42.45	14L	41.65	32.00	9.53	£21.33	£17.88
15LO 50F	15	45.48	15L	44.68	37.00	9.53	£21.71	£18.24
16LO 50F	16	48.51	16L	47.71	38.10	9.53	£22.74	£19.06
17LO 50F	17	51.54	17L	50.74	38.10	9.53	£23.20	£19.44
18LO 50F	18	54.57	14H	53.77	38.10	9.53	£25.05	£20.96
19LO 50F	19	57.61	15H	56.81	38.10	9.53	£25.77	£21.62
20LO 50F	20	60.64	15H	59.84	38.10	9.53	£27.25	£22.85
21LO 50	21	63.67	-	62.87	38.10	9.53	£27.98	£23.49
23LO 50	23	69.73	-	68.93	50.80	12.70	£31.05	£26.05
24LO 50	24	72.77	-	71.97	50.80	12.70	£35.51	£29.84
25LO 50	25	75.80	-	75.00	50.80	12.70	£36.24	£30.22
26LO 50	26	78.83	-	78.03	63.50	12.70	£36.69	£30.78
28LO 50	28	84.89	-	84.09	63.50	12.70	£39.21	£32.97
30LO 50	30	90.96	-	90.16	63.50	12.70	£40.93	£34.03
32LO 50	32	97.02	-	96.22	63.50	12.70	£43.18	£36.24
33LO 50	33	75.05	-	99.25	63.50	12.70	£44.15	£37.05
34LO 50	34	103.08	-	102.28	63.50	12.70	£46.84	£39.28
35LO 50	35	106.12	-	105.32	63.50	12.70	£49.57	£41.66
36LO 50	36	109.15	-	108.35	63.50	12.70	£50.57	£42.39
38LO 50	38	115.21	-	114.41	63.50	12.70	£56.93	£47.82
40LO 50	40	121.28	-	120.48	63.50	12.70	£60.41	£50.70
42LO 50	42	127.34	-	126.54	63.50	12.70	£61.95	£54.52
44LO 50	44	133.40	-	132.60	63.50	12.70	£64.96	£54.56
48LO 50	48	145.53	-	144.73	63.50	12.70	£72.05	£60.46

Pulleys & Belts
PITCH 3/8"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.57

Timing Pulleys

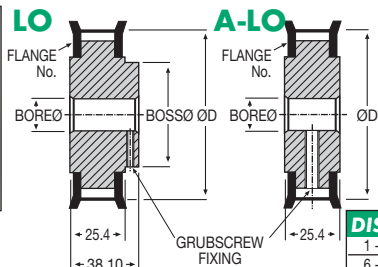
Materials

3/8" Pitch : 19mm Wide Belt

STD : Mild Steel with Steel or Aluminium Flanges



To suit L Belts



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 10 - 148**
PULLEYS FLANGED WHERE SPECIFIED

Pulleys & Belts PITCH 3/8"

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							LO	A-LO
10LO 75F	10	30.32	10L	29.52	19.05	9.53	£23.56	£19.81
11LO 75F	11	33.35	10L	32.55	21.00	9.53	£23.81	£19.97
12LO 75F	12	36.38	12L	35.58	27.00	9.53	£24.24	£20.37
13LO 75F	13	39.41	12L	38.61	27.00	9.53	£24.58	£20.64
14LO 75F	14	42.45	14L	41.65	32.00	9.53	£26.85	£22.51
15LO 75F	15	45.48	15L	44.68	36.00	9.53	£28.42	£23.86
16LO 75F	16	48.51	16L	47.71	38.10	9.53	£28.97	£24.26
17LO 75F	17	51.54	17L	50.74	38.10	9.53	£30.03	£25.21
18LO 75F	18	54.57	14H	53.77	38.10	9.53	£30.84	£25.89
19LO 75F	19	57.61	15H	56.81	38.10	9.53	£32.71	£27.51
20LO 75F	20	60.64	15H	59.84	38.10	9.53	£34.59	£29.01
21LO 75	21	63.67	-	62.87	38.10	9.53	£34.76	£29.26
23LO 75	23	69.73	-	68.93	50.80	12.70	£37.70	£31.63
24LO 75	24	72.77	-	71.97	50.80	12.70	£40.93	£31.77
25LO 75	25	75.80	-	75.00	50.80	12.70	£41.53	£31.82
26LO 75	26	78.83	-	78.03	63.50	12.70	£42.86	£35.97
28LO 75	28	84.89	-	84.09	63.50	12.70	£45.45	£38.16
30LO 75	30	90.96	-	90.16	63.50	12.70	£48.76	£40.93
32LO 75	32	97.02	-	96.22	63.50	12.70	£53.21	£44.72
33LO 75	33	100.05	-	99.25	63.50	12.70	£54.78	£45.96
34LO 75	34	103.08	-	102.28	63.50	12.70	£55.52	£46.60
35LO 75	35	106.12	-	105.32	63.50	12.70	£56.90	£47.81
36LO 75	36	109.15	-	108.35	63.50	12.70	£59.15	£49.71
38LO 75	38	115.21	-	114.41	63.50	12.70	£60.52	£50.84
40LO 75	40	121.28	-	120.48	63.50	12.70	£62.71	£52.64
42LO 75	42	127.34	-	126.54	63.50	12.70	£67.43	£56.60
44LO 75	44	133.40	-	132.60	63.50	12.70	£69.88	£58.64
48LO 75	48	145.53	-	144.73	63.50	12.70	£80.69	£67.78

12.58



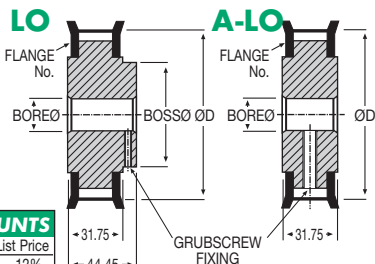
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
 Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Mild Steel with Steel or Aluminium Flanges

Timing Pulleys

3/8" Pitch : 25mm Wide Belt



To suit L Belts

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 10 - 148
PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							LO	A-LO
10LO 100F	10	30.32	10L	29.52	19.05	9.53	£24.10	£20.20
11LO 100F	11	33.35	10L	32.55	21.00	9.53	£24.88	£20.90
12LO 100F	12	36.38	12L	35.58	27.00	9.53	£25.68	£21.58
13LO 100F	13	39.41	12L	38.61	27.00	9.53	£29.12	£24.21
14LO 100F	14	42.45	14L	41.65	32.00	9.53	£29.13	£24.45
15LO 100F	15	45.48	15L	44.68	36.00	9.53	£30.17	£25.32
16LO 100F	16	48.51	16L	47.71	38.10	9.53	£31.43	£26.44
17LO 100F	17	51.54	17L	50.74	38.10	9.53	£32.27	£27.07
18LO 100F	18	54.57	14H	53.77	38.10	9.53	£34.51	£28.97
19LO 100F	19	57.61	15H	56.81	38.10	9.53	£36.43	£30.53
20LO 100F	20	60.64	15H	59.84	38.10	9.53	£38.35	£32.15
21LO 100	21	63.67	-	62.87	38.10	9.53	£39.75	£33.41
23LO 100	23	69.73	-	68.93	50.80	12.70	£42.43	£35.36
24LO 100	24	72.77	-	71.97	50.80	12.70	£43.62	£36.43
25LO 100	25	75.80	-	75.00	50.80	12.70	£45.20	£37.98
26LO 100	26	78.83	-	78.03	63.50	12.70	£46.57	£39.12
28LO 100	28	84.89	-	84.09	63.50	12.70	£52.12	£43.75
30LO 100	30	90.96	-	90.16	63.50	12.70	£54.92	£46.15
32LO 100	32	97.02	-	96.22	63.50	12.70	£59.23	£49.72
33LO 100	33	100.05	-	99.25	63.50	12.70	£61.26	£51.43
34LO 100	34	103.08	-	102.28	63.50	12.70	£63.49	£53.29
35LO 100	35	106.12	-	105.32	63.50	12.70	£66.94	£56.20
36LO 100	36	109.15	-	108.35	63.50	12.70	£68.29	£57.36
38LO 100	38	115.21	-	114.41	63.50	12.70	£76.42	£64.21
40LO 100	40	121.28	-	120.48	63.50	12.70	£78.99	£66.30
42LO 100	42	127.34	-	126.54	63.50	12.70	£81.20	£68.17
44LO 100	44	133.40	-	132.60	63.50	12.70	£83.61	£70.23
48LO 100	48	145.53	-	144.73	63.50	12.70	£121.01	£101.61

Pulleys & Belts
PITCH 3/8"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.59

Timing Pulleys

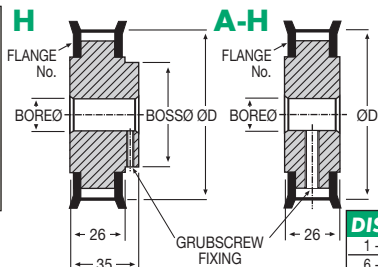
Materials

1/2" Pitch : 19mm Wide Belt

STD : Mild Steel with Steel or Aluminium Flanges



To suit H Belts



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 10 - 110**
PULLEYS FLANGED WHERE SPECIFIED

Pulleys & Belts PITCH 1/2"

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH	
							1-5	H A-H
10H 75F	10	40.43	14L	39.08	25	12.70	£20.81	£17.43
11H 75F	11	44.47	15L	43.12	25	12.70	£21.33	£17.88
12H 75F	12	48.51	17L	47.16	25	12.70	£22.74	£19.06
13H 75F	13	52.55	14H	51.20	35	12.70	£23.67	£19.85
14H 75F	14	56.60	14H	55.25	35	12.70	£25.77	£21.62
15H 75F	15	60.64	15H	59.29	45	12.70	£27.25	£22.85
16H 75F	16	64.68	16H	63.33	48	12.70	£28.57	£23.95
17H 75F	17	68.72	17H	67.37	48	12.70	£29.37	£24.67
18H 75F	18	72.77	18H	71.42	60	12.70	£31.63	£26.56
19H 75F	19	76.81	19H	75.46	60	12.70	£34.25	£28.76
20H 75F	20	80.85	20H	79.50	60	15.88	£38.54	£32.33
21H 75	21	84.89	-	83.54	60	15.88	£40.42	£33.93
23H 75	23	92.98	-	91.63	60	15.88	£43.18	£36.24
24H 75	24	97.02	-	95.67	60	15.88	£44.26	£37.13
25H 75	25	101.06	-	99.71	75	15.88	£46.84	£39.28
26H 75	26	105.11	-	103.76	75	15.88	£49.57	£41.66
28H 75	28	113.19	-	111.84	75	19.05	£56.93	£47.82
30H 75	30	121.28	-	119.93	75	19.05	£61.07	£51.27
32H 75	32	129.36	-	128.01	75	19.05	£64.96	£54.56
33H 75	33	133.40	-	132.05	75	19.05	£69.23	£54.78
34H 75	34	137.45	-	136.10	100	19.05	£70.28	£59.02
35H 75	35	141.49	-	140.14	100	25.40	£72.05	£60.46
36H 75	36	145.53	-	144.18	100	25.40	£80.57	£67.74
38H 75	38	153.62	-	152.27	100	25.40	£80.67	£78.52
40H 75	40	161.70	-	160.35	127	25.40	£107.92	£90.67
42H 75	42	169.79	-	168.44	127	25.40	£113.79	£95.53
44H 75	44	177.87	-	176.52	127	25.40	£117.93	£99.05
48H 75	48	194.04	-	192.69	127	25.40	£144.08	£121.01

12.60



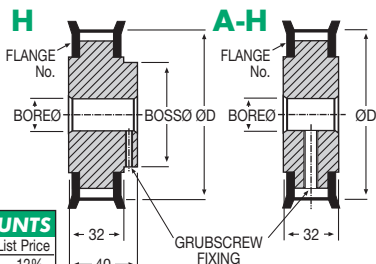
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
 Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Mild Steel with Steel or Aluminium Flanges

Timing Pulleys

1/2" Pitch : 25mm Wide Belt



To suit H Belts

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 10 - 110
PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							H	A-H
10H 100F	10	40.43	14L	39.08	25	12.70	£25.21	£21.17
11H 100F	11	44.47	15L	43.12	25	12.70	£26.85	£22.51
12H 100F	12	48.51	17L	47.16	25	12.70	£28.97	£24.26
13H 100F	13	52.55	14H	51.20	35	12.70	£30.84	£25.89
14H 100F	14	56.60	14H	55.25	35	12.70	£31.95	£26.80
15H 100F	15	60.64	15H	59.29	45	12.70	£33.88	£28.43
16H 100F	16	64.68	16H	63.33	48	12.70	£35.82	£30.05
17H 100F	17	68.72	17H	67.37	48	12.70	£37.70	£31.63
18H 100F	18	72.77	18H	71.42	60	12.70	£40.47	£33.97
19H 100F	19	76.81	19H	75.46	60	12.70	£41.53	£34.84
20H 100F	20	80.85	20H	79.50	60	15.88	£42.86	£35.97
21H 100	21	84.89	-	83.54	60	15.88	£45.51	£38.17
23H 100	23	92.98	-	91.63	60	15.88	£48.77	£40.95
24H 100	24	97.02	-	95.67	60	15.88	£50.59	£42.50
25H 100	25	101.06	-	99.71	75	15.88	£53.21	£44.72
26H 100	26	105.11	-	103.76	75	15.88	£55.52	£46.60
28H 100	28	113.19	-	111.84	75	19.05	£59.79	£50.29
30H 100	30	121.28	-	119.93	75	19.05	£62.71	£52.64
32H 100	32	129.36	-	128.01	75	19.05	£67.43	£56.60
33H 100	33	133.40	-	132.05	75	19.05	£69.88	£59.56
34H 100	34	137.45	-	136.10	100	19.05	£71.55	£64.86
35H 100	35	141.49	-	140.14	100	25.40	£72.26	£72.26
36H 100	36	145.53	-	144.18	100	25.40	£80.69	£79.36
38H 100	38	153.62	-	152.27	100	25.40	£84.59	£87.34
40H 100	40	161.70	-	160.35	127	25.40	£97.35	£99.71
42H 100	42	169.79	-	168.44	127	25.40	£111.74	£111.70
44H 100	44	177.87	-	176.52	127	25.40	£135.23	£133.05
48H 100	48	194.04	-	192.69	127	25.40	£180.61	£156.15

Pulleys & Belts
PITCH 1/2"

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12.61

Timing Pulleys

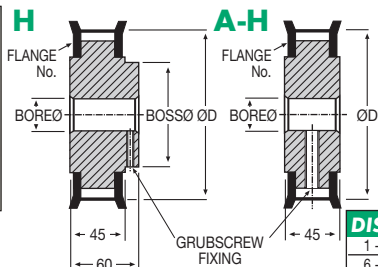
Materials

1/2" Pitch : 38mm Wide Belt

STD : Mild Steel with Steel or Aluminium Flanges



To suit H Belts



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 10 - 110**
PULLEYS FLANGED WHERE SPECIFIED

Pulleys & Belts PITCH 1/2"

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH	
							1-5	H - A-H
10H 150F	10	40.43	14L	39.08	25	12.70	£36.75	£30.85
11H 150F	11	44.47	15L	43.12	25	12.70	£38.05	£31.91
12H 150F	12	48.51	17L	47.16	25	12.70	£40.06	£33.63
13H 150F	13	52.55	14H	51.20	35	12.70	£40.96	£34.39
14H 150F	14	56.60	14H	55.25	35	12.70	£41.92	£35.19
15H 150F	15	60.64	15H	59.29	45	12.70	£42.43	£35.63
16H 150F	16	64.68	16H	63.33	48	12.70	£46.27	£38.88
17H 150F	17	68.72	17H	67.37	48	12.70	£52.51	£44.05
18H 150F	18	72.77	18H	71.42	60	12.70	£58.26	£48.91
19H 150F	19	76.81	19H	75.46	60	12.70	£61.37	£51.57
20H 150F	20	80.85	20H	79.50	60	15.88	£64.47	£54.14
21H 150	21	84.89	-	83.54	60	15.88	£66.93	£56.20
23H 150	23	92.98	-	91.63	60	15.88	£72.67	£60.98
24H 150	24	97.02	-	95.67	60	15.88	£75.56	£63.48
25H 150	25	101.06	-	99.71	75	15.88	£77.93	£65.48
26H 150	26	105.11	-	103.76	75	15.88	£79.49	£66.74
28H 150	28	113.19	-	111.84	75	19.05	£86.02	£72.21
30H 150	30	121.28	-	119.93	75	19.05	£93.15	£78.20
32H 150	32	129.36	-	128.01	75	19.05	£95.65	£80.34
33H 150	33	133.40	-	132.05	75	19.05	£106.53	£88.82
34H 150	34	137.45	-	136.10	100	19.05	£112.75	£94.68
35H 150	35	141.49	-	140.14	100	25.40	£119.48	£100.36
36H 150	36	145.53	-	144.18	100	25.40	£128.98	£108.37
38H 150	38	153.62	-	152.27	100	25.40	£148.15	£124.41
40H 150	40	161.70	-	160.35	127	25.40	£159.46	£133.93
42H 150	42	169.79	-	168.44	127	25.40	£190.29	£159.82
44H 150	44	177.87	-	176.52	127	25.40	£196.96	£165.43
48H 150	48	194.04	-	192.69	127	25.40	£209.38	£175.85

12.62



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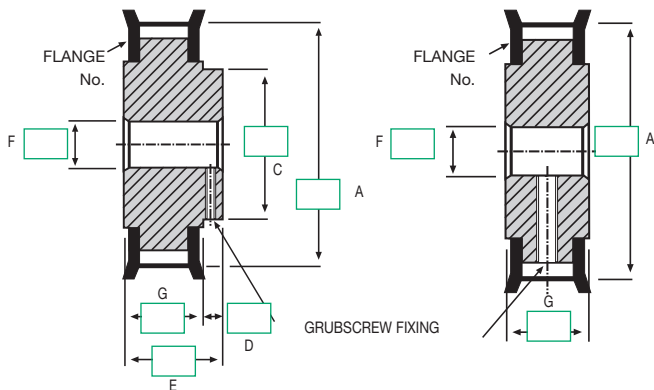
TECHNICAL REQUEST

Non-Standard Pulleys

photocopy double
size and fax on
+44 (0)1246 260003

QUANTITY	_____	BORE DIAMETER (F)	_____
MATERIAL	_____	FACE WIDTH (G)	_____
NUMBER OF TEETH	_____	CENTRES (C)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
BOSS DIAMETER (C)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OVERALL WIDTH (E)	_____		

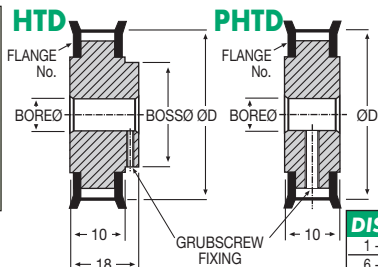
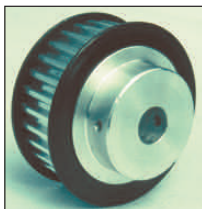
SPECIAL FEATURES



Heavy Duty Timing Pulleys Materials

3mm Pitch : 6mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 10 - 72**

ALL PULLEYS FLANGED

Pulleys & Belts **PITCH 3mm**

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
10 HTD3-10	10	9.55	10XS,YS	8.79	13	3	£9.37	£8.87
12 HTD3-10	12	11.46	16XS,YS	10.70	18	3	£9.65	£9.02
14 HTD3-10	14	13.37	16XS,YS	12.61	18	4	£9.93	£9.15
15 HTD3-10	15	14.32	31XS,YS	13.56	18	4	£10.01	£9.30
16 HTD3-10	16	15.28	32XS,YS	14.52	20	4	£10.19	£9.38
18 HTD3-10	18	17.19	32XS,YS	16.43	20	4	£10.42	£9.49
20 HTD3-10	20	19.10	12XL	18.34	14	6	£10.70	£9.65
21 HTD3-10	21	20.05	12XL	19.29	14	6	£10.79	£10.22
22 HTD3-10	22	21.01	12XL	20.25	14	6	£10.94	£10.35
24 HTD3-10	24	22.92	14XL	22.16	14	6	£11.20	£10.65
26 HTD3-10	26	24.83	16XL	24.07	20	6	£11.40	£10.82
28 HTD3-10	28	26.74	18XL	25.98	20	6	£11.47	£10.94
30 HTD3-10	30	28.65	18XL	27.89	20	6	£11.73	£11.10
32 HTD3-10	32	30.56	20XL	29.80	20	6	£11.76	£11.18
36 HTD3-10	36	34.38	21XL	33.62	20	6	£11.84	£11.20
40 HTD3-10	40	38.20	24XL	37.44	20	6	£12.44	£11.85
44 HTD3-10	44	42.02	26XL	41.26	20	6	£13.12	£12.43
48 HTD3-10	48	45.84	28XL	45.08	20	8	£13.63	£12.94
60 HTD3-10	60	57.30	15H	56.54	30	8	£15.15	£14.38
72 HTD3-10	72	68.75	18H	67.99	30	8	£16.61	£15.78

'Never Knowingly Outpriced'

12.64

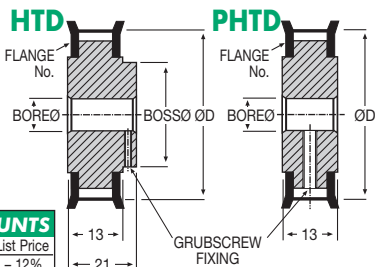


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Materials **Heavy Duty Timing Pulleys**

STD : Aluminium with Steel
or Aluminium Flanges

3mm Pitch : 9mm Wide Belt



DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 10 - 72

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
10 HTD3-13	10	9.55	10XS,YS	8.79	13	3	£10.31	£9.76
12 HTD3-13	12	11.46	16XS,YS	10.70	18	3	£10.59	£9.94
14 HTD3-13	14	13.37	16XS,YS	12.61	18	4	£10.94	£10.04
15 HTD3-13	15	14.32	31XS,YS	13.56	18	4	£11.01	£10.22
16 HTD3-13	16	15.28	32XS,YS	14.52	20	4	£11.19	£10.32
18 HTD3-13	18	17.19	32XS,YS	16.43	20	4	£11.47	£10.45
20 HTD3-13	20	19.10	12XL	18.34	14	6	£11.76	£10.62
21 HTD3-13	21	20.05	12XL	19.29	14	6	£11.89	£11.28
22 HTD3-13	22	21.01	12XL	20.25	14	6	£12.05	£11.40
24 HTD3-13	24	22.92	14XL	22.16	14	6	£12.39	£11.73
26 HTD3-13	26	24.83	16XL	24.07	20	6	£12.52	£11.93
28 HTD3-13	28	26.74	18XL	25.98	20	6	£12.62	£12.04
30 HTD3-13	30	28.65	18XL	27.89	20	6	£12.89	£12.19
32 HTD3-13	32	30.56	20XL	29.80	20	6	£12.94	£12.32
36 HTD3-13	36	34.38	21XL	33.62	20	6	£13.03	£12.39
40 HTD3-13	40	38.20	24XL	37.44	20	6	£13.74	£13.04
44 HTD3-13	44	42.02	26XL	41.26	20	6	£14.44	£13.70
48 HTD3-13	48	45.84	28XL	45.08	20	8	£15.02	£14.26
60 HTD3-13	60	57.30	15H	56.54	30	8	£16.68	£15.83
72 HTD3-13	72	68.75	18H	67.99	30	8	£18.29	£17.36

Pulleys & Belts
PITCH 3mm

'Never Knowingly Outpriced'

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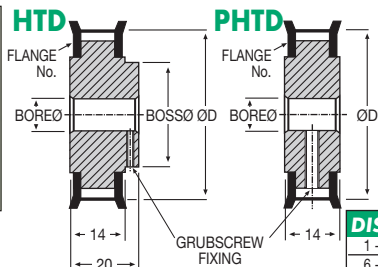


12.65

Heavy Duty Timing Pulleys Materials

5mm Pitch : 9mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 12 - 72**

ALL PULLEYS FLANGED

Pulleys & Belts PITCH 5mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
12 HTD5-14	12	19.10	12XL	17.96	12	4	£11.40	£10.42
14 HTD5-14	14	22.28	14XL	21.14	12	4	£12.11	£11.01
15 HTD5-14	15	23.87	14XL	22.73	12	6	£12.50	£11.34
16 HTD5-14	16	25.46	14XL	24.32	12	6	£12.78	£11.65
18 HTD5-14	18	28.65	18XL	27.51	20	6	£13.19	£11.96
20 HTD5-14	20	31.83	20XL	30.69	20	6	£13.82	£12.62
21 HTD5-14	21	33.42	20XL	32.28	20	6	£14.20	£12.89
22 HTD5-14	22	35.01	21XL	33.87	20	6	£14.51	£13.25
24 HTD5-14	24	38.20	24XL	37.06	20	6	£14.96	£13.61
26 HTD5-14	26	41.38	24XL	40.24	20	6	£15.22	£13.92
28 HTD5-14	28	44.56	26XL	43.42	20	6	£15.87	£14.44
30 HTD5-14	30	47.75	28XL	46.60	30	6	£16.49	£15.03
32 HTD5-14	32	50.93	16L	49.79	30	8	£17.13	£15.61
36 HTD5-14	36	57.30	14H	56.16	30	8	£17.65	£16.09
40 HTD5-14	40	63.66	16H	62.52	30	8	£20.20	£18.38
44 HTD5-14	44	70.03	18H	68.89	30	8	£22.69	£20.61
48 HTD5-14	48	76.39	19H	75.25	30	8	£25.18	£22.90
60 HTD5-14	60	95.49	24H	94.35	30	8	£33.41	£29.12
72 HTD5-14	72	114.59	28H	113.45	30	8	£43.49	£39.55

'Never Knowingly Outpriced'

12.66

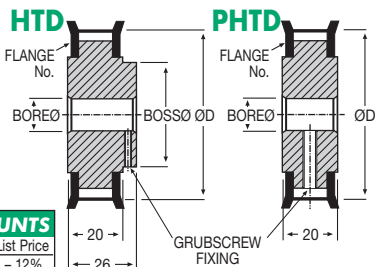


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Materials **Heavy Duty Timing Pulleys**

STD : Aluminium with Steel
or Aluminium Flanges

5mm Pitch : 15mm Wide Belt



DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 12 - 72

ALL PULLEYS FLANGED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
12 HTD5-20	12	19.10	12XL	17.96	12	4	£12.52	£11.40
14 HTD5-20	14	22.28	14XL	21.14	12	4	£13.37	£12.11
15 HTD5-20	15	23.87	14XL	22.73	12	6	£13.77	£12.50
16 HTD5-20	16	25.46	14XL	24.32	12	6	£14.07	£12.79
18 HTD5-20	18	28.65	18XL	27.51	20	6	£14.51	£13.18
20 HTD5-20	20	31.83	20XL	30.69	20	6	£15.20	£13.83
21 HTD5-20	21	33.42	20XL	32.28	20	6	£15.65	£14.20
22 HTD5-20	22	35.01	21XL	33.87	20	6	£15.97	£14.61
24 HTD5-20	24	38.20	24XL	37.06	20	6	£16.45	£14.97
26 HTD5-20	26	41.38	24XL	40.24	20	6	£16.78	£15.33
28 HTD5-20	28	44.56	26XL	43.42	20	6	£17.48	£15.90
30 HTD5-20	30	47.75	28XL	46.60	30	6	£18.17	£16.55
32 HTD5-20	32	50.93	16L	49.79	30	8	£18.87	£17.24
36 HTD5-20	36	57.30	14H	56.16	30	8	£19.41	£17.67
40 HTD5-20	40	63.66	16H	62.52	30	8	£22.21	£20.22
44 HTD5-20	44	70.03	18H	68.89	30	8	£24.96	£22.69
48 HTD5-20	48	76.39	19H	75.25	30	8	£27.69	£25.21
60 HTD5-20	60	95.49	24H	94.35	30	8	£36.76	£32.04
72 HTD5-20	72	114.59	28H	113.45	30	8	£47.81	£43.49

Pulleys & Belts
PITCH 5mm

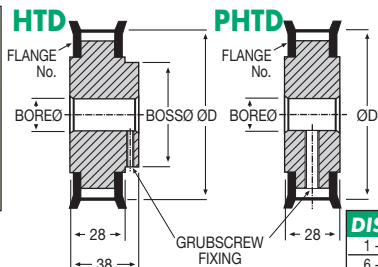
'Never Knowingly Outpriced'



Heavy Duty Timing Pulleys Materials

8mm Pitch : 20mm Wide Belt

STD : Mild Steel (En202) with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 22 - 112

PULLEYS FLANGED WHERE SPECIFIED

Pulleys & Belts PITCH 8mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
22 HTD8-28	22	56.02	14H	54.65	43	12	£33.61	£27.46
24 HTD8-28	24	61.12	15H	59.75	45	12	£35.32	£29.08
26 HTD8-28	26	66.21	17H	64.84	50	12	£38.17	£32.14
28 HTD8-28	28	71.30	17H	69.94	50	15	£40.99	£36.11
30 HTD8-28	30	76.39	19H	75.03	55	15	£44.50	£39.21
32 HTD8-28	32	81.49	21H	80.12	60	15	£47.21	£42.61
34 HTD8-28	34	86.58	21H	85.22	70	15	£49.72	£44.64
36 HTD8-28	36	91.67	23H	90.30	70	15	£51.56	£45.78
38 HTD8-28	38	96.77	24H	95.39	75	15	£53.13	£47.90
40 HTD8-28	40	101.86	25H	100.49	75	15	£56.59	£49.83
44 HTD8-28	44	112.05	27H	110.67	75	15	£62.06	£54.79
48 HTD8-28	48	122.23	31H	120.86	75	15	£71.89	£60.09
56 HTD8-28	56	142.60	36H	141.23	80	15	£119.10	£98.11
64 HTD8-28	64	162.97	42H	161.60	80	15	£164.72	£136.99
72 HTD8-28	72	183.35	46H	181.97	90	20	£184.98	£150.95
80 HTD8-28	80	203.72	-	202.35	90	20	£217.72	£188.14
90 HTD8-28	90	229.18	-	227.81	90	20	£239.50	£206.97
112 HTD8-28	112	285.21	-	283.83	90	20	£263.42	£227.70

'Never Knowingly Outpriced'

12.68

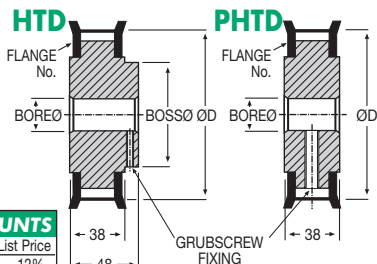


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Materials **Heavy Duty Timing Pulleys**

STD : Mild Steel (En202) with
Steel Flanges

8mm Pitch : 30mm Wide Belt



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 22 - 112

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
22 HTD8-38	22	56.02	14H	54.65	43	12	£38.64	£31.61
24 HTD8-38	24	61.12	15H	59.75	45	12	£40.65	£33.44
26 HTD8-38	26	66.21	17H	64.84	50	12	£43.97	£36.97
28 HTD8-38	28	71.30	17H	69.94	50	15	£47.19	£41.57
30 HTD8-38	30	76.39	19H	75.03	55	15	£51.21	£45.10
32 HTD8-38	32	81.49	21H	80.12	60	15	£54.28	£49.00
34 HTD8-38	34	86.58	21H	85.22	70	15	£57.23	£51.34
36 HTD8-38	36	91.67	23H	90.30	70	15	£59.30	£52.66
38 HTD8-38	38	96.77	24H	95.39	75	15	£61.12	£55.09
40 HTD8-38	40	101.86	25H	100.49	75	15	£65.12	£57.28
44 HTD8-38	44	112.05	27H	110.67	75	15	£71.37	£63.04
48 HTD8-38	48	122.23	31H	120.86	75	15	£82.68	£69.14
56 HTD8-38	56	142.60	36H	141.23	80	15	£137.70	£112.84
64 HTD8-38	64	162.97	42H	161.60	80	15	£189.42	£157.56
72 HTD8-38	72	183.35	46H	181.97	90	20	£212.69	£173.61
80 HTD8-38	80	203.72	-	202.35	90	20	£250.39	£216.38
90 HTD8-38	90	229.18	-	227.81	90	20	£275.41	£238.05
112 HTD8-38	112	285.21	-	283.83	90	20	£295.09	£261.83

Pulleys & Belts
PITCH 8mm

'Never Knowingly Outpriced'

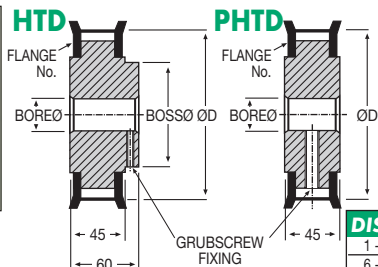


Heavy Duty Timing Pulleys

Materials

14mm Pitch : 40mm Wide Belt

STD : Mild Steel (En202) with Steel Flanges



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : **between 28 - 100**

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
28 HTD14-45	28	124.78	31H	122.12	100	20	£87.48	£75.24
29 HTD14-45	29	129.23	31H	126.57	100	20	£90.11	£77.48
30 HTD14-45	30	133.69	33H	130.99	100	20	£94.86	£80.54
32 HTD14-45	32	142.60	36H	139.88	120	20	£98.76	£82.83
34 HTD14-45	34	151.52	38H	148.79	120	20	£110.25	£89.03
35 HTD14-45	35	155.97	40H	153.22	125	25	£115.76	£98.44
36 HTD14-45	36	160.43	40H	157.68	125	25	£121.55	£103.34
38 HTD14-45	38	169.34	42H	166.60	125	25	£130.62	£107.12
40 HTD14-45	40	178.25	44H	175.49	140	25	£137.20	£116.83
42 HTD14-45	42	187.16	46H	184.41	140	25	£151.89	£117.24
44 HTD14-45	44	196.08	48H	193.28	150	25	£167.10	£128.97
45 HTD14-45	45	200.54	-	197.78	150	25	£175.44	£141.87
46 HTD14-45	46	205.00	-	202.24	150	25	£184.21	£148.96
48 HTD14-45	48	213.90	-	211.11	160	30	£189.08	£156.52
50 HTD14-45	50	222.82	-	220.06	160	30	£198.42	£164.38
55 HTD14-45	55	245.10	-	242.35	160	30	£208.48	£180.80
56 HTD14-45	56	249.55	-	246.76	200	30	£229.29	£198.91
60 HTD14-45	60	267.38	-	264.63	200	30	£252.23	£218.84
64 HTD14-45	64	285.21	-	282.41	200	30	£277.48	£240.69
65 HTD14-45	65	289.66	-	286.91	250	30	£291.31	£252.73
70 HTD14-45	70	311.94	-	309.19	250	30	£305.94	£266.88
72 HTD14-45	72	320.86	-	318.06	250	30	£321.17	£280.08
75 HTD14-45	75	334.22	-	331.48	250	30	£337.25	£294.09
80 HTD14-45	80	356.51	-	353.71	250	30	£354.10	£308.78
90 HTD14-45	90	401.07	-	398.28	250	30	£371.83	£324.24
100 HTD14-45	100	445.63	-	442.88	250	30	£389.41	£340.45

Pulley & Belts PITCH 14mm

12.70

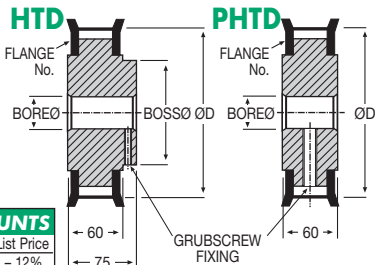


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Materials **Heavy Duty Timing Pulleys**

STD : Mild Steel (En202) with
Steel Flanges

14mm Pitch : 55mm Wide Belt



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

SPECIAL TEETH : between 28 - 100

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							HTD	PHTD
28 HTD14-60	28	124.78	31H	122.12	100	20	£96.27	£82.74
29 HTD14-60	29	129.23	31H	126.57	100	20	£99.14	£85.26
30 HTD14-60	30	133.69	33H	130.99	100	20	£104.35	£88.62
32 HTD14-60	32	142.60	36H	139.88	120	20	£108.63	£91.11
34 HTD14-60	34	151.52	38H	148.79	120	20	£121.27	£97.95
35 HTD14-60	35	155.97	40H	153.22	125	25	£127.33	£108.28
36 HTD14-60	36	160.43	40H	157.68	125	25	£133.72	£113.69
38 HTD14-60	38	169.34	42H	166.60	125	25	£143.70	£117.86
40 HTD14-60	40	178.25	44H	175.49	140	25	£150.88	£123.74
42 HTD14-60	42	187.16	46H	184.41	140	25	£167.10	£128.97
44 HTD14-60	44	196.08	48H	193.28	150	25	£183.83	£141.87
45 HTD14-60	45	200.54	-	197.78	150	25	£193.02	£156.09
46 HTD14-60	46	205.00	-	202.24	150	25	£202.66	£163.88
48 HTD14-60	48	213.90	-	211.11	160	30	£207.97	£172.20
50 HTD14-60	50	222.82	-	220.06	160	30	£218.38	£180.80
55 HTD14-60	55	245.10	-	242.35	160	30	£229.29	£198.91
56 HTD14-60	56	249.55	-	246.76	200	30	£252.23	£218.84
60 HTD14-60	60	267.38	-	264.63	200	30	£277.48	£240.69
64 HTD14-60	64	285.21	-	282.41	200	30	£305.23	£264.76
65 HTD14-60	65	289.66	-	286.91	250	30	£320.49	£278.00
70 HTD14-60	70	311.94	-	309.19	250	30	£336.52	£293.58
72 HTD14-60	72	320.86	-	318.06	250	30	£353.33	£308.10
75 HTD14-60	75	334.22	-	331.48	250	30	£371.00	£323.53
80 HTD14-60	80	356.51	-	353.71	250	30	£389.54	£339.71
90 HTD14-60	90	401.07	-	398.28	250	30	£409.01	£356.67
100 HTD14-60	100	445.63	-	442.88	250	30	£429.48	£374.50

Pulleys & Belts
PITCH 14mm



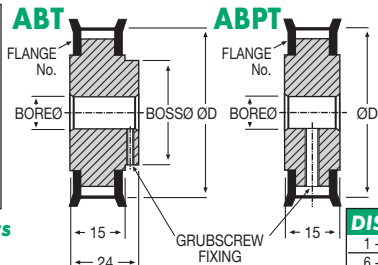
Reduced Backlash Timing Pulleys *Materials*

5mm Pitch : 10mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



To suit AT5 Belts



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Other number of teeth available on request.

ALL PULLEYS FLANGED

Pulleys & Belts PITCH 5mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
20ABT 5-15	20	31.84	20XL	30.60	20	6	£16.35	£14.90
21ABT 5-15	21	33.44	20XL	32.20	20	6	£16.78	£15.22
22ABT 5-15	22	34.99	21XL	33.75	20	6	£17.15	£15.61
23ABT 5-15	23	36.59	22XL	35.35	20	6	£17.59	£15.98
24ABT 5-15	24	38.19	24XL	36.95	25	6	£17.90	£16.29
25ABT 5-15	25	39.79	24XL	38.55	25	6	£18.37	£16.72
26ABT 5-15	26	41.39	24XL	40.15	25	6	£18.74	£17.04
27ABT 5-15	27	42.99	26XL	41.75	25	6	£19.14	£17.43
28ABT 5-15	28	44.59	26XL	43.35	25	6	£19.50	£17.77
29ABT 5-15	29	46.14	28XL	44.90	25	6	£19.94	£18.14
30ABT 5-15	30	47.74	28XL	46.50	30	8	£20.31	£18.47
31ABT 5-15	31	49.34	30XL	48.10	30	8	£20.68	£18.84
32ABT 5-15	32	50.94	16L	49.70	30	8	£21.08	£19.20
33ABT 5-15	33	52.54	17L	51.30	30	8	£21.52	£19.54
34ABT 5-15	34	54.14	14H	52.90	30	8	£21.91	£19.93
35ABT 5-15	35	55.69	14H	54.45	30	8	£22.29	£20.25
36ABT 5-15	36	57.29	14H	56.05	30	8	£22.66	£20.57
37ABT 5-15	37	58.89	15H	57.65	40	8	£23.37	£21.25
38ABT 5-15	38	60.49	15H	59.25	40	8	£24.22	£22.05
39ABT 5-15	39	62.09	16H	60.85	40	8	£25.02	£22.76
40ABT 5-15	40	63.69	16H	62.41	40	8	£25.84	£23.53
41ABT 5-15	41	65.24	17H	64.00	40	8	£26.61	£24.22
42ABT 5-15	42	66.84	17H	65.60	40	8	£27.41	£24.96
43ABT 5-15	43	68.44	17H	67.20	40	8	£28.21	£25.69
44ABT 5-15	44	70.04	18H	68.80	40	8	£29.01	£26.36
45ABT 5-15	45	71.64	18H	70.40	40	8	£29.84	£27.13
46ABT 5-15	46	73.24	18H	72.00	40	8	£30.61	£27.88
47ABT 5-15	47	74.79	19H	73.55	40	8	£31.41	£28.58

12.72



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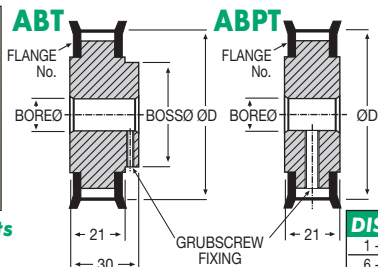
Reduced Backlash Timing Pulleys *Materials*

5mm Pitch : 16mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



To suit AT5 Belts



Other number of teeth available on request.

ALL PULLEYS FLANGED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 5mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
20ABT 5-21	20	31.84	20XL	30.60	20	6	£20.24	£18.42
21ABT 5-21	21	33.44	20XL	32.20	20	6	£20.84	£18.98
22ABT 5-21	22	34.99	21XL	33.75	20	6	£21.39	£19.42
23ABT 5-21	23	36.59	22XL	35.35	20	6	£22.00	£19.97
24ABT 5-21	24	38.19	24XL	36.95	25	6	£22.51	£20.55
25ABT 5-21	25	39.79	24XL	38.55	25	6	£23.12	£21.01
26ABT 5-21	26	41.39	24XL	40.15	25	6	£23.79	£21.61
27ABT 5-21	27	42.99	26XL	41.75	25	6	£24.31	£22.11
28ABT 5-21	28	44.59	26XL	43.35	25	6	£24.88	£22.69
29ABT 5-21	29	46.14	28XL	44.90	25	6	£25.42	£23.16
30ABT 5-21	30	47.74	28XL	46.50	30	8	£26.04	£23.71
31ABT 5-21	31	49.34	30XL	48.10	30	8	£26.47	£24.24
32ABT 5-21	32	50.94	16L	49.70	30	8	£27.25	£24.74
33ABT 5-21	33	52.54	17L	51.30	30	8	£27.79	£25.33
34ABT 5-21	34	54.14	14H	52.90	30	8	£28.39	£25.84
35ABT 5-21	35	55.69	14H	54.45	30	8	£28.98	£26.35
36ABT 5-21	36	57.29	14H	56.05	30	8	£29.60	£26.89
37ABT 5-21	37	58.89	15H	57.65	40	8	£30.20	£27.46
38ABT 5-21	38	60.49	15H	59.25	40	8	£30.81	£28.04
39ABT 5-21	39	62.09	16H	60.85	40	8	£31.54	£28.66
40ABT 5-21	40	63.69	16H	62.45	40	8	£32.15	£29.27
41ABT 5-21	41	65.24	17H	64.00	40	8	£32.85	£29.89
42ABT 5-21	42	66.84	17H	65.60	40	8	£33.47	£30.44
43ABT 5-21	43	68.44	17H	67.20	40	8	£34.19	£31.09
44ABT 5-21	44	70.04	18H	68.80	40	8	£34.77	£31.62
45ABT 5-21	45	71.64	18H	70.40	40	8	£35.44	£32.28
46ABT 5-21	46	73.24	18H	72.00	40	8	£36.06	£32.85
47ABT 5-21	47	74.79	19H	73.55	40	8	£36.74	£33.43

12.74



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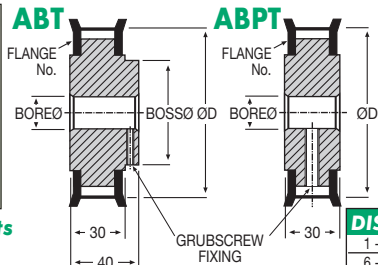
Reduced Backlash Timing Pulleys *Materials*

5mm Pitch : 25mm Wide Belt

STD : Aluminium with Steel
or Aluminium Flanges



To suit AT5 Belts



Other number of teeth available on request.

ALL PULLEYS FLANGED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 5mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
20ABT 5-30	20	31.84	20XL	30.60	20	6	£22.45	£20.46
21ABT 5-30	21	33.44	20XL	32.20	20	6	£23.12	£21.01
22ABT 5-30	22	34.99	21XL	33.75	20	6	£23.83	£21.62
23ABT 5-30	23	36.59	22XL	35.35	20	6	£24.46	£22.29
24ABT 5-30	24	38.19	24XL	36.95	25	6	£25.18	£22.85
25ABT 5-30	25	39.79	24XL	38.55	25	6	£25.86	£23.56
26ABT 5-30	26	41.39	24XL	40.15	25	6	£26.55	£24.16
27ABT 5-30	27	42.99	26XL	41.75	25	6	£27.25	£24.74
28ABT 5-30	28	44.59	26XL	43.35	25	6	£27.89	£25.39
29ABT 5-30	29	46.14	28XL	44.90	25	6	£28.58	£25.97
30ABT 5-30	30	47.74	28XL	46.50	30	8	£29.27	£26.57
31ABT 5-30	31	49.34	30XL	48.10	30	8	£29.93	£27.25
32ABT 5-30	32	50.94	16L	49.70	30	8	£30.57	£27.79
33ABT 5-30	33	52.54	17L	51.30	30	8	£31.26	£28.48
34ABT 5-30	34	54.14	14H	52.90	30	8	£31.93	£29.05
35ABT 5-30	35	55.69	14H	54.45	30	8	£32.64	£29.68
36ABT 5-30	36	57.29	14H	56.05	30	8	£33.31	£30.32
37ABT 5-30	37	58.89	15H	57.65	40	8	£33.88	£30.79
38ABT 5-30	38	60.49	15H	59.25	40	8	£34.52	£31.41
39ABT 5-30	39	62.09	16H	60.85	40	8	£35.10	£31.93
40ABT 5-30	40	63.69	16H	62.45	40	8	£35.70	£32.45
41ABT 5-30	41	65.24	17H	64.00	40	8	£36.36	£33.07
42ABT 5-30	42	66.84	17H	65.60	40	8	£36.95	£33.62
43ABT 5-30	43	68.44	17H	67.20	40	8	£37.51	£34.19
44ABT 5-30	44	70.04	18H	68.80	40	8	£38.14	£34.72
45ABT 5-30	45	71.64	18H	70.40	40	8	£38.80	£35.28
46ABT 5-30	46	73.24	18H	72.00	40	8	£39.36	£35.86
47ABT 5-30	47	74.79	19H	73.55	40	8	£39.95	£36.43

12.76



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PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
48ABT 5-30	48	76.39	19H	75.15	40	8	£40.59	£36.95
49ABT 5-30	49	77.99	19H	76.75	40	8	£41.23	£37.49
50ABT 5-30	50	79.59	20H	78.35	60	10	£41.87	£38.05
51ABT 5-30	51	81.19	21H	79.95	60	10	£42.46	£38.64
52ABT 5-30	52	82.79	21H	81.55	60	10	£43.03	£39.18
53ABT 5-30	53	84.39	21H	83.15	60	10	£43.65	£39.72
54ABT 5-30	54	85.94	22H	84.70	60	10	£44.27	£40.25
55ABT 5-30	55	87.54	22H	86.30	60	10	£44.89	£40.84
56ABT 5-30	56	89.14	22H	87.90	60	10	£45.47	£41.34
57ABT 5-30	57	90.74	23H	89.50	60	10	£46.08	£42.18
58ABT 5-30	58	92.34	23H	91.10	60	10	£46.69	£42.50
59ABT 5-30	59	93.94	24H	92.70	60	10	£47.25	£43.00
60ABT 5-30	60	95.49	24H	94.25	60	10	£49.19	£44.70
61ABT 5-30	61	97.09	24H	95.85	60	10	£51.08	£46.50
62ABT 5-30	62	98.69	25H	97.45	60	10	£53.01	£48.21
63ABT 5-30	63	100.29	25H	99.05	60	10	£54.90	£49.98
64ABT 5-30	64	101.89	26H	100.65	60	10	£56.88	£51.70
65ABT 5-30	65	103.49	26H	102.25	60	10	£58.81	£53.45
66ABT 5-30	66	105.04	26H	103.80	60	10	£60.72	£55.20
67ABT 5-30	67	106.64	26H	105.40	60	10	£62.58	£56.91
68ABT 5-30	68	108.24	27H	107.00	60	10	£64.51	£57.96
69ABT 5-30	69	109.84	27H	108.60	60	10	£66.39	£60.42
70ABT 5-30	70	111.44	28H	110.20	60	10	£68.27	£62.11
71ABT 5-30	71	113.04	28H	111.80	60	10	£70.23	£63.87
72ABT 5-30	72	114.59	28H	113.35	60	10	£72.13	£65.57
73ABT 5-30	73	116.19	30H	114.95	60	10	£74.01	£67.37
74ABT 5-30	74	117.79	30H	116.55	60	10	£75.95	£69.14
75ABT 5-30	75	119.39	30H	118.15	60	10	£77.84	£70.86
76ABT 5-30	76	120.99	30H	119.75	60	10	£79.81	£72.61
77ABT 5-30	77	122.59	31H	121.35	60	10	£81.69	£74.36
78ABT 5-30	78	124.19	31H	122.95	60	10	£83.58	£76.09
79ABT 5-30	79	125.74	31H	124.50	60	10	£85.51	£77.79
80ABT 5-30	80	127.34	32H	126.10	60	10	£87.41	£79.49
81ABT 5-30	81	128.94	32H	127.70	60	10	£89.33	£81.30
82ABT 5-30	82	130.54	33H	129.30	60	10	£91.22	£83.03
83ABT 5-30	83	132.14	33H	130.90	60	10	£93.14	£84.75
84ABT 5-30	84	133.74	33H	132.50	60	10	£95.04	£86.47

Pulleys & Belts

PITCH 5mm

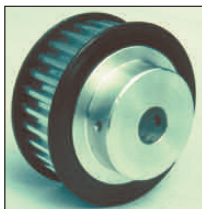
'Never Knowingly Outpriced'



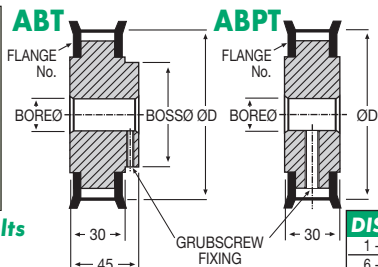
Reduced Backlash Timing Pulleys *Materials*

10mm Pitch : 25mm Wide Belt

STD : Mild Steel (En202) with Steel Flanges



To suit AT10 Belts



Other number of teeth available on request.

ALL PULLEYS FLANGED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 10mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
15ABT 10-30	15	47.75	16L	45.90	35	10	£32.70	£24.02
16ABT 10-30	16	50.93	16L	49.10	35	10	£33.82	£26.00
17ABT 10-30	17	54.11	14H	52.25	40	10	£35.51	£27.08
18ABT 10-30	18	57.30	14H	55.45	40	10	£36.74	£28.20
19ABT 10-30	19	60.48	15H	58.65	40	10	£38.06	£29.28
20ABT 10-30	20	63.66	16H	61.80	40	10	£39.27	£31.33
21ABT 10-30	21	66.85	17H	65.00	40	12	£41.17	£32.38
22ABT 10-30	22	70.03	17H	68.20	50	12	£44.81	£36.72
23ABT 10-30	23	73.21	18H	71.35	50	12	£45.92	£37.77
24ABT 10-30	24	76.39	19H	74.55	50	12	£47.19	£38.85
25ABT 10-30	25	79.58	20H	77.75	50	12	£49.27	£40.87
26ABT 10-30	26	82.76	21H	80.90	50	12	£50.98	£42.87
27ABT 10-30	27	85.94	21H	84.10	50	12	£53.48	£45.73
28ABT 10-30	28	89.13	22H	87.25	50	12	£54.70	£48.21
29ABT 10-30	29	92.31	23H	90.45	50	12	£56.07	£49.54
30ABT 10-30	30	95.49	24H	93.65	50	12	£59.38	£52.31
31ABT 10-30	31	98.68	24H	96.80	50	12	£61.00	£55.84
32ABT 10-30	32	101.86	25H	100.00	60	12	£63.00	£56.88
33ABT 10-30	33	105.04	26H	103.20	60	12	£64.59	£57.82
34ABT 10-30	34	108.23	26H	106.35	60	12	£66.37	£59.52
35ABT 10-30	35	111.41	27H	109.55	60	12	£67.48	£60.27
36ABT 10-30	36	114.59	28H	112.75	60	12	£68.76	£61.09
37ABT 10-30	37	117.77	30H	115.90	60	15	£69.58	£61.82
38ABT 10-30	38	120.96	30H	119.10	60	15	£70.87	£63.87
39ABT 10-30	39	124.14	31H	122.30	60	15	£73.53	£65.20
40ABT 10-30	40	127.32	31H	125.45	75	15	£75.48	£66.45
41ABT 10-30	41	130.51	32H	128.65	75	15	£78.85	£68.42
42ABT 10-30	42	133.69	33H	131.85	75	15	£80.17	£70.23

12.78



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PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
43ABT 10-30	43	136.87	34H	135.00	75	15	£81.77	£72.20
44ABT 10-30	44	140.06	36H	138.20	75	15	£82.82	£73.09
45ABT 10-30	45	143.24	36H	141.40	75	15	£83.40	£77.89
46ABT 10-30	46	146.42	36H	144.45	75	15	£91.71	£78.71
47ABT 10-30	47	149.61	38H	147.75	75	15	£94.53	£79.38
48ABT 10-30	48	152.79	38H	150.95	75	15	£95.92	£80.17
49ABT 10-30	49	155.97	40H	154.10	75	15	£98.19	£81.77
50ABT 10-30	50	159.15	40H	157.30	75	15	£106.23	£92.18
51ABT 10-30	51	162.34	42H	160.50	100	15	£111.97	£97.69
52ABT 10-30	52	165.52	42H	163.65	100	15	£120.51	£113.73
53ABT 10-30	53	168.70	44H	166.85	100	15	£130.42	£121.48
54ABT 10-30	54	171.89	44H	170.05	100	15	£148.95	£125.49
55ABT 10-30	55	175.07	44H	173.20	100	15	£150.19	£129.43

Pulleys & Belts
PITCH 10mm

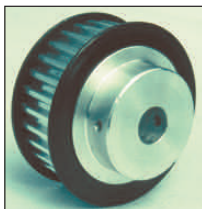
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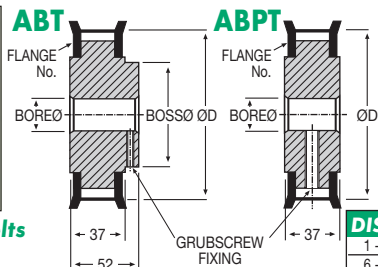
Reduced Backlash Timing Pulleys *Materials*

10mm Pitch : 32mm Wide Belt

STD : Mild Steel (En202) with Steel Flanges



To suit AT10 Belts



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Other number of teeth available on request.

ALL PULLEYS FLANGED

Pulleys & Belts PITCH 10mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
15ABT 10-37	15	47.75	16L	45.90	35	10	£34.72	£28.20
16ABT 10-37	16	50.93	16L	49.10	35	10	£36.81	£33.16
17ABT 10-37	17	54.11	14H	52.25	40	10	£38.96	£37.15
18ABT 10-37	18	57.30	14H	55.45	40	10	£41.09	£38.16
19ABT 10-37	19	60.48	15H	58.65	40	10	£43.49	£38.89
20ABT 10-37	20	63.66	16H	61.80	40	10	£45.08	£41.70
21ABT 10-37	21	66.85	17H	65.00	40	12	£46.32	£43.05
22ABT 10-37	22	70.03	17H	68.20	50	12	£48.17	£44.38
23ABT 10-37	23	73.21	18H	71.35	50	12	£49.54	£45.68
24ABT 10-37	24	76.39	19H	74.55	50	12	£51.70	£46.89
25ABT 10-37	25	79.58	20H	77.75	50	12	£52.66	£48.21
26ABT 10-37	26	82.76	21H	80.90	50	12	£55.76	£50.82
27ABT 10-37	27	85.94	21H	84.10	50	12	£59.99	£53.23
28ABT 10-37	28	89.13	22H	87.25	50	12	£61.47	£56.32
29ABT 10-37	29	92.31	23H	90.45	50	12	£63.14	£59.38
30ABT 10-37	30	95.49	24H	93.65	50	12	£65.73	£60.27
31ABT 10-37	31	98.68	24H	96.80	50	12	£68.09	£61.20
32ABT 10-37	32	101.86	25H	100.00	60	12	£71.02	£65.57
33ABT 10-37	33	105.04	26H	103.20	60	12	£75.48	£66.56
34ABT 10-37	34	108.23	26H	106.35	60	12	£78.82	£69.19
35ABT 10-37	35	111.41	27H	109.55	60	12	£81.43	£71.85
36ABT 10-37	36	114.59	28H	112.75	60	12	£86.54	£77.18
37ABT 10-37	37	117.77	30H	115.90	60	15	£88.54	£83.57
38ABT 10-37	38	120.96	30H	119.10	60	15	£90.52	£86.73
39ABT 10-37	39	124.14	31H	122.30	60	15	£91.83	£88.34
40ABT 10-37	40	127.32	31H	125.45	75	15	£92.62	£89.93
41ABT 10-37	41	130.51	32H	128.65	75	15	£93.82	£91.49
42ABT 10-37	42	133.69	33H	131.85	75	15	£96.14	£93.09

12.80



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PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
43ABT 10-37	43	136.87	34H	135.00	75	15	£104.82	£94.66
44ABT 10-37	44	140.06	36H	138.20	75	15	£117.63	£100.00
45ABT 10-37	45	143.24	36H	141.40	75	15	£137.96	£105.36
46ABT 10-37	46	146.42	36H	144.45	75	15	£139.18	£106.98
47ABT 10-37	47	149.61	38H	147.75	75	15	£140.28	£108.53
48ABT 10-37	48	152.79	38H	150.95	75	15	£141.84	£110.13
49ABT 10-37	49	155.97	40H	154.10	75	15	£148.29	£113.35
50ABT 10-37	50	159.15	40H	157.30	75	15	£150.32	£121.88
51ABT 10-37	51	162.34	42H	160.50	100	15	£162.85	£134.67
52ABT 10-37	52	165.52	42H	163.65	100	15	£164.44	£138.03
53ABT 10-37	53	168.70	44H	166.85	100	15	£170.83	£141.14
54ABT 10-37	54	171.89	44H	170.05	100	15	£180.30	£145.04
55ABT 10-37	55	175.07	44H	173.20	100	15	£185.42	£146.58

Pulleys & Belts
PITCH 10mm

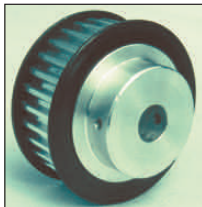
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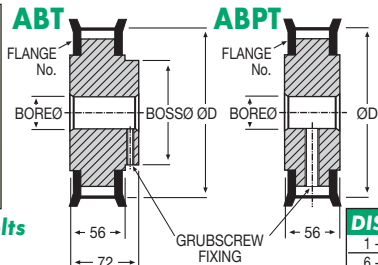
Reduced Backlash Timing Pulleys *Materials*

10mm Pitch : 50mm Wide Belt

STD : Mild Steel (En202) with Steel Flanges



To suit AT10 Belts



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Other number of teeth available on request.

ALL PULLEYS FLANGED

Pulleys & Belts PITCH 10mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
15ABT 10-56	15	47.75	16L	45.90	35	10	£45.89	£36.85
16ABT 10-56	16	50.93	16L	49.10	35	10	£45.93	£40.48
17ABT 10-56	17	54.11	14H	52.25	40	10	£46.05	£40.56
18ABT 10-56	18	57.30	14H	55.45	40	10	£46.15	£40.59
19ABT 10-56	19	60.48	15H	58.65	40	10	£47.51	£42.34
20ABT 10-56	20	63.66	16H	61.80	40	10	£50.59	£45.38
21ABT 10-56	21	66.85	17H	65.00	40	12	£55.33	£49.36
22ABT 10-56	22	70.03	17H	68.20	40	12	£60.42	£52.47
23ABT 10-56	23	73.21	18H	71.35	50	12	£63.57	£56.59
24ABT 10-56	24	76.39	19H	74.55	50	12	£68.23	£61.09
25ABT 10-56	25	79.58	20H	77.75	50	12	£71.19	£63.09
26ABT 10-56	26	82.76	21H	80.90	50	12	£74.14	£65.56
27ABT 10-56	27	85.94	21H	84.10	50	12	£76.92	£65.75
28ABT 10-56	28	89.13	22H	87.25	50	12	£78.04	£65.92
29ABT 10-56	29	92.31	23H	90.45	50	12	£81.32	£68.57
30ABT 10-56	30	95.49	24H	93.65	50	12	£84.14	£73.70
31ABT 10-56	31	98.68	24H	96.80	50	12	£87.86	£77.98
32ABT 10-56	32	101.86	25H	100.00	60	12	£89.63	£79.43
33ABT 10-56	33	105.04	26H	103.20	60	12	£91.44	£80.97
34ABT 10-56	34	108.23	26H	106.35	60	12	£93.28	£82.67
35ABT 10-56	35	111.41	27H	109.55	60	12	£95.85	£85.37
36ABT 10-56	36	114.59	28H	112.75	60	12	£98.91	£86.97
37ABT 10-56	37	117.77	30H	115.90	60	15	£103.32	£89.93
38ABT 10-56	38	120.96	30H	119.10	60	15	£107.20	£92.94
39ABT 10-56	39	124.14	31H	122.30	60	15	£108.46	£93.73
40ABT 10-56	40	127.32	31H	125.45	75	15	£113.04	£97.19
41ABT 10-56	41	130.51	32H	128.65	75	15	£115.03	£98.91
42ABT 10-56	42	133.69	33H	131.85	75	15	£122.51	£104.07

12.82



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PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
43ABT 10-56	43	136.87	34H	135.00	75	15	£129.68	£109.33
44ABT 10-56	44	140.06	36H	138.20	75	15	£132.91	£111.45
45ABT 10-56	45	143.24	36H	141.40	75	15	£137.41	£115.87
46ABT 10-56	46	146.42	36H	144.55	75	15	£148.37	£119.81
47ABT 10-56	47	149.61	38H	147.75	75	15	£159.40	£124.75
48ABT 10-56	48	152.79	38H	150.95	75	15	£165.38	£130.69
49ABT 10-56	49	155.97	40H	154.10	75	15	£177.75	£139.13
50ABT 10-56	50	159.15	40H	157.30	75	15	£180.67	£140.15
51ABT 10-56	51	162.34	42H	160.50	100	15	£183.41	£142.91
52ABT 10-56	52	165.52	42H	163.65	100	15	£193.67	£145.68
53ABT 10-56	53	168.70	44H	166.85	100	15	£196.86	£145.81
54ABT 10-56	54	171.89	44H	170.05	100	15	£202.57	£148.95
55ABT 10-56	55	175.07	44H	173.20	100	15	£207.65	£150.60

Pulleys & Belts

PITCH 10mm

'Never Knowingly Outpriced'



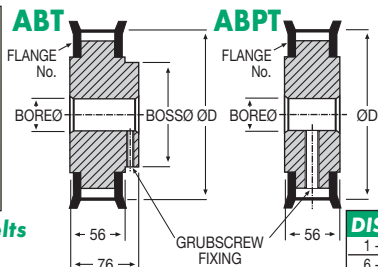
Reduced Backlash Timing Pulleys *Materials*

20mm Pitch : 50mm Wide Belt

STD : Mild Steel (En202) with Steel Flanges



To suit AT20 Belts



Other number of teeth available on request.

PULLEYS FLANGED WHERE SPECIFIED

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pulleys & Belts PITCH 20mm

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
20ABT 20-56	20	127.31	31H	124.45	75	15	£122.82	£105.66
21ABT 20-56	21	133.71	33H	130.85	75	15	£133.19	£113.09
22ABT 20-56	22	140.06	36H	137.20	75	15	£138.67	£116.27
23ABT 20-56	23	146.41	36H	143.55	75	15	£154.81	£125.01
24ABT 20-56	24	152.81	38H	149.95	75	15	£172.56	£136.36
25ABT 20-56	25	159.16	40H	156.30	75	15	£180.66	£140.13
26ABT 20-56	26	165.51	42H	162.65	100	20	£183.41	£142.90
27ABT 20-56	27	171.91	42H	169.05	100	20	£202.56	£148.94
28ABT 20-56	28	178.26	44H	175.40	100	20	£226.47	£156.57
29ABT 20-56	29	184.61	46H	181.75	100	20	£232.94	£163.02
30ABT 20-56	30	191.01	48H	188.15	100	20	£239.38	£175.79
31ABT 20-56	31	197.36	48H	194.50	100	20	£243.54	£189.17
32ABT 20-56	32	203.71	-	200.85	100	20	£246.34	£197.66
33ABT 20-56	33	210.11	-	207.25	100	20	£257.32	£213.03

'Never Knowingly Outpriced'

12.84

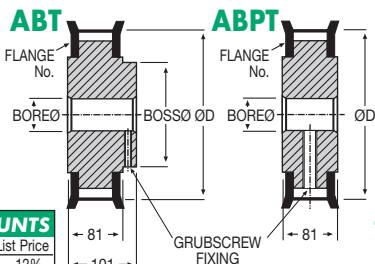


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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Reduced Backlash Timing Pulleys**

STD : Mild Steel (En202) with
Steel Flanges

20mm Pitch : 75mm Wide Belt



To suit AT20 Belts

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Other number of teeth available on request.

PULLEYS FLANGED WHERE SPECIFIED

PART NUMBER	Teeth	PCD mm	Flange No.	ØD mm	Boss Ø mm	Bore Ø mm	PRICE EACH 1-5	
							ABT	ABPT
20ABT 20-81	20	127.31	31H	124.45	75	15	£163.39	£140.53
21ABT 20-81	21	133.71	33H	130.85	75	15	£173.12	£147.10
22ABT 20-81	22	140.06	36H	137.20	75	15	£180.30	£154.69
23ABT 20-81	23	146.41	36H	143.55	75	15	£198.17	£162.55
24ABT 20-81	24	152.81	38H	149.95	75	15	£215.73	£170.48
25ABT 20-81	25	159.16	40H	156.30	75	15	£225.82	£175.18
26ABT 20-81	26	165.51	42H	162.65	100	20	£229.26	£178.66
27ABT 20-81	27	171.91	42H	169.05	100	20	£254.96	£186.17
28ABT 20-81	28	178.26	44H	175.40	100	20	£283.09	£195.73
29ABT 20-81	29	184.61	46H	181.75	100	20	£291.21	£203.81
30ABT 20-81	30	191.01	48H	188.15	100	20	£299.21	£219.77
31ABT 20-81	31	197.36	48H	194.50	100	20	£304.43	£236.49
32ABT 20-81	32	203.71	-	200.85	100	20	£307.89	£247.10
33ABT 20-81	33	210.11	-	207.25	100	20	£321.64	£266.33

Pulleys & Belts

PITCH 20mm

'Never Knowingly Outpriced'

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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12.85

Timing Pulley Flanges

Materials

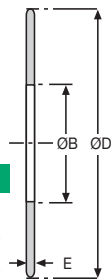
X, Y, WX, WY

STD : Aluminium



Standard sizes for timing pulleys only.

Alum.



PART NUMBER	ØB	ØD	E	Material	PRICE EACH
10T2.5X	6.00	13.00	1.00	Aluminium	£4.16
13T2.5X	6.00	16.00	1.00	Aluminium	£4.32
16T2.5X	8.00	18.00	1.00	Aluminium	£4.44
19T2.5X	8.00	20.00	1.00	Aluminium	£4.59
31T2.5X	10.00	18.00	1.00	Aluminium	£4.75
32T2.5X	12.00	20.00	1.00	Aluminium	£4.89
10T2.5Y	6.00	13.00	8.50	Aluminium	£12.57
13T2.5Y	6.00	16.00	8.50	Aluminium	£13.09
16T2.5Y	8.00	18.00	8.50	Aluminium	£13.54
19T2.5Y	8.00	20.00	8.50	Aluminium	£13.97
31T2.5Y	10.00	18.00	8.50	Aluminium	£14.39
32T2.5Y	12.00	20.00	8.50	Aluminium	£14.95
12WX	6.00	11.00	0.80	Aluminium	£4.02
15WX	8.00	13.00	0.80	Aluminium	£4.22
20WX	10.00	17.00	0.80	Aluminium	£4.38
22WX	12.00	20.00	0.80	Aluminium	£4.72
26WX	13.00	21.00	0.80	Aluminium	£4.97
30WX	16.00	24.00	0.80	Aluminium	£5.20
40WX	19.05	28.00	0.80	Aluminium	£5.49
42WX	22.00	32.00	0.80	Aluminium	£6.06
46WX	24.00	32.00	0.80	Aluminium	£6.14
48WX	26.00	34.00	0.80	Aluminium	£6.31
12WY	6.00	11.00	6.00	Aluminium	£10.19
15WY	8.00	13.00	6.00	Aluminium	£10.68
20WY	10.00	17.00	6.00	Aluminium	£11.02
22WY	12.00	20.00	6.00	Aluminium	£11.84
26WY	13.00	21.00	6.00	Aluminium	£12.57
30WY	16.00	24.00	6.00	Aluminium	£13.26
40WY	19.05	28.00	6.00	Aluminium	£13.74
42WY	22.00	32.00	6.00	Aluminium	£15.33
46WY	24.00	32.00	6.00	Aluminium	£15.42
48WY	26.00	34.00	6.00	Aluminium	£15.78

Pulleys & Belts
X, Y, WX, WY

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

12.86



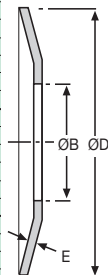
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Standard sizes for timing pulleys only.

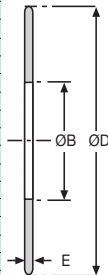
PART NUMBER	ØB	ØD	E	Material (as available)	Also used on	PRICE EACH
11XL	12.70	23.62	1.22	Aluminium	-	£6.71
12XL	14.27	25.15	1.22	Aluminium	-	£6.71
14XL	17.44	28.44	1.22	Aluminium	-	£6.71
15XL	19.05	29.97	1.22	Aluminium	-	£6.71
16XL	20.63	31.74	1.22	Aluminium	-	£6.71
18XL	22.22	34.80	1.22	Aluminium	-	£6.71
20XL	25.40	38.10	1.22	Aluminium	-	£6.71
21XL	26.97	39.68	1.22	Aluminium	-	£6.71
22XL	28.57	41.28	1.22	Aluminium	-	£6.71
24XL	31.75	44.70	1.22	Aluminium	-	£6.71
26XL	36.50	49.25	1.22	Aluminium	-	£6.71
28XL	38.10	51.05	1.22	Aluminium	-	£6.71
30XL	41.40	54.36	1.22	Aluminium	-	£8.19
10L	22.23	34.93	1.63	Aluminium	-	£7.32
12L	28.57	41.28	1.63	Aluminium	-	£7.32
14L	33.33	49.20	1.63	Aluminium	-	£7.32
15L	38.10	52.39	1.63	Aluminium	-	£7.32
16L	41.27	55.56	1.63	Aluminium	-	£7.32
17L	42.86	57.15	1.63	Aluminium	-	£7.32
14H	44.45	61.91	1.63	Steel	18L	£7.88
15H	47.62	66.68	1.63	Steel	19L/20L	£7.88
16H	50.80	69.85	1.63	Steel	21L	£7.88
17H	55.56	74.61	1.63	Steel	22L	£8.53
18H	60.32	79.38	1.63	Steel	23L/24L	£8.53
19H	63.50	82.55	1.63	Steel	25L	£8.53
20H	66.67	85.73	1.63	Steel	26L	£9.28
21H	71.43	90.49	1.63	Steel	27L/38L	£9.28
22H	76.20	95.25	1.63	Steel	29L	£9.28
23H	79.37	98.43	1.63	Steel	30L	£9.28
24H	82.55	103.19	1.63	Steel	32L	£9.28
25H	85.72	106.36	1.63	Steel	33L	£9.28
26H	88.91	111.13	1.63	Steel	34L	£9.28
27H	92.07	114.30	1.63	Steel	36L	£9.28
28H	96.83	119.06	1.63	Steel	37L	£12.14
30H	104.77	127.00	1.63	Steel	40L	£12.14
31H	111.12	131.76	1.63	Steel	-	£15.20
32H	112.71	134.94	1.63	Steel	42L/43L	£12.14
33H	120.65	139.70	1.63	Steel	44L	£12.14
34H	120.65	142.88	1.63	Steel	45L	£13.74
36H	127.00	150.81	1.63	Steel	48L	£13.74
38H	136.52	158.75	1.63	Steel	-	£13.74
40H	146.05	168.28	1.63	Steel	53L	£13.74
42H	152.40	176.21	1.63	Steel	-	£13.74
44H	158.75	184.15	1.63	Steel	58L/59L	£13.74
46H	168.28	187.33	1.63	Steel	60L	£13.74
48H	174.62	200.02	1.63	Steel	64L	£20.42



Steel



Alum.



Pulleys & Belts XL, L, H



Timing Belts

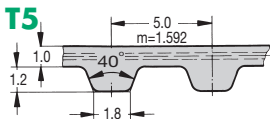
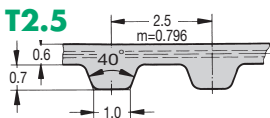
Materials

2.5 mm & 5 mm Pitch

STD : Polyurethane Belt Body
with Steel Tension Members



SINGLE SIDED BELT



- COMPACT
 - HIGHLY STABLE
 - MAINTENANCE FREE
 - COMPLY WITH DIN 7721
 - LOW ELONGATION
 - OIL RESISTANT
 - LOW NOISE
- * Non-standard belt length

RATING

TEMPERATURE RANGE
FROM 0° TO +80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			4 WIDE	6 WIDE	10 WIDE
T 2.5/55	55.00	22	£9.77	£9.77	£12.65
T 2.5/120	120.00	48	£10.79	£10.79	£13.00
T 2.5/145	145.00	58	£10.82	£10.82	£13.71
T 2.5/160	160.00	64	£10.97	£10.97	£14.08
T 2.5/177	177.50	71	£11.18	£11.25	£14.29
T 2.5/180	180.00	72	£11.20	£11.20	£14.32
T 2.5/182	182.50	73	£11.25	£11.25	£14.36
T 2.5/200	200.00	80	£11.30	£11.30	£14.72
T 2.5/210*	210.00	84	£11.66	£11.66	£15.15
T 2.5/230	230.00	92	£11.83	£11.83	£15.47
T 2.5/245	245.00	98	£11.90	£11.90	£15.83
T 2.5/265	265.00	106	£12.07	£12.07	£15.87
T 2.5/285	285.00	114	£12.11	£12.11	£16.15
T 2.5/290	290.00	116	£12.24	£12.24	£16.45
T 2.5/317	317.50	127	£12.56	£12.56	£16.70
T 2.5/330	330.00	132	£12.68	£12.68	£16.93
T 2.5/380	380.00	152	£13.00	£13.00	£17.61
T 2.5/420	420.00	168	£13.32	£13.32	£18.23
T 2.5/480	480.00	192	£13.93	£13.93	£19.04
T 2.5/500	500.00	200	£14.08	£14.08	£19.59
T 2.5/540	540.00	216	£16.61	£16.61	£23.04
T 2.5/600	600.00	240	£18.25	£18.25	£25.76
T 2.5/620	620.00	248	£18.38	£18.38	£25.84
T 2.5/650	650.00	260	£18.61	£18.61	£26.05
T 2.5/780	780.00	312	£21.37	£21.37	£28.48
T 2.5/950	950.00	380	£23.68	£23.68	£33.61
T 2.5/1300	1300.00	520	£26.86	£26.86	£37.98

Pulleys & Belts PITCH 2.5

12.88



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Timing Belts

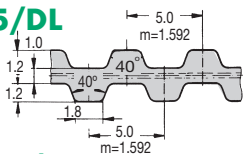
Materials

5mm & 10mm Pitch

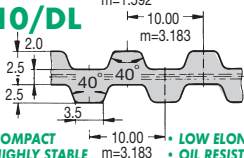
STD : Polyurethane Belt Body
with Steel Tension Members



T5/DL



T10/DL



RATING

TEMPERATURE RANGE
FROM 0° TO +80°C
TEMPORARILY HIGHER (+120°C)
T5 BELT SPEED UP TO 80M/S
T10 BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

DOUBLE SIDED BELT



- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- COMPLY WITH DIN 7721
- LOW ELONGATION
- OIL RESISTANT
- LOW NOISE

For minimum roller and pulley diameters see tech pages.

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5			
			6 WIDE	10 WIDE	16 WIDE	25 WIDE
T5 DOUBLE SIDED						
T 5/150 DL	150	30	£12.50	£15.37	£20.96	£28.76
T 5/260 DL	260	52	£13.05	£16.44	£22.26	£31.17
T 5/410 DL	410	82	£16.53	£21.42	£28.42	£39.47
T 5/460 DL	460	92	£16.85	£22.02	£29.26	£40.93
T 5/515 DL	515	103	£17.18	£22.74	£29.44	£42.17
T 5/525 DL	525	105	£17.59	£23.09	£30.72	£43.14
T 5/590 DL	590	118	£18.25	£24.26	£32.88	£45.02
T 5/620 DL	620	124	£18.78	£24.78	£34.55	£48.21
T 5/625 DL	625	125	£19.33	£25.31	£36.60	£50.30
T 5/750 DL	750	150	£20.20	£26.36	£39.35	£55.60
T 5/815 DL	815	163	£21.52	£29.85	£41.90	£59.56
T 5/860 DL	860	172	£22.26	£31.16	£42.24	£62.07
T 5/940 DL	940	188	£25.07	£33.26	£46.21	£70.02
T 5/1100 DL	1100	220	£27.98	£35.89	£52.29	£75.64
T 5/1325 DL	1325	265	£28.76	£36.54	£52.59	£75.95
T10 DOUBLE SIDED			16 WIDE	25 WIDE	32 WIDE	50 WIDE
T 10/260 DL	260	26	£29.85	£41.52	£53.41	£76.65
T 10/530 DL	530	53	£39.01	£50.64	£67.05	£96.65
T 10/630 DL	630	63	£43.14	£55.33	£73.20	£103.65
T 10/660 DL	660	66	£44.16	£57.35	£75.86	£106.38
T 10/720 DL	720	72	£44.72	£61.07	£80.57	£114.83
T 10/840 DL	840	84	£53.10	£72.88	£91.98	£128.93
T 10/980 DL	980	98	£60.38	£85.36	£108.90	£153.87
T 10/1210 DL	1210	121	£69.23	£99.16	£132.54	£194.70
T 10/1240 DL	1240	124	£70.92	£101.16	£134.81	£198.45
T 10/1250 DL	1250	125	£74.98	£102.16	£136.32	£199.46
T 10/1320 DL	1320	132	£75.13	£113.04	£142.62	£207.93

Pulleys & Belts PITCH 5,10

12.90



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PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5			
			16 WIDE	25 WIDE	32 WIDE	50 WIDE
T 10/1350 DL	1350	135	£76.65	£115.64	£145.44	£211.39
T 10/1420 DL	1420	142	£83.29	£122.51	£154.72	£224.64
T 10/1610 DL	1610	161	£93.31	£134.38	£170.25	£243.14
T 10/1880 DL	1880	188	£106.38	£153.87	£189.15	£297.54
T10 SINGLE SIDED			16 WIDE	25 WIDE	32 WIDE	50 WIDE
T 10/260	260	26	£23.84	£33.06	£42.54	£61.09
T 10/370	370	37	£27.09	£35.96	£45.90	£65.56
T 10/410	410	41	£28.13	£37.09	£47.78	£67.73
T 10/440	440	44	£28.79	£38.05	£49.18	£69.57
T 10/500	500	50	£30.38	£39.40	£51.98	£73.37
T 10/530	530	53	£31.07	£42.58	£53.43	£75.48
T 10/560	560	56	£32.29	£44.04	£54.90	£77.66
T 10/600	600	60	£32.38	£45.06	£56.77	£80.46
T 10/610	610	61	£32.55	£45.55	£57.25	£81.20
T 10/630	630	63	£34.33	£46.54	£58.46	£82.66
T 10/660	660	66	£35.31	£48.01	£60.36	£84.76
T 10/680	680	68	£36.27	£49.56	£62.38	£86.79
T 10/690	690	69	£36.31	£49.57	£62.43	£88.84
T 10/700	700	70	£36.76	£49.88	£64.34	£89.52
T 10/720	720	72	£37.56	£51.28	£65.76	£90.46
T 10/730	730	73	£38.90	£53.28	£67.33	£93.20
T 10/750	750	75	£39.69	£54.55	£69.30	£94.02
T 10/780	780	78	£39.85	£54.61	£70.15	£95.20
T 10/810	810	81	£41.03	£54.89	£72.59	£97.07
T 10/840	840	84	£42.28	£55.15	£73.37	£102.75
T 10/850	850	85	£43.34	£55.47	£74.69	£107.12
T 10/880	880	88	£43.78	£57.52	£76.47	£108.48
T 10/890	890	89	£44.30	£58.46	£77.12	£109.89
T 10/920	920	92	£45.55	£60.31	£79.72	£114.14
T 10/960	960	96	£47.03	£63.14	£82.84	£119.81
T 10/970	970	97	£47.53	£67.28	£83.81	£121.22
T 10/980	980	98	£48.01	£67.98	£84.97	£122.66
T 10/1010	1010	101	£49.57	£70.02	£87.13	£126.95
T 10/1080	1080	108	£52.30	£70.76	£93.77	£136.90
T 10/1110	1110	111	£54.89	£78.47	£98.10	£143.27
T 10/1140	1140	114	£55.04	£78.48	£98.46	£145.44
T 10/1150	1150	115	£55.26	£78.65	£99.18	£146.83
T 10/1210	1210	121	£55.55	£83.20	£103.42	£155.35
T 10/1240	1240	124	£56.58	£83.81	£105.62	£158.21
T 10/1250	1250	125	£56.77	£84.24	£106.32	£159.16
T 10/1300	1300	130	£59.13	£84.51	£109.89	£163.93
T 10/1320	1320	132	£59.85	£85.69	£111.29	£165.82
T 10/1350	1350	135	£62.84	£87.57	£112.02	£168.68
T 10/1390	1390	139	£62.95	£90.22	£116.23	£172.40
T 10/1400	1400	140	£63.42	£90.68	£116.93	£173.36
T 10/1420	1420	142	£64.17	£91.84	£118.04	£175.29
T 10/1450	1450	145	£70.74	£98.91	£123.24	£177.76
T 10/1460	1460	146	£70.76	£99.18	£123.45	£179.09
T 10/1500	1500	150	£70.80	£102.16	£128.12	£187.31
T 10/1560	1560	156	£72.25	£105.14	£128.82	£188.49
T 10/1610	1610	161	£76.01	£109.10	£135.73	£193.76
T 10/1750	1750	175	£78.59	£113.42	£152.28	£213.71
T 10/1780	1780	178	£80.03	£115.50	£155.87	£217.90
T 10/1880	1880	188	£87.69	£122.66	£165.82	£232.18
T 10/1960	1960	196	£89.94	£129.72	£173.50	£246.42
T 10/2250	2250	225	£116.89	£163.02	£215.73	£319.76
T 10/3100	3100	310	£158.21	£256.19	£337.96	£554.78
T 10/4780	4780	478	£204.50	£382.78	£477.18	£783.06



Timing Belts

Materials

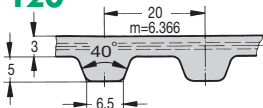
20mm Pitch

STD : Polyurethane Belt Body
with Steel Tension Members



SINGLE SIDED BELT

T20



- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- COMPLY WITH DIN 7721
- LOW ELONGATION
- OIL RESISTANT
- LOW NOISE

RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 40M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5			
			32 WIDE	50 WIDE	75 WIDE	100 WIDE
T 20/1260	1260	63	£163.70	£240.77	£400.20	£480.54
T 20/1460	1460	73	£209.35	£278.50	£469.36	£565.38
T 20/1780	1780	89	£223.88	£332.90	£558.54	£671.93
T 20/1880	1880	94	£233.59	£345.95	£580.29	£698.47
T 20/2360	2360	118	£274.83	£448.16	£678.98	£795.15
T 20/2600	2600	130	£287.72	£538.94	£748.82	£854.55
T 20/3100	3100	155	£329.84	£545.68	£836.38	£982.63
T 20/3620	3620	181	£369.83	£729.69	£1016.06	£1160.39

Pulleys & Belts PITCH 20

'Never Knowingly Outpriced'

12.92



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Polyurethane Belt Body
with Steel Tension Members

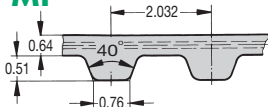
Timing Belts

0.08" Pitch

RATING

TEMPERATURE RANGE FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

MP



6.35 Wide

- LOW ELONGATION
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- HIGHLY RESISTANT TO MINERAL LUBRICATING OILS
- DIMENSIONS TO DIN 7721
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

SINGLE SIDED BELT



PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE 1-5 6.35 WIDE
MP111	111.76	55	£12.68
MP113	113.79	56	£12.69
MP121	121.92	60	£12.75
MP132	132.08	65	£12.77
MP142	142.24	70	£12.95
MP144	144.27	71	£13.01
MP162	162.56	80	£13.05
MP182	182.88	90	£13.30
MP203	203.20	100	£13.41
MP209	209.30	103	£13.71
MP213	213.36	105	£13.78
MP243	243.86	120	£14.15
MP256	256.03	126	£14.33
MP264	264.16	130	£14.50
MP284	284.48	140	£14.64
MP304	304.80	150	£14.67
MP355	355.60	175	£15.33
MP373	373.89	184	£15.76
MP449	449.07	221	£16.27
MP503	503.94	248	£16.85
MP520	520.19	256	£17.24
MP599	599.40	295	£18.40
MP731	731.52	360	£23.88
MP1178	1178.56	580	£30.58

Pulleys & Belts
PITCH 0.08"



Timing Belts

Materials

0.200" Pitch

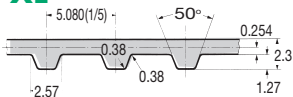
STD : Polychloroprene/Rubber Belt Body,
Glass Fibre Tension Members



SINGLE SIDED BELT



XL



RATING

TEMPERATURE RANGE
FROM 0° TO +80°C
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

Re-inforcement of Abrasion Resistant Polyamide Fabric

- NON-STRETCH
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- RESISTANT TO CERTAIN OILS
- DIMENSIONS TO DIN 5296 (B54548-1970)
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5				
			6.35mm WIDE	9.5mm WIDE	12.7mm WIDE	19.05mm WIDE	25.4mm WIDE
60XL	152.40	30	£2.04	£2.25	£2.90	£3.99	£5.31
70XL	177.80	35	£2.09	£2.41	£2.94	£4.02	£5.34
80XL	203.20	40	£2.23	£2.54	£3.04	£4.40	£5.84
90XL	228.60	45	£2.40	£2.55	£3.07	£4.70	£6.24
100XL	254.00	50	£2.50	£2.65	£3.28	£4.84	£6.49
110XL	279.40	55	£2.54	£2.87	£3.48	£4.84	£6.49
120XL	304.80	60	£2.65	£2.88	£3.60	£5.19	£6.94
130XL	330.20	65	£2.68	£3.00	£3.63	£5.19	£6.94
140XL	355.60	70	£2.71	£3.08	£3.64	£5.55	£7.42
150XL	381.00	75	£2.75	£3.14	£3.82	£5.57	£7.43
160XL	406.40	80	£2.79	£3.15	£3.85	£5.58	£7.44
170XL	431.80	85	£2.88	£3.39	£4.09	£5.59	£7.45
180XL	457.20	90	£2.94	£3.43	£4.16	£5.59	£7.45
190XL	482.60	95	£3.04	£3.46	£4.18	£5.77	£7.73
200XL	508.00	100	£3.08	£3.60	£4.36	£5.78	£7.74
210XL	533.40	105	£3.13	£3.63	£4.38	£5.81	£7.76
220XL	558.80	110	£3.28	£3.64	£4.40	£6.15	£8.27
230XL	584.20	115	£3.30	£3.82	£4.62	£6.20	£8.29
240XL	609.20	120	£3.48	£3.99	£4.79	£6.51	£8.72
250XL	635.00	125	£3.49	£4.01	£4.83	£6.61	£8.83
260XL	660.40	130	£3.53	£4.03	£4.90	£6.65	£8.86

'Never Knowingly Outpriced'

Pulleys & Belts PITCH 0.200"

12.94



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Polychloroprene/Rubber Belt Body,
Glass Fibre Tension Members

Timing Belts

0.200" Pitch

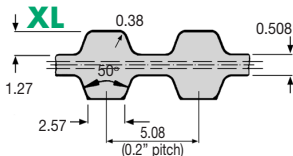
RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C

BELT SPEED UP TO 80M/S

EFFICIENCY UP TO 98%

TORQUE : SEE TECH PAGES



For minimum roller and pulley diameters see tech pages.

Re-inforcement of Abrasion Resistant Polyamide Fabric

- NON-STRETCH
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- RESISTANT TO CERTAIN OILS
- DIMENSIONS TO DIN 5296 (BS4548-1970)
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

DOUBLE SIDED BELT



PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5	
			6.5mm WIDE	9.5mm WIDE
XL DOUBLE SIDED				
120XL DL	304.80	60	£9.84	£12.39
130XL DL	330.20	65	£9.86	£12.40
140XL DL	355.60	70	£9.99	£12.50
150XL DL	381.00	75	£10.02	£12.67
160XL DL	406.40	80	£10.09	£12.76
170XL DL	431.80	85	£10.24	£12.78
180XL DL	457.20	90	£10.36	£13.01
190XL DL	482.60	95	£10.47	£13.13
200XL DL	508.00	100	£10.59	£13.30
210XL DL	533.40	105	£10.65	£13.32
220XL DL	558.80	110	£10.73	£13.41
230XL DL	584.20	115	£10.76	£13.48
240XL DL	609.20	120	£10.79	£13.59
250XL DL	635.00	125	£10.81	£13.68
260XL DL	660.40	130	£10.98	£13.75

'Never Knowingly Outpriced'

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.95

Pulleys & Belts
PITCH 0.200"

Timing Belts

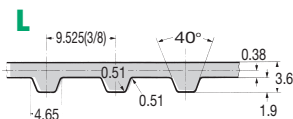
Materials

3/8" Pitch

STD : Polychloroprene/Rubber Belt Body,
Glass Fibre Tension Members



SINGLE SIDED BELT



RATING

TEMPERATURE RANGE
FROM 0° TO +80°C
BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

Re-inforcement of Abrasion Resistant Polyamide Fabric

- NON-STRETCH
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- RESISTANT TO CERTAIN OILS
- DIMENSIONS TO DIN 5296 (BS4548-1970)
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			13 WIDE	19 WIDE	25 WIDE
124L	314.33	33	£3.75	£5.47	£6.99
150L	381.00	40	£4.49	£6.31	£7.50
187L	476.25	50	£4.95	£6.96	£8.54
210L	533.40	56	£5.34	£7.72	£9.31
225L	571.50	60	£5.52	£7.82	£9.53
240L	609.60	64	£5.79	£7.88	£10.22
255L	647.70	68	£5.90	£8.02	£10.35
270L	685.80	72	£5.95	£8.52	£11.56
285L	723.90	76	£6.03	£9.08	£11.90
300L	762.00	80	£6.71	£9.48	£12.34
322L	819.15	86	£6.96	£9.86	£12.41
345L	876.30	92	£7.27	£9.93	£13.58
367L	933.45	98	£7.53	£10.31	£13.95
390L	990.60	104	£7.93	£10.87	£14.07
420L	1066.80	112	£8.45	£11.51	£15.12
450L	1143.00	120	£8.52	£12.77	£15.89
480L	1219.20	128	£8.86	£13.41	£16.73
510L	1295.40	136	£8.97	£14.47	£17.27
540L	1371.60	144	£10.21	£14.61	£19.39
600L	1524.00	160	£11.06	£15.95	£21.06

'Never Knowingly Outpriced'

Pulleys & Belts PITCH 3/8"

12.96



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Polychloroprene/Rubber Belt Body,
Glass Fibre Tension Members

Timing Belts

3/8" Pitch

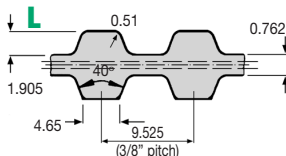
RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C

BELT SPEED UP TO 60M/S

EFFICIENCY UP TO 98%

TORQUE : SEE TECH PAGES



For minimum roller and pulley diameters see tech pages.

Re-inforcement of Abrasion Resistant Polyamide Fabric

- NON-STRETCH
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- RESISTANT TO CERTAIN OILS
- DIMENSIONS TO DIN 5296 (BS4548-1970)
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DOUBLE SIDED BELT



DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER L DOUBLE SIDED	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			13 WIDE	19 WIDE	25 WIDE
150L DL	381.00	40	£18.74	£26.24	£33.75
187L DL	476.25	50	£19.20	£26.92	£34.59
210L DL	533.40	56	£19.97	£27.88	£36.11
225L DL	571.50	60	£20.11	£28.29	£36.44
240L DL	609.60	64	£20.16	£28.66	£36.91
255L DL	647.70	68	£20.47	£28.76	£37.09
270L DL	685.80	72	£20.64	£29.07	£37.47
285L DL	723.90	76	£21.52	£31.26	£37.79
300L DL	762.00	80	£21.85	£31.49	£40.99
322L DL	819.15	86	£22.57	£32.05	£41.58
345L DL	876.30	92	£23.26	£32.67	£42.16
367L DL	933.45	98	£23.39	£33.06	£42.60
390L DL	990.60	104	£23.80	£33.61	£43.34
420L DL	1066.80	112	£25.40	£35.73	£46.05
450L DL	1143.00	120	£25.66	£36.19	£46.72
480L DL	1219.20	128	£26.00	£36.82	£47.64
510L DL	1295.40	136	£27.25	£38.26	£49.35
540L DL	1371.60	144	£29.60	£39.75	£49.93
600L DL	1524.00	160	£30.87	£42.92	£54.99

'Never Knowingly Outpriced'

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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12.97

Pulleys & Belts

PITCH 3/8"

Timing Belts

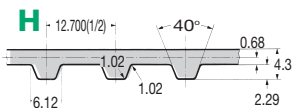
Materials

1/2" Pitch

STD : Polychloroprene/Rubber Belt Body,
Glass Fibre Tension Members



SINGLE SIDED BELT



RATING

TEMPERATURE RANGE
FROM 0° TO +80°C
BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

Re-inforcement of Abrasion Resistant Polyamide Fabric

- NON-STRETCH
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- RESISTANT TO CERTAIN OILS
- DIMENSIONS TO DIN 5296 (B54548-1970)
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			19 WIDE	25 WIDE	38 WIDE
240H	609.60	48	£8.67	£13.05	£18.65
270H	685.80	54	£10.50	£14.29	£20.42
300H	762.00	60	£11.20	£14.64	£21.96
330H	838.20	66	£11.91	£15.68	£23.54
360H	914.40	72	£13.39	£16.61	£25.03
390H	990.60	78	£13.58	£17.63	£26.55
420H	1066.80	84	£14.25	£19.61	£27.99
450H	1143.00	90	£15.87	£19.69	£29.53
480H	1219.20	96	£15.89	£21.70	£30.99
510H	1295.40	102	£16.22	£22.68	£32.32
540H	1371.60	108	£17.27	£22.76	£34.19
570H	1447.80	114	£17.87	£23.36	£36.93
600H	1524.00	120	£18.83	£23.42	£37.20
630H	1600.20	126	£19.38	£25.39	£38.05
660H	1676.40	132	£20.42	£26.68	£40.16
700H	1778.00	140	£21.39	£27.99	£42.06
750H	1905.00	150	£22.36	£29.44	£46.54
800H	2032.00	160	£25.22	£31.47	£47.25
850H	2159.00	170	£26.22	£32.70	£49.22
900H	2286.00	180	£26.55	£34.84	£52.31
1000H	2540.00	200	£29.08	£38.15	£57.25
1100H	2794.00	220	£31.47	£39.30	£62.11
1250H	3175.00	250	£35.36	£46.66	£70.01
1400H	3556.00	280	£38.56	£51.69	£77.54
1700H	4318.00	340	£46.82	£61.82	£97.68

Pulleys & Belts PITCH 1/2"

12.98



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

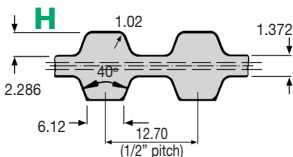
STD : Polychloroprene/Rubber Belt Body,
Glass Fibre Tension Members

Timing Belts

1/2" Pitch

RATING

TEMPERATURE RANGE FROM 0° TO + 80°C
BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES



For minimum roller and pulley diameters see tech pages.

Re-inforcement of Abrasion Resistant Polyamide Fabric

- NON-STRETCH
- LOWER INSTALLATION
- TRANSMISSION OF HIGHER TORQUE
- REDUCED INTERFERENCE AND IMPROVED MESHING CHARACTERISTICS
- RESISTANT TO CERTAIN OILS
- DIMENSIONS TO DIN 5296 (BS4548-1970)
- BETTER TOOTH JUMPING RESISTANT
- RESISTANCE TO HEAT AND OZONE
- LESS NOISE

DOUBLE SIDED BELT



DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			19 WIDE	25 WIDE	38 WIDE
H DOUBLE SIDED					
330H DL	838.20	66	£31.99	£43.93	£66.01
360H DL	914.40	72	£34.97	£49.00	£72.00
390H DL	990.60	78	£35.31	£49.17	£73.77
420H DL	1066.80	84	£38.05	£51.04	£75.56
450H DL	1143.00	90	£40.75	£51.56	£77.21
480H DL	1219.20	96	£41.67	£53.43	£80.10
510H DL	1295.40	102	£42.64	£55.33	£82.87
540H DL	1371.60	108	£45.18	£58.65	£85.48
570H DL	1447.80	114	£47.72	£60.14	£90.25
600H DL	1524.00	120	£47.99	£61.25	£92.04
630H DL	1600.20	126	£48.68	£62.19	£93.33
660H DL	1676.40	132	£49.27	£63.13	£94.72
700H DL	1778.00	140	£60.64	£82.87	£124.49
750H DL	1905.00	150	£62.07	£84.49	£126.85
800H DL	2032.00	160	£63.83	£86.13	£129.19
850H DL	2159.00	170	£64.30	£87.88	£131.93
900H DL	2286.00	180	£76.15	£102.96	£154.45
1000H DL	2540.00	200	£78.65	£105.88	£158.93
1100H DL	2794.00	220	£87.04	£109.11	£163.65
1250H DL	3175.00	250	£89.87	£112.38	£168.56
1400H DL	3556.00	280	£94.39	£118.00	£176.99
1700H DL	4318.00	340	£99.14	£123.89	£185.83

Pulleys & Belts

PITCH 1/2"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.99

Timing Belts

Materials

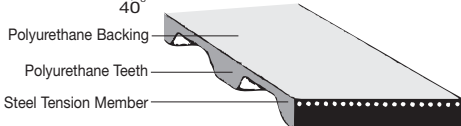
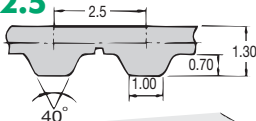
2.5mm Pitch

STD : Polyurethane Backing, Polyurethane Teeth and Steel Tension Members

RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

BT2.5



- OIL RESISTANT
- HIGH EFFICIENCY
- STEEL CORD TENSION MEMBER
- MINIMAL STRETCH
- HIGH PRECISION
- SYNCHRONOUS

SINGLE SIDED BELT



DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5					
			4mm	6mm	8mm	10mm	12mm	16mm
BT2.5/120	120.00	48	£4.21	£6.37	£7.43	£8.87	£10.36	£13.54
BT2.5/145	145.00	58	£4.32	£6.64	£7.44	£8.94	£10.42	£13.48
BT2.5/160	160.00	64	£4.41	£6.71	£7.50	£9.03	£10.44	£13.54
BT2.5/177	177.50	71	£4.49	£6.82	£7.56	£10.59	£11.35	£13.65
BT2.5/200	200.00	80	£4.72	£7.14	£7.66	£10.70	£11.84	£13.75
BT2.5/230	230.00	92	£4.85	£7.40	£7.70	£10.79	£12.29	£13.92
BT2.5/245	245.00	98	£4.90	£7.49	£7.81	£10.98	£12.44	£14.13
BT2.5/265	265.00	106	£5.06	£7.69	£7.88	£11.10	£12.78	£14.29
BT2.5/285	285.00	114	£5.20	£7.90	£8.11	£11.35	£13.28	£14.67
BT2.5/305	305.00	122	£5.29	£8.08	£8.13	£11.47	£13.39	£14.74
BT2.5/317	317.50	127	£5.48	£8.29	£8.46	£11.91	£13.75	£15.41
BT2.5/330	330.00	132	£5.52	£8.43	£8.52	£12.04	£13.95	£15.49
BT2.5/380	380.00	152	£5.55	£8.46	£8.83	£12.48	£13.99	£16.15
BT2.5/420	420.00	168	£5.72	£8.66	£8.94	£12.66	£14.36	£16.35
BT2.5/480	480.00	192	£5.79	£9.37	£9.93	£13.30	£15.51	£17.25
BT2.5/492	492.50	197	£6.21	£9.74	£10.01	£15.71	£15.82	£22.74
BT2.5/500	500.00	200	£6.66	£9.82	£10.08	£16.73	£18.98	£24.81
BT2.5/540	540.00	216	£6.81	£10.31	£11.65	£16.96	£22.68	£27.21
BT2.5/600	600.00	240	£8.96	£10.76	£13.64	£17.59	£25.11	£33.62
BT2.5/620	620.00	248	£9.32	£12.19	£14.20	£23.00	£27.02	£39.18
BT2.5/650	650.00	260	£9.68	£12.32	£14.72	£23.45	£30.58	£39.56
BT2.5/780	780.00	312	£10.79	£12.41	£16.38	£27.08	£31.93	£41.72
BT2.5/915	915.00	366	£11.10	£12.56	£19.38	£27.78	£35.51	£44.62
BT2.5/950	950.00	380	£11.77	£12.75	£20.00	£28.15	£38.55	£46.32
BT2.5/1750	1750.00	700	£27.26	£39.97	£52.67	£65.40	£78.13	£103.59

PITCH 2.5mm
Pulleys & Belts

12.100



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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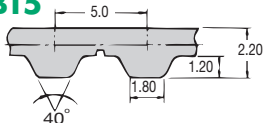
Materials

STD : Polyurethane Teeth, Steel Cord
Tension Members

Timing Belts

5mm Pitch

BT5



Polyurethane Backing

Polyurethane Teeth

Steel Tension Member

SINGLE SIDED BELT



- OIL RESISTANT
- HIGH EFFICIENCY
- HIGH PRECISION

* Non-standard belt length

RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C

TEMPORARILY HIGHER (+120°C)

BELT SPEED UP TO 80M/S

EFFICIENCY UP TO 98%

TORQUE : SEE TECH PAGES

DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5								
			6mm	8mm	10mm	12mm	16mm	20mm	25mm	32mm	
BT5/165	165	33	£5.54	£6.87	£8.19	£9.57	£12.24	£14.90	£18.24	£22.99	
BT5/185	185	37	£5.55	£6.96	£8.29	£9.67	£12.39	£15.07	£18.45	£23.20	
BT5/200	200	40	£5.63	£7.01	£8.35	£9.76	£12.48	£15.22	£18.66	£23.47	
BT5/215	215	43	£5.67	£7.05	£8.38	£9.82	£12.65	£15.39	£18.83	£23.71	
BT5/220	220	44	£5.73	£7.10	£8.47	£9.94	£12.75	£15.50	£19.03	£23.93	
BT5/225	225	45	£5.79	£7.16	£8.54	£10.02	£12.85	£15.70	£19.20	£24.20	
BT5/245	245	49	£5.81	£7.28	£8.73	£10.12	£13.00	£15.86	£19.25	£24.45	
BT5/250	250	50	£5.85	£7.34	£8.76	£10.22	£13.09	£16.04	£19.62	£24.72	
BT5/255	255	51	£5.87	£7.37	£8.78	£10.28	£13.19	£16.12	£19.73	£24.85	
BT5/260	260	52	£5.90	£7.39	£8.83	£10.31	£13.30	£16.18	£19.85	£24.97	
BT5/270	270	54	£5.91	£7.40	£9.04	£10.36	£13.32	£16.25	£19.97	£25.12	
BT5/275	275	55	£6.01	£7.44	£9.08	£10.44	£13.39	£16.38	£20.09	£25.30	
BT5/280	280	56	£6.02	£7.45	£9.16	£10.46	£13.46	£16.45	£20.16	£25.39	
BT5/295	295	59	£6.03	£7.46	£9.21	£10.47	£13.46	£16.46	£20.20	£25.43	
BT5/300	300	60	£6.04	£7.49	£9.24	£10.50	£13.48	£16.49	£20.24	£25.44	
BT5/305	305	61	£6.08	£7.50	£9.32	£10.54	£13.57	£16.55	£20.31	£25.58	
BT5/325	325	65	£6.21	£7.81	£9.37	£10.95	£13.97	£17.25	£21.15	£26.66	
BT5/330	330	66	£6.30	£7.82	£9.47	£10.98	£14.20	£17.30	£21.27	£26.80	
BT5/340	340	68	£6.31	£7.87	£9.47	£11.06	£14.26	£17.38	£21.37	£26.93	
BT5/350	350	70	£6.32	£7.90	£9.49	£11.11	£14.33	£17.51	£21.52	£27.09	
BT5/355	355	71	£6.33	£7.93	£9.55	£11.18	£14.36	£17.59	£21.59	£27.22	
BT5/365	365	73	£6.39	£8.02	£9.76	£11.28	£14.47	£17.76	£21.77	£27.43	
BT5/390	390	78	£6.44	£8.08	£9.82	£11.34	£14.61	£17.88	£22.01	£27.69	
BT5/400	400	80	£6.50	£8.13	£9.84	£11.48	£14.73	£18.08	£22.15	£27.96	
BT5/410	410	82	£6.54	£8.19	£9.86	£11.58	£14.90	£18.23	£22.42	£28.24	
BT5/420	420	84	£6.63	£8.26	£9.94	£11.65	£15.11	£18.40	£22.66	£28.50	
BT5/425	425	85	£6.66	£8.29	£9.97	£11.67	£15.18	£18.45	£22.71	£28.62	

Pulleys & Belts
PITCH 5mm

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.101

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5								
			6mm	8mm	10mm	12mm	16mm	20mm	25mm	32mm	
BT5/450	450	90	£6.69	£8.46	£10.07	£11.91	£15.23	£18.87	£23.20	£29.29	
BT5/455	455	91	£6.71	£8.47	£10.21	£11.96	£15.38	£18.98	£23.28	£29.36	
BT5/460	460	92	£6.72	£8.50	£10.24	£11.96	£15.47	£18.98	£23.30	£29.40	
BT5/475	475	95	£6.77	£8.54	£10.42	£12.09	£13.82	£19.13	£23.54	£29.69	
BT5/480	480	96	£7.10	£8.63	£10.54	£12.22	£15.78	£19.36	£23.83	£30.04	
BT5/500	500	100	£7.27	£9.02	£10.94	£12.75	£16.44	£20.24	£24.96	£31.50	
BT5/510	510	102	£7.31	£9.16	£11.06	£13.00	£28.14	£20.61	£25.36	£32.02	
BT5/525	525	105	£7.39	£9.32	£11.36	£13.26	£17.13	£21.06	£25.93	£32.72	
BT5/545	545	109	£7.49	£9.49	£11.51	£13.54	£17.51	£21.52	£26.53	£33.50	
BT5/550	550	110	£7.53	£9.57	£11.58	£13.57	£17.61	£21.61	£26.66	£33.64	
BT5/560	560	112	£7.63	£9.62	£11.66	£13.68	£17.77	£21.77	£26.87	£33.97	
BT5/575	575	115	£7.70	£9.72	£11.77	£13.82	£17.89	£21.98	£27.09	£34.29	
BT5/590	590	118	£7.73	£9.82	£11.86	£13.96	£18.10	£22.21	£27.40	£34.61	
BT5/600	600	120	£7.76	£9.93	£11.96	£14.06	£18.23	£22.42	£27.63	£34.97	
BT5/610	610	122	£7.82	£9.96	£12.05	£14.20	£18.40	£22.66	£27.89	£35.26	
BT5/620	620	124	£7.88	£9.99	£12.14	£14.27	£18.50	£22.76	£28.19	£35.56	
BT5/625	625	125	£7.90	£10.02	£12.16	£14.29	£18.61	£22.79	£28.20	£35.65	
BT5/630	630	126	£7.94	£10.04	£12.19	£14.31	£18.74	£22.80	£28.37	£35.65	
BT5/640	640	128	£11.84	£15.22	£18.68	£22.12	£28.99	£35.88	£44.40	£56.48	
BT5/650	650	130	£8.07	£10.22	£12.39	£14.35	£18.90	£23.25	£28.67	£36.25	
BT5/660	660	132	£8.11	£10.28	£12.50	£14.67	£19.15	£23.45	£28.94	£36.59	
BT5/675	675	135	£8.14	£10.36	£12.62	£14.77	£19.25	£23.62	£29.26	£36.95	
BT5/690	690	138	£8.19	£10.44	£12.65	£14.95	£19.39	£23.84	£29.40	£37.21	
BT5/695	695	139	£12.39	£15.94	£19.59	£23.15	£30.39	£37.60	£46.59	£59.25	
BT5/700	700	140	£8.22	£10.46	£12.76	£14.96	£19.41	£23.91	£29.53	£37.35	
BT5/720	720	144	£8.29	£10.57	£12.83	£15.07	£19.62	£24.14	£29.73	£37.73	
BT5/725	725	145	£8.35	£10.59	£12.85	£15.11	£19.66	£24.20	£29.85	£37.80	
BT5/750	750	150	£8.41	£10.72	£13.02	£15.33	£19.89	£24.45	£30.18	£38.17	
BT5/780	780	156	£8.52	£10.82	£13.14	£15.49	£20.16	£24.85	£30.61	£38.83	
BT5/800	800	160	£8.54	£10.95	£13.27	£15.61	£20.31	£25.02	£30.86	£39.12	
BT5/815	815	163	£8.66	£11.01	£13.39	£15.78	£20.55	£25.31	£31.22	£39.58	
BT5/840	840	168	£8.73	£11.12	£13.54	£15.90	£20.70	£25.58	£31.54	£39.96	
BT5/850	850	170	£8.73	£11.18	£13.59	£15.93	£20.73	£25.58	£31.55	£39.97	
BT5/860	860	172	£8.78	£11.21	£13.65	£16.12	£20.92	£25.79	£31.85	£40.31	
BT5/900	900	180	£8.87	£11.34	£13.74	£16.25	£21.23	£26.10	£32.28	£40.85	
BT5/940	940	188	£9.08	£11.58	£14.08	£16.64	£21.66	£26.68	£32.98	£41.82	
BT5/975	975	195	£9.21	£11.77	£14.33	£16.92	£22.01	£27.16	£33.55	£42.52	
BT5/990	990	198	£9.28	£11.84	£14.95	£16.98	£22.15	£27.33	£33.78	£42.81	
BT5/1000	1000	200	£9.49	£11.89	£15.48	£17.13	£22.31	£27.51	£34.00	£43.13	
BT5/1075	1075	215	£10.21	£13.09	£16.05	£18.98	£24.74	£30.54	£37.80	£47.97	
BT5/1090	1090	218	£10.96	£14.08	£17.27	£19.36	£26.68	£32.98	£40.85	£51.93	
BT5/1100	1100	220	£11.10	£13.57	£17.51	£19.60	£26.85	£33.37	£40.99	£52.64	
BT5/1115	1115	223	£11.19	£14.38	£17.61	£20.87	£27.26	£33.72	£41.79	£53.03	
BT5/1140*	1140	228	£11.35	£14.69	£17.98	£21.27	£27.88	£34.44	£42.67	£54.20	
BT5/1215	1215	243	£18.13	£14.77	£19.33	£21.42	£28.03	£34.72	£43.00	£54.58	
BT5/1380	1380	276	£20.24	£16.60	£21.85	£24.14	£31.68	£39.21	£48.61	£61.82	
BT5/1440	1440	288	£21.09	£16.70	£22.76	£24.26	£31.85	£39.42	£48.93	£62.22	

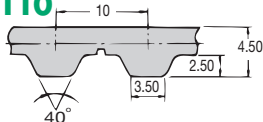
Materials

STD : Polyurethane Teeth, Steel Cord
Tension Members

Timing Belts

10mm Pitch

BT10



Polyurethane Backing

Polyurethane Teeth

Steel Tension Member

SINGLE SIDED BELT



- OIL RESISTANT
- HIGH EFFICIENCY
- HIGH PRECISION

RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5						
			10mm	12mm	16mm	20mm	25mm	32mm	50mm
BT10/260	260	26	£14.95	£17.94	£24.74	£28.97	£37.85	£48.06	£74.22
BT10/370	370	37	£11.83	£13.75	£18.08	£22.14	£27.21	£34.56	£53.14
BT10/400	400	40	£11.89	£13.95	£18.12	£22.26	£27.42	£34.72	£53.38
BT10/410	410	41	£11.91	£13.99	£18.14	£22.36	£27.54	£34.81	£53.52
BT10/440	440	44	£12.14	£14.29	£18.50	£22.80	£28.15	£35.56	£54.69
BT10/450	450	45	£12.22	£20.55	£18.61	£22.93	£28.28	£35.82	£54.76
BT10/490	490	49	£17.98	£21.24	£27.86	£34.40	£42.60	£54.14	£83.78
BT10/500	500	50	£13.19	£15.50	£19.50	£24.89	£30.76	£38.90	£59.97
BT10/530	530	53	£13.61	£16.04	£20.88	£25.69	£32.03	£40.22	£61.96
BT10/550	550	55	£13.92	£16.35	£21.27	£26.22	£32.38	£41.02	£63.26
BT10/560	560	56	£14.32	£16.85	£22.01	£27.39	£32.98	£42.56	£66.46
BT10/600	600	60	£14.51	£17.13	£22.36	£27.54	£34.00	£43.13	£66.56
BT10/610	610	61	£14.69	£17.34	£22.66	£27.88	£35.17	£43.69	£67.43
BT10/630	630	63	£15.04	£17.76	£23.15	£28.55	£35.89	£44.73	£69.04
BT10/650	650	65	£15.39	£18.14	£23.67	£29.27	£36.19	£45.89	£70.66
BT10/660	660	66	£15.50	£18.34	£24.58	£29.54	£36.62	£46.34	£71.55
BT10/690	690	69	£16.14	£19.01	£24.85	£30.72	£36.97	£48.20	£74.42
BT10/700	700	70	£16.22	£19.15	£25.05	£30.91	£37.85	£48.83	£75.04
BT10/720	720	72	£16.35	£19.33	£25.77	£31.17	£38.58	£48.97	£75.66
BT10/750	750	75	£16.70	£19.71	£25.84	£31.86	£39.47	£50.13	£77.46
BT10/780	780	78	£17.13	£20.24	£26.70	£32.67	£40.50	£51.40	£79.44
BT10/800	800	80	£17.34	£20.55	£26.86	£33.20	£41.14	£52.21	£80.72
BT10/810	810	81	£17.51	£20.68	£27.39	£33.47	£41.47	£52.64	£81.41
BT10/840	840	84	£17.89	£21.17	£27.74	£34.29	£42.50	£53.91	£83.44
BT10/850	850	85	£19.41	£23.06	£30.18	£37.35	£46.30	£58.83	£91.10

Pulleys & Belts
PITCH 10mm

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



12.103

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5							
			10mm	12mm	16mm	20mm	25mm	32mm	50mm	
BT10/880	880	88	£18.40	£21.73	£28.50	£35.29	£43.73	£55.51	£85.86	
BT10/890	890	89	£18.50	£21.91	£28.55	£35.47	£43.98	£55.85	£86.46	
BT10/900	900	90	£18.65	£22.05	£28.66	£35.70	£44.29	£56.21	£86.97	
BT10/910	910	91	£18.74	£22.15	£29.05	£35.93	£44.62	£56.59	£87.56	
BT10/920	920	92	£18.84	£22.38	£29.30	£36.31	£44.89	£57.02	£88.26	
BT10/950	950	95	£19.25	£22.76	£29.84	£36.91	£45.77	£58.16	£90.00	
BT10/960	960	96	£19.41	£23.00	£30.13	£37.33	£46.22	£58.82	£90.99	
BT10/970	970	97	£19.62	£23.22	£30.51	£37.70	£46.72	£59.38	£91.92	
BT10/980	980	98	£19.76	£23.45	£30.78	£38.06	£47.71	£60.00	£92.85	
BT10/1000	1000	100	£20.12	£23.84	£31.30	£38.72	£48.01	£61.07	£94.53	
BT10/1010	1010	101	£20.31	£24.03	£31.52	£39.01	£49.21	£61.51	£95.27	
BT10/1050	1050	105	£20.82	£24.67	£32.38	£40.15	£49.76	£63.26	£98.03	
BT10/1080	1080	108	£21.38	£25.33	£33.26	£41.22	£51.12	£65.03	£100.75	
BT10/1100	1100	110	£21.71	£25.79	£33.87	£41.92	£52.04	£66.19	£101.79	
BT10/1110	1110	111	£21.92	£25.97	£34.17	£42.27	£52.79	£66.77	£103.43	
BT10/1140	1140	114	£22.43	£26.66	£34.88	£43.34	£53.64	£68.49	£106.10	
BT10/1150	1150	115	£22.47	£26.66	£35.02	£43.38	£54.13	£68.51	£106.23	
BT10/1200	1200	120	£23.07	£27.39	£35.98	£44.64	£55.40	£70.48	£107.72	
BT10/1210	1210	121	£23.22	£27.57	£36.23	£44.91	£55.76	£70.92	£109.95	
BT10/1240	1240	124	£23.36	£27.92	£36.74	£45.52	£56.52	£71.91	£111.51	
BT10/1250	1250	125	£23.61	£28.03	£36.91	£45.71	£56.74	£72.21	£112.00	
BT10/1300	1300	130	£24.22	£28.76	£37.83	£46.88	£58.57	£74.14	£115.02	
BT10/1320	1320	132	£24.51	£29.08	£38.30	£47.47	£59.00	£75.07	£116.43	
BT10/1350	1350	135	£24.96	£29.64	£38.85	£48.40	£60.09	£76.51	£118.68	
BT10/1390	1390	139	£25.58	£30.38	£39.95	£49.56	£61.55	£78.41	£121.64	
BT10/1400	1400	140	£25.68	£30.51	£40.21	£49.87	£61.94	£78.77	£122.36	
BT10/1420	1420	142	£25.96	£30.86	£40.66	£50.46	£62.70	£79.82	£123.82	
BT10/1440	1440	144	£26.22	£31.16	£41.03	£50.90	£63.26	£80.54	£124.98	
BT10/1450	1450	145	£26.37	£31.34	£41.31	£51.23	£63.67	£81.05	£125.92	
BT10/1460	1460	146	£26.43	£31.42	£41.34	£51.36	£63.82	£81.28	£126.95	
BT10/1500	1500	150	£26.89	£32.10	£42.06	£52.29	£64.91	£82.68	£128.33	
BT10/1560	1560	156	£27.39	£32.55	£42.91	£53.21	£66.19	£84.30	£130.81	
BT10/1600	1600	160	£27.67	£32.90	£43.35	£53.84	£66.93	£88.54	£136.41	
BT10/1610	1610	161	£30.22	£35.97	£45.38	£58.90	£73.25	£93.36	£144.99	
BT10/1700	1700	170	£30.72	£36.60	£47.02	£59.85	£74.00	£94.01	£147.45	
BT10/1750	1750	175	£30.99	£36.82	£48.52	£60.42	£75.13	£95.73	£148.73	
BT10/1780	1780	178	£31.07	£37.10	£48.97	£60.82	£75.19	£96.45	£149.79	
BT10/1800	1800	180	£31.11	£37.67	£49.36	£61.34	£75.26	£98.78	£151.19	
BT10/1880	1880	188	£31.15	£38.02	£50.65	£61.55	£75.29	£100.02	£153.59	
BT10/1960	1960	196	£33.20	£39.58	£55.84	£64.91	£80.74	£102.93	£160.02	
BT10/2250	2250	225	£37.73	£45.00	£58.75	£73.94	£92.04	£117.34	£182.52	

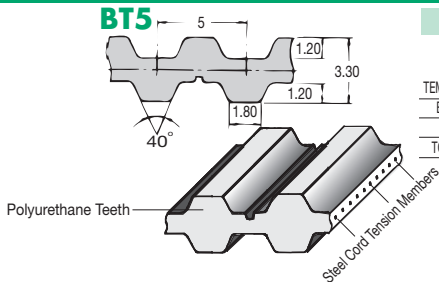
'Never Knowingly Outpriced'

Materials

STD : Polyurethane Teeth, Steel Cord
Tension Members

Timing Belts

5mm Pitch



RATING

TEMPERATURE RANGE FROM 0° TO +80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

For minimum roller and pulley diameters see tech pages.

DOUBLE SIDED BELT



- OIL RESISTANT
- HIGH EFFICIENCY
- STEEL CORD TENSION MEMBER
- MINIMAL STRETCH
- HIGH PRECISION
- SYNCHRONOUS

DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5									
			6mm	8mm	10mm	12mm	16mm	20mm	25mm	32mm	50mm	
BT5/300/DL	300	60	£7.39	£9.48	£11.56	£13.64	£17.81	£22.00	£27.22	£34.52	£53.28	
BT5/350/DL	350	70	£7.50	£9.67	£11.66	£13.95	£33.31	£22.45	£28.20	£35.29	£54.53	
BT5/400/DL	400	80	£7.70	£9.70	£12.06	£14.26	£18.61	£22.99	£28.42	£36.04	£55.75	
BT5/410/DL	410	82	£7.93	£10.28	£12.85	£16.13	£21.68	£25.86	£32.33	£45.51	£68.14	
BT5/460/DL	460	92	£9.38	£12.15	£15.20	£19.04	£25.61	£30.54	£38.16	£53.66	£80.41	
BT5/480/DL	480	96	£9.76	£12.66	£15.82	£19.77	£26.60	£31.67	£39.69	£55.82	£83.58	
BT5/500/DL	500	100	£9.96	£12.89	£16.15	£20.22	£27.16	£32.38	£40.50	£56.93	£85.35	
BT5/515/DL	515	103	£10.01	£13.65	£16.24	£20.35	£27.33	£32.63	£42.04	£57.30	£85.86	
BT5/550/DL	550	110	£10.36	£13.95	£16.92	£21.10	£28.42	£33.93	£42.43	£59.60	£88.88	
BT5/590/DL	590	118	£10.80	£14.05	£17.52	£21.96	£29.53	£35.23	£44.05	£61.85	£92.70	
BT5/600/DL	600	120	£11.65	£15.68	£18.40	£22.93	£31.09	£38.31	£45.73	£63.84	£96.03	
BT5/620/DL	620	124	£11.67	£15.86	£18.94	£23.64	£31.86	£38.47	£47.53	£66.72	£99.97	
BT5/650/DL	650	130	£11.84	£16.05	£19.13	£23.91	£32.25	£38.66	£48.06	£67.46	£101.07	
BT5/700/DL	700	140	£11.91	£16.25	£19.36	£24.81	£32.45	£38.82	£48.52	£68.14	£102.04	
BT5/750/DL	750	150	£12.06	£16.61	£19.58	£25.30	£32.85	£39.21	£49.01	£68.84	£103.15	
BT5/800/DL	800	160	£15.57	£20.29	£25.18	£31.54	£42.39	£50.57	£63.23	£88.79	£132.97	
BT5/815/DL	815	163	£15.87	£20.66	£25.66	£32.10	£43.18	£51.56	£64.35	£90.45	£138.46	
BT5/850/DL	850	170	£16.23	£21.06	£27.41	£34.40	£46.08	£55.60	£69.03	£91.91	£136.50	
BT5/860/DL	860	172	£16.29	£22.00	£27.57	£34.47	£46.32	£57.24	£69.37	£92.80	£139.10	
BT5/900/DL	900	180	£17.06	£22.93	£27.64	£34.59	£46.49	£58.38	£72.49	£97.39	£145.89	
BT5/940/DL	940	188	£17.80	£23.81	£28.78	£37.85	£48.40	£59.14	£75.72	£101.34	£151.64	
BT5/1030/DL	1030	206	£19.13	£24.57	£30.61	£38.41	£49.72	£59.50	£76.56	£103.27	£152.45	
BT5/1100/DL	1100	220	£19.44	£25.18	£31.50	£39.38	£50.29	£59.99	£78.94	£105.31	£165.51	

Pulleys & Belts

PITCH 5mm

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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12.105

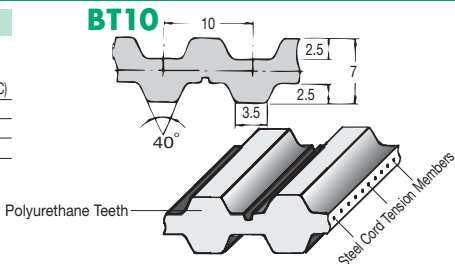
10mm Pitch

STD : Polyurethane Belt Body
with Steel Tension Members

RATING

TEMPERATURE RANGE FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

BT10



DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

For minimum roller and pulley diameters see tech pages.

- OIL RESISTANT
- HIGH EFFICIENCY
- HIGH PRECISION

DOUBLE SIDED BELT



Pulleys & Belts PITCH 10mm

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5							
			10mm	12mm	16mm	20mm	25mm	32mm	50mm	
BT10 DOUBLE SIDED										
BT10/260/DL	260	26	£14.91	£17.57	£22.94	£28.29	£35.00	£44.36	£68.48	
BT10/530/DL	530	53	£28.79	£34.25	£45.20	£56.12	£69.77	£88.88	£138.04	
BT10/630/DL	630	63	£32.12	£38.30	£50.53	£62.78	£78.12	£99.50	£154.63	
BT10/660/DL	660	66	£33.10	£39.43	£52.09	£64.72	£80.53	£102.66	£159.55	
BT10/700/DL	700	70	£34.35	£40.95	£54.13	£67.27	£83.71	£106.70	£165.87	
BT10/720/DL	720	72	£35.03	£41.72	£55.18	£68.62	£85.36	£108.87	£169.24	
BT10/800/DL	800	80	£37.49	£44.67	£59.10	£73.48	£91.46	£116.64	£181.40	
BT10/840/DL	840	84	£39.07	£46.60	£61.66	£76.68	£95.48	£121.76	£189.43	
BT10/900/DL	900	90	£40.95	£48.81	£64.59	£80.39	£100.10	£127.72	£198.64	
BT10/980/DL	980	98	£43.74	£52.18	£69.04	£85.98	£107.07	£136.64	£212.64	
BT10/1100/DL	1100	110	£48.98	£58.54	£77.51	£96.53	£120.29	£153.54	£239.10	
BT10/1210/DL	1210	121	£51.34	£61.30	£81.23	£101.18	£126.07	£160.95	£250.66	
BT10/1240/DL	1240	124	£52.23	£62.42	£82.68	£103.01	£128.39	£163.91	£256.81	
BT10/1250/DL	1250	125	£53.11	£63.39	£84.04	£104.65	£130.42	£166.53	£259.39	
BT10/1320/DL	1320	132	£54.94	£65.67	£87.06	£108.47	£135.21	£172.63	£268.89	
BT10/1350/DL	1350	135	£56.00	£66.85	£88.65	£110.44	£137.68	£175.79	£273.83	
BT10/1420/DL	1420	142	£58.30	£69.63	£92.38	£115.08	£143.48	£183.23	£285.46	
BT10/1500/DL	1500	150	£62.61	£74.84	£99.27	£123.71	£154.26	£197.05	£307.03	
BT10/1610/DL	1610	161	£64.56	£77.19	£102.46	£127.67	£159.19	£203.33	£318.78	
BT10/1800/DL	1800	180	£72.00	£86.15	£114.32	£142.55	£177.80	£227.16	£354.06	
BT10/1880/DL	1880	188	£73.53	£87.96	£116.76	£145.58	£181.62	£232.03	£361.71	

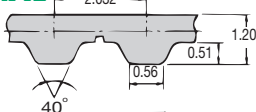
Materials

STD : Polyurethane Body, Polyurethane Teeth and Polyester Tension Members

Timing Belts

0.08" Pitch

MXL



Polyurethane Backing
Polyurethane Teeth
Polyester Cord Tension Member

RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

SINGLE SIDED BELT



- OIL RESISTANT
- HIGH EFFICIENCY
- MINIMAL STRETCH
- HIGH PRECISION
- SYNCHRONOUS

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5			
			3.2mm (1/8")	4.8mm (3/16")	6.4mm (1/4")	7.9mm (5/16")
MXL 30	60.96	30	£2.94	£4.08	£5.81	£6.81
MXL 35	71.12	35	£2.94	£4.08	£5.81	£6.81
MXL 40	81.28	40	£2.94	£4.08	£5.81	£6.81
MXL 45	91.44	45	£2.94	£4.08	£5.81	£6.81
MXL 48	97.54	48	£2.94	£4.08	£5.81	£6.81
MXL 50	101.60	50	£2.94	£4.08	£5.81	£6.81
MXL 54	109.73	54	£2.94	£4.08	£5.81	£6.81
MXL 55	111.76	55	£2.94	£4.08	£5.81	£6.81
MXL 60	121.92	60	£2.94	£4.08	£5.81	£6.81
MXL 64	130.05	64	£2.94	£4.08	£5.81	£6.81
MXL 65	132.02	65	£2.94	£4.08	£5.81	£6.81
MXL 70	142.24	70	£2.94	£4.08	£5.81	£6.81
MXL 71	144.27	71	£3.00	£4.08	£6.01	£7.03
MXL 73	148.34	73	£3.00	£4.09	£6.01	£7.03
MXL 75	152.40	75	£3.00	£4.09	£6.01	£7.03
MXL 78	158.50	78	£3.00	£4.09	£6.01	£7.03
MXL 79	160.53	79	£3.04	£4.21	£6.06	£7.03
MXL 80	162.56	80	£3.04	£4.21	£6.06	£7.05
MXL 82	166.62	82	£3.04	£4.24	£6.06	£7.05
MXL 85	172.72	85	£3.07	£4.24	£6.14	£7.27
MXL 87	176.78	87	£3.07	£4.24	£6.14	£7.27
MXL 88	178.82	88	£3.07	£4.24	£6.14	£7.27
MXL 90	182.88	90	£3.13	£4.24	£6.14	£7.27
MXL 91	184.91	91	£3.22	£4.24	£6.14	£7.27
MXL 95	193.04	95	£3.22	£4.42	£6.30	£7.36
MXL 97	197.10	97	£3.22	£4.42	£6.30	£7.36
MXL 100	203.20	100	£3.22	£4.44	£6.32	£7.37

Pulleys & Belts PITCH 0.08"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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12.107

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5			
			3.2mm (1/8")	4.8mm (3/16")	6.4mm (1/4")	7.9mm (5/16")
MXL 102	207.26	102	£3.22	£4.44	£6.32	£7.37
MXL 103	209.30	103	£3.22	£4.44	£6.32	£7.37
MXL 105	213.36	105	£3.22	£4.49	£6.37	£7.45
MXL 106	215.39	106	£3.22	£4.49	£6.37	£7.45
MXL 110	223.53	110	£3.31	£4.54	£6.46	£7.56
MXL 112	227.58	112	£3.31	£4.54	£6.47	£7.56
MXL 114	231.65	114	£3.31	£4.54	£6.46	£7.56
MXL 115	233.68	115	£3.32	£4.62	£6.54	£7.56
MXL 118	239.78	118	£3.37	£4.63	£6.54	£7.75
MXL 120	243.84	120	£3.37	£4.63	£6.66	£7.75
MXL 122	247.90	122	£3.37	£4.75	£6.71	£7.87
MXL 123	249.94	123	£3.37	£4.75	£6.71	£7.87
MXL 125	254.00	125	£3.39	£4.75	£6.71	£7.87
MXL 126	256.03	126	£3.39	£4.79	£6.71	£8.01
MXL 130	264.16	130	£3.39	£4.79	£6.81	£8.01
MXL 132	268.22	132	£3.39	£4.84	£6.81	£8.11
MXL 135	274.32	135	£3.39	£4.85	£7.01	£8.13
MXL 140	284.48	140	£3.47	£4.95	£7.01	£8.19
MXL 144	292.61	144	£3.47	£4.98	£7.01	£8.32
MXL 145	294.64	145	£3.47	£4.98	£7.01	£8.36
MXL 150	304.80	150	£3.47	£3.95	£7.01	£8.38
MXL 155	314.96	155	£3.49	£5.06	£7.16	£8.45
MXL 160	325.12	160	£3.49	£5.09	£7.31	£8.51
MXL 165	335.28	165	£3.54	£5.20	£7.39	£8.62
MXL 170	345.44	170	£3.60	£5.23	£7.44	£8.76
MXL 175	355.60	175	£3.67	£5.30	£7.53	£8.86
MXL 180	365.70	180	£3.67	£5.33	£7.64	£8.94
MXL 184	373.89	184	£3.67	£5.46	£7.69	£8.96
MXL 185	375.92	185	£3.67	£5.46	£7.69	£8.96
MXL 190	386.03	190	£3.70	£5.47	£7.73	£9.18
MXL 195	396.24	195	£3.78	£5.50	£7.83	£9.20
MXL 200	406.40	200	£3.81	£5.52	£7.90	£9.22
MXL 205	416.46	205	£3.83	£5.59	£7.99	£9.32
MXL 210	426.72	210	£3.89	£5.67	£8.08	£9.40
MXL 212	430.78	212	£3.96	£5.76	£8.12	£9.53
MXL 215	436.08	215	£3.96	£5.76	£8.12	£9.53
MXL 220	447.04	220	£4.01	£5.79	£8.19	£9.62
MXL 225	457.00	225	£4.02	£5.86	£8.32	£9.76
MXL 230	467.36	230	£4.04	£5.90	£8.43	£9.83
MXL 235	477.52	235	£4.08	£5.91	£8.52	£9.96
MXL 240	487.68	240	£4.09	£6.04	£8.60	£10.08
MXL 245	497.84	245	£4.20	£6.14	£8.66	£10.19
MXL 249	505.97	249	£4.21	£6.16	£8.78	£10.28
MXL 250	508.00	250	£4.21	£6.20	£8.78	£10.28
MXL 255	518.16	255	£4.24	£6.21	£8.87	£10.35
MXL 260	528.32	260	£4.35	£6.32	£8.96	£10.50
MXL 265	538.48	265	£4.38	£6.37	£8.96	£10.59
MXL 270	548.64	270	£4.42	£6.40	£8.97	£11.28
MXL 275	558.80	275	£4.44	£6.50	£9.02	£11.35
MXL 280	568.96	280	£4.53	£6.63	£9.03	£11.53
MXL 285	579.12	285	£4.54	£6.64	£9.04	£11.59

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5			
			3.2mm (1/8")	4.8mm (3/16")	6.4mm (1/4")	7.9mm (5/16")
MXL 290	589.28	290	£4.81	£6.69	£9.08	£11.70
MXL 295	599.44	295	£4.85	£6.71	£9.08	£11.84
MXL 300	609.60	300	£4.90	£6.81	£9.68	£11.90
MXL 310	629.92	310	£4.96	£6.94	£9.70	£11.96
MXL 315	640.08	315	£4.98	£6.95	£9.72	£12.04
MXL 320	650.24	320	£5.06	£6.95	£9.76	£12.05
MXL 324	658.37	324	£5.10	£7.02	£9.82	£12.06
MXL 330	670.56	330	£5.13	£7.03	£9.82	£12.07
MXL 340	690.88	340	£5.25	£7.14	£9.83	£12.09
MXL 350	711.20	350	£5.27	£7.31	£9.83	£12.11
MXL 360	731.52	360	£5.29	£7.44	£10.01	£12.39
MXL 370	751.84	370	£5.30	£7.56	£10.75	£12.52
MXL 380	772.16	380	£5.32	£7.70	£10.94	£12.78
MXL 390	792.48	390	£5.33	£7.76	£11.10	£13.00
MXL 400	812.80	400	£5.47	£7.93	£11.28	£13.19

Pulleys & Belts
PITCH 0.08"

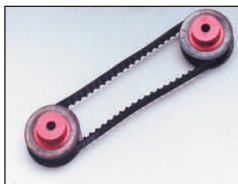
'Never Knowingly Outpriced'



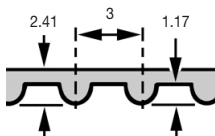
HTD Heavy Duty Timing Belts *Materials*

3mm Pitch

STD : Neoprene Rubber Body with
Glass Fibre Tension Members



HTD 3



RATING

TEMPERATURE RANGE
FROM -20° TO +90°C
DRIVE PULLEY SPEED UP TO
14000 RPM
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

SINGLE SIDED BELT



For technical information see page 786

- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- LOW ELONGATION
- LOW NOISE

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

Pulleys & Belts PITCH 3mm

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5	
			6mm Wide	9mm Wide
HTD3/144	144	48	£4.20	£5.46
HTD3/150	150	50	£4.24	£5.48
HTD3/159	159	53	£4.27	£5.49
HTD3/168	168	56	£4.28	£5.54
HTD3/177	177	59	£4.32	£5.55
HTD3/195	195	65	£4.32	£5.58
HTD3/201	201	67	£4.36	£5.59
HTD3/210	210	70	£4.38	£5.76
HTD3/213	213	71	£4.40	£5.79
HTD3/225	225	75	£4.42	£5.86
HTD3/252	252	84	£4.53	£5.90
HTD3/255	255	85	£4.54	£5.91
HTD3/267	267	89	£4.56	£6.02
HTD3/285	285	95	£4.62	£6.04
HTD3/288	288	96	£4.63	£6.06
HTD3/300	300	100	£4.76	£6.08
HTD3/312	312	104	£4.78	£6.20
HTD3/318	318	106	£4.79	£6.30
HTD3/339	339	113	£4.83	£6.37
HTD3/363	363	121	£4.84	£6.46
HTD3/384	384	128	£4.97	£6.50
HTD3/390	390	130	£4.99	£6.50
HTD3/420	420	140	£5.12	£6.72
HTD3/447	447	149	£5.30	£6.95
HTD3/474	474	158	£5.46	£7.04
HTD3/486	486	162	£5.48	£7.05
HTD3/501	501	167	£5.49	£7.08

12.110



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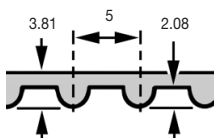
HTD Heavy Duty Timing Belts *Materials*

5mm Pitch

STD : Neoprene Rubber Body with
Glass Fibre Tension Members



HTD 5



RATING

TEMPERATURE RANGE FROM -20° TO +90°C
DRIVE PULLEY SPEED UP TO 14000 RPM
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

SINGLE SIDED BELT



For technical information see page 786

- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- LOW ELONGATION
- LOW NOISE

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

Pulleys & Belts PITCH 5mm

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5	
			9mm Wide	15mm Wide
HTD5/235	235	47	£6.31	£9.47
HTD5/245	245	49	£6.33	£9.48
HTD5/265	265	53	£6.50	£9.72
HTD5/300	300	60	£6.68	£10.25
HTD5/305	305	61	£6.82	£10.35
HTD5/325	325	65	£7.04	£10.54
HTD5/330	330	66	£7.05	£10.59
HTD5/345	345	69	£7.16	£10.77
HTD5/350	350	70	£7.27	£10.81
HTD5/375	375	75	£7.63	£11.11
HTD5/400	400	80	£7.69	£11.47
HTD5/420	420	84	£7.83	£11.70
HTD5/425	425	85	£7.87	£11.77
HTD5/450	450	90	£8.07	£12.04
HTD5/465	465	93	£8.14	£12.22
HTD5/475	475	95	£8.45	£12.52
HTD5/500	500	100	£8.47	£12.64
HTD5/535	535	107	£8.78	£13.05
HTD5/565	565	113	£8.96	£13.12
HTD5/580	580	116	£9.18	£13.74
HTD5/600	600	120	£9.35	£13.92
HTD5/615	615	123	£9.38	£13.97
HTD5/635	635	127	£9.57	£14.25
HTD5/665	665	133	£9.70	£14.61
HTD5/675	675	135	£9.77	£14.67
HTD5/705	705	141	£9.93	£14.74
HTD5/710	710	142	£9.95	£14.76

12.112

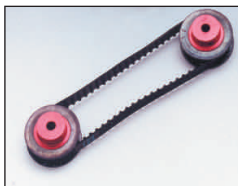


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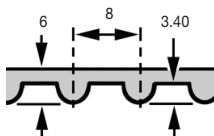
HTD Heavy Duty Timing Belts Materials

8mm Pitch

STD : Neoprene Rubber Body with
Glass Fibre Tension Members



HTD 8



RATING

TEMPERATURE RANGE
FROM -20° TO + 90°C
DRIVE PULLEY SPEED UP TO
6000 RPM
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

SINGLE SIDED BELT



For technical information see page 786

- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- LOW ELONGATION
- LOW NOISE

DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

Pulleys & Belts PITCH 8mm

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5	
			20mm Wide	30mm Wide
HTD8/480	480	60	£13.59	£20.42
HTD8/536	536	67	£14.77	£22.15
HTD8/560	560	70	£15.45	£23.20
HTD8/600	600	75	£15.94	£23.91
HTD8/632	632	79	£16.57	£24.93
HTD8/640	640	80	£16.83	£25.30
HTD8/720	720	90	£18.14	£27.31
HTD8/800	800	100	£19.46	£29.27
HTD8/840	840	105	£19.96	£30.03
HTD8/880	880	110	£20.59	£30.87
HTD8/920	920	115	£21.58	£32.37
HTD8/960	960	120	£22.14	£33.31
HTD8/1040	1040	130	£23.64	£35.55
HTD8/1120	1120	140	£25.05	£37.67
HTD8/1200	1200	150	£26.37	£39.64
HTD8/1224	1224	153	£27.24	£40.87
HTD8/1280	1280	160	£27.89	£41.88
HTD8/1440	1440	180	£30.26	£45.44
HTD8/1600	1600	200	£32.97	£49.56
HTD8/1760	1760	220	£35.55	£53.42
HTD8/1800	1800	225	£36.24	£54.51
HTD8/2000	2000	250	£40.02	£60.14
HTD8/2400	2400	300	£46.93	£70.50
HTD8/2600	2600	325	£50.70	£76.19
HTD8/2800	2800	350	£53.85	£80.86
HTD8/3048	3048	381	£56.83	£85.31
HTD8/3280	3280	410	£61.16	£91.83
HTD8/3600	3600	450	£67.10	£100.75
HTD8/4400	4400	550	£82.08	£123.18

12.114



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Materials **HTD Heavy Duty Timing Belts**

STD : Neoprene Rubber Body with Glass Fibre Tension Members

14mm Pitch

RATING

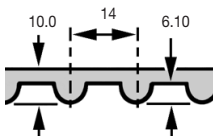
TEMPERATURE RANGE
FROM -20° TO +90°C

DRIVE PULLEY SPEED UP TO
4000 RPM

EFFICIENCY UP TO 98%

TORQUE : SEE TECH PAGES

HTD 14



DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- LOW ELONGATION
- LOW NOISE

SINGLE SIDED BELT



For technical information see page 786

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5	
			40mm Wide	55mm Wide
HTD14/1190	1190	85	£98.42	£129.56
HTD14/1400	1400	100	£107.61	£141.87
HTD14/1610	1610	115	£115.90	£162.41
HTD14/1778	1778	127	£118.96	£164.41
HTD14/1890	1890	135	£122.93	£170.23
HTD14/2100	2100	150	£131.46	£181.71
HTD14/2310	2310	165	£139.80	£194.23
HTD14/2450	2450	175	£146.24	£201.93
HTD14/2590	2590	185	£150.41	£207.95
HTD14/2800	2800	200	£160.83	£222.36
HTD14/3150	3150	225	£171.26	£229.62
HTD14/3360	3360	240	£184.43	£256.76
HTD14/3500	3500	250	£193.60	£258.66
HTD14/3850	3850	275	£202.75	£280.51
HTD14/4326	4326	309	£223.93	£309.27
HTD14/4578	4578	327	£234.43	£323.88

'Never Knowingly Outpriced'

Pulleys & Belts
PITCH 14mm

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12.115

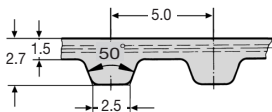
Reduced Backlash Timing Belts Materials

5mm Pitch

STD : Polyurethane Belt Body
with Steel Tension Members



AT5



RATING

TEMPERATURE RANGE
FROM 0° TO +80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 80M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

Synchroflex REDUCED BACKLASH

SINGLE SIDED BELT



- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- LOW ELONGATION
- LOW NOISE

To suit
ABT5
Pulleys

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			10mm WIDE	16mm WIDE	25mm WIDE
AT5/225	225	45	£16.96	£23.88	£32.55
AT5/255	255	51	£17.44	£24.13	£32.78
AT5/260	260	52	£17.62	£24.19	£32.98
AT5/280	280	56	£17.67	£24.32	£33.07
AT5/300	300	60	£17.77	£24.51	£33.32
AT5/330	330	66	£17.87	£24.72	£36.72
AT5/340	340	68	£17.94	£24.86	£33.90
AT5/375	375	75	£18.04	£25.31	£34.72
AT5/390	390	78	£18.42	£25.59	£34.99
AT5/420	420	84	£18.65	£26.00	£35.54
AT5/450	450	90	£18.98	£26.55	£36.05
AT5/455	455	91	£19.03	£26.66	£36.31
AT5/480	480	96	£19.92	£27.79	£38.96
AT5/500	500	100	£20.00	£28.20	£39.02
AT5/525	525	105	£21.41	£30.41	£42.82
AT5/545	545	109	£21.59	£31.02	£43.13
AT5/600	600	120	£23.10	£33.24	£46.35
AT5/610	610	122	£23.39	£33.56	£46.96
AT5/620	620	124	£23.74	£34.59	£48.35
AT5/660	660	132	£24.10	£34.85	£48.56
AT5/710	710	142	£25.18	£35.55	£50.51
AT5/720	720	144	£25.42	£36.45	£50.75
AT5/750	750	150	£25.77	£37.10	£51.82
AT5/780	780	156	£26.55	£38.40	£53.47
AT5/825	825	165	£27.39	£39.98	£55.63
AT5/860	860	172	£29.31	£43.28	£59.31
AT5/975	975	195	£30.35	£44.85	£63.00
AT5/1050	1050	210	£32.55	£47.75	£67.08
AT5/1125	1125	225	£33.90	£48.26	£71.14
AT5/1500	1500	300	£43.06	£50.33	£93.45
AT5/1750	1750	350	£54.51	£65.15	£111.78
AT5/2000	2000	400	£62.83	£91.34	£129.15

Pulleys & Belts PITCH 5mm

12.116



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Reduced Backlash Timing Belts *Materials*

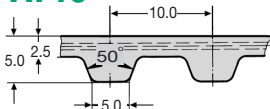
10mm Pitch

STD : Polyurethane Belt Body
with Steel Tension Members

RATING

TEMPERATURE RANGE
FROM 0° TO + 80°C
TEMPORARILY HIGHER (+120°C)
BELT SPEED UP TO 60M/S
EFFICIENCY UP TO 98%
TORQUE : SEE TECH PAGES

AT 10



DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

Synchroflex REDUCED BACKLASH

To suit
ABT10
Pulleys

- COMPACT
- HIGHLY STABLE
- MAINTENANCE FREE
- LOW ELONGATION
- LOW NOISE

SINGLE SIDED BELT



PART NUMBER	PITCH LENGTH	No. of TEETH	PRICE EACH 1-5		
			25mm WIDE	32mm WIDE	50mm WIDE
AT10/500	500	50	£56.32	£62.38	£78.25
AT10/560	560	56	£59.50	£66.39	£83.49
AT10/600	600	60	£60.52	£67.55	£84.95
AT10/610	610	61	£58.59	£68.71	£86.41
AT10/660	660	66	£65.46	£73.32	£91.83
AT10/700	700	70	£68.06	£76.70	£95.73
AT10/730	730	73	£69.97	£79.54	£98.77
AT10/780	780	78	£73.91	£83.53	£104.10
AT10/800	800	80	£75.85	£84.75	£105.53
AT10/840	840	84	£79.13	£87.86	£110.96
AT10/890	890	89	£85.08	£95.64	£119.31
AT10/920	920	92	£88.36	£100.24	£125.21
AT10/960	960	96	£94.27	£107.08	£132.62
AT10/980	980	98	£97.06	£108.28	£136.63
AT10/1000	1000	100	£99.51	£111.15	£141.43
AT10/1010	1010	101	£100.15	£111.70	£142.41
AT10/1080	1080	108	£103.42	£116.26	£146.85
AT10/1100	1100	110	£105.41	£118.02	£149.75
AT10/1150	1150	115	£108.01	£121.48	£154.19
AT10/1200	1200	120	£110.63	£124.91	£158.13
AT10/1210	1210	121	£112.32	£126.62	£160.37
AT10/1250	1250	125	£113.90	£128.33	£162.55
AT10/1280	1280	128	£115.25	£130.72	£164.52
AT10/1300	1300	130	£116.93	£131.77	£166.50
AT10/1320	1320	132	£118.86	£134.06	£169.96
AT10/1350	1350	135	£121.14	£136.32	£173.35
AT10/1360	1360	136	£122.47	£137.51	£174.83
AT10/1400	1400	140	£125.69	£142.67	£179.04
AT10/1480	1480	148	£132.92	£151.23	£184.69
AT10/1500	1500	150	£134.22	£153.02	£187.05
AT10/1600	1600	160	£142.76	£163.32	£192.58
AT10/1700	1700	170	£151.91	£173.07	£204.93
AT10/1720	1720	172	£153.70	£174.76	£207.25
AT10/1800	1800	180	£160.42	£183.41	£216.87
AT10/1860	1860	186	£165.70	£189.10	£223.29
AT10/1940	1940	194	£191.53	£191.53	£236.12

Pulleys & Belts
PITCH 10mm

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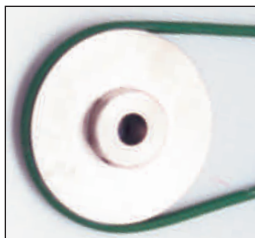
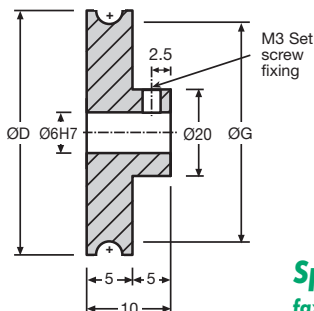


12.117

Materials Round Pulleys & Polyurethane Round Belts

STD : Stainless Steel 303S21/304S31 (En58)

Ø2



Specials available
fax your details for a quote.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Nominal Power (kw) Tension 8%

Belt Dia.	Speed (m/sec)				Dynamic Load on Axis (N)	Min. Pulleys
	2.5	05	10	15		
Rough	2	0.01	0.02	0.04	0.06	5.80 9 15

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

PART NUMBER	PULLEYS FOR Ø2 BELTS (PRB2)		PRICE EACH 1 - 5
	ØD	Groove ØG	
RBP2-20	Ø20	Ø18	£8.96
RBP2-25	Ø25	Ø23	£10.32
RBP2-30	Ø30	Ø28	£11.59
RBP2-35	Ø35	Ø33	£13.19
RBP2-40	Ø40	Ø38	£15.38
RBP2-45	Ø45	Ø43	£17.62
RBP2-50	Ø50	Ø48	£20.50
RBP2-55	Ø55	Ø53	£23.64
RBP2-60	Ø60	Ø58	£27.22

Materials

STD : Polyurethane

Colour: Green Max. Tension Fig. 12%
Working Temp. Range -30°C to +80°C
Tolerance Diameter ±0.10
Good Chemical / Oil / Abrasive Resistance
Hardness : 88A

Round Pulley Belts

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB2	Ø2	£0.82

A BELT JOINING KIT is also available for £527.57

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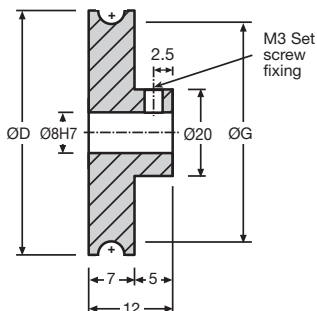
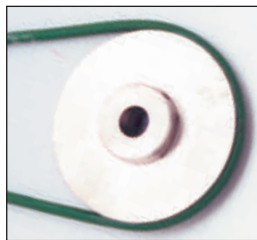
12.119

Pulleys & Belts Ø2

Round Pulleys & Polyurethane Round Belts Materials

Ø3

STD : Stainless Steel 303S21/304S31 (En58)



Specials available

fax your details for a quote.

Nominal Power (kw) Tension 8%

Belt Dia.	Speed (m/sec)				Dynamic Load on Axis (N)		Min. Pulleys Dia.	
	2.5	05	10	15	4%	8%		
Rough	3	0.02	0.05	0.07	0.12	13.00	21	20

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FOR Ø3 BELTS (PRB3)

PART NUMBER	ØD	Groove ØG	PRICE EACH 1 - 5
RBP3-20	Ø20	Ø17	£9.72
RBP3-25	Ø25	Ø22	£11.03
RBP3-30	Ø30	Ø27	£11.85
RBP3-35	Ø35	Ø32	£13.99
RBP3-40	Ø40	Ø37	£16.35
RBP3-45	Ø45	Ø42	£18.88
RBP3-50	Ø50	Ø47	£21.09
RBP3-55	Ø55	Ø52	£24.63
RBP3-60	Ø60	Ø57	£28.21

Round Pulley Belts

Materials

STD : Polyurethane

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB3	Ø3	£1.41

Colour: Green Max. Tension Fig. 12%
Working Temp. Range -30°C to +80°C
Tolerance Diameter ±0.10
Good Chemical / Oil / Abrasive Resistance
Hardness : 88A

A BELT JOINING KIT is also available for £527.57

12.120

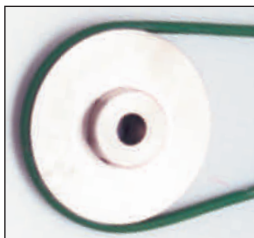
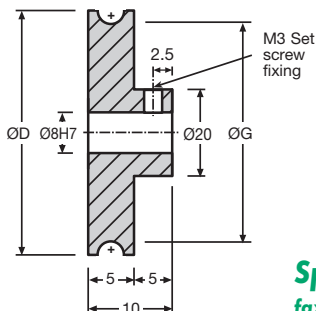


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Materials Round Pulleys & Polyurethane Round Belts

STD : Stainless Steel 303S21/304S31 (En58)

Ø4



Specials available
fax your details for a quote.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Maximum working load : 3.4Kg (7.5lbs)

Pull force at pre-tension

1% = 0.55 Kg (1.2 lbs)

2% = 1.09 Kg (2.4 lbs)

3% = 1.64 Kg (3.6 lbs)

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

PULLEYS FOR Ø4 BELTS (PRB4)			PRICE EACH 1 - 5
PART NUMBER	ØD	Groove ØG	
RBP4-30	Ø30	Ø26	£13.04
RBP4-35	Ø35	Ø31	£14.36
RBP4-40	Ø40	Ø36	£15.45
RBP4-45	Ø45	Ø41	£17.13
RBP4-50	Ø50	Ø46	£18.23
RBP4-55	Ø55	Ø51	£24.63
RBP4-60	Ø60	Ø56	£28.90
RBP4-65	Ø65	Ø61	£34.02
RBP4-70	Ø70	Ø66	£38.04

Materials

STD : Polyurethane

Round Pulley Belts

Colour: Green Max. Tension Fig. 12%
Working Temp. Range -30°C to +80°C
Tolerance Diameter ±0.10
Good Chemical / Oil / Abrasive Resistance
Hardness : 88A

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB4	Ø4	£1.62

A BELT JOINING KIT is also available for £527.57

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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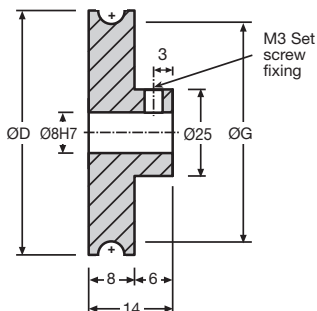
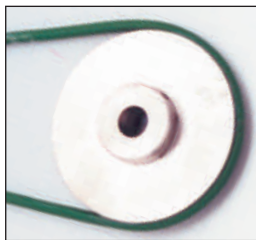
12.121

Pulleys & Belts Ø4

Round Pulleys & Polyurethane Round Belts *Materials*

Ø5

STD : *Stainless Steel 303S21/304S31 (En58)*



Specials available
fax your details for a quote.

Maximum working load : 5.3Kg (11.7lbs)

Pull force at pre-tension

1% = 0.86 Kg (1.9 lbs)

2% = 1.68 Kg (3.7 lbs)

3% = 2.55 Kg (5.6 lbs)

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FOR Ø5 BELTS (PRB5)

PART NUMBER	ØD	Groove ØG	PRICE EACH 1 - 5
RBP5-50	Ø50	Ø45	£18.84
RBP5-55	Ø55	Ø50	£23.31
RBP5-60	Ø60	Ø55	£28.95
RBP5-65	Ø65	Ø60	£34.97
RBP5-70	Ø70	Ø65	£39.73
RBP5-75	Ø75	Ø70	£46.91
RBP5-80	Ø80	Ø75	£56.60
RBP5-85	Ø85	Ø80	£68.75
RBP5-90	Ø90	Ø85	£80.83

Round Pulley Belts

Materials

STD : *Polyurethane*

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB5	Ø5	£2.35

Colour: Green Max. Tension Fig. 12%

Working Temp. Range -30°C to +80°C

Tolerance Diameter ±0.10

Good Chemical / Oil / Abrasive Resistance

Hardness : 88A

A BELT JOINING KIT is also available for **£527.57**

12.122

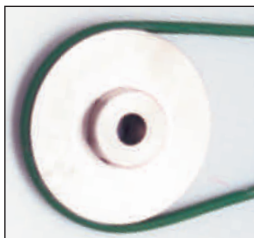
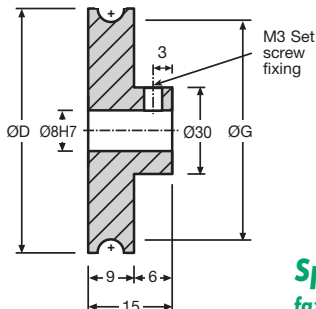


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Materials Round Pulleys & Polyurethane Round Belts

STD : Stainless Steel 303S21/304S31 (En58)

Ø6



Specials available
fax your details for a quote.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Maximum working load : 7.64Kg (16.8lbs)

Pull force at pre-tension

1% = 1.23 Kg (2.7 lbs)

2% = 2.36 Kg (5.4 lbs)

3% = 3.68 Kg (8.1 lbs)

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

PART NUMBER	PULLEYS FOR Ø6 BELTS (PRB6)		PRICE EACH 1 - 5
	ØD	Groove ØG	
RBP6-54	Ø54	Ø48	£20.10
RBP6-60	Ø60	Ø54	£26.55
RBP6-66	Ø66	Ø60	£31.55
RBP6-72	Ø72	Ø66	£42.91
RBP6-78	Ø78	Ø72	£51.08
RBP6-84	Ø84	Ø78	£59.02
RBP6-90	Ø90	Ø84	£67.55
RBP6-96	Ø96	Ø90	£74.61
RBP6-102	Ø102	Ø96	£80.77

Materials

STD : Polyurethane

Colour: Green Max. Tension Fig. 12%

Working Temp. Range -30°C to +80°C

Tolerance Diameter ±0.10

Good Chemical / Oil / Abrasive Resistance

Hardness : 88A

Round Pulley Belts

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB6	Ø6	£3.16

A BELT JOINING KIT is also available for £527.57

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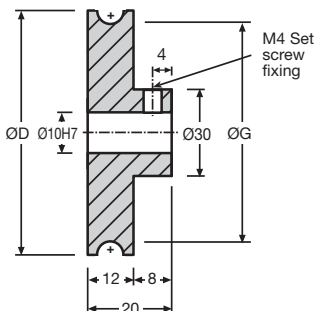
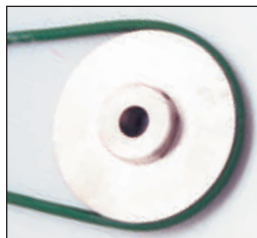
12.123

Pulleys & Belts Ø6

Round Pulleys & Polyurethane Round Belts Materials

Ø8

STD : Stainless Steel 303S21/304S31 (En58)



Specials available

fax your details for a quote.

Maximum working load : 13.59Kg (29.9lbs)

Pull force at pre-tension

1% = 2.18 Kg (4.8 lbs)

2% = 4.36 Kg (9.6 lbs)

3% = 6.36 Kg (14.0 lbs)

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PULLEYS FOR Ø8 BELTS (PRB8)

PART NUMBER	ØD	Groove ØG	PRICE EACH 1 - 5
RBP8-75	Ø75	Ø67	£73.32
RBP8-80	Ø80	Ø72	£75.06
RBP8-85	Ø85	Ø77	£77.80
RBP8-90	Ø90	Ø82	£80.35
RBP8-95	Ø95	Ø87	£81.65
RBP8-100	Ø100	Ø92	£83.05
RBP8-105	Ø105	Ø97	£86.05
RBP8-110	Ø110	Ø102	£88.28
RBP8-120	Ø120	Ø112	£90.34

Round Pulley Belts

Materials

STD : Polyurethane

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB8	Ø8	£5.49

Colour: Green Max. Tension Fig. 12%

Working Temp. Range -30°C to +80°C

Tolerance Diameter ±0.10

Good Chemical / Oil / Abrasive Resistance

Hardness : 88A

A BELT JOINING KIT is also available for £527.57

12.124

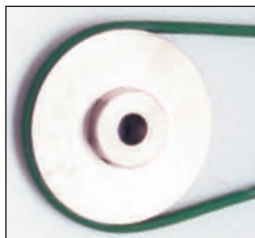
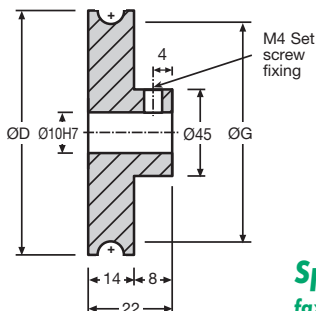


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Materials Round Pulleys & Polyurethane Round Belts

STD : Stainless Steel 303S21/304S31 (En58)

Ø10



Specials available
fax your details for a quote.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Maximum working load : 21.23Kg (46.7lbs)

Pull force at pre-tension

1% = 3.41 Kg (7.5 lbs)

2% = 6.82 Kg (15.0 lbs)

3% = 10.23 Kg (22.5 lbs)

Other diameters available up to Ø150 P.O.A.

Material for pulleys : 303 S21/31 Grade Stainless Steel.

PART NUMBER	PULLEYS FOR Ø10 BELTS (PRB10)		PRICE EACH 1 - 5
	ØD	Groove ØG	
RBP10-90	Ø90	Ø80	£70.02
RBP10-95	Ø95	Ø85	£76.55
RBP10-100	Ø100	Ø90	£83.54
RBP10-105	Ø105	Ø95	£91.98
RBP10-110	Ø110	Ø100	£98.42
RBP10-115	Ø115	Ø105	£107.06
RBP10-120	Ø120	Ø110	£120.05
RBP10-125	Ø125	Ø115	£132.91
RBP10-130	Ø130	Ø120	£145.71

Materials

STD : Polyurethane

Round Pulley Belts

Colour: Green Max. Tension Fig. 12%
Working Temp. Range -30°C to +80°C
Tolerance Diameter ±0.10
Good Chemical / Oil / Abrasive Resistance
Hardness : 88A

PART NUMBER	Ø BELT	PRICE PER 100mm
PRB10	Ø10	£8.81

A BELT JOINING KIT is also available for £527.57

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12.125

Pulleys & Belts Ø10

TECHNICAL REQUEST

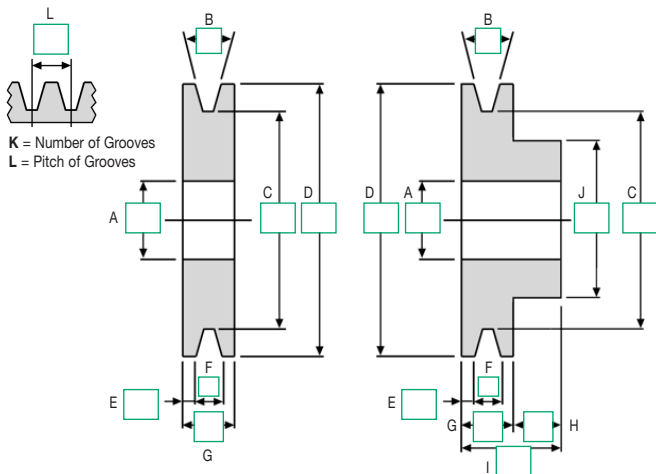
Non-Standard V-Pulleys

photocopy double

size and fax on

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QUANTITY	_____	PULLEY WIDTH (G)	_____
MATERIAL	_____	BOSS LENGTH (H)	_____
BORE \varnothing (A)	_____	OVERALL LENGTH (I)	_____
INCLUDED ANGLE (B)	_____	BOSS \varnothing (J)	_____
GROOVE ROOT \varnothing (C)	_____	NUMBER OF GROOVES (K)	_____
OUTSIDE \varnothing (D)	_____	PITCH OF GROOVES (L)	_____
DISTANCE FROM FACE TO EDGE OF GROOVE (E)	_____	BELT NUMBER (IF KNOWN) (M)	_____
GROOVE WIDTH (F)	_____	KEYWAY (N) (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
		TAPPED HOLE (O) (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>



Materials

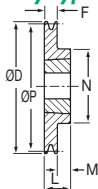
STD : Cast Iron

Each V-Pulley ordered comes supplied with one taper bush as standard.

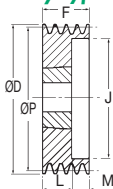
SPA

V-Pulleys

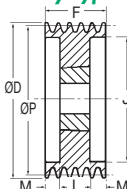
Pulley Type 1



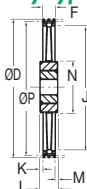
Pulley Type 2



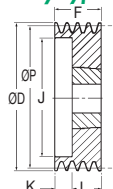
Pulley Type 3



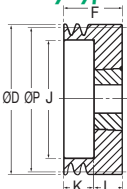
Pulley Type 4



Pulley Type 6



Pulley Type 9



Specials available
fax your details for a quote.

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

When ordering, please include the bush number and required bore.
A list of available bores for each bush are overleaf.

PART NUMBER	PULLEY TYPE	BUSH No.	PITCH ØP	ØD	No. of GROOVES	WEIGHT (kg)							PRICE EACH 1 - 5
						F	J	K	L	M	N		
SPA63/1	1	1008	63	68.5	1	20		22	2.0	56	0.27	£21.80	
SPA63/2	9	1008	63	68.5	2	55	38	33	22		0.72	£29.44	
SPA67/1	1	1108	67	72.5	1	20		22	2.0	56	0.31	£22.90	
SPA67/2	6	1108	67	72.5	2	35	38	13	22		0.44	£31.67	
SPA71/1	1	1108	71	76.5	1	20		22	2.0	60	0.37	£25.08	
SPA71/2	6	1108	71	76.5	2	35	42	13	22		0.52	£34.97	
SPA71/3	6	1108	71	76.5	3	50	42	28	22		0.68	£43.73	
SPA75/1	1	1108	75	80.5	1	20		22	2.0	56	0.43	£27.30	
SPA75/2	6	1108	75	80.5	2	35	46	10	25		0.50	£36.04	
SPA75/3	6	1108	75	80.5	3	50	46	25	25		0.58	£47.01	
SPA80/1	1	1210	80	85.5	1	20		25	5.0	75	0.51	£34.97	
SPA80/2	6	1210	80	85.5	2	35	46	10	25		0.64	£41.53	
SPA80/3	6	1210	80	85.5	3	50	46	25	25		0.88	£50.31	
SPA85/1	1	1210	85	90.5	1	20		25	5.0	80	0.62	£36.04	
SPA85/2	6	1210	85	90.5	2	35	46	10	25		0.79	£42.61	
SPA85/3	6	1210	85	90.5	3	50	46	25	25		1.09	£52.48	
SPA90/1	1	1210	90	95.5	1	20		25	5.0	80	0.71	£38.26	
SPA90/2	6	1610	90	95.5	2	35	61	10	25		0.73	£44.80	
SPA90/3	6	1610	90	95.5	3	50	61	25	25		0.96	£54.66	
SPA90/4	3	1615	90	95.5	4	65	61	13.5	38	13.5	1.28	£61.24	

Pulleys & Belts spa



PART NUMBER	PULLEY TYPE	BUSH No.	PITCH ØP	ØD	No. of GROOVES							WEIGHT (kg)	PRICE EACH 1 - 5
						F	J	K	L	M	N		
SPA95/1	1	1210	95	100.5	1	20			25	5.0	85	0.81	£38.26
SPA95/2	6	1610	95	100.5	2	35	66	10	25			0.86	£48.10
SPA95/3	6	1610	95	100.5	3	50	66	25	25			1.11	£57.96
SPA95/4	3	1615	95	100.5	4	65	66	13.5	3813.5			1.83	£70.01
SPA100/1	1	1610	100	105.5	1	20			25	5.0	85	0.81	£40.45
SPA100/2	6	1610	100	105.5	2	35	71	10	25			1.00	£51.10
SPA100/3	2	1610	100	105.5	3	50	71		2525.0			1.26	£59.06
SPA100/4	2	1615	100	105.5	4	65	71		3827.0			1.72	£73.27
SPA100/5	2	1615	100	105.5	5	80	71		3842.0			1.98	£87.55
SPA100/6	3	1615	100	105.5	6	95	71	28.5	3828.5			2.24	£97.39
SPA106/1	1	1610	106	111.5	1	20			25	5.0	92	0.97	£42.61
SPA106/2	6	1610	106	111.5	2	35	76	10	25			1.19	£52.48
SPA106/3	2	1610	106	111.5	3	50	76		2525.0			1.48	£62.34
SPA106/4	6	2012	106	111.5	4	65	76	33	32			1.63	£77.69
SPA106/5	6	2012	106	111.5	5	80	76	48	32			1.93	£93.03
SPA106/6	6	2012	106	111.5	6	95	76	63	32			2.22	£103.95
SPA112/1	1	1610	112	117.5	1	20			25	5.0	92	1.12	£44.80
SPA112/2	6	1610	112	117.5	2	35	83	10	25			1.37	£54.66
SPA112/3	6	2012	112	117.5	3	50	83	18	32			1.57	£66.72
SPA112/4	6	2012	112	117.5	4	65	83	33	32			1.87	£82.05
SPA112/5	6	2012	112	117.5	5	80	83	48	32			2.17	£97.39
SPA112/6	6	2012	112	117.5	6	95	83	63	32			2.47	£110.55
SPA118/1	1	1610	118	123.5	1	20			25	5.0	92	1.27	£47.01
SPA118/2	6	1610	118	123.5	2	35	90	10	25			1.56	£56.66
SPA118/3	2	2012	118	123.5	3	50	90		3218.0			1.81	£68.90
SPA118/4	2	2012	118	123.5	4	65	90		3233.0			2.12	£85.35
SPA118/5	2	2012	118	123.5	5	80	90		3248.0			2.42	£100.69
SPA118/6	4	2012	118	123.5	6	95	90	63	32			2.72	£112.72
SPA125/1	1	1610	125	130.5	1	20			25	5.0	92	1.46	£50.31
SPA125/2	6	1610	125	130.5	2	35	96	10	25			1.83	£59.06
SPA125/3	2	2012	125	130.5	3	50	96		3218.0			2.18	£72.20
SPA125/4	2	2012	125	130.5	4	65	96		3233.0			2.53	£89.72
SPA125/5	3	2012	125	130.5	5	80	96	24	3224.0			2.88	£106.14
SPA125/6	3	2012	125	130.5	6	95	96	31.5	3231.5			3.23	£119.30
SPA132/1	1	1610	132	137.5	1	20			25	5.0	92	1.66	£52.48
SPA132/2	6	2012	132	137.5	2	35	103	3	32			2.15	£61.24
SPA132/3	2	2012	132	137.5	3	50	103		3218.0			2.52	£63.43
SPA132/4	2	2517	132	137.5	4	65	103		4520.0			2.84	£75.47
SPA132/5	3	2517	132	137.5	5	80	103	17.5	4517.5			3.21	£93.03
SPA132/6	3	2517	132	137.5	6	95	103	25	4525.0			3.59	£112.72
SPA140/1	1	1610	140	145.5	1	20			25	5.0	92	1.90	£54.66
SPA140/2	6	2012	140	145.5	2	35	111	3	32			2.53	£66.72
SPA140/3	6	2517	140	145.5	3	50	111	5	45			3.00	£82.31
SPA140/4	2	2517	140	145.5	4	65	111		4520.0			3.40	£96.29
SPA140/5	3	2517	140	145.5	5	80	111	17.5	4517.5			3.80	£119.30
SPA140/6	3	2517	140	145.5	6	95	111	25	4525.0			4.21	£132.48
SPA150/1	1	1610	150	155.5	1	20			25	5.0	92	2.22	£57.96
SPA150/2	6	2012	150	155.5	2	35	121	3	32			3.04	£70.01
SPA150/3	6	2517	150	155.5	3	50	121	5	45			3.72	£85.35
SPA150/4	2	2517	150	155.5	4	65	121		4520.0			4.16	£103.95
SPA150/5	3	2517	150	155.5	5	80	121	17.5	4517.5			4.59	£125.91
SPA150/6	3	2517	150	155.5	6	95	121	25	4525.0			5.03	£143.43

Materials

STD : Cast Iron

V-Pulley Bushes

Specials available - please FAX for a quotation. * = Shallow Key not to BS. Each V-Pulley ordered comes supplied with one bush as standard. Prices are for further bush orders as required. When ordering, please add the desired bore to the part number in place of the 'X'

BUSH NUMBER	AVAILABLE BORES /X	NOMINAL ØD	WEIGHT (kg)	KEYWAY	BSW SET SCREW	KEY SIZE FOR SCREWS	PRICE EA. 1 - 5
1008/x	12	35	0.11	4 x 1.8	1/4" x 1/2"	3.18	£11.58
	14 16	35	0.11	5 x 2.3	1/4" x 1/2"	3.18	£11.58
	18 19 20 22	35	0.11	6 x 2.8	1/4" x 1/2"	3.18	£11.58
	24 25	35	0.11	8 x 1.3*	1/4" x 1/2"	3.18	£11.58
1108/x	12	38	0.12	4 x 1.8	1/4" x 1/2"	3.18	£11.58
	14 16	38	0.12	5 x 2.3	1/4" x 1/2"	3.18	£11.58
	18 19 20 22	38	0.12	6 x 2.8	1/4" x 1/2"	3.18	£11.58
	24	38	0.12	8 x 3.3	1/4" x 1/2"	3.18	£11.58
	25 28	38	0.12	8 x 1.3*	1/4" x 1/2"	3.18	£11.58
1210/x	12	48	0.23	4 x 1.8	3/8" x 5/8"	4.76	£13.97
	14 16	48	0.23	5 x 2.3	3/8" x 5/8"	4.76	£13.97
	18 19 20 22	48	0.23	6 x 2.8	3/8" x 5/8"	4.76	£13.97
	24 25 28	48	0.23	8 x 3.3	3/8" x 5/8"	4.76	£13.97
	30 32	48	0.23	10 x 1.3*	3/8" x 5/8"	4.76	£13.97
	12	48	0.35	4 x 1.8	3/8" x 5/8"	4.76	£16.19
1215/x	14 16	48	0.35	5 x 2.3	3/8" x 5/8"	4.76	£16.19
	18 19 20 22	48	0.35	6 x 2.8	3/8" x 5/8"	4.76	£16.19
	24 25 28	48	0.35	8 x 3.3	3/8" x 5/8"	4.76	£16.19
	30 32	48	0.35	10 x 1.3*	3/8" x 5/8"	4.76	£16.19
1310/x	14 16	51	0.28	5 x 1.8	3/8" x 5/8"	4.76	£17.13
	18 19 20 22	51	0.28	6 x 2.8	3/8" x 5/8"	4.76	£17.13
	24 25 28 30	51	0.28	8 x 3.3	3/8" x 5/8"	4.76	£17.13
	32	51	0.28	10 x 3.3	3/8" x 5/8"	4.76	£17.13
	35	51	0.28	10 x 1.3*	3/8" x 5/8"	4.76	£17.13
1610/x	14 16	57	0.35	5 x 2.3	3/8" x 5/8"	4.76	£17.13
	18 19 20 22	57	0.35	6 x 2.8	3/8" x 5/8"	4.76	£17.13
	24 25 28 30	57	0.35	8 x 3.3	3/8" x 5/8"	4.76	£17.13
	32 35 38	57	0.35	10 x 3.3	3/8" x 5/8"	4.76	£17.13
	40 42	57	0.35	12 x 1.3*	3/8" x 5/8"	4.76	£17.13
1615/x	14 16	57	0.45	5 x 2.3	3/8" x 5/8"	4.76	£19.54
	18 19 20 22	57	0.45	6 x 2.8	3/8" x 5/8"	4.76	£19.54
	24 25 28 30	57	0.45	8 x 3.3	3/8" x 5/8"	4.76	£19.54
	32 35 38	57	0.45	10 x 3.3	3/8" x 5/8"	4.76	£19.54
	40 42	57	0.45	12 x 1.3*	3/8" x 5/8"	4.76	£19.54
2012/x	19 20 22	70	0.68	6 x 2.8	7/16" x 5/8"	5.55	£20.56
	24 25 28 30	70	0.68	8 x 3.3	7/16" x 5/8"	5.55	£20.56
	32 35 38	70	0.68	10 x 3.3	7/16" x 5/8"	5.55	£20.56
	40 42	70	0.68	12 x 3.3	7/16" x 5/8"	5.55	£20.56
	45 48	70	0.68	14 x 3.8	7/16" x 5/8"	5.55	£20.56
	50	70	0.68	14 x 2.8*	7/16" x 5/8"	5.55	£20.56

Pulleys & Belts BUSHES



Materials

STD : Neoprene

V-Pulley Belts

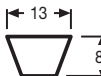
Section 13 x 8mm NVB

Specials available fax for a free quote.

DISCOUNTS

1 - 5	6 - 19	20 - 39	40 - 59	60 - 99	100 - 200
List Price	- 12%	- 25%	- 33%	- 37%	- 42%

OUTSIDE LENGTH = IL + 50mm

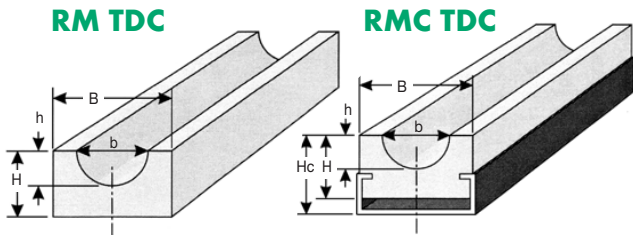


LENGTH = INSIDE LENGTH

PART NUMBER	LENGTH (mm)	PRICE EA.	PART NUMBER	LENGTH (mm)	PART NUMBER		LENGTH PRICE EA.	
					1 - 5	1 - 5	(mm)	1 - 5
NVB13/254	254	£7.10	NVB13/1030	1030	£11.40	NVB13/2000	2000	£19.39
NVB13/280	280	£7.10	NVB13/1041	1041	£11.52	NVB13/2032	2032	£19.92
NVB13/305	305	£7.10	NVB13/1050	1050	£11.59	NVB13/2060	2060	£19.93
NVB13/330	330	£7.10	NVB13/1060	1060	£11.70	NVB13/2083	2083	£20.11
NVB13/355	355	£7.10	NVB13/1075	1075	£11.83	NVB13/2110	2110	£20.42
NVB13/381	381	£7.10	NVB13/1100	1100	£11.91	NVB13/2120	2120	£20.57
NVB13/407	407	£7.10	NVB13/1105	1105	£12.05	NVB13/2134	2134	£20.66
NVB13/432	432	£7.10	NVB13/1120	1120	£12.09	NVB13/2160	2160	£20.91
NVB13/457	457	£7.10	NVB13/1143	1143	£12.33	NVB13/2180	2180	£21.15
NVB13/480	480	£7.10	NVB13/1150	1150	£12.42	NVB13/2210	2210	£21.38
NVB13/508	508	£7.10	NVB13/1168	1168	£12.51	NVB13/2240	2240	£21.67
NVB13/535	535	£7.45	NVB13/1180	1180	£12.64	NVB13/2260	2260	£21.95
NVB13/560	560	£8.06	NVB13/1200	1200	£12.75	NVB13/2286	2286	£22.15
NVB13/575	575	£8.06	NVB13/1215	1215	£12.78	NVB13/2310	2310	£22.45
NVB13/585	585	£8.12	NVB13/1220	1220	£13.12	NVB13/2337	2337	£22.69
NVB13/600	600	£8.12	NVB13/1225	1225	£13.04	NVB13/2360	2360	£22.99
NVB13/610	610	£8.19	NVB13/1240	1240	£13.09	NVB13/2388	2388	£23.24
NVB13/630	630	£8.50	NVB13/1250	1250	£13.12	NVB13/2413	2413	£23.49
NVB13/650	650	£8.50	NVB13/1270	1270	£13.32	NVB13/2438	2438	£23.74
NVB13/660	660	£8.54	NVB13/1300	1300	£13.49	NVB13/2464	2464	£24.02
NVB13/670	670	£8.66	NVB13/1320	1320	£13.71	NVB13/2500	2500	£24.24
NVB13/686	686	£8.78	NVB13/1350	1350	£13.96	NVB13/2515	2515	£24.57
NVB13/700	700	£8.86	NVB13/1375	1375	£14.12	NVB13/2540	2540	£24.81
NVB13/710	710	£8.93	NVB13/1400	1400	£14.33	NVB13/2565	2565	£25.08
NVB13/730	730	£9.22	NVB13/1422	1422	£14.51	NVB13/2591	2591	£25.41
NVB13/750	750	£9.22	NVB13/1450	1450	£14.69	NVB13/2616	2616	£25.67
NVB13/767	767	£9.28	NVB13/1475	1475	£14.90	NVB13/2650	2650	£25.96
NVB13/775	775	£9.35	NVB13/1500	1500	£15.06	NVB13/2667	2667	£26.27
NVB13/787	787	£9.55	NVB13/1525	1525	£15.33	NVB13/2692	2692	£26.55
NVB13/800	800	£9.65	NVB13/1550	1550	£15.42	NVB13/2725	2725	£26.87
NVB13/813	813	£9.72	NVB13/1575	1575	£15.65	NVB13/2743	2743	£27.16
NVB13/825	825	£9.96	NVB13/1600	1600	£15.86	NVB13/2769	2769	£27.42
NVB13/838	838	£9.97	NVB13/1625	1625	£16.12	NVB13/2800	2800	£27.79
NVB13/850	850	£10.01	NVB13/1650	1650	£16.27	NVB13/2845	2845	£28.52
NVB13/864	864	£10.12	NVB13/1676	1676	£16.46	NVB13/2870	2870	£28.69
NVB13/875	875	£10.22	NVB13/1700	1700	£16.70	NVB13/2896	2896	£29.03
NVB13/889	889	£10.32	NVB13/1725	1725	£16.90	NVB13/2921	2921	£29.35
NVB13/900	900	£10.45	NVB13/1750	1750	£17.13	NVB13/2946	2946	£29.72
NVB13/914	914	£10.54	NVB13/1775	1775	£17.29	NVB13/3000	3000	£30.38
NVB13/925	925	£10.68	NVB13/1800	1800	£17.52	NVB13/3048	3048	£30.96
NVB13/940	940	£10.75	NVB13/1825	1825	£17.78	NVB13/3100	3100	£31.67
NVB13/950	950	£10.81	NVB13/1854	1854	£17.94	NVB13/3150	3150	£32.25
NVB13/965	965	£10.94	NVB13/1880	1880	£18.18	NVB13/3200	3200	£32.72
NVB13/975	975	£11.01	NVB13/1900	1900	£18.47	NVB13/3250	3250	£33.36
NVB13/990	990	£11.10	NVB13/1930	1930	£18.68	NVB13/3300	3300	£33.97
NVB13/1000	1000	£11.18	NVB13/1956	1956	£18.94	NVB13/3350	3350	£34.55
NVB13/1016	1016	£11.28	NVB13/1980	1980	£19.14			

Pulleys & Belts NVB





Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

For other sizes, grades or colours
consult our Technical department.

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

without C Section Slots

PART NUMBER	Finished Size				PRICE PER METRE
	B	H	b	h	
TDCR5.0RM5	20	10	5.5	3.0	£43.86
TDCR6.3RM6	20	10	7.0	3.5	£43.86
TDCR8.0RM8	20	12	8.5	4.5	£45.35
TDCR9.5RM10	25	15	12.0	6.0	£50.27
TDCR12.5RM12	30	20	13.0	6.5	£58.33
TDCR15.0RM15	35	25	15.5	8.0	£68.04
TDCR18.0RM18	40	25	18.5	9.5	£72.20
TDCR20.0RM20	45	30	20.5	10.5	£84.39

with C Section Slots

PART NUMBER	Finished Size					C Profile	PRICE PER METRE
	B	H	b	h	Hc		
TDCR5.0RM50C	20	10	5.5	3.0	15.0	TDC 2010	£80.10
TDCR6.3RM60C	20	15	7.0	3.5	18.0	TDC 2010	£83.97
TDCR8.0RM80C	20	15	8.5	4.5	18.0	TDC 2010	£83.97
TDCR9.5RM100C	25	15	12.0	6.0	20.0	TDC 2812	£86.52
TDCR12.5RM120C	28	15	13.0	6.5	20.0	TDC 2812	£88.00
TDCR15.0RM150C	33	20	15.5	8.0	25.0	TDC 3818	£96.57
TDCR18.0RM180C	38	20	18.5	9.5	25.0	TDC 3818	£99.85
TDCR20.0RM200C	38	25	20.5	10.5	30.0	TDC 3818	£106.70

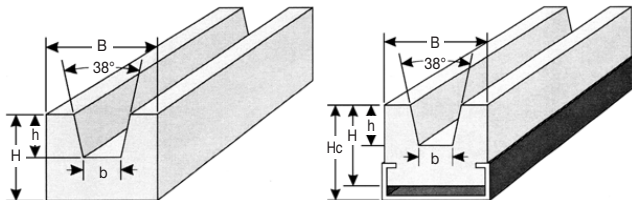
Materials

Belt Guides for V-Belts

STD : Polyethylene (U.H.M.W.Pe) Green DIN 2215

ALTERNATIVE : 1000 Black Antistatic

TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

For other sizes, grades or colours consult our Technical department.

without C Section Slots

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

PART NUMBER	B	Finished Size			PRICE PER METRE
		H	b	h	
TDCR8F	20	10	5.0	3.5	£44.30
TDCR10Z	20	10	6.5	4.5	£44.30
TDCR13A	20	12	8.5	6.0	£44.30
TDCR17B	30	15	10.5	8.0	£44.30
TDCR20G	30	20	12.5	9.0	£59.23
TDCR22C	35	20	14.0	10.5	£62.60
TDCR25H	40	25	15.5	12.0	£73.19
TDCR32D	50	30	20.0	16.0	£90.34
TDCR40E	60	35	25.0	21.0	£111.04

with C Section Slots

PART NUMBER	B	Finished Size			C Profile	PRICE PER METRE
		H	b	h		
TDCR8FOC	20	10	5.0	3.5	15 TDC 2010	£82.05
TDCR10ZOC	20	15	6.5	4.5	18 TDC 2010	£82.05
TDCR13AOC	25	18	8.5	6.0	22 TDC 2012	£82.05
TDCR17BOC	30	18	10.5	8.0	24 TDC 2812	£82.05
TDCR20GOC	30	18	12.5	9.0	24 TDC 2812	£99.95
TDCR22COC	35	25	14.0	10.5	30 TDC 3818	£106.21
TDCR25HOC	40	25	15.5	12.0	32 TDC 3818	£110.26
TDCR32DOC	60	35	20.0	16.0	40 TDC 3024	£148.26
TDCR40EOC	60	35	25.0	21.0	40 TDC 3024	£148.26

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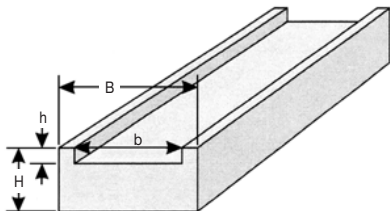
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Pulleys & Belts TDC

Belt Guides for Flat & Timing Belts Materials

STD : Polyethylene (U.H.M.W.Pe) Green

TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

For other sizes, grades or colours
consult our Technical department.

Pulleys & Belts TDC

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

without C Section Slots

PART NUMBER	Finished Size			h	PRICE PER METRE
	B	H	b		
TDC5BG10	20	15	12	1.5	£47.72
TDC5BG16	28	15	18	1.5	£51.77
TDC5BG20	30	15	22	1.5	£52.79
TDC5BG25	38	20	27	1.5	£63.61
TDC5BG32	42	20	34	1.5	£66.41
TDC5BG50	60	25	52	1.5	£88.98
TDC10BG20	28	15	22	3.5	£51.77
TDC10BG25	38	20	27	3.5	£63.61
TDC10BG32	42	20	34	3.5	£66.41
TDC10BG50	60	25	52	3.5	£88.98
TDC10BG75	87	25	77	3.5	£111.60
TDC10BG100	112	25	102	3.5	£132.53
TDC10BG150	162	25	152	3.5	£174.39
TDC20BG25	38	20	27	6.5	£63.61
TDC20BG32	42	20	34	6.5	£66.41
TDC20BG50	60	25	52	6.5	£88.92
TDC20BG75	87	25	77	6.5	£111.60
TDC20BG100	112	25	102	6.5	£132.53
TDC20BG150	162	25	152	6.5	£174.39

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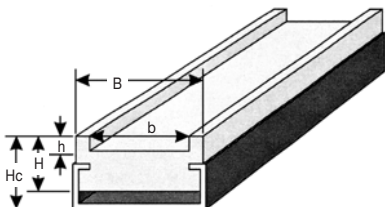
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Materials **Belt Guides** for Flat & Timing Belts

STD : Polyethylene (U.H.M.W.Pe) Green DIN 2215

ALTERNATIVE : 1000 Black Antistatic

TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

For other sizes, grades or colours consult our Technical department.

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

with C Section Slots

PART NUMBER	B	H	Finished Size			C Profile	PRICE PER METRE
			b	h	Hc		
TDC5BG10C	20	15	12	1.5	17.5	TDC 2010	£83.97
TDC5BG16C	28	15	18	1.5	18.0	TDC 2812	£87.91
TDC5BG20C	30	15	22	1.5	18.0	TDC 2812	£89.01
TDC5BG25C	38	20	27	1.5	25.0	TDC 3818	£99.85
TDC5BG32C	42	20	34	1.5	25.0	TDC 3818	£102.58
TDC5BG50C	60	25	52	1.5	30.0	TDC 6020	£125.18
TDC10BG20C	28	15	18	3.5	18.0	TDC 2812	£87.91
TDC10BG25C	38	20	27	3.5	25.0	TDC 3818	£99.85
TDC10BG32C	40	20	34	3.5	25.0	TDC 3818	£102.58
TDC10BG50C	60	25	52	3.5	30.0	TDC 6020	£125.18
TDC20BG25C	38	20	27	6.5	28.0	TDC 3818	£99.85
TDC20BG32C	42	20	34	6.5	28.0	TDC 3818	£102.58
TDC20BG50C	60	25	52	6.5	30.0	TDC 6020	£125.18
TDC20BG75C	87	25	77	6.5	30.0	TDC 2175	£147.83
TDC20BG100C	112	25	102	6.5	30.0	TDC 21100	£168.75
TDC20BG150C	162	25	152	6.5	30.0	TDC 21125	£210.64

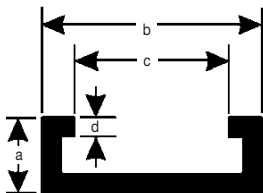
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12.135

Pulleys & Belts
TDC



Standard Lengths : 2 Metres

Other lengths and types available on request.

For further information, please contact our Sales department

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

PART NUMBER	Finished Size				Material	PRICE PER METRE
	a	b	c	d		
TDC2010	10	20	10	1.5	Galvanised	£7.27
TDC2010-SS	10	20	10	1.5	Stainless	£25.61
TDC2812	12	28	14	2.0	Galvanised	£14.08
TDC2812-SS	12	28	14	2.0	Stainless	£43.49
TDC3818	18	38	22	2.5	Galvanised	£18.49
TDC3818-SS	18	38	22	2.5	Stainless	£83.11
TDC3024	24	30	20	1.5	Galvanised	£20.77
TDC3024-SS	24	30	20	1.5	Stainless	£53.75
TDC4540	40	45	31	2.0	Galvanised	£28.29
TDC4540-SS	40	45	31	2.0	Stainless	£127.14
TDC6020	20	60	36	2.5	Galvanised	£31.73
TDC6020-SS	20	60	36	2.5	Stainless	£136.94

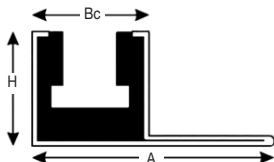
Materials **Guide Rails** for Simplex Chains

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

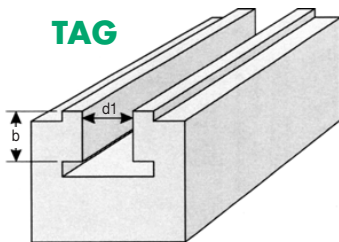
ALTERNATIVE : Stainless Steel

TDC

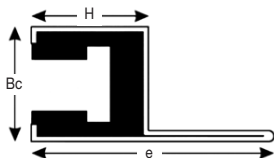
TAG V 15



TAG



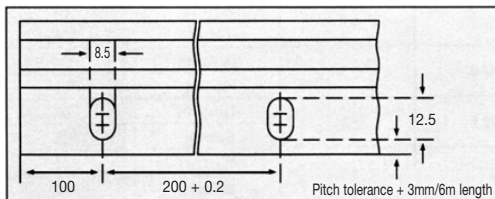
TAG G 14



Standard Lengths : 2 Metres

Prices shown are for Galvanised Profile and Polyethylene Chain Guide.

For other sizes, grades or colours consult our Technical department.



G for Galvanised Steel
S for Stainless Steel

EXAMPLE:

TAG V 15 - TDC 08B

The continuous mounting strip is provided with slotted holes for 8mm diameter screws at 200mm centres, allowing for adjustment.

PART NUMBER	Pitch	d1	Bc	Finished Size b	H	e	A	PRICE PER METRE
TDC06B	3/8" x 7/32"	6.60	30	5.60	24	47	53	£150.72
TDC083	1/2" x 3/16"	8.00	30	4.70	24	47	53	£183.75
TDC084	1/2" x 1/4"	8.00	30	6.30	24	47	53	£183.75
TDC085	1/2" x 1/4"	8.70	30	6.30	24	47	53	£183.75
TDC08B	1/2" x 5/16"	8.70	30	7.60	24	47	53	£150.72
TDC086	5/8" x 1/4"	10.40	30	6.30	24	47	53	£183.75
TDC10B	5/8" x 3/8"	10.40	30	9.50	24	47	53	£150.72
TDC12B	3/4" x 7/16"	12.30	30	11.50	24	47	53	£150.72

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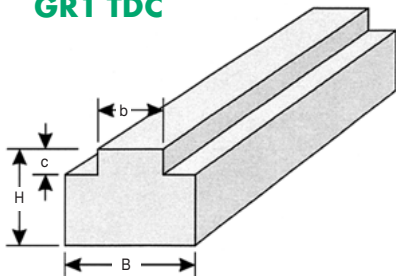
Pulleys & Belts TDC

Guide Rails for Simplex Chains Materials

TDC

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

GR1 TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

For other sizes, grades or colours consult our Technical department.

without C Section Slots

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

PART NUMBER	Pitch	b	Finished Size		H	PRICE PER METRE
			B	c		
TDC04-1GR1	6 x 2.8mm	2.6	10	1.0	10	£43.49
TDC05B-1GR1	8 x 3mm	2.8	10	1.5	10	£43.49
TDC053-1GR1	3/8" x 5/32"	3.8	15	1.5	10	£45.08
TDC06B-1GR1	3/5" x 7/32"	5.5	15	1.5	10	£45.08
TDC081-1GR1	1/2" x 3.3mm	3.0	12	1.5	10	£44.05
TDC084-1/1GR1	1/2 x 4.9mm	4.6	17	2.0	10	£45.82
TDC083-1GR1	1/2" x 3/16"	4.7	15	1.6	10	£45.08
TDC084-1/2GR1	1/2" x 1/4"	6.2	20	2.1	10	£46.82
TDC08B-1GR1	1/2" x 5/16"	7.5	20	2.2	10	£46.82
TDC086-1GR1	5/8" x 1/4"	6.3	20	2.6	10	£46.82
TDC10B-1GR1	5/8" x 3/8"	9.3	20	2.6	15	£46.82
TDC12B-1GR1	3/4" x 7/16"	11.3	25	2.4	15	£46.82
TDC16B-1GR1	1" x 17mm	16.5	40	4.3	15	£60.77
TDC20B-1GR1	1 1/4" x 3/4"	19.0	45	4.2	15	£63.26
TDC24B-1GR1	1 1/2" x 1"	24.7	60	5.5	15	£70.82
TDC28B-1GR1	1 3/4" x 31mm	30.1	75	6.8	20	£91.44
TDC32B-1GR1	2" x 31mm	30.1	80	7.7	20	£94.72

Pulleys & Belts TDC

12.138



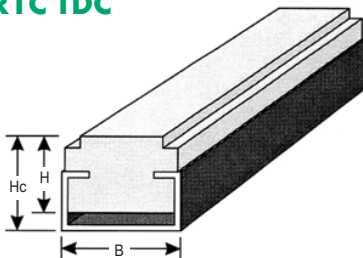
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials **Guide Rails** for Simplex Chains

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

TDC

GR1C TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

**For other sizes, grades or colours
consult our Technical department.**

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

with C Section Slots

PART NUMBER	Pitch	Finished Size			C Profile	PRICE PER METRE
		B	H	Hc		
TDC083-10C/A	1/2" x 3/16"	20	10	15	TDC 2010	£83.03
TDC084-10C	1/2" x 1/4"	20	10	15	TDC 2010	£83.03
TDC08B-10C/A	1/2" x 5/16"	20	10	15	TDC 2010	£83.03
TDC083-10C/B	1/2" x 3/16"	17	15	17	TDC 2010	£83.03
TDC085-10C	1/2" x 1/4"	17	15	17	TDC 2010	£83.03
TDC08B-10C/B	1/2" x 5/16"	17	15	17	TDC 2010	£83.03
TDC086-10C	5/8" x 1/4"	17	15	17	TDC 2010	£83.03
TDC10B-10C	5/8" x 3/8"	17	15	17	TDC 2010	£83.03
TDC12B-10C/A	3/4" x 7/16"	20	15	17	TDC 2010	£83.03
TDC12B-10C/B	3/4" x 7/16"	24	15	18	TDC 2812	£83.03
TDC16B-10C	1" x 17mm	24	15	18	TDC 2812	£88.98
TDC20B-10C	1 1/4" x 3/4"	28	15	18	TDC 2812	£90.95
TDC24B-10C	1 1/2" x 1mm	33	25	30	TDC 3818	£105.44
TDC28B-10C	1 3/4" x 31"	38	25	30	TDC 3818	£109.63
TDC32B-10C	2" x 31"	38	25	30	TDC 3818	£109.63

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12.139

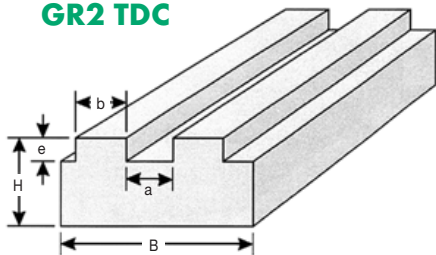
Pulleys & Belts
TDC

Guide Rails for Duplex Chains Materials

TDC

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

GR2 TDC



Standard Lengths : 2 Metres

For other sizes, grades or colours
consult our Technical department.

Pulleys & Belts TDC

for Duplex Chains

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

PART NUMBER	Pitch	Finished Size				PRICE PER METRE	
		a	b	B	e		
TDC05B-2	8 x 3mm	2.6	2.8	16	1.5	10	£48.55
TDC06B-2	3/8" x 7/32"	4.6	5.5	25	1.5	10	£51.56
TDC08B-2	1/2" x 5/16"	6.2	7.5	35	2.2	10	£51.56
TDC10B-2	5/8" x 3/5"	7.0	9.3	40	2.6	10	£51.56
TDC12B-2	3/4" x 7/16"	7.8	11.3	45	2.4	10	£51.56
TDC16B-2	1" x 17mm	15.0	16.5	48	4.3	15	£51.56
TDC20B-2	1 1/4" x 3/4"	17.0	19.0	55	4.2	15	£71.30
TDC24B-2	1 1/2" x 1"	22.6	24.7	72	5.5	20	£92.40
TDC28B-2	1 3/4" x 31mm	28.8	30.1	89	6.8	25	£119.13
TDC32B-2	2" x 31mm	27.8	30.1	88	7.7	30	£133.60

12.140



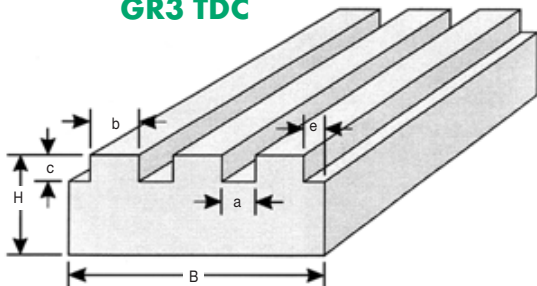
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Materials **Guide Rails** for Triplex Chains

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

TDC

GR3 TDC



Standard Lengths : 2 Metres

**For other sizes, grades or colours
consult our Technical department.**

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

for Triplex Chains

PART NUMBER	Pitch	a	b	e	Finished Size B	c	H	PRICE PER METRE
TDC06B-3	3/8" x 7/32"	4.7	5.5	4.55	35	1.5	10	£57.91
TDC08B-3	1/2" x 5/16"	6.5	7.4	4.40	44	2.2	10	£60.91
TDC10B-3	5/8" x 3/8"	7.4	9.2	5.30	53	2.6	10	£63.99
TDC12B-3	3/4" x 7/16"	8.9	11.2	5.90	62	3.0	10	£66.93
TDC16B-3	1" x 17mm	15.4	16.5	11.85	104	3.5	15	£99.05

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12.141

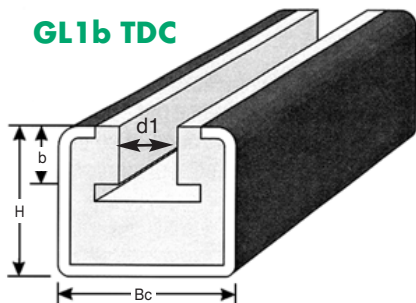
Pulleys & Belts TDC

Guide Rails for Simplex Chains Materials

TDC

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

GL1b TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

For other sizes, grades or colours consult our Technical department.

Pulleys & Belts TDC

for Simplex Chains

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

PART NUMBER	Pitch	d1	Finished Size Bc	b	H	PRICE PER METRE
TDC053-10U	3/8" x 5/32"	6.6	30	3.8	24	£100.24
TDC06B-10U	3/8" x 7/32"	6.6	30	5.6	24	£100.24
TDC083-10U	1/2" x 3/16"	8.0	30	4.7	24	£100.24
TDC084-10U	1/2" x 1/4"	8.0	30	6.3	24	£100.24
TDC085-10U	1/2" x 1/4"	8.7	30	6.3	24	£100.24
TDC08B-10U	1/2" x 5/16"	8.7	30	7.6	24	£100.24
TDC086-10U	5/8" x 1/4"	10.4	30	6.3	24	£100.24
TDC10B-10U	5/8" x 3/8"	10.4	30	9.5	24	£100.24
TDC12B-10U	3/4" x 7/16"	12.3	30	11.5	24	£100.24
TDC16B-10U	1" x 17mm	16.1	45	16.5	40	£135.98
TDC20B-10U	1 1/4" x 3/4"	19.3	45	17.5	40	£135.98

12.142



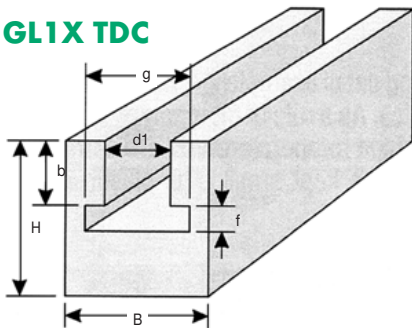
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Materials **Guide Rails** for Simplex Chains

STD : Polyethylene (U.H.M.W.Pe) Green DIN 8187

TDC

GL1X TDC



Standard Lengths : 2 Metres

Prices do not include 'C' Profiles.

**For other sizes, grades or colours
consult our Technical department.**

DISCOUNTS

1 - 9	List Price
10 - 49	- 20%
50 - 100	- 50%

for Simplex Chains

PART NUMBER	Pitch	d1	g	Finished Size			H	PRICE PER METRE
				B	f	b		
TDC053-1GL1X	3/8" x 5/32"	6.6	9.3	20	4.2	3.8	25	£60.91
TDC06B-1GL1X	3/8" x 7/32"	6.6	9.3	20	4.3	5.6	25	£60.91
TDC083-1GL1X	1/2" x 3/16"	8.0	10.8	20	3.6	4.7	25	£60.91
TDC084-1GL1X	1/2" x 1/4"	8.0	11.8	24	4.9	6.3	30	£68.49
TDC085-1GL1X	1/2" x 1/4"	8.7	12.8	24	5.0	6.3	30	£68.49
TDC08B-1GL1X	1/2" x 5/16"	8.7	12.8	24	5.1	7.6	30	£68.49
TDC086-1GL1X	5/8" x 1/4"	10.4	15.4	30	5.4	6.3	30	£75.21
TDC10B-1GL1X	5/8" x 3/8"	10.4	15.4	30	5.3	9.5	35	£80.46
TDC12B-1GL1X	3/4" x 7/16"	12.3	16.9	40	6.0	11.5	35	£93.12
TDC16B-1GL1X	1" x 17mm	16.1	24.4	40	9.9	16.5	45	£106.68
TDC20B-1GL1X	1 1/4" x 3/4"	19.3	27.5	50	11.8	19.4	50	£130.97
TDC24B-1GL1X	1 1/2" x 1"	25.7	36.5	60	14.9	25.2	60	£168.82
TDC28B-1GL1X	1 3/4" x 31mm	28.3	41.5	60	18.1	30.8	70	£188.60
TDC32B-1GL1X	2" x 31mm	28.3	41.5	70	22.2	30.8	75	£225.18

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12.143

Pulleys & Belts TDC

Materials

STD : Steel

Universal Tensioner

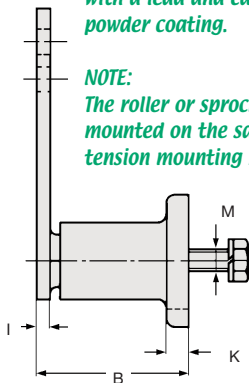
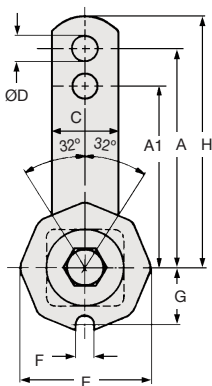
TE



For use in mechanical engineering and allied industries where possible corrosion is not permitted. Usually fitted as chain and belt tensioners with a single bolt they are simply fitted by friction hold in any position.

The RESATEC Universal Tension Type TE-1 is maintenance free and safe in operation. They can be supplied with a lead and cadmium-free powder coating.

Max. op. temp. 85° C



NOTE:

The roller or sprocket must be mounted on the same side as the tension mounting bracket.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	A1	A	B	C	ØD	E	F	G	H	I	K	M	F in N 0-32	WEIGHT (kg)	PRICE EACH 1 - 5
TE2	60	80	52	20	8.5	38	8.0	17	90	5	7	6	0-90	0.250	£28.37
TE3	80	100	63	25	10.5	48	8.5	21	112.5	5	10	8	0-140	0.450	£33.56
TE4	80	100	78	30	10.5	59	8.5	25	115	6	12	10	0-320	0.700	£40.05
TE5	100	130	108	50	12.5	76	10.5	34	155	8	15	12	0-820	1.800	£62.02
TE6	140	175	140	60	20.5	97	12.5	43	205	10	17	16	0-1500	3.700	£105.97
TE7	175	220	198	70	20.5	112	12.5	50	255	12	12	20	0-2500	6.500	£164.32

Chain & Belts TE

12.144



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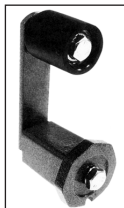
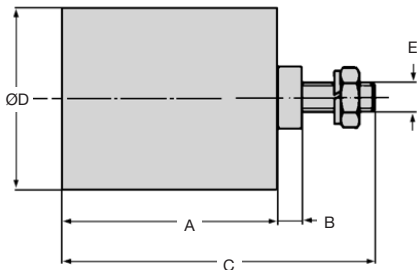


The Rollerset consists of the PA 6 roll with high quality ball bearings, galvanised bolt, nut and distance bushes.

The Belt tensioners are used for automatic and maintenance free tensioning of V-, flat- and tooth belts.

NOTE:

The roller must be mounted on the same side as the tension mounting bracket, as shown in the picture.



Part Number	Art. No.	suitable for
RE2	552 002 00	TE 2
RE3/4	552 003 00	TE 3 - TE 4
RE5	552 005 00	TE 5
RE6	552 006 00	TE 6 - TE 7
RE7	552 007 00	TE 7

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	ART No.	A	B	C	D	E	WEIGHT (kg)	PRICE EACH 1 - 5
RE2	550 002 00	35	3	51	30	M8	0.075	£26.30
RE3/4	550 003 00	45	6	67	40	M10	0.170	£31.58
RE5	550 005 00	60	7.5	89	60	M12	0.395	£51.45
RE6	550 006 00	90	9	127	80	M20	1.200	£90.78
RE7	550 007 00	135	7	167	80	M20	1.700	£149.32

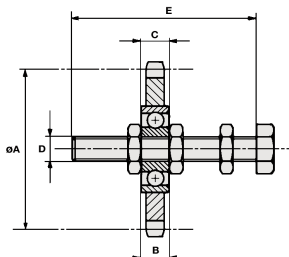
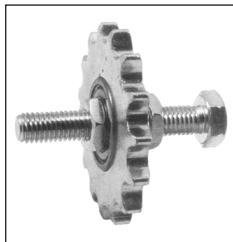


Sprocket Wheel Set

Materials

Type KS Simplex

STD : Steel

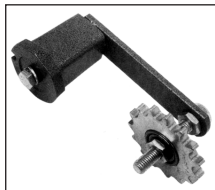


The Sprocket Wheel Set is equipped with a high quality ball bearing. The bolt (with nuts) and the sprocket wheel are galvanised.

NOTE:

The sprocket must be mounted on the same side as the tension mounting bracket, as shown in the picture.

Sprockets & Chains KS



Part Number	Art. No.	suitable for
KS3/8x7/32-10	551 020 00	TE 3 - TE 4
KS1/2x5/16-10	551 030 00	TE 3 - TE 4
KS5/8x3/8-12	551 050 00	TE 5
KS3/4x7/16-12	551 070 00	TE 5
KS3/4x7/16-20	551 080 00	TE 6
KS1x17.02-20	551 090 00	TE 6
KS1 1/4x3/4-20	551 100 00	TE 7
KS1 1/2x1-20	551 110 00	TE 7

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	ART No.	No. of TEETH	ØA	B	C	D	E	ISO #	WEIGHT (kg)	PRICE EACH 1 - 5
KS3/8x7/32-10	551 020 00	15	45.81	9	5.7	M10	60	ISO-06B	0.150	£23.09
KS1/2x5/16-10	551 030 00	15	61.08	9	7.5	M10	60	ISO-08B	0.200	£24.22
KS5/8x3/8-12	551 050 00	15	76.36	12	9.1	M12	80	ISO-10B	0.370	£31.32
KS3/4x7/16-12	551 070 00	15	91.63	12	11.5	M12	80	ISO-12B	0.600	£37.41
KS3/4x7/16-20	551 080 00	15	91.63	15	11.5	M20	120	ISO-12B	0.900	£54.54
KS1x17.02-20	551 090 00	13	106.14	15	16.2	M20	120	ISO-16B	1.300	£63.01
KS1 1/4x3/4-20	551 100 00	13	132.67	15	18.5	M20	140	ISO-20B	2.050	£90.22
KS1 1/2x1-20	551 110 00	11	135.23	15	24.1	M20	140	ISO-24B	2.400	£112.16

13.0



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Sprockets and Chains

Pages 13.2 – 13.50

NOTE: SPROCKET OUTSIDE DIAMETERS STATED ARE NOMINAL. THEY MAY BE SMALLER ON SOME PITCHES DUE TO THE TOPPING ACTION OF THE CUTTER.

TECHNICAL

Pages 27.61– 27.66



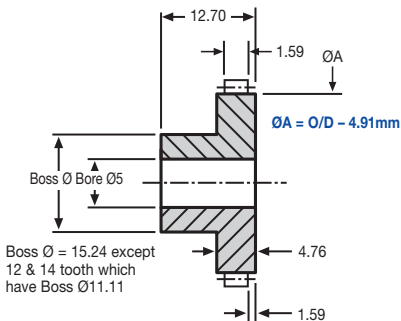
For non-standard Sprockets and Chains send a drawing or sample for a free, no-obligation quote.

Ladder Sprockets

Materials

PSA : 3.75 Pitch, 2.29 Roller

STD : Aluminium



SPECIAL TEETH : **between 12 - 72**

Manufactured to H8 tolerance.

Sprockets under 18 teeth to be used as idlers only.

Price on application.

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

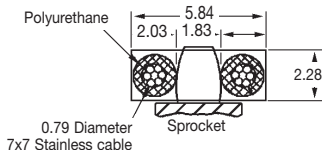
PART NUMBER	No. of Teeth	ØD	PCD	PRICE EA. 1 - 5
PSA12	12	16.41	14.31	£16.53
PSA14	14	18.82	16.70	£17.55
PSA15	15	20.02	17.89	£18.61
PSA16	16	21.21	19.08	£19.64
PSA18	18	23.62	21.47	£20.67
PSA20	20	26.01	23.85	£21.71
PSA22	22	28.42	26.24	£22.75
PSA24	24	30.81	28.62	£23.83
PSA25	25	32.00	29.81	£24.81
PSA26	26	33.22	31.01	£25.89
PSA28	28	35.61	33.39	£26.90
PSA30	30	38.02	35.78	£27.96
PSA32	32	40.41	38.16	£28.99
PSA34	34	42.82	40.55	£30.04
PSA35	35	44.02	41.74	£31.07
PSA36	36	45.21	42.93	£32.10
PSA38	38	47.63	45.32	£33.16

Materials

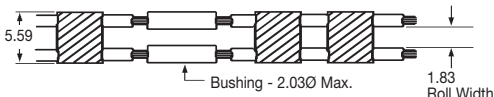
STD : Body : Blue Polyurethane.
Core & Bushing : Stainless Steel 0.7

Ladder Chain

3.75 Pitch : PSC



Max speed
1800 RPM



Continuous Loop Supplied.
Available in different lengths, made to order.
Price on application.

SPECIFICATIONS

DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Weight	1.40 g/m
Load	45Kg
Operating tensile strength (max.)	20-25% of Load
One pin good for	5.4Kg tensile
Sprocket	19.05mm PCD min speeds over 1800rpm
Length	circumference at PCD

PART NUMBER	Length	No. of Pitches	PRICE EA. 1-5
PSC40	149.86	40	£12.93
PSC50	187.33	50	£14.77
PSC60	224.79	60	£16.68
PSC70	262.26	70	£18.43
PSC80	299.72	80	£20.29
PSC90	337.19	90	£22.14
PSC100	374.65	100	£47.49
PSC110	412.12	110	£25.77
PSC120	449.58	120	£27.46
PSC130	487.05	130	£29.37
PSC150	561.98	150	£32.99
PSC180	674.37	180	£38.47
PSC200	749.30	200	£42.04



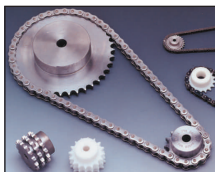
Chain Sprockets

Materials

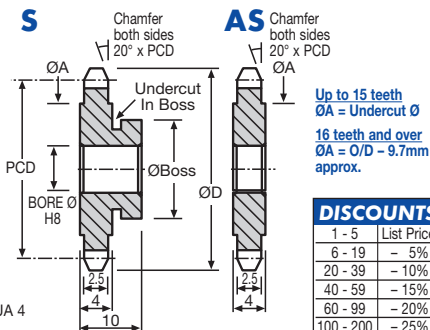
4mm Pitch

STD : Stainless Steel 303 S21/304S31 (En58)

Other numbers of teeth available



Roller Ø 2.50
Chain No. 1141
HPC Part No. SUA 4



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	S	AS
S4-10	10	12.94	14.71	12	4	8.00 x 2.5	£6.15	£4.96
S4-11	11	14.20	16.02	12	4	8.00 x 2.5	£6.54	£5.22
S4-12	12	15.45	17.32	12	4	8.00 x 2.5	£6.94	£5.49
S4-13	13	16.71	18.62	12	4	9.05 x 2.5	£7.27	£5.79
S4-14	14	17.97	19.92	12	4	10.33 x 2.5	£7.83	£6.30
S4-15	15	19.23	21.21	12	4	11.60 x 2.5	£8.07	£6.40
S4-16	16	20.50	22.50	12	4		£8.52	£6.77
S4-17	17	21.76	23.79	12	4		£9.24	£7.38
S4-18	18	23.03	25.08	12	4		£9.68	£7.73
S4-19	19	24.29	26.37	12	4		£10.08	£8.19
S4-20	20	25.57	27.65	15	5		£10.57	£8.45
S4-21	21	26.83	28.94	15	5		£10.99	£8.78
S4-23	23	29.37	31.50	15	5		£11.49	£9.18
S4-25	25	31.91	34.06	15	5		£11.91	£9.51
S4-27	27	34.45	36.62	15	5		£13.02	£10.42
S4-30	30	38.26	40.45	15	5	No Undercut	£14.51	£11.58
S4-33	33	42.08	44.29	15	5		£15.36	£12.22
S4-35	35	44.62	46.84	15	5		£15.74	£12.52
S4-36	36	45.89	48.12	15	5		£16.18	£12.68
S4-38	38	48.43	50.67	15	5		£16.27	£13.03
S4-40	40	50.98	53.22	20	6		£16.42	£13.09
S4-42	42	53.52	55.77	20	6		£16.48	£13.14
S4-44	44	56.07	58.32	20	6		£16.61	£13.30
S4-48	48	61.12	63.42	20	6		£16.77	£13.40
S4-50	50	63.66	65.98	20	6		£17.61	£13.54
S4-60	60	76.39	78.72	20	6		£17.59	£14.06
S4-80	80	101.86	104.20	20	6		£18.37	£14.66

Sprockets & Chains Stainless PITCH 4mm

13.4



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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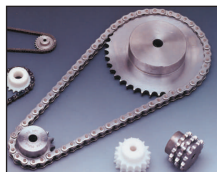
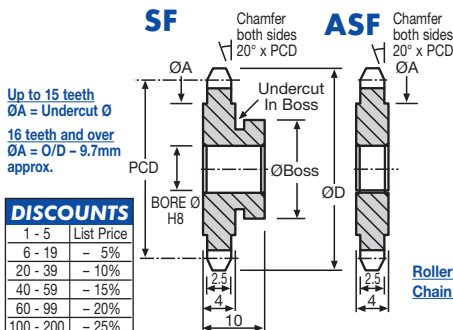
Materials

STD : Mild Steel (EN202)

Other numbers of teeth available

Chain Sprockets

4mm Pitch



Roller Ø 2.50
Chain No. 1141
HPC Part No. SUA 4

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5
						SF	ASF
SF4-10	10	12.94	14.71	12	4	8.00 x 2.5	£4.95 £3.90
SF4-11	11	14.20	16.02	12	4	8.00 x 2.5	£5.23 £4.16
SF4-12	12	15.45	17.32	12	4	8.00 x 2.5	£5.50 £4.38
SF4-13	13	16.55	18.62	12	4	9.05 x 2.5	£5.79 £4.59
SF4-14	14	17.97	19.92	12	4	10.33 x 2.5	£6.31 £4.99
SF4-15	15	19.23	21.21	12	4	11.60 x 2.5	£6.40 £5.12
SF4-16	16	20.50	22.50	12	4		£6.77 £5.46
SF4-17	17	21.76	23.79	12	4		£7.38 £5.86
SF4-18	18	23.03	25.08	12	4		£7.73 £6.15
SF4-19	19	24.29	26.37	12	4		£8.08 £6.54
SF4-20	20	25.57	27.65	15	5		£8.45 £6.72
SF4-21	21	26.83	28.94	15	5		£0.00 £7.02
SF4-23	23	29.37	31.50	15	5		£9.18 £7.34
SF4-25	25	31.91	34.06	15	5		£9.51 £7.63
SF4-27	27	34.45	36.62	15	5		£10.36 £8.29
SF4-30	30	38.26	40.45	15	5		£11.58 £9.26
SF4-33	33	42.08	44.29	15	5	No Undercut	£12.22 £9.74
SF4-35	35	44.62	46.84	15	5		£12.56 £10.07
SF4-36	36	45.89	48.12	15	5		£12.93 £10.15
SF4-38	38	48.43	50.67	15	5		£13.03 £10.42
SF4-40	40	50.98	53.22	20	6		£13.09 £10.46
SF4-42	42	53.52	55.77	20	6		£13.14 £10.50
SF4-44	44	56.07	58.32	20	6		£13.28 £10.59
SF4-48	48	61.12	63.42	20	6		£13.40 £10.73
SF4-50	50	63.66	65.98	20	6		£13.57 £10.79
SF4-60	60	76.39	78.72	20	6		£14.06 £11.25
SF4-80	80	101.86	104.20	20	6		£14.67 £11.70

Sprockets & Chains Steel PITCH 4mm

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13.5

Chain Sprockets

Materials

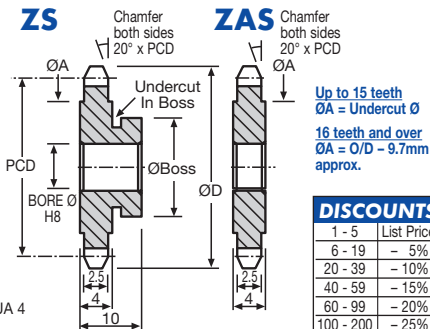
4mm Pitch

STD : White Delrin

Other numbers of teeth available



Roller Ø 2.50
Chain No. 1141
HPC Part No. SUA 4



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	ZS	ZAS
ZS4-10	10	12.94	14.71	12	4	8.00 x 2.5	£5.36	£3.88	
ZS4-11	11	14.20	16.02	12	4	8.00 x 2.5	£5.52	£4.38	
ZS4-12	12	15.45	17.32	12	4	8.00 x 2.5	£5.59	£4.49	
ZS4-13	13	16.71	18.62	12	4	9.05 x 2.5	£5.81	£4.61	
ZS4-14	14	17.97	19.92	12	4	10.33 x 2.5	£5.91	£4.73	
ZS4-15	15	19.23	21.21	12	4	11.60 x 2.5	£6.20	£4.95	
ZS4-16	16	20.50	22.50	12	4		£6.21	£4.98	
ZS4-17	17	21.76	23.79	12	4		£6.46	£5.19	
ZS4-18	18	23.06	25.08	12	4		£6.54	£5.25	
ZS4-19	19	24.29	26.37	12	4		£6.77	£5.46	
ZS4-20	20	25.57	27.65	15	5		£7.09	£5.63	
ZS4-21	21	26.83	28.94	15	5		£7.38	£5.86	
ZS4-23	23	29.37	31.50	15	5		£7.94	£6.34	
ZS4-25	25	31.91	34.06	15	5		£8.29	£6.64	
ZS4-27	27	34.45	36.62	15	5		£8.47	£6.72	
ZS4-30	30	38.26	40.45	15	5	No Undercut	£8.87	£7.04	
ZS4-33	33	42.08	44.29	15	5		£10.09	£8.07	
ZS4-35	35	44.62	46.84	15	5		£10.44	£8.35	
ZS4-36	36	45.89	48.12	15	5		£10.50	£8.36	
ZS4-38	38	48.43	50.67	15	5		£11.34	£9.04	
ZS4-40	40	50.98	53.22	20	6		£12.16	£9.74	
ZS4-42	42	53.52	55.77	20	6		£14.25	£11.34	
ZS4-44	44	56.07	58.32	20	6		£15.68	£12.50	
ZS4-48	48	61.12	63.42	20	6		£17.43	£13.96	
ZS4-50	50	63.66	65.98	20	6		£17.99	£14.35	
ZS4-60	60	76.39	78.72	20	6		£24.07	£19.21	
ZS4-80	80	101.86	104.20	20	6		£36.27	£28.99	

Sprockets & Chains Plastic PITCH 4mm

13.6



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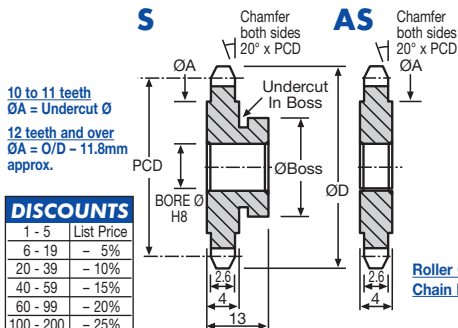
Materials

Chain Sprockets

STD : Stainless Steel 303 S21/304S31 (En58)

6mm Pitch

Other numbers of teeth available



Roller Ø
Chain No.

4.00
04
HPC Part No. SUA 6

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							S	AS
S6-10	10	19.42	22.06	15	6	10.00 x 2.5	£7.20	£5.72
S6-11	11	21.29	24.03	15	6	14.00 x 2.5	£7.74	£6.15
S6-12	12	23.18	25.99	15	6	14.00 x 2.5	£8.47	£6.72
S6-13	13	25.07	27.94	15	6		£8.73	£7.01
S6-14	14	26.96	29.88	15	6		£8.93	£7.12
S6-15	15	28.85	31.82	15	6		£9.20	£7.34
S6-16	16	30.75	33.76	15	6		£9.99	£7.99
S6-17	17	32.65	35.69	15	6		£10.94	£8.73
S6-18	18	34.55	37.62	15	6		£11.29	£9.02
S6-19	19	36.45	39.55	15	6		£12.15	£9.72
S6-20	20	38.35	41.48	20	8		£13.13	£10.47
S6-21	21	40.25	43.41	20	8		£13.31	£10.65
S6-23	23	44.06	47.25	20	8		£13.48	£10.76
S6-25	25	47.87	51.09	20	8		£13.65	£10.94
S6-27	27	51.68	54.93	20	8		£13.82	£11.03
S6-30	30	57.40	60.68	20	8	No Undercut	£13.98	£11.19
S6-33	33	63.12	66.43	20	8		£14.20	£11.34
S6-35	35	66.93	70.26	20	8		£14.39	£11.48
S6-36	36	68.84	72.18	20	8		£14.66	£11.70
S6-38	38	72.65	76.00	20	8		£15.07	£12.06
S6-40	40	76.47	79.83	30	10		£15.49	£12.40
S6-42	42	80.28	83.66	30	10		£15.77	£12.65
S6-44	44	84.10	87.49	30	10		£16.12	£12.84
S6-48	48	91.73	95.14	30	10		£16.38	£13.09
S6-50	50	95.55	98.97	30	10		£17.13	£13.68
S6-56	56	107.00	110.44	30	10		£17.88	£14.31
S6-60	60	114.64	118.08	30	10		£18.66	£14.95

Sprockets & Chains Stainless PITCH 6mm

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13.7

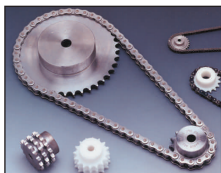
Chain Sprockets

Materials

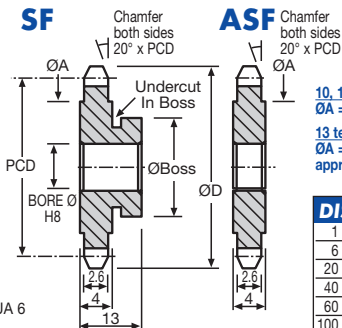
6mm Pitch

STD : Mild Steel (En202)

Other numbers of teeth available



Roller Ø 4.00
Chain No. 04
HPC Part No. SUA 6



10, 11 and 12 teeth
ØA = Undercut Ø
13 teeth and over
ØA = O/D - 11.8mm approx.

DISCOUNTS

Quantity	Discount	List Price
1 - 5	-	List Price
6 - 19	- 5%	
20 - 39	- 10%	
40 - 59	- 15%	
60 - 99	- 20%	
100 - 200	- 25%	

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5
							SF ASF
SF6-10	10	19.41	22.06	15	6	10.00 x 2.5	£5.79 £4.54
SF6-11	11	21.29	24.03	15	6	14.00 x 2.5	£6.15 £4.95
SF6-12	12	23.18	25.99	15	6	14.00 x 2.5	£6.72 £5.36
SF6-13	13	25.07	27.94	15	6		£6.97 £5.53
SF6-14	14	26.96	29.88	15	6		£7.12 £5.73
SF6-15	15	28.85	31.82	15	6		£7.34 £5.83
SF6-16	16	30.75	33.76	15	6		£7.99 £6.37
SF6-17	17	32.64	35.69	15	6		£8.73 £6.97
SF6-18	18	34.55	37.62	15	6		£9.02 £7.20
SF6-19	19	36.45	39.55	15	6		£9.72 £7.75
SF6-20	20	38.35	41.48	20	8		£10.47 £8.38
SF6-21	21	40.25	43.41	20	8		£10.65 £8.50
SF6-23	23	44.06	47.25	20	8		£10.77 £8.59
SF6-25	25	47.87	51.09	20	8		£10.94 £8.73
SF6-27	27	51.68	54.93	20	8	No Undercut	£11.03 £8.83
SF6-30	30	57.40	60.68	20	8		£11.19 £8.93
SF6-33	33	63.13	66.43	20	8		£11.34 £9.04
SF6-35	35	66.93	70.26	20	8		£11.49 £9.32
SF6-36	36	68.84	72.18	20	8		£11.70 £9.55
SF6-38	38	72.65	76.00	20	8		£12.06 £9.62
SF6-40	40	76.47	79.83	30	10		£12.40 £9.94
SF6-42	42	80.28	83.66	30	10		£12.93 £10.08
SF6-44	44	84.10	87.49	30	10		£12.84 £10.25
SF6-48	48	91.73	95.14	30	10		£13.09 £10.44
SF6-50	50	95.55	98.97	30	10		£13.68 £10.95
SF6-56	56	107.00	110.44	30	10		£14.31 £11.40
SF6-60	60	114.64	118.08	30	10		£14.90 £11.90

Sprockets & Chains Steel PITCH 6mm

13.8



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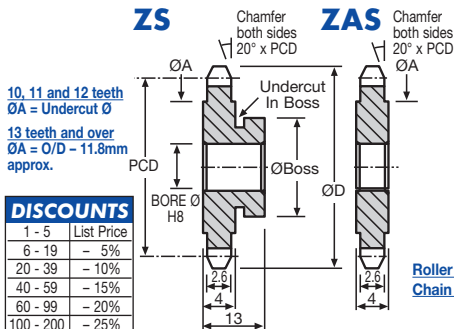
Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

6mm Pitch



10, 11 and 12 teeth

ØA = Undercut Ø

13 teeth and over

ØA = O/D - 11.8mm approx.

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%



Roller Ø 4.00

Chain No. 04

HPC Part No. SUA 6

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	ZS	ZAS
ZS6-10	10	19.41	22.06	15	6	10.00 x 2.5	£6.31	£5.01	
ZS6-11	11	21.29	24.03	15	6	14.00 x 2.5	£6.34	£5.06	
ZS6-12	12	23.18	25.99	15	6	14.00 x 2.5	£6.54	£5.25	
ZS6-13	13	25.07	27.94	15	6		£6.69	£5.34	
ZS6-14	14	26.96	29.88	15	6		£7.12	£5.73	
ZS6-15	15	28.85	31.82	15	6		£7.38	£5.86	
ZS6-16	16	30.75	33.76	15	6		£7.43	£5.91	
ZS6-17	17	32.65	35.69	15	6		£7.44	£5.95	
ZS6-18	18	34.55	37.62	15	6		£7.56	£6.03	
ZS6-19	19	36.45	39.55	15	6		£7.63	£6.07	
ZS6-20	20	38.35	41.48	20	8		£8.67	£6.54	
ZS6-21	21	40.25	43.41	20	8		£8.76	£6.99	
ZS6-23	23	44.06	47.25	20	8		£9.02	£7.20	
ZS6-25	25	47.87	51.09	20	8		£10.99	£8.77	
ZS6-27	27	51.68	54.93	20	8		£11.19	£8.93	
ZS6-30	30	57.40	60.68	20	8	No Undercut	£12.51	£9.99	
ZS6-33	33	63.12	66.43	20	8		£13.93	£11.10	
ZS6-35	35	66.93	70.26	20	8		£14.13	£11.28	
ZS6-36	36	68.84	72.18	20	8		£14.39	£11.50	
ZS6-38	38	72.65	76.00	20	8		£15.12	£12.08	
ZS6-40	40	76.47	79.83	30	10		£15.50	£12.40	
ZS6-42	42	80.28	83.66	30	10		£17.02	£13.59	
ZS6-44	44	84.10	87.49	30	10		£18.50	£14.78	
ZS6-48	48	91.73	95.14	30	10		£21.97	£17.59	
ZS6-50	50	95.55	98.97	30	10		£26.32	£20.98	
ZS6-56	56	107.00	110.44	30	10		£36.03	£28.48	
ZS6-60	60	114.64	118.08	30	10		£44.62	£39.27	

Sprockets & Chains Plastic PITCH 6mm

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13.9

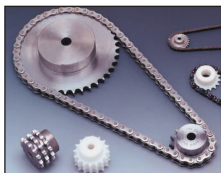
Chain Sprockets

Materials

8mm Pitch

STD : Mild Steel (En202)

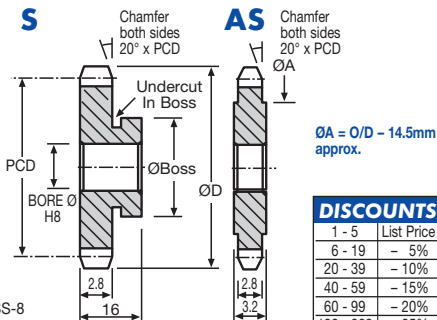
Other numbers of teeth available



Roller Ø 5.00

Chain No. 05B-1

HPC Part No. SBS-8
SBR-8



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Sprockets & Chains Steel PITCH 8mm

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							S	AS
S8-8	8	20.90	24.11	14	6	11.37 x 3.0	£6.69	£5.60
S8-9	9	23.39	26.78	14	6		£6.82	£5.73
S8-10	10	25.90	29.42	17	8		£6.97	£5.87
S8-11	11	28.40	32.04	18	8		£7.04	£5.91
S8-12	12	30.90	34.65	20	8		£7.09	£6.01
S8-13	13	33.42	37.25	20	8		£7.20	£6.06
S8-14	14	35.95	39.84	20	8		£7.28	£6.10
S8-15	15	38.47	42.48	28	8		£7.39	£6.20
S8-16	16	41.00	45.00	30	8		£7.53	£6.33
S8-17	17	43.53	47.53	30	8		£7.76	£6.51
S8-18	18	46.07	50.16	30	8		£8.06	£6.71
S8-19	19	48.61	52.74	30	8		£8.26	£6.95
S8-20	20	51.14	55.31	30	8	No Undercut	£8.51	£7.12
S8-21	21	53.67	57.88	30	8		£9.02	£7.53
S8-23	23	58.75	63.00	30	8		£9.20	£7.73
S8-25	25	63.82	68.12	35	10		£9.22	£8.26
S8-27	27	68.91	73.24	35	10		£12.44	£10.46
S8-30	30	76.53	80.91	40	10		£13.41	£11.28
S8-33	33	84.16	88.58	40	10		£14.39	£12.08
S8-35	35	89.24	93.68	40	10		£14.69	£12.39
S8-36	36	91.78	96.24	40	12		£15.23	£12.78
S8-38	38	96.87	101.34	40	12		£16.12	£13.48
S8-40	40	101.96	106.44	40	12		£17.13	£14.36
S8-42	42	107.05	111.55	40	12		£17.52	£14.69
S8-44	44	112.14	116.65	40	12		£19.36	£16.24
S8-48	48	122.31	126.85	40	12		£22.66	£18.98
S8-50	50	127.40	131.96	40	12		£24.37	£20.42

13.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

8mm Pitch

ZS

ZAS

$\text{ØA} = \text{O/D} - 14.5\text{mm approx.}$

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Roller Ø 5.00
Chain No. 05B-1
 HPC Part No. SBS-8
 SBR-8

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	ZS	ZAS
ZS8-8	8	20.90	24.11	14	6	11.37 x 3.0	£5.46	£4.09
ZS8-9	9	23.39	26.78	14	6		£5.49	£4.21
ZS8-10	10	25.90	29.42	17	8		£6.14	£4.73
ZS8-11	11	28.40	32.04	18	8		£6.46	£4.95
ZS8-12	12	30.90	34.65	20	8		£7.28	£5.55
ZS8-13	13	33.42	37.25	20	8		£7.56	£5.79
ZS8-14	14	35.95	39.84	20	8		£7.82	£6.03
ZS8-15	15	38.47	42.48	28	8		£9.22	£7.04
ZS8-16	16	41.00	45.00	30	8		£9.38	£7.12
ZS8-17	17	43.53	47.53	30	8		£9.47	£7.27
ZS8-18	18	46.07	50.16	30	8		£11.49	£8.77
ZS8-19	19	48.61	52.74	30	8		£12.66	£9.68
ZS8-20	20	51.14	55.31	30	8		£13.18	£10.09
ZS8-21	21	53.67	57.88	30	8	No Undercut	£13.59	£10.44
ZS8-23	23	58.75	63.00	30	8		£16.24	£12.16
ZS8-25	25	63.82	68.12	35	10		£17.99	£13.77
ZS8-27	27	68.91	73.24	35	10		£19.33	£14.43
ZS8-30	30	76.53	80.91	40	10		£22.66	£17.34
ZS8-33	33	84.16	88.58	40	10		£23.91	£18.34
ZS8-35	35	89.24	93.68	40	10		£27.41	£20.98
ZS8-36	36	91.78	96.24	40	12		£29.93	£22.80
ZS8-38	38	96.87	101.34	40	12		£33.40	£25.48
ZS8-40	40	101.76	106.44	40	12		£34.29	£26.37
ZS8-42	42	107.05	111.55	40	12		£40.96	£31.54
ZS8-44	44	112.14	116.65	40	12		£43.28	£33.07
ZS8-48	48	122.31	126.85	40	12		£52.30	£40.15
ZS8-50	50	127.40	131.96	40	12		£59.23	£48.21

Sprockets & Chains Plastic PITCH 8mm



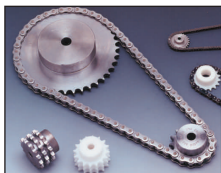
Chain Sprockets

Materials

1/4" Pitch

STD : Mild Steel (En202)

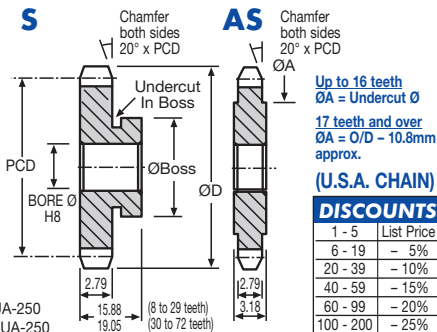
Other numbers of teeth available



Roller Ø 3.30

Chain No. No. 25

HPC Part No. SUA-250
ZSUA-250



(U.S.A. CHAIN)

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	S	AS
S25-8	8	16.59	19.13	13	6.35	9.70 x 3.0	£8.06	£6.70	
S25-9	9	18.56	21.25	13	6.35	11.37 x 3.0	£8.08	£6.72	
S25-10	10	20.54	23.39	16	7.94	15.00 x 2.4	£8.36	£7.02	
S25-11	11	22.53	25.41	16	7.94	15.00 x 2.4	£8.53	£7.16	
S25-12	12	24.53	27.50	20	9.52	16.91 x 2.4	£8.77	£7.36	
S25-13	13	26.53	29.57	22	9.52	20.00 x 2.4	£8.93	£7.46	
S25-14	14	28.54	31.62	25	9.52	21.50 x 3.0	£9.77	£8.20	
S25-15	15	30.54	33.68	25	9.52	23.00 x 3.0	£9.86	£8.27	
S25-16	16	32.54	35.73	25	9.52	24.00 x 3.0	£10.09	£8.47	
S25-17	17	34.55	37.77	25	9.52		£10.42	£8.73	
S25-18	18	36.56	39.82	25	9.52		£10.72	£8.96	
S25-19	19	38.57	41.86	32	9.52		£11.19	£9.38	
S25-20	20	40.59	43.90	32	9.52		£11.48	£9.62	
S25-21	21	42.60	45.94	32	9.52		£11.84	£9.95	
S25-25	25	50.66	54.07	32	9.52		£13.82	£11.59	
S25-28	28	56.71	60.16	32	9.52		£13.94	£11.66	
S25-30	30	60.74	64.22	38	9.52		£14.20	£11.86	
S25-35	35	70.84	74.36	38	9.52	No Undercut	£15.45	£13.00	
S25-36	36	72.85	76.39	38	9.52		£16.56	£13.94	
S25-40	40	80.93	84.49	38	9.52		£17.90	£15.04	
S25-42	42	84.97	88.54	45	9.52		£19.01	£15.93	
S25-44	44	89.01	92.59	45	9.52		£19.72	£16.56	
S25-48	48	97.09	100.69	45	9.52		£21.24	£17.87	
S25-50	50	101.13	104.74	45	9.52		£21.73	£18.25	
S25-54	54	109.20	112.83	45	9.52		£22.76	£19.06	
S25-60	60	121.33	124.97	50	9.52		£27.57	£23.16	
S25-72	72	145.57	149.25	50	9.52		£38.55	£32.33	

Sprockets & Chains Steel PITCH 1/4"

13.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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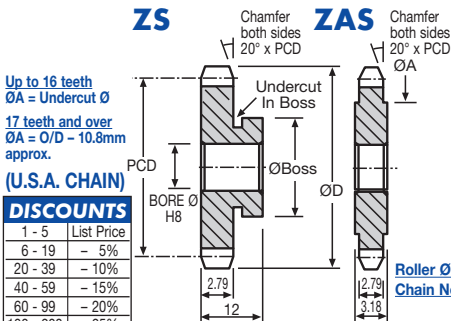
Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

1/4" Pitch



PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	ZS	ZAS
ZS25-8	8	16.59	19.13	13	6.35	9.70 x 3.0	£5.08	£3.88	
ZS25-9	9	18.56	21.25	13	6.35	11.37 x 3.0	£5.25	£3.99	
ZS25-10	10	20.54	23.39	16	7.94	15.00 x 2.4	£5.34	£4.07	
ZS25-11	11	22.53	25.41	16	7.94	15.00 x 2.4	£5.48	£4.16	
ZS25-12	12	24.53	27.50	20	9.52	16.91 x 2.4	£5.49	£4.18	
ZS25-13	13	26.53	29.57	22	9.52	20.00 x 2.4	£5.53	£4.22	
ZS25-14	14	28.54	31.62	25	9.52	21.50 x 3.0	£6.10	£4.72	
ZS25-15	15	30.54	33.68	25	9.52	23.00 x 3.0	£6.14	£4.72	
ZS25-16	16	32.54	35.73	25	9.52	24.00 x 3.0	£6.15	£4.73	
ZS25-17	17	34.55	37.77	25	9.52		£6.30	£4.74	
ZS25-18	18	36.56	39.82	25	9.52		£6.31	£4.78	
ZS25-19	19	38.57	41.86	32	9.52		£7.20	£5.49	
ZS25-20	20	40.59	43.90	32	9.52		£7.27	£5.53	
ZS25-21	21	42.60	45.94	32	9.52		£7.38	£5.63	
ZS25-25	25	50.66	54.07	32	9.52		£9.22	£7.03	
ZS25-28	28	56.71	60.16	32	9.52		£9.35	£7.12	
ZS25-30	30	60.74	64.22	38	9.52		£10.75	£8.22	
ZS25-35	35	70.84	74.36	38	9.52		£11.91	£9.16	
ZS25-36	36	72.85	76.39	38	9.52		£12.14	£9.32	
ZS25-40	40	80.93	84.49	38	9.52		£14.07	£10.79	
ZS25-42	42	84.97	88.54	45	9.52		£16.22	£13.09	
ZS25-44	44	89.01	92.59	45	9.52		£18.17	£13.93	
ZS25-48	48	97.09	100.69	45	9.52		£20.66	£15.86	
ZS25-50	50	101.13	104.74	45	9.52		£22.99	£18.65	
ZS25-54	54	109.20	112.83	45	9.52		£29.82	£22.81	
ZS25-60	60	121.33	124.97	50	9.52		£43.30	£33.20	
ZS25-72	72	145.57	149.25	50	9.52		£54.00	£41.36	

Sprockets & Chains Plastic PITCH 1/4"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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13.13

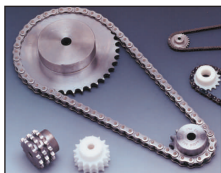
Chain Sprockets

Materials

3/8" Pitch

STD : Mild Steel (En202)

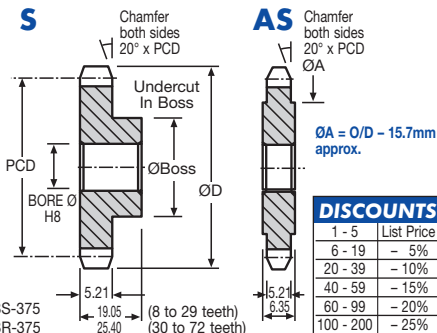
Other numbers of teeth available



Roller Ø 6.35

Chain No. 06B-1

HPC Part No. SBS-375
SBR-375



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							S	AS
S37-8	8	24.88	28.70	16.00	7.92	14.26 x 4.0	£8.62	£7.14
S37-9	9	27.84	31.88	16.00	7.92		£8.63	£7.20
S37-10	10	30.82	35.03	19.05	7.92		£8.66	£7.28
S37-11	11	33.80	38.15	22.23	7.92		£8.67	£7.63
S37-12	12	36.80	41.26	25.40	7.92		£9.26	£7.74
S37-13	13	39.80	44.35	25.40	7.92		£9.53	£8.01
S37-14	14	42.80	47.44	25.40	7.92		£9.74	£8.18
S37-15	15	45.81	50.52	34.04	7.92		£10.43	£8.73
S37-16	16	48.82	53.59	36.83	9.53		£10.75	£9.02
S37-17	17	51.83	56.66	38.10	9.53		£11.15	£9.35
S37-18	18	54.85	59.73	41.91	9.53		£12.05	£10.08
S37-19	19	57.86	62.79	44.45	9.53		£12.65	£10.59
S37-20	20	60.88	65.85	44.45	9.53		£15.95	£13.40
S37-21	21	63.90	68.91	44.45	9.53	No Undercut	£16.65	£13.97
S37-23	23	69.95	75.01	44.45	9.53		£18.05	£15.15
S37-25	25	75.99	81.11	60.33	12.70		£19.01	£15.93
S37-27	27	82.04	87.21	60.33	12.70		£20.57	£17.28
S37-30	30	91.12	96.33	69.85	12.70		£22.67	£19.01
S37-33	33	100.20	105.47	69.85	12.70		£24.54	£20.59
S37-35	35	106.25	111.54	76.20	12.70		£27.74	£23.28
S37-36	36	109.28	114.58	76.20	12.70		£28.68	£24.10
S37-38	38	115.34	120.66	76.20	12.70		£32.14	£26.95
S37-39	39	118.37	123.70	76.20	12.70		£33.64	£28.26
S37-40	40	121.40	126.73	76.20	12.70		£35.28	£29.64
S37-42	42	127.45	132.81	76.20	12.70		£38.55	£32.33
S37-44	44	133.51	138.89	76.20	12.70		£41.91	£35.22
S37-48	48	145.53	151.03	76.20	12.70		£49.17	£41.30

Sprockets & Chains Steel PITCH 3/8"

13.14



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

3/8" Pitch

ZS

ZAS

ØA = O/D - 15.7mm approx.

Roller Ø 6.35
Chain No. 06B-1
 HPC Part No. SBS-375
 SBR-375

DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5
							ZS ZAS
ZS37-8	8	24.88	28.70	16.00	7.92	14.26 x 4.0	£6.10 £4.73
ZS37-9	9	27.84	31.88	16.00	7.92		£6.95 £5.30
ZS37-10	10	30.82	35.03	19.05	7.92		£7.20 £5.49
ZS37-11	11	33.80	38.15	22.23	7.92		£7.76 £5.90
ZS37-12	12	36.80	41.26	25.40	7.92		£8.22 £6.31
ZS37-13	13	39.80	44.35	25.40	7.92		£9.77 £7.46
ZS37-14	14	42.80	47.44	25.40	7.92		£10.30 £7.88
ZS37-15	15	45.81	50.52	34.04	7.92		£10.99 £8.87
ZS37-16	16	48.82	53.59	36.83	9.53		£13.00 £9.94
ZS37-17	17	51.83	56.66	38.10	9.53		£13.19 £10.09
ZS37-18	18	54.85	59.73	41.91	9.53		£13.39 £10.24
ZS37-19	19	57.86	62.79	44.45	9.53		£15.37 £11.74
ZS37-20	20	60.88	65.85	44.45	9.53	No Undercut	£15.78 £12.05
ZS37-21	21	63.90	68.91	44.45	9.53		£16.18 £12.39
ZS37-23	23	69.95	75.01	44.45	9.53		£18.05 £13.82
ZS37-25	25	75.99	81.11	60.33	12.70		£20.44 £15.65
ZS37-27	27	82.04	87.21	60.33	12.70		£21.71 £16.65
ZS37-30	30	91.12	96.33	69.85	12.70		£25.44 £19.50
ZS37-33	33	100.20	105.47	69.85	12.70		£31.63 £24.22
ZS37-35	35	106.25	111.54	76.20	12.70		£31.95 £24.45
ZS37-36	36	109.28	114.58	76.20	12.70		£35.08 £26.92
ZS37-38	38	115.34	120.66	76.20	12.70		£36.49 £28.24
ZS37-39	39	118.37	123.70	76.20	12.70		£44.38 £34.04
ZS37-40	40	121.40	126.73	76.20	12.70		£49.93 £38.54
ZS37-42	42	127.45	132.81	76.20	12.70		£52.23 £43.13
ZS37-44	44	133.51	138.89	76.20	12.70		£56.20 £47.21
ZS37-48	48	145.53	151.03	76.20	12.70		£56.66 £51.37

Sprockets & Chains Plastic PITCH 3/8"



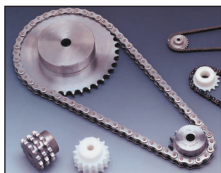
Chain Sprockets

Materials

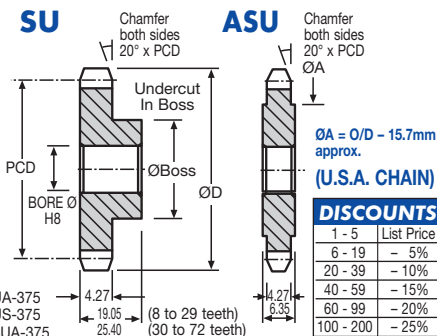
3/8" Pitch

STD : Mild Steel (En202)

Other numbers of teeth available



Roller Ø 5.08
Chain No. No. 35
HPC Part No. SUA-375
SUS-375
ZSUA-375



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							SU	ASU
SU37-8	8	24.88	28.70	16.00	7.92	14.26 x 4.0	£9.97	£7.14
SU37-9	9	27.84	31.88	16.00	7.92	No Undercut	£10.05	£7.20
SU37-10	10	30.82	35.03	19.05	7.92		£10.12	£7.28
SU37-11	11	33.80	38.15	22.23	7.92		£10.20	£7.63
SU37-12	12	36.80	41.26	25.40	7.92		£10.31	£7.74
SU37-13	13	39.80	44.35	25.40	7.92		£10.72	£8.01
SU37-14	14	42.80	47.44	25.40	7.92		£11.21	£8.19
SU37-15	15	45.81	50.52	34.04	7.92		£11.29	£8.73
SU37-16	16	48.82	53.59	36.83	9.53		£11.35	£9.03
SU37-17	17	51.83	56.66	38.10	9.53		£11.55	£11.73
SU37-18	18	54.85	59.73	41.91	9.53		£12.06	£10.09
SU37-19	19	57.86	62.79	44.45	9.53		£12.65	£10.62
SU37-20	20	60.88	65.85	44.45	9.53		£15.97	£13.40
SU37-21	21	63.90	68.91	44.45	9.53		£16.68	£13.98
SU37-23	23	69.95	75.01	44.45	9.53		£18.05	£15.18
SU37-25	25	75.99	81.11	60.33	12.70		£18.05	£15.94
SU37-27	27	82.04	87.21	60.33	12.70		£20.59	£17.28
SU37-30	30	91.12	96.33	69.85	12.70		£22.67	£19.02
SU37-33	33	100.20	105.47	69.85	12.70		£24.54	£20.61
SU37-35	35	106.25	111.54	76.20	12.70		£27.74	£23.30
SU37-36	36	109.28	114.58	76.20	12.70	£28.69	£24.10	
SU37-38	38	115.34	120.66	76.20	12.70	£32.14	£26.95	
SU37-39	39	118.37	123.70	76.20	12.70	£33.66	£28.28	
SU37-40	40	121.40	126.73	76.20	12.70	£35.28	£29.64	
SU37-42	42	127.45	132.81	76.20	12.70	£38.56	£32.33	
SU37-44	44	133.51	138.89	76.20	12.70	£41.91	£35.23	
SU37-48	48	145.53	151.03	76.20	12.70	£49.17	£41.30	

Sprockets & Chains Steel PITCH 3/8"

13.16



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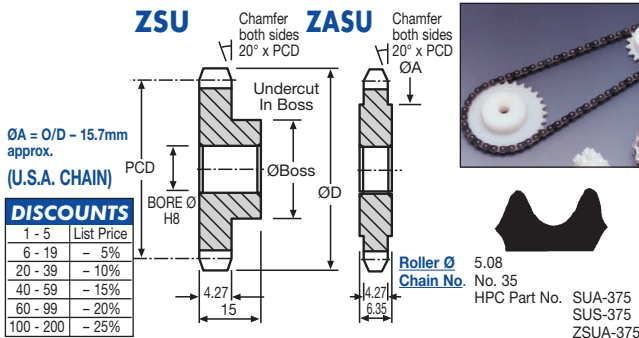
Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

3/8" Pitch



PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	ZSU	ZASU
ZSU37-8	8	24.88	28.70	16.00	7.92	14.26 x 4.0	£6.10	£4.74	
ZSU37-9	9	27.84	31.88	16.00	7.92		£6.95	£5.30	
ZSU37-10	10	30.82	35.03	19.05	7.92		£7.20	£5.50	
ZSU37-11	11	33.80	38.15	22.23	7.92		£7.80	£5.91	
ZSU37-12	12	36.80	41.26	25.40	7.92		£8.26	£6.32	
ZSU37-13	13	39.80	44.35	25.40	7.92		£9.82	£7.49	
ZSU37-14	14	42.80	47.44	25.40	7.92		£10.30	£7.90	
ZSU37-15	15	45.81	50.52	34.04	7.92		£10.99	£8.87	
ZSU37-16	16	48.82	53.59	36.83	9.53		£13.00	£9.94	
ZSU37-17	17	51.83	56.66	38.10	9.53		£13.25	£10.12	
ZSU37-18	18	54.85	59.73	41.91	9.53		£13.39	£10.25	
ZSU37-19	19	57.86	62.79	44.45	9.53		£15.37	£11.76	
ZSU37-20	20	60.88	65.85	44.45	9.53	No	£15.78	£12.06	
ZSU37-21	21	63.90	68.91	44.45	9.53	Undercut	£16.18	£12.39	
ZSU37-23	23	69.95	75.01	44.45	9.53		£18.05	£13.82	
ZSU37-25	25	75.99	81.11	60.33	12.70		£20.44	£15.68	
ZSU37-27	27	82.04	87.21	60.33	12.70		£21.73	£16.68	
ZSU37-30	30	91.12	96.33	69.85	12.70		£25.48	£19.50	
ZSU37-33	33	100.20	105.47	69.85	12.70		£31.67	£24.22	
ZSU37-35	35	106.25	111.54	76.20	12.70		£31.95	£24.45	
ZSU37-36	36	109.28	114.58	76.20	12.70		£35.10	£26.92	
ZSU37-38	38	115.34	120.66	76.20	12.70		£36.49	£28.26	
ZSU37-39	39	118.37	123.70	76.20	12.70		£44.39	£34.06	
ZSU37-40	40	121.40	126.73	76.20	12.70		£49.93	£38.55	
ZSU37-42	42	127.45	132.81	76.20	12.70		£52.23	£43.13	
ZSU37-44	44	133.51	138.89	76.20	12.70		£56.21	£47.21	
ZSU37-48	48	145.53	151.03	76.20	12.70		£56.67	£51.38	

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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13.17

Sprockets & Chains Plastic PITCH 3/8"

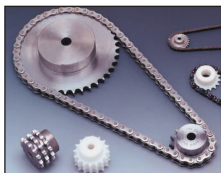
Chain Sprockets

Materials

1/2" Pitch

STD : Mild Steel (En202)

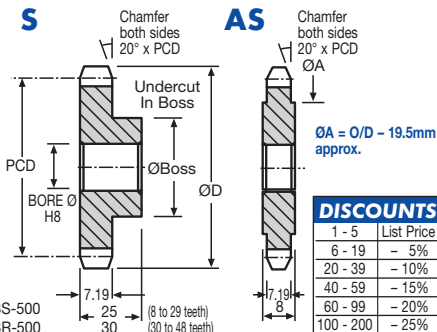
Other numbers of teeth available



Roller Ø 8.51

Chain No. 08B-1

HPC Part No. SBS-500
SBR-500



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							S	AS
S50-8	8	33.18	38.27	25.40	12.70	21.00 x 5.5	£11.58	£9.72
S50-9	9	37.13	42.51	25.40	12.70	↑ No Undercut ↓	£12.93	£10.81
S50-10	10	41.09	46.71	25.40	12.70		£13.74	£11.52
S50-11	11	45.07	50.87	28.58	12.70		£14.63	£12.22
S50-12	12	49.06	55.01	31.75	12.70		£15.14	£12.69
S50-13	13	53.06	59.14	31.75	12.70		£16.83	£14.08
S50-14	14	57.07	63.25	31.75	12.70		£17.18	£14.43
S50-15	15	61.08	67.36	44.45	12.70		£17.55	£14.69
S50-16	16	65.09	71.46	50.80	12.70		£17.94	£15.04
S50-17	17	69.11	75.55	50.80	12.70		£18.74	£15.70
S50-18	18	73.13	79.64	50.80	12.70		£21.42	£17.99
S50-19	19	77.15	83.73	60.33	12.70		£22.47	£18.88
S50-20	20	81.18	87.80	63.50	12.70		£23.08	£19.38
S50-21	21	85.21	91.88	63.50	12.70		£23.56	£19.77
S50-23	23	93.26	100.02	63.50	12.70		£24.59	£20.64
S50-25	25	101.32	108.15	69.85	12.70		£26.68	£22.42
S50-27	27	109.39	116.28	69.85	15.88		£31.02	£26.04
S50-30	30	121.49	128.44	79.38	15.88		£45.93	£38.58
S50-33	33	133.60	140.62	79.38	15.88		£52.10	£43.75
S50-35	35	141.67	148.72	88.90	15.88		£56.34	£47.33
S50-36	36	145.71	152.78	88.90	15.88	£62.21	£52.23	
S50-38	38	153.79	160.88	88.90	15.88	£72.94	£61.24	
S50-39	39	157.83	164.93	88.90	15.88	£80.04	£67.25	
S50-40	40	161.86	168.98	88.90	15.88	£82.00	£68.83	
S50-42	42	169.94	177.08	88.90	15.88	£86.15	£72.33	
S50-44	44	178.02	185.19	88.90	15.88	£91.22	£76.64	
S50-48	48	194.18	201.38	88.90	15.88	£94.68	£79.53	

Sprockets & Chains Steel PITCH 1/2"

13.18



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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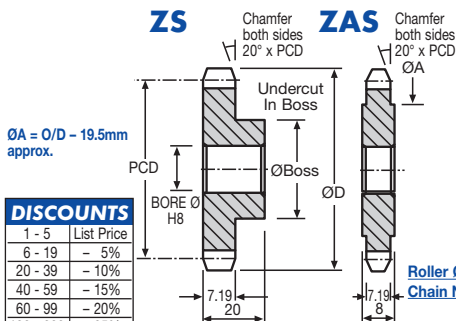
Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

1/2" Pitch



Roller Ø 8.51
Chain No. 08B-1
HPC Part No. SBS-500
SBR-500

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5
							ZS ZAS
ZS50-8	8	33.18	38.27	25.40	12.70	21.00 x 5.5	£5.06 £3.85
ZS50-9	9	37.13	42.51	25.40	12.70		£7.32 £5.55
ZS50-10	10	41.09	46.71	25.40	12.70		£9.22 £7.08
ZS50-11	11	45.07	50.87	28.58	12.70		£9.82 £7.53
ZS50-12	12	49.06	55.01	31.75	12.70		£10.08 £7.73
ZS50-13	13	53.06	59.14	31.75	12.70		£13.03 £9.97
ZS50-14	14	57.07	63.25	31.75	12.70		£15.77 £12.08
ZS50-15	15	61.08	67.36	44.45	12.70		£16.12 £12.34
ZS50-16	16	65.09	71.46	50.80	12.70		£16.15 £12.39
ZS50-17	17	69.11	75.55	50.80	12.70		£17.25 £13.13
ZS50-18	18	73.13	79.64	50.80	12.70		£21.91 £16.77
ZS50-19	19	77.15	83.73	60.33	12.70		£22.21 £17.02
ZS50-20	20	81.18	87.80	63.50	12.70	No Undercut	£22.66 £17.34
ZS50-21	21	85.21	91.88	63.50	12.70		£22.80 £17.36
ZS50-23	23	93.26	100.02	63.50	12.70		£26.27 £20.11
ZS50-25	25	101.32	108.15	69.85	12.70		£31.77 £24.39
ZS50-27	27	109.39	116.28	69.85	15.88		£36.91 £28.26
ZS50-30	30	121.49	128.44	79.38	15.88		£44.28 £33.93
ZS50-33	33	133.60	140.62	79.38	15.88		£50.94 £39.08
ZS50-35	35	141.67	148.72	88.90	15.88		£62.61 £48.91
ZS50-36	36	145.71	152.78	88.90	15.88		£75.50 £53.05
ZS50-38	38	153.79	160.88	88.90	15.88		£93.28 £68.76
ZS50-39	39	157.83	164.93	88.90	15.88		£117.91 £75.45
ZS50-40	40	161.86	168.98	88.90	15.88		£129.71 £91.68
ZS50-42	42	169.94	177.08	88.90	15.88		£137.60 £97.41
ZS50-44	44	178.02	185.19	88.90	15.88		£146.88 £115.11
ZS50-48	48	194.18	201.38	88.90	15.88		£165.10 £126.60

Sprockets & Chains Plastic PITCH 1/2"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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13.19

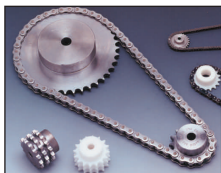
Chain Sprockets

Materials

1/2" Pitch

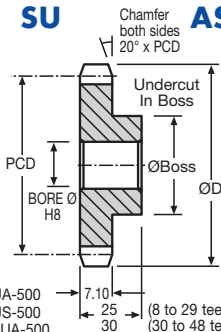
STD : Mild Steel (En202)

Other numbers of teeth available



Roller Ø 7.92
Chain No. 40
HPC Part No.

SU



ASU



Chamfer both sides 20° x PCD

ØA = O/D - 19.5mm approx.

(U.S.A. CHAIN)

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

SUA-500
SUS-500
ZSUA-500

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							SU	ASU
SU50-8	8	33.18	38.27	25.40	12.70	21.00 x 5.5	£11.58	£9.74
SU50-9	9	37.13	42.51	25.40	12.70	↑	£12.94	£10.81
SU50-10	10	41.09	46.71	25.40	12.70		£13.74	£11.52
SU50-11	11	45.07	50.87	28.58	12.70		£14.63	£12.22
SU50-12	12	49.06	55.01	31.75	12.70		£15.15	£12.69
SU50-13	13	53.06	59.14	31.75	12.70		£16.83	£14.09
SU50-14	14	57.07	63.25	31.75	12.70		£17.19	£14.44
SU50-15	15	61.08	67.36	44.45	12.70		£17.57	£14.72
SU50-16	16	65.09	71.46	50.80	12.70		£17.95	£15.04
SU50-17	17	69.11	75.55	50.80	12.70		£18.74	£15.70
SU50-18	18	73.13	79.64	50.80	12.70		£21.42	£17.99
SU50-19	19	77.15	83.73	60.33	12.70	£22.48	£18.88	
SU50-20	20	81.18	87.80	63.50	12.70	No Undercut	£23.08	£19.39
SU50-21	21	85.21	91.88	63.50	12.70	↓	£23.60	£19.81
SU50-23	23	93.26	100.02	63.50	12.70		£24.59	£20.65
SU50-25	25	101.32	108.15	69.85	12.70		£26.69	£22.43
SU50-27	27	109.39	116.28	69.85	15.88		£31.05	£26.04
SU50-30	30	121.49	128.44	79.38	15.88		£45.95	£38.59
SU50-33	33	133.60	140.62	79.38	15.88		£52.12	£43.75
SU50-35	35	141.67	148.72	88.90	15.88		£56.35	£47.33
SU50-36	36	145.71	152.78	88.90	15.88		£62.21	£52.23
SU50-38	38	153.79	160.88	88.90	15.88		£72.94	£61.25
SU50-39	39	157.83	164.93	88.90	15.88		£80.05	£67.25
SU50-40	40	161.86	168.98	88.90	15.88	£82.02	£68.83	
SU50-42	42	169.94	177.08	88.90	15.88	£86.15	£72.33	
SU50-44	44	178.02	185.19	88.90	15.88	£91.23	£76.65	
SU50-48	48	194.18	201.38	88.90	15.88	£94.69	£79.53	

Sprockets & Chains Steel PITCH 1/2"

13.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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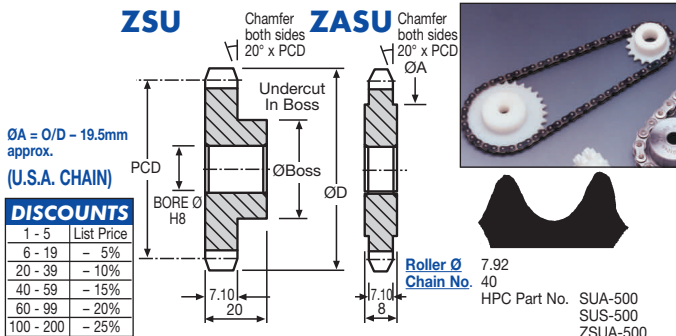
Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

1/2" Pitch



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	ZSU	ZASU
ZSU50-8	8	33.18	38.27	25.40	12.70	21.00 x 5.5	£5.06	£3.85	
ZSU50-9	9	37.13	42.51	25.40	12.70		£7.32	£5.58	
ZSU50-10	10	41.09	46.71	25.40	12.70		£9.22	£7.09	
ZSU50-11	11	45.07	50.87	28.58	12.70		£9.82	£7.56	
ZSU50-12	12	49.06	55.01	31.75	12.70		£10.09	£7.73	
ZSU50-13	13	53.06	59.14	31.75	12.70		£13.03	£9.97	
ZSU50-14	14	57.07	63.25	31.75	12.70		£15.77	£12.09	
ZSU50-15	15	61.08	67.36	44.45	12.70		£16.12	£12.34	
ZSU50-16	16	65.09	71.46	50.80	12.70		£16.15	£12.39	
ZSU50-17	17	69.11	75.55	50.80	12.70		£17.25	£13.13	
ZSU50-18	18	73.13	79.64	50.80	12.70		£21.91	£16.78	
ZSU50-19	19	77.15	83.73	60.33	12.70		£22.21	£17.04	
ZSU50-20	20	81.18	87.80	63.50	12.70		£22.66	£17.34	
ZSU50-21	21	85.21	91.88	63.50	12.70	No Undercut	£22.81	£17.36	
ZSU50-23	23	93.26	100.02	63.50	12.70		£26.30	£20.12	
ZSU50-25	25	101.32	108.15	69.85	12.70		£31.77	£24.40	
ZSU50-27	27	109.39	116.28	69.85	15.88		£36.91	£28.28	
ZSU50-30	30	121.49	128.44	79.38	15.88		£44.28	£33.97	
ZSU50-33	33	133.60	140.62	79.38	15.88		£50.98	£39.08	
ZSU50-35	35	141.67	148.72	88.90	15.88		£62.61	£48.92	
ZSU50-36	36	145.71	152.78	88.90	15.88		£75.53	£53.05	
ZSU50-38	38	153.79	160.88	88.90	15.88		£93.28	£68.76	
ZSU50-39	39	157.83	164.93	88.90	15.88		£117.91	£75.47	
ZSU50-40	40	161.86	168.98	88.90	15.88		£129.72	£91.69	
ZSU50-42	42	169.94	177.08	88.90	15.88		£137.60	£97.42	
ZSU50-44	44	178.02	185.19	88.90	15.88		£146.93	£115.12	
ZSU50-48	48	194.18	201.38	88.90	15.88		£165.11	£126.61	

Sprockets & Chains Plastic PITCH 1/2"



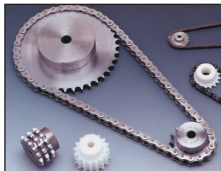
Chain Sprockets

Materials

1/2" Pitch

STD : Mild Steel (En202)

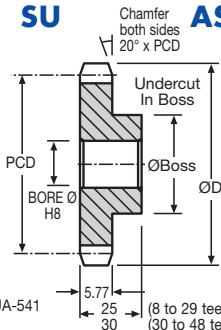
Other numbers of teeth available



Roller Ø 7.77
Chain No. 41

HPC Part No. SUA-541

SU



ASU



ØA = O/D - 19.5mm approx.

(U.S.A. CHAIN)

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5	
							SU	ASU
SU54-8	8	33.18	38.27	25.40	12.70	21.00 x 5.5	£11.58	£9.74
SU54-9	9	37.13	42.51	25.40	12.70		£12.94	£10.81
SU54-10	10	41.09	46.71	25.40	12.70		£13.74	£11.52
SU54-11	11	45.07	50.87	28.58	12.70		£14.63	£12.22
SU54-12	12	49.06	55.01	31.75	12.70		£15.15	£12.69
SU54-13	13	53.06	59.14	31.75	12.70		£16.57	£14.09
SU54-14	14	57.07	63.25	31.75	12.70		£17.19	£14.44
SU54-15	15	61.08	67.36	44.45	12.70		£17.57	£14.72
SU54-16	16	65.09	71.46	50.80	12.70		£17.95	£15.04
SU54-17	17	69.11	75.55	50.80	12.70		£49.16	£15.70
SU54-18	18	73.13	79.64	50.80	12.70		£21.42	£17.99
SU54-19	19	77.15	83.73	60.33	12.70		£22.48	£18.88
SU54-20	20	81.18	87.80	63.50	12.70	No Undercut	£23.08	£19.39
SU54-21	21	85.21	91.88	63.50	12.70		£23.60	£19.81
SU54-23	23	93.26	100.02	63.50	12.70		£24.59	£20.65
SU54-25	25	101.32	108.15	69.85	12.70		£26.69	£25.77
SU54-27	27	109.39	116.28	69.85	15.88		£31.05	£26.04
SU54-30	30	121.49	128.44	79.38	15.88		£45.98	£38.59
SU54-33	33	133.60	140.62	79.38	15.88		£52.12	£43.75
SU54-35	35	141.67	148.72	88.90	15.88		£56.35	£47.33
SU54-36	36	145.71	152.78	88.90	15.88		£62.21	£52.23
SU54-38	38	153.79	160.88	88.90	15.88		£72.94	£61.25
SU54-39	39	157.83	164.93	88.90	15.88		£80.05	£67.25
SU54-40	40	161.86	168.98	88.90	15.88		£82.02	£68.83
SU54-42	42	169.94	177.08	88.90	15.88		£86.15	£72.33
SU54-44	44	178.02	185.19	88.90	15.88		£91.23	£76.65
SU54-48	48	194.18	201.38	88.90	15.88		£94.69	£79.53

Sprockets & Chains Steel PITCH 1/2"

13.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : White Delrin

Other numbers of teeth available

Chain Sprockets

1/2" Pitch

ZSU

ZASU

ØA = O/D - 19.5mm approx.
(U.S.A. CHAIN)

Roller Ø 7.77
Chain No. 41
HPC Part No. SUA-541

DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	Undercut Ø x width	PRICE EACH 1-5		
							ZSU	ZASU	
ZSU54-8	8	33.18	38.27	25.40	12.70	21.00 x 5.5	£5.06	£3.85	
ZSU54-9	9	37.13	42.51	25.40	12.70		£7.32	£5.58	
ZSU54-10	10	41.09	46.71	25.40	12.70		£9.22	£7.09	
ZSU54-11	11	45.07	50.87	28.58	12.70		£9.82	£7.56	
ZSU54-12	12	49.06	55.01	31.75	12.70		£10.09	£7.73	
ZSU54-13	13	53.06	59.14	31.75	12.70		£13.03	£9.97	
ZSU54-14	14	57.07	63.25	31.75	12.70		£15.77	£12.09	
ZSU54-15	15	61.08	67.36	44.45	12.70		£16.12	£12.34	
ZSU54-16	16	65.09	71.46	50.80	12.70		£16.15	£12.39	
ZSU54-17	17	69.11	75.55	50.80	12.70		£17.25	£13.13	
ZSU54-18	18	73.13	79.64	50.80	12.70		£21.91	£16.78	
ZSU54-19	19	77.15	83.73	60.33	12.70		£22.21	£17.04	
ZSU54-20	20	81.18	87.80	63.50	12.70		£22.66	£17.34	
ZSU54-21	21	85.21	91.88	63.50	12.70		No Undercut	£22.81	£17.36
ZSU54-23	23	93.26	100.02	63.50	12.70		£26.30	£20.12	
ZSU54-25	25	101.32	108.15	69.85	12.70		£31.77	£24.40	
ZSU54-27	27	109.39	116.28	69.85	15.88		£36.91	£28.28	
ZSU54-30	30	121.49	128.44	79.38	15.88		£44.28	£33.97	
ZSU54-33	33	133.60	140.62	79.38	15.88		£50.98	£39.08	
ZSU54-35	35	141.67	148.72	88.90	15.88		£62.61	£48.92	
ZSU54-36	36	145.71	152.78	88.90	15.88	£75.53	£53.05		
ZSU54-38	38	153.79	160.88	88.90	15.88	£93.28	£68.76		
ZSU54-39	39	157.83	164.93	88.90	15.88	£117.91	£75.47		
ZSU54-40	40	161.86	168.98	88.90	15.88	£129.72	£91.69		
ZSU54-42	42	169.94	177.08	88.90	15.88	£137.60	£97.42		
ZSU54-44	44	178.02	185.19	88.90	15.88	£146.93	£115.12		
ZSU54-48	48	194.18	201.38	88.90	15.88	£165.11	£126.61		

Sprockets & Chains Plastic PITCH 1/2"



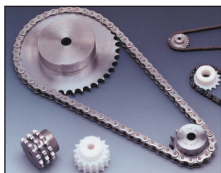
Chain Sprockets

Materials

5/8" Pitch

STD : Mild Steel (En202)

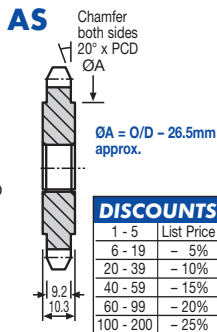
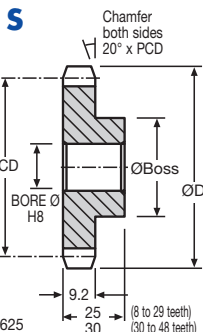
Other numbers of teeth available



Roller Ø 10.16

Chain No. 10 B-1

HPC Part No. SBR-625



$\text{ØA} = \text{O/D} - 26.5\text{mm}$
approx.

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	P.C.D. mm	ØD mm	BOSS Ø mm	BORE Ø mm	PRICE EACH 1-5	
						S	AS
S62-8	8	41.48	47.84	25.40	12.70	£14.63	£11.58
S62-9	9	46.41	53.15	25.40	12.70	£16.24	£12.32
S62-10	10	51.37	58.38	25.40	12.70	£17.98	£13.46
S62-11	11	56.35	63.59	28.58	12.70	£18.98	£14.13
S62-12	12	61.33	68.77	31.75	12.70	£20.08	£14.95
S62-13	13	66.33	73.93	31.75	12.70	£20.88	£16.12
S62-14	14	71.34	79.07	31.75	12.70	£21.58	£16.65
S62-15	15	76.35	84.20	44.45	12.70	£22.33	£17.24
S62-16	16	81.37	89.32	50.80	12.70	£22.78	£17.77
S62-17	17	86.39	94.44	50.80	12.70	£24.96	£18.40
S62-18	18	91.42	99.55	50.80	12.70	£26.66	£19.89
S62-19	19	96.44	104.66	60.33	12.70	£27.60	£21.06
S62-20	20	101.47	109.75	63.50	12.70	£28.40	£22.05
S62-21	21	106.51	114.85	63.50	12.70	£29.10	£23.36
S62-23	23	116.58	125.03	63.50	12.70	£30.24	£25.69
S62-25	25	126.66	135.19	69.85	12.70	£34.06	£27.41
S62-27	27	136.74	145.35	69.85	12.70	£37.44	£29.93
S62-30	30	151.87	160.56	79.38	15.88	£54.99	£33.09
S62-33	33	167.00	175.78	79.38	15.88	£62.11	£45.97
S62-35	35	177.09	185.91	88.90	15.88	£67.18	£49.71
S62-36	36	182.14	190.97	88.90	15.88	£74.75	£51.21
S62-38	38	192.23	201.10	88.90	19.05	£86.18	£56.83
S62-39	39	197.28	206.16	88.90	19.05	£94.58	£64.72
S62-40	40	202.33	211.23	88.90	19.05	£96.52	£73.39
S62-42	42	212.43	221.36	88.90	19.05	£101.79	£80.83
S62-44	44	222.52	231.49	88.90	19.05	£107.89	£86.21
S62-48	48	242.72	251.72	88.90	25.40	£111.89	£92.23

Sprockets & Chains Steel PITCH 5/8"

13.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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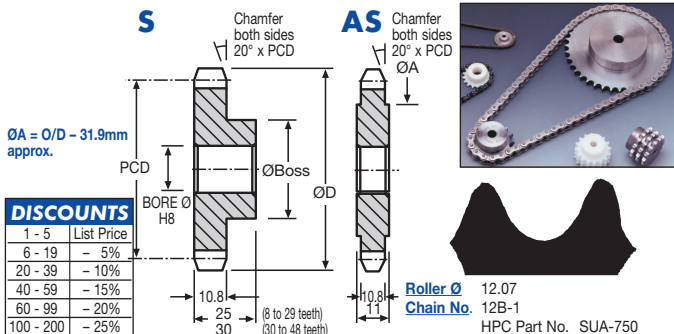
Materials

STD : Mild Steel (En202)

Other numbers of teeth available

Chain Sprockets

3/4" Pitch



DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	P.C.D. mm	ØD mm	BOSS Ø mm	BORE Ø mm	PRICE EACH 1-5	
						S	AS
S75-8	8	49.78	57.41	25.40	12.70	£17.59	£14.39
S75-9	9	55.69	63.77	25.40	12.70	£19.61	£16.05
S75-10	10	61.65	70.07	25.40	12.70	£22.21	£18.17
S75-11	11	67.62	76.31	25.40	12.70	£23.31	£19.06
S75-12	12	73.60	82.52	25.40	12.70	£23.42	£19.16
S75-13	13	79.60	88.72	38.10	19.05	£24.67	£20.24
S75-14	14	85.61	94.91	38.10	19.05	£25.77	£21.09
S75-15	15	91.62	101.06	38.10	19.05	£26.32	£21.59
S75-16	16	97.65	107.19	38.10	19.05	£27.43	£22.47
S75-17	17	103.68	113.35	38.10	19.05	£31.42	£25.76
S75-18	18	109.71	119.46	50.80	19.05	£31.85	£26.09
S75-19	19	115.74	125.60	50.80	19.05	£32.67	£26.80
S75-20	20	121.78	131.71	50.80	19.05	£33.72	£27.64
S75-21	21	127.82	137.83	50.80	19.05	£34.61	£28.37
S75-23	23	139.90	150.02	50.80	19.05	£35.92	£29.40
S75-25	25	151.98	162.23	50.80	19.05	£37.77	£30.96
S75-27	27	164.09	174.42	50.80	19.05	£43.91	£35.97
S75-30	30	182.25	192.67	76.20	25.40	£64.05	£52.49
S75-33	33	200.41	210.92	76.20	25.40	£72.13	£59.12
S75-35	35	212.52	223.09	76.20	25.40	£77.99	£63.94
S75-36	36	218.57	229.17	76.20	25.40	£84.79	£69.54
S75-38	38	230.69	241.33	76.20	25.40	£99.45	£81.51
S75-39	39	236.74	247.40	76.20	25.40	£109.13	£89.49
S75-40	40	242.80	253.48	76.20	25.40	£111.77	£91.66
S75-42	42	254.92	265.63	76.20	25.40	£117.45	£96.28
S75-44	44	267.03	277.79	76.20	25.40	£124.54	£101.97
S75-48	48	291.27	302.08	76.20	25.40	£129.09	£105.83

Sprockets & Chains Steel PITCH 3/4"

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13.25

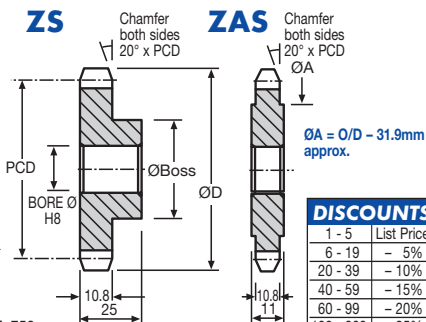
Chain Sprockets

Materials

3/4" Pitch

STD : White Delrin

Other numbers of teeth available



Roller Ø 12.07
Chain No. 12B-1
HPC Part No. SUA-750

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	PRICE EACH 1-5	ZS	ZAS
ZS75-8	8	49.78	57.41	25.40	12.70	£11.03	£9.35	
ZS75-9	9	55.69	63.77	25.40	12.70	£12.32	£10.44	
ZS75-10	10	61.65	70.07	25.40	12.70	£13.96	£11.84	
ZS75-11	11	67.62	76.31	25.40	12.70	£14.66	£12.42	
ZS75-12	12	73.60	82.52	25.40	12.70	£14.69	£12.48	
ZS75-13	13	79.60	88.72	38.10	19.05	£17.73	£15.04	
ZS75-14	14	85.61	94.91	38.10	19.05	£18.49	£15.71	
ZS75-15	15	91.62	101.06	38.10	19.05	£18.94	£16.09	
ZS75-16	16	97.65	107.19	38.10	19.05	£22.21	£18.87	
ZS75-17	17	103.68	113.35	38.10	19.05	£28.26	£23.99	
ZS75-18	18	109.71	119.46	50.80	19.05	£28.66	£24.37	
ZS75-19	19	115.74	125.60	50.80	19.05	£29.38	£24.97	
ZS75-20	20	121.78	131.71	50.80	19.05	£30.34	£25.77	
ZS75-21	21	127.82	137.83	50.80	19.05	£31.12	£26.47	
ZS75-23	23	139.90	150.02	50.80	19.05	£35.55	£28.42	
ZS75-25	25	151.98	162.23	50.80	19.05	£37.40	£29.87	
ZS75-27	27	164.09	174.42	50.80	19.05	£47.40	£37.86	
ZS75-30	30	182.25	192.67	76.20	25.40	£69.17	£55.32	
ZS75-33	33	200.41	210.92	76.20	25.40	£77.89	£62.31	
ZS75-35	35	212.52	223.09	76.20	25.40	£87.04	£69.61	
ZS75-36	36	218.57	229.17	76.20	25.40	£94.66	£75.72	
ZS75-38	38	230.69	241.33	76.20	25.40	£112.79	£90.22	
ZS75-39	39	236.74	247.40	76.20	25.40	£123.79	£98.99	
ZS75-40	40	242.80	253.48	76.20	25.40	£128.78	£103.00	
ZS75-42	42	254.92	265.63	76.20	25.40	£137.41	£109.90	
ZS75-44	44	267.03	277.79	76.20	25.40	£145.52	£116.41	
ZS75-48	48	291.27	302.08	76.20	25.40	£151.04	£120.83	

Sprockets & Chains Plastic PITCH 3/4"

13.26



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

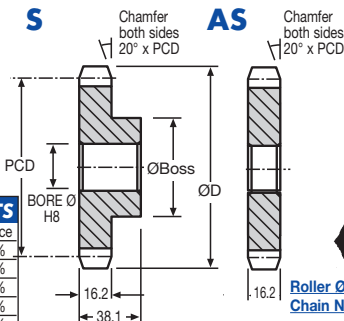
Materials

STD : Mild Steel (En202)

Other numbers of teeth available

Chain Sprockets

1" Pitch



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Roller Ø 15.88

Chain No. 16 B-1

HPC Part No. SBR-1000

PART NUMBER	TEETH	PCD mm	ØD mm	BOSS Ø mm	BORE Ø mm	PRICE EACH 1-5	
						S	AS
S100-8	8	66.37	76.55	33.30	19.05	£23.42	£17.36
S100-9	9	74.26	85.04	38.10	19.05	£26.10	£19.29
S100-10	10	82.19	93.42	38.10	19.05	£29.60	£21.86
S100-11	11	90.15	101.75	38.10	19.05	£31.59	£23.31
S100-12	12	98.13	110.03	44.45	19.05	£33.95	£24.07
S100-13	13	106.13	118.28	44.45	19.05	£36.80	£26.05
S100-14	14	114.14	126.51	50.80	19.05	£39.38	£27.88
S100-15	15	122.16	134.72	50.80	19.05	£42.76	£29.17
S100-16	16	130.19	142.92	63.50	22.22	£46.38	£31.15
S100-17	17	138.23	151.10	63.50	22.22	£52.08	£36.50
S100-18	18	146.27	159.28	63.50	22.22	£58.01	£37.83
S100-19	19	154.31	167.46	63.50	22.22	£64.10	£39.72
S100-20	20	162.36	175.61	76.20	25.40	£70.55	£41.91
S100-21	21	170.42	183.76	76.20	25.40	£77.28	£43.96
S100-23	23	186.53	200.05	76.20	25.40	£86.62	£46.52
S100-25	25	202.65	216.30	88.90	25.40	£97.71	£53.28
S100-27	27	218.79	232.56	88.90	25.40	£110.01	£64.21
S100-30	30	242.99	256.89	101.60	31.75	£127.39	£88.09
S100-33	33	267.21	281.25	101.60	31.75	£146.29	£103.06
S100-35	35	283.35	297.46	101.60	31.75	£162.13	£114.91
S100-36	36	291.43	305.56	101.60	31.75	£173.08	£128.75
S100-38	38	307.58	321.76	101.60	31.75	£190.09	£155.37
S100-39	39	315.65	329.87	101.60	31.75	£201.94	£175.41
S100-40	40	323.73	337.97	127.00	34.93	£215.22	£184.69
S100-42	42	339.89	354.17	127.00	34.93	£232.89	£199.26
S100-44	44	356.04	370.38	127.00	34.93	£252.32	£216.61
S100-48	48	388.36	402.76	127.00	34.93	£285.82	£224.88

Sprockets & Chains Steel PITCH 1"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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13.27

Materials **Simplex Sprocket Chains**

STD : Steel & Stainless Steel

4-31.75mm Pitch

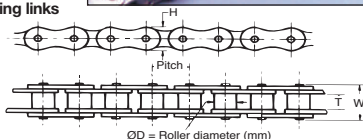
When ordering connecting link, add "/L" at the end of chain part number, eg. SUA-4/L



DISCOUNTS (per 300mm)

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 8%
40 - 59	- 12%
60 - 99	- 16%
100 +	- 20%

For chain breaking loads see page 27.61 & pin diameter connecting links page 27.66



PART NUMBER	PITCH (ins)	PITCH (mm)	ROLLER ØD	T (mm)	W (mm)	H (mm)	ISO No.	PRICE EACH 1-5	
								per 300mm	c-nect link
Steel									
SUA-4	0.157	4.00	2.50	2.70	6.80	4.10	1141	£71.82	£10.24
SUA-6	0.236	6.00	4.00	2.80	7.40	5.00	04	£12.32	£2.68
SUA-250	0.250	6.35	3.30	3.10	8.60	5.89	ASA-25	£10.46	£2.05
SBR-8	0.315	8.00	5.00	3.00	8.60	7.10	05B-1	£10.79	£4.32
SUA-375	0.375	9.53	5.08	4.68	12.20	8.66	ASA-35	£11.20	£1.99
SBR-375	0.375	9.53	6.35	5.80	13.50	8.26	06B-1	£11.20	£1.99
SUA-500	0.500	12.70	7.92	7.85	16.60	11.15	ASA-40	£13.39	£3.32
SBR-500	0.500	12.70	8.51	7.75	16.30	11.81	08B-1	£13.39	£2.13
SUA-541	0.500	12.70	7.77	6.35	14.50	9.73	ASA-41	£13.78	£3.32
SBR-625	0.625	15.88	10.16	9.65	18.80	14.70	10B-1	£14.06	£3.43
SUA-750	0.750	19.05	12.07	11.68	22.70	15.93	12B-1	£15.36	£3.78
SBR-1000	1.000	25.40	15.88	17.02	36.01	20.57	16B-1	£16.25	£6.01
SBR-1250	1.250	31.75	19.05	19.56	43.20	26.64	20B-1	£38.06	£10.24

Stainless Steel (Grade 304)

SBS-6	0.236	6.00	4.00	2.80	7.40	5.00	04-SS	£15.19	£5.64
SBS-8	0.315	8.00	5.00	3.00	8.00	7.10	05B-SS	£37.32	£6.32
SUS-375	0.375	9.53	5.08	4.68	12.20	8.66	35-SS	£35.26	£6.14
SBS-375	0.375	9.53	6.35	5.72	12.90	8.30	06B-SS	£43.86	£6.69
SUS-500	0.500	12.70	7.92	7.85	16.60	11.15	40-SS	£63.73	£6.69
SBS-500	0.500	12.70	8.51	7.75	16.30	11.89	08B-SS	£54.27	£6.14
SBS-625	0.625	15.875	10.16	9.65	18.80	14.70	10B-SS	£46.12	£6.19

Chain Breakers

PART NUMBER	PITCH (ins)	PRICE EACH
CHA075	From 1/4" to 3/4" pitch	£53.01
CHA125	From 7/8" pitch to 1 1/4" pitch	£63.99

NB: No quantity discounts for the above two items.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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13.29

Sprockets & Chains

Steel & Stainless PITCH 4-31.75mm

Plastic Chain

Materials

Pitch 1/4" 3/8" 1/2"

STD : Delrin



ADVANTAGES

LIGHTWEIGHT 15-20% the weight of stainless steel components.

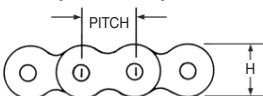
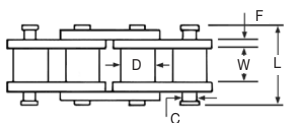
LUBRICATION Requires no lubrication. Can be formulated to be non conductive, conductive or non magnetic. **MASTER LINKS** All links or the plastic chain are unit master links since all links snap together and all chains are adjustable to any desired length.

INTERCHANGEABLE Completed with existing metal chain and sprockets drives. Plastic chain can be used with steel sprockets or Plastic Sprockets.

NOISE Noise levels are greatly reduced. **CHEMICAL RESISTANCE** Excellent chemical and solvent resistance to corrosive environmental conditions.

CLEANLINESS Excellent where cleanliness of drive is important. **DESIGN CAPABILITIES** Various attachments as side link pins can be incorporated into design at minimal tooling costs

1/4, 3/8, 1/2"



Plastic chains were developed primarily for low-power transmission applications. The chains can be used with steel sprockets or plastic sprockets, and are suitable for relatively wide speed ranges. These drive components can be especially useful in harsh chemical, moisture and temperature environments. The chains incorporate additives for self-lubrication, also useable where cleanliness is important, as in food-processing machinery, computer equipment. Chains are made with links that snap together so that each link in effect becomes a master link. Various attachments can be used with plastic chains and sprockets. These attachments can be fastened to the chain or sprocket, or moulded integrally. Plastic chains are available as off-the-shelf items in 1/4 inch, 3/8 inch and 1/2 inch pitches. Non-standard sizes and shapes including chain with various types of attachments have been developed for special applications. Plastic chains and sprockets are generally about one-fifth to one-tenth as heavy as equipment metal components. They are relatively quiet and are non-conductive and non-magnetic.

APPLICATIONS

- Food handling and processing equipment
- Computer and computer peripheral equipment
- Office machines, copy machines, etc
- Point of motion, advertising displays
- Any equipment requiring transmission of motion at light loads
- Mechanical drives for instrumentation
- Plating and coating operations
- Film processing/development equipment
- Semiconductor processing
- Electrically conductive applications

Dimensions in Metric

DISCOUNTS

1 - 9	List Price
10 - 29	- 5%
30 - 49	- 10%
50 - 99	- 15%
100 - 200	- 20%

PART NUMBER	Pitch	W	D	C	F	L	H	ANSI No.	Breaking Strength N	PRICE PER 300mm
ZSUA-250	6.35	3.18	3.30	2.66	1.01	9.11	6.35	25	63	£16.27
ZSUA-375	9.52	4.76	5.08	3.58	1.90	13.84	8.80	35	136	£13.06
ZSUA-500	12.70	7.92	7.92	3.96	2.23	18.41	11.68	40	175	£15.47

Sprockets & Chains Plastic PITCH

13.30

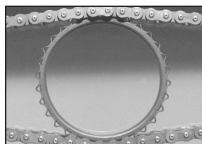
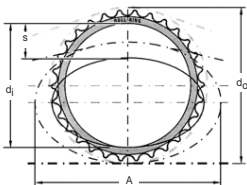


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Roll-Ring Self-adjusting Chain Tensioner

INSTALLATION AND FINAL DIMENSIONS

PART No.	d_o	d_i	s	A
10503001	76.5	65.0	20.0	104.0
10603001	91.1	73.0	25.0	122.0
10603601	109.0	89.5	25.0	143.0
10802601	102.1	84.5	24.0	135.8
10803001	121.5	98.0	28.0	161.6
10803401	137.5	115.4	30.0	165.0
11002601	128.4	105.0	28.0	153.0
11003001	148.0	124.6	33.0	177.0
11003401	170.0	141.0	38.0	217.0
11202601	155.0	127.6	35.0	209.5
11203001	182.2	145.0	40.0	241.7
11203401	207.5	169.5	45.0	265.0
11602601	207.0	167.0	45.0	269.0
11603001	245.8	202.0	50.0	306.0
12003001	303.7	244.0	60.0	390.0



A = Deflected PCD d_o = PCD
 s = Max deflection d_i = Inside diameter

Value A includes a safety distance to the sprockets.

ROLL-RING® Chain tensioners are maintenance free and can be fitted to a wide variety of chain drives with no installation down time. The requirement is that: (1) there is a working space with a gap between the chain strands which is smaller than the reference diameter of the chain tensioner. (2) There is a sufficient gap between the chain drive sprockets. We recommend that the chain tensioner is positioned between two chain strands such that there is at least one chain pitch between the ROLL-RING® and the smallest sprocket. The ROLL-RING® can also be positioned just as effectively

outside this recommended area, as long as it is sufficiently prestressed. In this case, practical trial and error are recommended. ROLL-RING® chain tensioners can be used in line with the same chain strand, or parallel with each other in multi-strand chain drives. Please note that triplex chain drives only require two ROLL-RINGS® positioned on the outer strands. ROLL-RING® chain tensioners provide tensioning using: (1) static tensioning force from the elastic ring (2) dynamic tensioning force from the damping of the working material. ROLL-RING® provides as much tensioning as possible at low chain speeds, and has reserves of tensioning and damping capability for higher chain speeds.

DISCOUNTS

1 - 9	List Price
10 - 29	- 5%
30 - 49	- 10%
50 - 99	- 15%
100 - 200	- 20%

PART NUMBER	No. of Teeth	ISO Ref.	Pitch (mm)	Max Static expansive force (N)	Max chain speed (M/S)	Min ambient temp (C)	Max ambient temp (C)	Resistant to ultra violet light	PRICE EACH 1-9
10503001	30	05B	8.00	2.9	5.0	-20	70	Normal	£65.66
10603001	30	06B	9.52	15.2	5.2	-20	70	Normal	£56.93
10603601	36	06B	9.52	28.5	5.2	-20	70	Normal	£56.93
10802601	26	08B	12.70	15.7	7.5	-20	70	Normal	£52.98
10803001	30	08B	12.70	22.0	8.6	-20	70	Normal	£61.16
10803401	34	08B	12.70	22.0	8.8	-20	70	Normal	£78.85
11002601	26	10B	15.88	28.2	4.2	-20	70	Normal	£64.56
11003001	30	10B	15.88	23.0	8.8	-20	70	Normal	£74.36
11003401	34	10B	15.88	45.1	8.8	-20	70	Normal	£85.31
11202601	26	12B	19.05	39.2	5.4	-20	70	Normal	£76.85
11203001	30	12B	19.05	65.0	6.2	-20	70	Normal	£91.04
11203401	34	12B	19.05	70.5	6.4	-20	70	Normal	£103.00
11602601	26	16B	25.40	95.7	5.7	-20	70	Normal	£96.16
11603001	30	16B	25.40	108.5	6.2	-20	70	Normal	£111.15
12003001	30	20B	31.75	194.0	7.0	-20	70	Normal	£166.42





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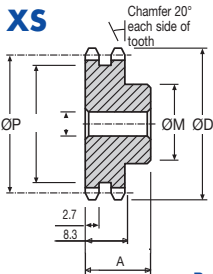
Email : sales@hpcgears.com

Materials

Duplex Chain Sprockets

STD : Steel C43

Other numbers of teeth available

8 mm Pitch**DISCOUNTS**

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 5.00
Chain No. 05B-2
HPC Part No. XSBR-8

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss Ø ØM	Length A	Bore Ø ØB	PRICE EACH 1-5
XS8-8	8	20.90	23.4	12	18	6	£17.31
XS8-9	9	23.39	25.9	15	18	6	£17.37
XS8-10	10	25.90	28.4	17	18	8	£17.43
XS8-11	11	28.40	31.0	19	18	8	£18.18
XS8-12	12	30.90	33.7	21	18	8	£18.65
XS8-13	13	33.42	36.7	24	18	8	£19.15
XS8-14	14	35.95	39.2	26	18	8	£19.61
XS8-15	15	38.47	41.7	29	18	8	£20.92
XS8-16	16	41.00	44.2	32	20	10	£21.60
XS8-17	17	43.53	46.7	34	20	10	£22.38
XS8-18	18	46.07	49.2	37	20	10	£24.16
XS8-19	19	48.61	51.7	39	20	10	£25.33
XS8-20	20	51.14	54.2	40	20	10	£32.04
XS8-21	21	53.67	57.2	45	20	12	£33.40
XS8-22	22	56.21	59.4	45	20	12	£35.72
XS8-23	23	58.75	62.2	45	20	12	£38.09
XS8-24	24	61.29	64.7	45	20	12	£41.22
XS8-25	25	63.83	67.2	45	20	12	£45.38
XS8-26	26	66.37	69.7	50	22	12	£49.16
XS8-27	27	68.91	72.3	50	22	12	£55.55
XS8-30	30	76.53	80.2	50	22	12	£57.49
XS8-32	32	81.61	85.2	60	22	12	£64.34
XS8-35	35	89.24	92.7	60	22	12	£67.46
XS8-36	36	91.79	95.2	60	22	12	£70.63
XS8-38	38	96.88	100.2	60	22	12	£77.20
XS8-40	40	101.97	105.7	60	22	12	£83.91

Sprockets & Chains Steel PITCH 8 mm

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**13.33**

Duplex Chain Sprockets

Materials

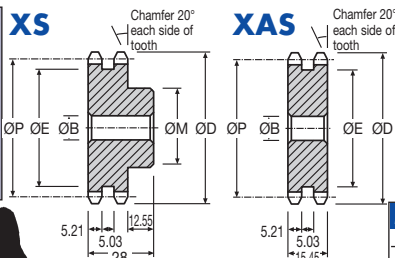
3/8" Pitch

STD : Mild Steel (En202)

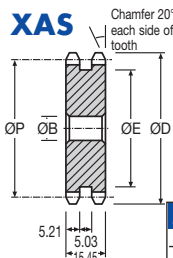
SPECIAL TEETH : between 8 - 96



XS



XAS



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 6.35
Chain No. 06B-2
HPC Part No. XSBR-375

PITCH 3/8"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	
		OP	ØD				XS	XAS
XS37-8	8	24.88	28.70	12.70	13	6.35	£17.31	£14.61
XS37-9	9	27.84	31.88	16.00	16	7.92	£17.37	£14.64
XS37-10	10	30.82	35.03	19.05	19	7.92	£17.43	£14.66
XS37-11	11	33.80	38.15	22.23	22	7.92	£18.18	£15.37
XS37-12	12	36.80	41.26	25.40	25	7.92	£18.65	£15.57
XS37-13	13	39.80	44.35	25.40	28	7.92	£19.15	£16.12
XS37-14	14	42.80	47.44	25.40	31	7.92	£19.61	£16.48
XS37-15	15	45.81	50.52	34.04	34	7.92	£20.92	£17.52
XS37-16	16	48.82	53.59	36.83	37	9.53	£21.60	£18.12
XS37-17	17	51.83	56.66	38.10	40	9.53	£22.38	£18.79
XS37-18	18	54.85	59.73	41.91	43	9.53	£24.16	£20.31
XS37-19	19	57.86	62.79	44.45	46	9.53	£25.33	£21.33
XS37-20	20	60.88	65.82	44.45	49	9.53	£32.04	£26.92
XS37-21	21	63.90	68.91	44.45	52	9.53	£33.40	£28.02
XS37-23	23	69.95	75.01	44.45	58	9.53	£35.72	£30.44
XS37-25	25	76.00	81.11	60.33	64	12.70	£38.09	£31.96
XS37-27	27	82.04	87.21	60.33	70	12.70	£41.22	£34.62
XS37-30	30	91.12	96.33	69.85	79	12.70	£45.38	£38.09
XS37-33	33	100.20	105.47	69.85	88	12.70	£49.16	£41.23
XS37-35	35	106.25	111.54	76.20	94	12.70	£55.55	£46.68
XS37-36	36	109.28	114.58	76.20	97	12.70	£57.49	£48.24
XS37-38	38	115.34	120.66	76.20	104	12.70	£64.34	£54.00
XS37-39	39	118.37	123.70	76.20	107	12.70	£67.46	£56.63
XS37-40	40	121.40	126.73	76.20	110	12.70	£70.63	£59.38
XS37-42	42	127.45	132.81	76.20	116	12.70	£77.20	£64.82
XS37-44	44	133.51	138.89	76.20	122	12.70	£83.91	£70.50
XS37-48	48	145.53	151.03	76.20	134	12.70	£98.42	£82.66

13.34



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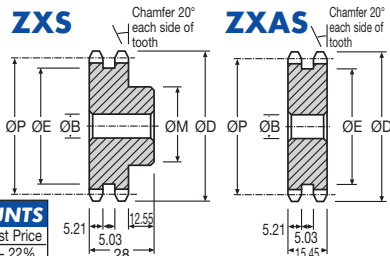
Materials

Duplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 96

3/8" Pitch



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 6.35

Chain No. 06B-2

HPC Part No. XSBR-375

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss Ø ØM	Int. Boss Ø OE	Bore Ø ØB	PRICE EACH 1-5	ZXS	ZXAS
ZXS37-8	8	24.88	28.70	12.70	13	6.35	£16.46	£12.69	
ZXS37-9	9	27.84	31.88	16.00	16	7.92	£18.65	£14.29	
ZXS37-10	10	30.82	35.03	19.05	19	7.92	£19.36	£14.76	
ZXS37-11	11	33.80	38.15	22.23	22	7.92	£20.90	£15.93	
ZXS37-12	12	36.80	41.26	25.40	25	7.92	£22.12	£16.94	
ZXS37-13	13	39.80	44.35	25.40	28	7.92	£26.24	£20.11	
ZXS37-14	14	42.80	47.44	25.40	31	7.92	£27.62	£21.21	
ZXS37-15	15	45.81	50.52	34.04	34	7.92	£29.54	£23.83	
ZXS37-16	16	48.82	53.59	36.83	37	9.53	£34.73	£26.61	
ZXS37-17	17	51.83	56.66	38.10	40	9.53	£35.36	£27.09	
ZXS37-18	18	54.85	59.73	41.91	43	9.53	£35.89	£27.43	
ZXS37-19	19	57.86	62.79	44.45	46	9.53	£41.09	£31.47	
ZXS37-20	20	60.88	65.82	44.45	49	9.53	£42.27	£32.26	
ZXS37-21	21	63.90	68.91	44.45	52	9.53	£43.29	£33.16	
ZXS37-23	23	69.95	75.01	44.45	58	9.53	£48.24	£37.00	
ZXS37-25	25	76.00	81.11	60.33	64	12.70	£54.66	£41.89	
ZXS37-27	27	82.04	87.21	60.33	70	12.70	£58.09	£44.62	
ZXS37-30	30	91.12	96.33	69.85	79	12.70	£68.08	£52.18	
ZXS37-33	33	100.20	105.47	69.85	88	12.70	£84.54	£64.81	
ZXS37-35	35	106.25	111.54	76.20	94	12.70	£85.31	£65.37	
ZXS37-36	36	109.28	114.58	76.20	97	12.70	£93.74	£71.91	
ZXS37-38	38	115.34	120.66	76.20	104	12.70	£97.46	£75.48	
ZXS37-39	39	118.37	123.70	76.20	107	12.70	£118.55	£91.04	
ZXS37-40	40	121.40	126.73	76.20	110	12.70	£133.27	£102.90	
ZXS37-42	42	127.45	132.81	76.20	116	12.70	£139.49	£115.15	
ZXS37-44	44	133.51	138.89	76.20	122	12.70	£150.03	£126.06	
ZXS37-48	48	145.53	151.03	76.20	134	12.70	£151.27	£137.20	

Sprockets & Chains Plastic PITCH 3/8"

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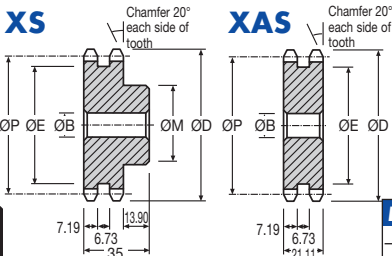
13.35

Duplex Chain Sprockets Materials

1/2" Pitch

STD : Mild Steel (En202)

SPECIAL TEETH : between 8 - 76



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 8.51
Chain No. 08B-2
HPC Part No. XSBR-500

PITCH 1/2"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø ØM	Int. Boss Ø ØE	Bore Ø ØB	PRICE EACH 1-5	
		ØP	ØD				XS	XAS
XS50-8	8	33.18	38.27	19.05	17	9.52	£23.25	£19.58
XS50-9	9	37.13	42.51	19.05	21	9.52	£25.95	£21.77
XS50-10	10	41.09	46.71	25.40	25	12.70	£27.60	£23.12
XS50-11	11	45.07	50.87	28.58	29	12.70	£29.28	£24.57
XS50-12	12	49.06	55.01	31.62	33	12.70	£30.39	£25.48
XS50-13	13	53.06	59.14	31.62	37	12.70	£33.75	£28.29
XS50-14	14	57.07	63.25	31.62	41	12.70	£34.44	£28.97
XS50-15	15	61.08	67.36	44.45	45	12.70	£35.23	£29.53
XS50-16	16	65.09	71.46	50.80	49	12.70	£35.98	£30.17
XS50-17	17	69.11	75.55	50.80	53	12.70	£37.60	£31.50
XS50-18	18	73.13	79.64	50.80	57	12.70	£42.97	£36.06
XS50-19	19	77.15	83.73	60.33	61	12.70	£45.08	£37.85
XS50-20	20	81.18	87.80	63.50	65	12.70	£46.24	£38.83
XS50-21	21	85.21	91.88	63.50	70	12.70	£47.24	£39.68
XS50-23	23	93.26	100.02	63.50	78	12.70	£49.27	£41.39
XS50-25	25	101.32	108.15	69.85	86	12.70	£53.48	£44.91
XS50-27	27	109.39	116.28	69.85	94	15.88	£62.15	£52.18
XS50-30	30	121.49	128.44	79.38	106	15.88	£91.98	£77.25
XS50-33	33	133.60	140.62	79.38	118	15.88	£104.36	£87.62
XS50-35	35	141.67	148.72	88.90	126	15.88	£112.81	£94.72
XS50-36	36	145.71	152.78	88.90	130	15.88	£124.49	£104.55
XS50-38	38	153.79	160.88	88.90	139	15.88	£145.97	£122.58
XS50-39	39	157.83	164.93	88.90	142	15.88	£160.17	£134.58
XS50-40	40	161.86	168.98	88.90	146	15.88	£164.05	£137.75
XS50-42	42	169.94	177.08	88.90	154	15.88	£172.38	£144.74
XS50-44	44	178.02	185.19	88.90	162	15.88	£182.52	£153.39
XS50-48	48	194.18	201.38	88.90	178	15.88	£189.44	£159.15

13.36



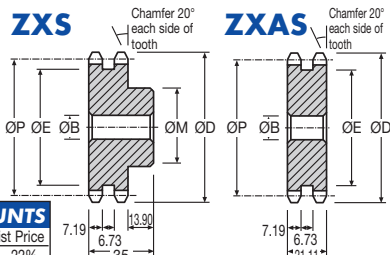
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Materials

Duplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 76

1/2" Pitch**DISCOUNTS**

1 - 5	List Price
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 8.51

Chain No. 08B-2

HPC Part No. XSBR-500

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss ØM	Int. Boss ØE	Bore ØB	PRICE EACH 1-5	ZXS	ZXAS
ZXS50-8	8	33.18	38.27	19.05	17	9.52	£10.21	£7.80	
ZXS50-9	9	37.13	42.51	19.05	21	9.52	£14.69	£11.25	
ZXS50-10	10	41.09	46.71	25.40	25	12.70	£18.55	£14.27	
ZXS50-11	11	45.07	50.87	28.58	29	12.70	£19.71	£15.18	
ZXS50-12	12	49.06	55.01	31.62	33	12.70	£20.25	£15.55	
ZXS50-13	13	53.06	59.14	31.62	37	12.70	£26.12	£20.00	
ZXS50-14	14	57.07	63.25	31.62	41	12.70	£31.63	£24.24	
ZXS50-15	15	61.08	67.36	44.45	45	12.70	£32.29	£24.78	
ZXS50-16	16	65.09	71.46	50.80	49	12.70	£32.38	£24.85	
ZXS50-17	17	69.11	75.55	50.80	53	12.70	£34.53	£26.37	
ZXS50-18	18	73.13	79.64	50.80	57	12.70	£43.88	£33.64	
ZXS50-19	19	77.15	83.73	60.33	61	12.70	£44.51	£34.17	
ZXS50-20	20	81.18	87.80	63.50	65	12.70	£45.35	£34.52	
ZXS50-21	21	85.21	91.88	63.50	70	12.70	£45.73	£34.77	
ZXS50-23	23	93.26	100.02	63.50	78	12.70	£52.59	£40.34	
ZXS50-25	25	101.32	108.15	69.85	86	12.70	£63.63	£48.84	
ZXS50-27	27	109.39	116.28	69.85	94	15.88	£73.88	£56.63	
ZXS50-30	30	121.49	128.44	79.38	106	15.88	£88.62	£67.98	
ZXS50-33	33	133.60	140.62	79.38	118	15.88	£101.98	£78.29	
ZXS50-35	35	141.67	148.72	88.90	126	15.88	£125.32	£97.92	
ZXS50-36	36	145.71	152.78	88.90	130	15.88	£151.16	£106.20	
ZXS50-38	38	153.79	160.88	88.90	139	15.88	£186.61	£137.61	
ZXS50-39	39	157.83	164.93	88.90	142	15.88	£235.89	£151.04	
ZXS50-40	40	161.86	168.98	88.90	146	15.88	£259.57	£183.45	
ZXS50-42	42	169.94	177.08	88.90	154	15.88	£275.28	£194.96	
ZXS50-44	44	178.02	185.19	88.90	162	15.88	£293.95	£230.32	
ZXS50-48	48	194.18	201.38	88.90	178	15.88	£308.27	£253.29	

Sprockets & Chains Plastic PITCH 1/2"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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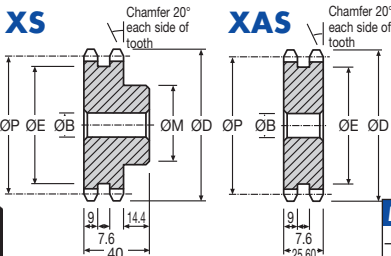
**13.37**

Duplex Chain Sprockets Materials

5/8" Pitch

STD : Mild Steel (En202)

SPECIAL TEETH : between 8 - 60



DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 10.16

Chain No. 10B-2

HPC Part No. XSBR-625

PITCH 5/8"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				XS	XAS
XS62-8	8	41.48	47.84	22.22	23	12.70	£29.30	£24.22
XS62-9	9	46.41	53.15	25.40	28	12.70	£32.64	£27.02
XS62-10	10	51.37	58.38	25.40	33	12.70	£36.05	£29.82
XS62-11	11	56.35	63.59	28.58	39	12.70	£38.03	£31.43
XS62-12	12	61.33	68.77	31.75	44	12.70	£38.66	£31.99
XS62-13	13	66.33	73.93	31.75	49	12.70	£41.63	£34.47
XS62-14	14	71.34	79.07	31.75	54	12.70	£43.04	£35.64
XS62-15	15	76.35	84.20	44.45	59	12.70	£44.02	£36.37
XS62-16	16	81.37	89.32	50.80	64	12.70	£45.52	£37.68
XS62-17	17	86.39	94.44	50.80	69	12.70	£50.31	£41.57
XS62-18	18	91.42	99.55	50.80	74	12.70	£53.41	£44.16
XS62-19	19	96.44	104.66	60.33	79	12.70	£55.29	£45.80
XS62-20	20	101.47	109.75	63.50	84	12.70	£56.93	£47.13
XS62-21	21	106.51	114.85	63.50	89	12.70	£58.31	£48.27
XS62-23	23	116.58	125.03	63.50	99	12.70	£60.61	£50.19
XS62-25	25	126.66	135.19	69.85	109	12.70	£64.58	£53.48
XS62-27	27	136.74	145.35	69.85	119	12.70	£75.04	£58.53
XS62-30	30	151.87	160.56	79.38	134	15.88	£110.12	£91.18
XS62-33	33	167.00	175.78	79.38	150	15.88	£124.37	£103.00
XS62-35	35	177.09	185.91	88.90	160	15.88	£134.44	£111.38
XS62-36	36	182.14	190.97	88.90	164	15.88	£147.13	£121.86
XS62-38	38	192.23	201.10	88.90	175	19.05	£172.53	£142.90
XS62-39	39	197.28	206.16	88.90	180	19.05	£189.29	£156.87
XS62-40	40	202.33	211.23	88.90	185	19.05	£193.87	£160.38
XS62-42	42	212.43	221.36	88.90	195	19.05	£203.69	£168.73
XS62-44	44	222.52	231.49	88.90	205	19.05	£215.85	£177.83
XS62-48	48	242.72	251.72	88.90	225	25.40	£223.87	£185.48

13.38



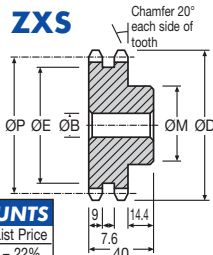
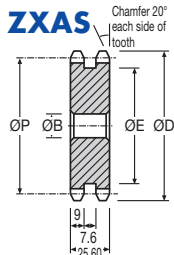
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Duplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 60

5/8" Pitch**ZXS****ZXAS****DISCOUNTS**

Quantity	List Price
1 - 5	
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 10.16

Chain No. 10B-2

HPC Part No. XSBR-625

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss ØM	Int. Boss ØE	Bore ØB	PRICE EACH 1-5	ZXS	ZXAS
ZXS62-8	8	41.48	47.84	22.22	23	12.70	£26.33	£21.79	
ZXS62-9	9	46.41	53.15	25.40	28	12.70	£29.37	£24.31	
ZXS62-10	10	51.37	58.38	25.40	33	12.70	£32.43	£26.82	
ZXS62-11	11	56.35	63.59	28.58	39	12.70	£34.21	£28.28	
ZXS62-12	12	61.33	68.77	31.75	44	12.70	£34.80	£28.76	
ZXS62-13	13	66.33	73.93	31.75	49	12.70	£37.44	£31.01	
ZXS62-14	14	71.34	79.07	31.75	54	12.70	£38.72	£32.04	
ZXS62-15	15	76.35	84.20	44.45	59	12.70	£39.60	£32.71	
ZXS62-16	16	81.37	89.32	50.80	64	12.70	£40.95	£33.90	
ZXS62-17	17	86.39	94.44	50.80	69	12.70	£45.25	£37.40	
ZXS62-18	18	91.42	99.55	50.80	74	12.70	£48.01	£39.74	
ZXS62-19	19	96.44	104.66	60.33	79	12.70	£49.75	£41.18	
ZXS62-20	20	101.47	109.75	63.50	84	12.70	£51.24	£42.40	
ZXS62-21	21	106.51	114.85	63.50	89	12.70	£52.48	£43.46	
ZXS62-23	23	116.58	125.03	63.50	99	12.70	£54.55	£45.16	
ZXS62-25	25	126.66	135.19	69.85	109	12.70	£58.10	£48.17	
ZXS62-27	27	136.74	145.35	69.85	119	12.70	£67.51	£52.64	
ZXS62-30	30	151.87	160.56	79.38	134	15.88	£99.07	£82.07	
ZXS62-33	33	167.00	175.78	79.38	150	15.88	£111.91	£92.70	
ZXS62-35	35	177.09	185.91	88.90	160	15.88	£120.99	£100.25	
ZXS62-36	36	182.14	190.97	88.90	164	15.88	£132.36	£109.64	
ZXS62-38	38	192.23	201.10	88.90	175	19.05	£155.26	£128.59	
ZXS62-39	39	197.28	206.16	88.90	180	19.05	£170.32	£141.14	
ZXS62-40	40	202.33	211.23	88.90	185	19.05	£174.45	£144.31	
ZXS62-42	42	212.43	221.36	88.90	195	19.05	£183.27	£151.80	
ZXS62-44	44	222.52	231.49	88.90	205	19.05	£194.28	£160.06	
ZXS62-48	48	242.72	251.72	88.90	225	25.40	£201.51	£166.93	

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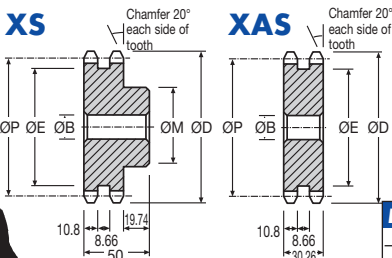
**13.39****Sprockets & Chains Plastic Pitch 5/8"**

Duplex Chain Sprockets Materials

3/4" Pitch

STD : Mild Steel (En202)

SPECIAL TEETH : between 8 - 60



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 12.07

Chain No. 12B-2

HPC Part No. XSUA-750

PITCH 3/4"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				XS	XAS
XS75-8	8	49.78	57.41	25.40	29	12.70	£35.30	£28.91
XS75-9	9	55.69	63.77	25.40	35	12.70	£39.35	£32.22
XS75-10	10	61.65	70.07	25.40	41	12.70	£44.54	£36.45
XS75-11	11	67.62	76.31	25.40	47	12.70	£46.82	£38.28
XS75-12	12	73.60	82.52	25.40	53	12.70	£46.93	£38.46
XS75-13	13	79.60	88.72	38.10	59	19.05	£49.49	£40.56
XS75-14	14	85.61	94.91	38.10	65	19.05	£51.64	£42.26
XS75-15	15	91.62	101.06	38.10	71	19.05	£52.81	£43.21
XS75-16	16	97.65	107.19	38.10	77	19.05	£55.04	£45.08
XS75-17	17	103.68	113.35	38.10	83	19.05	£62.97	£51.61
XS75-18	18	109.71	119.46	50.80	89	19.05	£63.80	£52.29
XS75-19	19	115.74	125.60	50.80	95	19.05	£65.49	£53.66
XS75-20	20	121.78	131.71	50.80	101	19.05	£67.56	£55.42
XS75-21	21	127.82	137.83	50.80	107	19.05	£69.40	£56.84
XS75-23	23	139.90	150.02	50.80	119	19.05	£71.91	£58.91
XS75-25	25	151.98	162.23	50.80	130	19.05	£75.69	£62.05
XS75-27	27	164.09	174.42	50.80	142	19.05	£87.91	£72.05
XS75-30	30	182.25	192.67	76.20	160	25.40	£128.20	£105.10
XS75-33	33	200.41	210.92	76.20	178	25.40	£144.33	£118.32
XS75-35	35	212.52	223.09	76.20	190	25.40	£156.10	£127.98
XS75-36	36	218.57	229.17	76.20	196	25.40	£169.76	£139.16
XS75-38	38	230.69	241.33	76.20	210	25.40	£199.04	£163.14
XS75-39	39	236.74	247.40	76.20	216	25.40	£218.36	£179.06
XS75-40	40	242.80	253.48	76.20	222	25.40	£223.71	£183.41
XS75-42	42	254.92	265.63	76.20	234	25.40	£234.98	£192.62
XS75-44	44	267.03	277.79	76.20	246	25.40	£249.23	£204.06
XS75-48	48	291.27	302.08	76.20	270	25.40	£258.30	£211.77

13.40



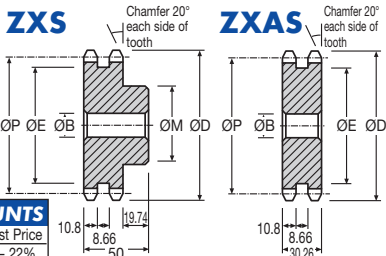
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Duplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 60

3/4" Pitch**DISCOUNTS**

1 - 5	List Price
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 12.07

Chain No. 12B-2

HPC Part No. XSUA-750

PART NUMBER	TEETH	P.C.D.		Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				ZXS	ZXAS
ZXS75-8	8	49.78	57.41	25.40	29	12.70	£29.62	£25.11
ZXS75-9	9	55.69	63.77	25.40	35	12.70	£32.97	£27.96
ZXS75-10	10	61.65	70.07	25.40	41	12.70	£37.37	£31.73
ZXS75-11	11	67.62	76.31	25.40	47	12.70	£39.22	£33.31
ZXS75-12	12	73.60	82.52	25.40	53	12.70	£39.36	£33.44
ZXS75-13	13	79.60	88.72	38.10	59	19.05	£47.40	£40.28
ZXS75-14	14	85.61	94.91	38.10	65	19.05	£49.49	£42.05
ZXS75-15	15	91.62	101.06	38.10	71	19.05	£50.64	£42.99
ZXS75-16	16	97.65	107.19	38.10	77	19.05	£59.40	£50.49
ZXS75-17	17	103.68	113.35	38.10	83	19.05	£75.53	£64.18
ZXS75-18	18	109.71	119.46	50.80	89	19.05	£76.55	£65.09
ZXS75-19	19	115.74	125.60	50.80	95	19.05	£78.50	£66.73
ZXS75-20	20	121.78	131.71	50.80	101	19.05	£81.04	£68.84
ZXS75-21	21	127.82	137.83	50.80	107	19.05	£83.18	£70.69
ZXS75-23	23	139.90	150.02	50.80	119	19.05	£94.97	£75.91
ZXS75-25	25	151.98	162.23	50.80	130	19.05	£99.89	£79.86
ZXS75-27	27	164.09	174.42	50.80	142	19.05	£126.60	£101.23
ZXS75-30	30	182.25	192.67	76.20	160	25.40	£184.58	£147.67
ZXS75-33	33	200.41	210.92	76.20	178	25.40	£207.90	£166.29
ZXS75-35	35	212.52	223.09	76.20	190	25.40	£232.24	£185.81
ZXS75-36	36	218.57	229.17	76.20	196	25.40	£252.55	£202.03
ZXS75-38	38	230.69	241.33	76.20	210	25.40	£300.94	£240.73
ZXS75-39	39	236.74	247.40	76.20	216	25.40	£330.24	£264.16
ZXS75-40	40	242.80	253.48	76.20	222	25.40	£343.51	£274.79
ZXS75-42	42	254.92	265.63	76.20	234	25.40	£366.58	£293.23
ZXS75-44	44	267.03	277.79	76.20	246	25.40	£388.24	£310.59
ZXS75-48	48	291.27	302.08	76.20	270	25.40	£402.96	£322.32

Sprockets & Chains Plastic PITCH 3/4"

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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**13.41**

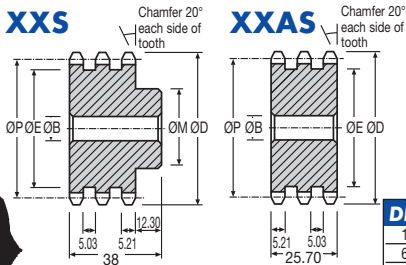
Triplex Chain Sprockets

Materials

3/8" Pitch

STD : Mild Steel (En202)

SPECIAL TEETH : between 8 - 96



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 6.35

Chain No. 06B-3

HPC Part No. XXSBR-375

PITCH 3/8"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø ØM	Int. Boss Ø ØE	Bore Ø ØB	PRICE EACH 1-5	
		ØP	ØD				XXS	XXAS
XXS37-8	8	24.88	28.70	12.70	13	6.35	£29.03	£24.38
XXS37-9	9	27.84	31.88	16.00	16	7.92	£29.07	£24.40
XXS37-10	10	30.82	35.03	19.05	19	7.92	£29.10	£24.45
XXS37-11	11	33.80	38.15	22.23	22	7.92	£29.73	£25.61
XXS37-12	12	36.80	41.26	25.40	25	7.92	£31.09	£26.04
XXS37-13	13	39.80	44.35	25.40	28	7.92	£31.99	£26.87
XXS37-14	14	42.80	47.44	25.40	31	7.92	£32.71	£27.54
XXS37-15	15	45.81	50.52	34.04	34	7.92	£34.95	£29.29
XXS37-16	16	48.82	53.59	36.83	37	9.53	£36.03	£30.26
XXS37-17	17	51.83	56.66	38.10	40	9.53	£37.34	£31.42
XXS37-18	18	54.85	59.73	41.91	43	9.53	£40.31	£33.88
XXS37-19	19	57.86	62.79	44.45	46	9.53	£42.26	£35.59
XXS37-20	20	60.88	65.85	44.45	49	9.53	£53.47	£44.95
XXS37-21	21	63.90	68.91	44.45	52	9.53	£55.76	£46.83
XXS37-23	23	69.95	75.01	44.45	58	9.53	£60.41	£50.82
XXS37-25	25	76.00	81.11	60.33	64	12.70	£63.56	£53.34
XXS37-27	27	82.04	87.21	60.33	70	12.70	£68.76	£57.82
XXS37-30	30	91.12	96.33	69.85	79	12.70	£75.72	£63.56
XXS37-33	33	100.20	105.47	69.85	88	12.70	£81.97	£68.80
XXS37-35	35	106.25	111.54	76.20	94	12.70	£92.70	£77.89
XXS37-36	36	109.28	114.58	76.20	97	12.70	£95.87	£80.48
XXS37-38	38	115.34	120.66	76.20	104	12.70	£107.34	£90.09
XXS37-39	39	118.37	123.70	76.20	107	12.70	£112.44	£94.46
XXS37-40	40	121.40	126.73	76.20	110	12.70	£117.74	£99.00
XXS37-42	42	127.45	132.81	76.20	116	12.70	£128.71	£108.04
XXS37-44	44	133.51	138.89	76.20	122	12.70	£139.95	£117.59
XXS37-48	48	145.53	151.03	76.20	134	12.70	£164.09	£137.77

13.42



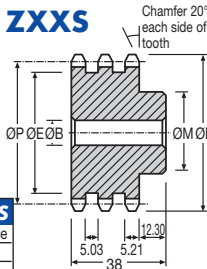
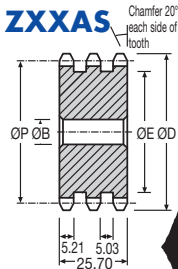
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Triplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 96

3/8" Pitch**ZXXS****ZXXAS****DISCOUNTS**

1 - 5	List Price
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 6.35

Chain No. 06B-3

HPC Part No. XXSBR-375

PART NUMBER	TEETH	P.C.D.		Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				ZXXS	ZXXAS
ZXXS37-8	8	24.88	28.70	12.70	13	6.35	£24.74	£19.07
ZXXS37-9	9	27.84	31.88	16.00	16	7.92	£27.98	£21.44
ZXXS37-10	10	30.82	35.03	19.05	19	7.92	£29.07	£22.21
ZXXS37-11	11	33.80	38.15	22.23	22	7.92	£31.35	£23.92
ZXXS37-12	12	36.80	41.26	25.40	25	7.92	£33.24	£25.42
ZXXS37-13	13	39.80	44.35	25.40	28	7.92	£39.38	£30.22
ZXXS37-14	14	42.80	47.44	25.40	31	7.92	£41.47	£31.85
ZXXS37-15	15	45.81	50.52	34.04	34	7.92	£44.35	£35.73
ZXXS37-16	16	48.82	53.59	36.83	37	9.53	£52.12	£39.96
ZXXS37-17	17	51.83	56.66	38.10	40	9.53	£53.13	£40.73
ZXXS37-18	18	54.85	59.73	41.91	43	9.53	£53.87	£41.23
ZXXS37-19	19	57.86	62.79	44.45	46	9.53	£61.65	£47.24
ZXXS37-20	20	60.88	65.85	44.45	49	9.53	£63.49	£48.40
ZXXS37-21	21	63.90	68.91	44.45	52	9.53	£64.96	£49.76
ZXXS37-23	23	69.95	75.01	44.45	58	9.53	£72.43	£55.52
ZXXS37-25	25	76.00	81.11	60.33	64	12.70	£82.05	£62.84
ZXXS37-27	27	82.04	87.21	60.33	70	12.70	£87.20	£66.93
ZXXS37-30	30	91.12	96.33	69.85	79	12.70	£102.18	£78.33
ZXXS37-33	33	100.20	105.47	69.85	88	12.70	£126.86	£97.24
ZXXS37-35	35	106.25	111.54	76.20	94	12.70	£128.00	£98.09
ZXXS37-36	36	109.28	114.58	76.20	97	12.70	£140.62	£107.95
ZXXS37-38	38	115.34	120.66	76.20	104	12.70	£146.26	£113.31
ZXXS37-39	39	118.37	123.70	76.20	107	12.70	£177.83	£136.61
ZXXS37-40	40	121.40	126.73	76.20	110	12.70	£199.96	£154.42
ZXXS37-42	42	127.45	132.81	76.20	116	12.70	£209.22	£172.78
ZXXS37-44	44	133.51	138.89	76.20	122	12.70	£225.10	£189.17
ZXXS37-48	48	145.53	151.03	76.20	134	12.70	£227.00	£205.83

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**13.43**

Sprockets & Chains Plastic PITCH 3/8"

Triplex Chain Sprockets

Materials

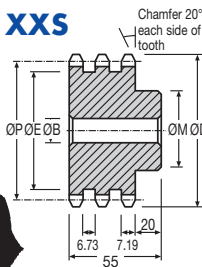
1/2" Pitch

STD : Mild Steel (En202)

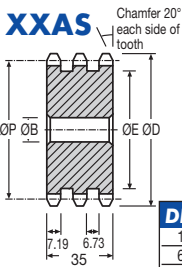
SPECIAL TEETH : between 8 - 76



XXS



XXAS



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 8.51
Chain No. 08B-3

HPC Part No. XXSBR-500

PITCH 1/2"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø ØM	Int. Boss Ø ØE	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				XXS	XXAS
XXS50-8	8	33.18	38.27	19.05	17	9.52	£38.83	£32.63
XXS50-9	9	37.13	42.51	19.05	21	9.52	£43.29	£36.36
XXS50-10	10	41.09	46.71	25.40	25	12.70	£46.05	£38.61
XXS50-11	11	45.07	50.87	28.58	29	12.70	£48.81	£40.98
XXS50-12	12	49.06	55.01	31.62	33	12.70	£50.67	£42.56
XXS50-13	13	53.06	59.14	31.62	37	12.70	£56.31	£47.24
XXS50-14	14	57.07	63.25	31.62	41	12.70	£57.44	£48.34
XXS50-15	15	61.08	67.36	44.45	45	12.70	£58.79	£49.23
XXS50-16	16	65.09	71.46	50.80	49	12.70	£60.07	£50.34
XXS50-17	17	69.11	75.55	50.80	53	12.70	£62.71	£52.55
XXS50-18	18	73.13	79.64	50.80	57	12.70	£71.68	£60.21
XXS50-19	19	77.15	83.73	60.33	61	12.70	£75.18	£63.17
XXS50-20	20	81.18	87.80	63.50	65	12.70	£77.18	£64.76
XXS50-21	21	85.21	91.88	63.50	70	12.70	£78.78	£66.22
XXS50-23	23	93.26	100.02	63.50	78	12.70	£82.22	£69.03
XXS50-25	25	101.32	108.15	69.85	86	12.70	£89.26	£74.92
XXS50-27	27	109.39	116.28	69.85	94	15.88	£103.64	£87.00
XXS50-30	30	121.49	128.44	79.38	106	15.88	£153.38	£128.86
XXS50-33	33	133.60	140.62	79.38	118	15.88	£173.98	£146.12
XXS50-35	35	141.67	148.72	88.90	126	15.88	£188.10	£157.95
XXS50-36	36	145.71	152.78	88.90	130	15.88	£207.54	£174.30
XXS50-38	38	153.79	160.88	88.90	139	15.88	£243.37	£204.37
XXS50-39	39	157.83	164.93	88.90	142	15.88	£267.01	£224.36
XXS50-40	40	161.86	168.98	88.90	146	15.88	£273.45	£229.62
XXS50-42	42	169.94	177.08	88.90	154	15.88	£287.34	£241.33
XXS50-44	44	178.02	185.19	88.90	162	15.88	£304.32	£255.68
XXS50-48	48	194.18	201.38	88.90	178	15.88	£315.87	£265.34

13.44



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Materials

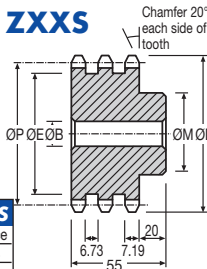
Triplex Chain Sprockets

STD : White Delrin

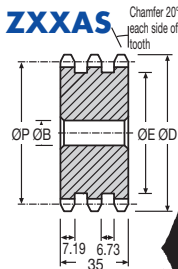
SPECIAL TEETH : between 8 - 76

1/2" Pitch

ZXXS



ZXXAS



DISCOUNTS

1 - 5	List Price
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 8.51

Chain No. 08B-3

HPC Part No. XXSBR-500

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss Ø ØM	Int. Boss Ø OE	Bore Ø ØB	PRICE EACH 1-5 ZXXS	ZXXAS
ZXXS50-8	8	33.18	38.27	19.05	17	9.52	£20.47	£15.70
ZXXS50-9	9	37.13	42.51	19.05	21	9.52	£29.44	£22.55
ZXXS50-10	10	41.09	46.71	25.40	25	12.70	£37.20	£28.61
ZXXS50-11	11	45.07	50.87	28.58	29	12.70	£39.53	£30.46
ZXXS50-12	12	49.06	55.01	31.62	33	12.70	£40.59	£31.21
ZXXS50-13	13	53.06	59.14	31.62	37	12.70	£52.35	£40.16
ZXXS50-14	14	57.07	63.25	31.62	41	12.70	£63.39	£48.61
ZXXS50-15	15	61.08	67.36	44.45	45	12.70	£64.62	£49.65
ZXXS50-16	16	65.09	71.46	50.80	49	12.70	£64.88	£49.76
ZXXS50-17	17	69.11	75.55	50.80	53	12.70	£69.15	£52.87
ZXXS50-18	18	73.13	79.64	50.80	57	12.70	£87.81	£67.43
ZXXS50-19	19	77.15	83.73	60.33	61	12.70	£89.12	£68.42
ZXXS50-20	20	81.18	87.80	63.50	65	12.70	£90.73	£69.68
ZXXS50-21	21	85.21	91.88	63.50	70	12.70	£91.57	£73.51
ZXXS50-23	23	93.26	100.02	63.50	78	12.70	£105.30	£80.77
ZXXS50-25	25	101.32	108.15	69.85	86	12.70	£127.37	£97.80
ZXXS50-27	27	109.39	116.28	69.85	94	15.88	£147.79	£113.36
ZXXS50-30	30	121.49	128.44	79.38	106	15.88	£177.29	£136.02
ZXXS50-33	33	133.60	140.62	79.38	118	15.88	£204.07	£156.67
ZXXS50-35	35	141.67	148.72	88.90	126	15.88	£250.76	£195.93
ZXXS50-36	36	145.71	152.78	88.90	130	15.88	£302.35	£212.46
ZXXS50-38	38	153.79	160.88	88.90	139	15.88	£373.31	£275.31
ZXXS50-39	39	157.83	164.93	88.90	142	15.88	£471.91	£302.15
ZXXS50-40	40	161.86	168.98	88.90	146	15.88	£519.24	£367.00
ZXXS50-42	42	169.94	177.08	88.90	154	15.88	£550.64	£390.05
ZXXS50-44	44	178.02	185.19	88.90	162	15.88	£587.96	£460.78
ZXXS50-48	48	194.18	201.38	88.90	178	15.88	£660.78	£506.62

Sprockets & Chains Plastic PITCH 1/2"

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13.45

Triplex Chain Sprockets

Materials

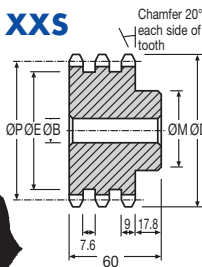
5/8" Pitch

STD : Mild Steel (En202)

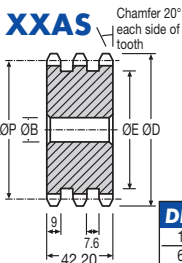
SPECIAL TEETH : between 8 - 60



XXS



XXAS



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 10.16

Chain No. 10B-3

HPC Part No. XXSBR-625

PITCH 5/8"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø ØM	Int. Boss Ø ØE	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				XXS	XXAS
XXS62-8	8	41.48	47.84	22.22	23	12.70	£48.88	£40.48
XXS62-9	9	46.41	53.15	25.40	28	12.70	£54.51	£45.06
XXS62-10	10	51.37	58.38	25.40	33	12.70	£60.12	£49.75
XXS62-11	11	56.35	63.59	28.58	39	12.70	£63.42	£52.46
XXS62-12	12	61.33	68.77	31.75	44	12.70	£64.31	£53.58
XXS62-13	13	66.33	73.93	31.75	49	12.70	£69.44	£55.15
XXS62-14	14	71.34	79.07	31.75	54	12.70	£71.21	£59.93
XXS62-15	15	76.35	84.20	44.45	59	12.70	£74.04	£61.22
XXS62-16	16	81.37	89.32	50.80	64	12.70	£77.24	£63.91
XXS62-17	17	86.39	94.44	50.80	69	12.70	£88.35	£73.18
XXS62-18	18	91.42	99.55	50.80	74	12.70	£92.53	£75.19
XXS62-19	19	96.44	104.66	60.33	79	12.70	£93.20	£77.18
XXS62-20	20	101.47	109.75	63.50	84	12.70	£95.74	£79.35
XXS62-21	21	106.51	114.85	63.50	89	12.70	£98.97	£81.96
XXS62-23	23	116.58	125.03	63.50	99	12.70	£104.60	£86.64
XXS62-25	25	126.66	135.19	69.85	109	12.70	£107.71	£89.22
XXS62-27	27	136.74	145.35	69.85	119	12.70	£125.14	£103.62
XXS62-30	30	151.87	160.56	79.38	134	15.88	£183.55	£152.09
XXS62-33	33	167.00	175.78	79.38	150	15.88	£207.24	£171.71
XXS62-35	35	177.09	185.91	88.90	160	15.88	£224.18	£185.66
XXS62-36	36	182.14	190.97	88.90	164	15.88	£245.23	£203.16
XXS62-38	38	192.23	201.10	88.90	175	19.05	£287.57	£238.21
XXS62-39	39	197.28	206.16	88.90	180	19.05	£315.53	£261.47
XXS62-40	40	202.33	211.23	88.90	185	19.05	£323.19	£267.72
XXS62-42	42	212.43	221.36	88.90	195	19.05	£339.54	£269.37
XXS62-44	44	222.52	231.49	88.90	205	19.05	£359.86	£297.96
XXS62-48	48	242.72	251.72	88.90	225	25.40	£373.20	£309.21

13.46



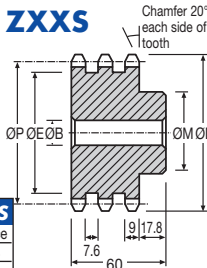
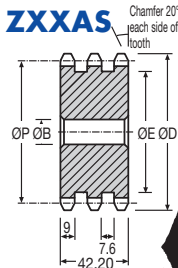
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials

Triplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 60

5/8" Pitch**ZXXS****ZXXAS****DISCOUNTS**

	List Price
1 - 5	
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 10.16

Chain No. 10B-3

HPC Part No. XXSBR-625

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	ZXXS	ZXXAS
ZXXS62-8	8	41.48	47.84	22.22	23	12.70	£43.97	£36.42	
ZXXS62-9	9	46.41	53.15	25.40	28	12.70	£49.00	£40.53	
ZXXS62-10	10	51.37	58.38	25.40	33	12.70	£54.14	£57.07	
ZXXS62-11	11	56.35	63.59	28.58	39	12.70	£57.07	£47.19	
ZXXS62-12	12	61.33	68.77	31.75	44	12.70	£58.06	£49.00	
ZXXS62-13	13	66.33	73.93	31.75	49	12.70	£62.47	£49.61	
ZXXS62-14	14	71.34	79.07	31.75	54	12.70	£64.08	£53.90	
ZXXS62-15	15	76.35	84.20	44.45	59	12.70	£66.63	£55.11	
ZXXS62-16	16	81.37	89.32	50.80	64	12.70	£69.53	£57.52	
ZXXS62-17	17	86.39	94.44	50.80	69	12.70	£79.49	£65.84	
ZXXS62-18	18	91.42	99.55	50.80	74	12.70	£81.72	£67.66	
ZXXS62-19	19	96.44	104.66	60.33	79	12.70	£83.85	£69.45	
ZXXS62-20	20	101.47	109.75	63.50	84	12.70	£86.17	£71.42	
ZXXS62-21	21	106.51	114.85	63.50	89	12.70	£89.04	£73.74	
ZXXS62-23	23	116.58	125.03	63.50	99	12.70	£94.10	£77.93	
ZXXS62-25	25	126.66	135.19	69.85	109	12.70	£96.95	£80.23	
ZXXS62-27	27	136.74	145.35	69.85	119	12.70	£112.63	£93.22	
ZXXS62-30	30	151.87	160.56	79.38	134	15.88	£165.13	£136.86	
ZXXS62-33	33	167.00	175.78	79.38	150	15.88	£186.58	£154.52	
ZXXS62-35	35	177.09	185.91	88.90	160	15.88	£201.75	£167.11	
ZXXS62-36	36	182.14	190.97	88.90	164	15.88	£220.75	£182.84	
ZXXS62-38	38	192.23	201.10	88.90	175	19.05	£258.78	£214.40	
ZXXS62-39	39	197.28	206.16	88.90	180	19.05	£283.96	£235.30	
ZXXS62-40	40	202.33	211.23	88.90	185	19.05	£290.89	£240.94	
ZXXS62-42	42	212.43	221.36	88.90	195	19.05	£305.56	£242.40	
ZXXS62-44	44	222.52	231.49	88.90	205	19.05	£323.87	£267.83	
ZXXS62-48	48	242.72	251.72	88.90	225	25.40	£335.87	£278.26	

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**13.47**

Sprockets & Chains Plastic PITCH 5/8"

Triplex Chain Sprockets

Materials

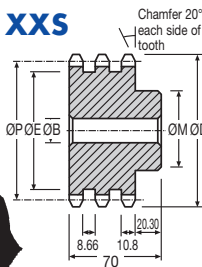
3/4" Pitch

STD : Mild Steel (En202)

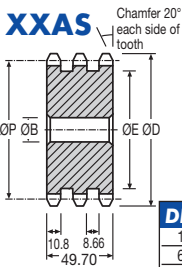
SPECIAL TEETH : between 8 - 60



XXS



XXAS



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Roller Ø 12.07

Chain No. 12B-3

HPC Part No. XXSUA-750

PITCH 3/4"

Sprockets & Chains Steel

PART NUMBER	TEETH	P.C.D.		Boss Ø	Int. Boss Ø	Bore Ø	PRICE EACH 1-5	
		ØP	ØD				XXS	XXAS
XXS75-8	8	49.78	57.41	25.40	29	12.70	£58.87	£48.24
XXS75-9	9	55.69	63.77	25.40	35	12.70	£65.57	£53.75
XXS75-10	10	61.65	70.07	25.40	41	12.70	£74.27	£60.81
XXS75-11	11	67.62	76.31	25.40	47	12.70	£77.98	£63.84
XXS75-12	12	73.60	82.52	25.40	53	12.70	£78.25	£64.17
XXS75-13	13	79.60	88.72	38.10	59	19.05	£82.50	£67.66
XXS75-14	14	85.61	94.91	38.10	65	19.05	£86.11	£70.52
XXS75-15	15	91.62	101.06	38.10	71	19.05	£87.98	£72.06
XXS75-16	16	97.65	107.19	38.10	77	19.05	£91.76	£75.18
XXS75-17	17	103.68	113.35	38.10	83	19.05	£104.99	£86.06
XXS75-18	18	109.71	119.46	50.80	89	19.05	£106.38	£87.16
XXS75-19	19	115.74	125.60	50.80	95	19.05	£109.14	£89.52
XXS75-20	20	121.78	131.71	50.80	101	19.05	£112.68	£92.40
XXS75-21	21	127.82	137.83	50.80	107	19.05	£115.65	£94.79
XXS75-23	23	139.90	150.02	50.80	119	19.05	£119.94	£98.32
XXS75-25	25	151.98	162.23	50.80	130	19.05	£126.18	£103.42
XXS75-27	27	164.09	174.42	50.80	142	19.05	£146.53	£120.07
XXS75-30	30	182.25	192.67	76.20	160	25.40	£213.71	£175.21
XXS75-33	33	200.41	210.92	76.20	178	25.40	£240.62	£197.30
XXS75-35	35	212.52	223.09	76.20	190	25.40	£260.21	£213.38
XXS75-36	36	218.57	229.17	76.20	196	25.40	£282.92	£231.94
XXS75-38	38	230.69	241.33	76.20	210	25.40	£331.75	£271.97
XXS75-39	39	236.74	247.40	76.20	216	25.40	£363.98	£298.49
XXS75-40	40	242.80	253.48	76.20	222	25.40	£372.89	£305.71
XXS75-42	42	254.92	265.63	76.20	234	25.40	£391.63	£321.11
XXS75-44	44	267.03	277.79	76.20	246	25.40	£415.33	£340.20
XXS75-48	48	291.27	302.08	76.20	270	25.40	£430.53	£353.01

13.48



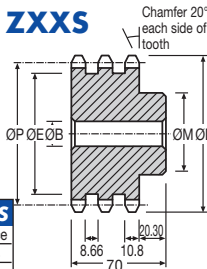
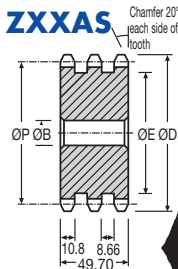
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Triplex Chain Sprockets

STD : White Delrin

SPECIAL TEETH : between 8 - 60

3/4" Pitch**ZXXS****ZXXAS****DISCOUNTS**

1 - 5	List Price
6 - 19	- 22%
20 - 39	- 44%
40 - 59	- 47%
60 - 99	- 50%
100 - 200	- 53%

Roller Ø 12.07

Chain No. 12B-3

HPC Part No. XXSUA-750

PART NUMBER	TEETH	P.C.D. ØP	ØD	Boss Ø ØM	Int. Boss Ø OE	Bore Ø ØB	PRICE EACH 1-5	ZXXS	ZXXAS
ZXXS75-8	8	49.78	57.41	25.40	29	12.70	£44.45	£37.73	
ZXXS75-9	9	55.69	63.77	25.40	35	12.70	£49.49	£41.97	
ZXXS75-10	10	61.65	70.07	25.40	41	12.70	£56.11	£47.64	
ZXXS75-11	11	67.62	76.31	25.40	47	12.70	£58.88	£50.00	
ZXXS75-12	12	73.60	82.52	25.40	53	12.70	£59.12	£50.23	
ZXXS75-13	13	79.60	88.72	38.10	59	19.05	£71.17	£60.50	
ZXXS75-14	14	85.61	94.91	38.10	65	19.05	£74.27	£63.13	
ZXXS75-15	15	91.62	101.06	38.10	71	19.05	£76.01	£64.54	
ZXXS75-16	16	97.65	107.19	38.10	77	19.05	£89.12	£75.77	
ZXXS75-17	17	103.68	113.35	38.10	83	19.05	£113.36	£96.29	
ZXXS75-18	18	109.71	119.46	50.80	89	19.05	£114.86	£97.69	
ZXXS75-19	19	115.74	125.60	50.80	95	19.05	£117.86	£100.14	
ZXXS75-20	20	121.78	131.71	50.80	101	19.05	£121.60	£103.34	
ZXXS75-21	21	127.82	137.83	50.80	107	19.05	£124.87	£106.10	
ZXXS75-23	23	139.90	150.02	50.80	119	19.05	£142.45	£113.96	
ZXXS75-25	25	151.98	162.23	50.80	130	19.05	£149.86	£119.81	
ZXXS75-27	27	164.09	174.42	50.80	142	19.05	£189.94	£151.88	
ZXXS75-30	30	182.25	192.67	76.20	160	25.40	£276.89	£221.56	
ZXXS75-33	33	200.41	210.92	76.20	178	25.40	£311.84	£249.48	
ZXXS75-35	35	212.52	223.09	76.20	190	25.40	£348.41	£278.75	
ZXXS75-36	36	218.57	229.17	76.20	196	25.40	£378.92	£303.09	
ZXXS75-38	38	230.69	241.33	76.20	210	25.40	£451.51	£361.14	
ZXXS75-39	39	236.74	247.40	76.20	216	25.40	£495.41	£396.31	
ZXXS75-40	40	242.80	253.48	76.20	222	25.40	£515.39	£412.20	
ZXXS75-42	42	254.92	265.63	76.20	234	25.40	£549.92	£439.94	
ZXXS75-44	44	267.03	277.79	76.20	246	25.40	£582.42	£465.90	
ZXXS75-48	48	291.27	302.08	76.20	270	25.40	£604.42	£483.55	

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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**13.49**

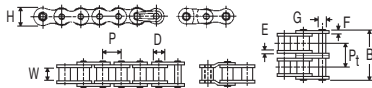
Sprockets & Chains Plastic PITCH 3/4"

Materials

Duplex Sprocket Chains

STD : Steel

No. of Strands : 2 **8mm, 3/8" 1/2" 5/8" 3/4" Pitch**



PITCH 8mm - 3/4"

PART NUMBER	ISO/DIN BS No.	Width between inner plates W (min)	Roller Dia. D (max)	Pin Dia. G	Plate Height H (max)	Inner Plate Width E	Outer Plate Width F	Width Over Joint Fastener B (max)	Av. Weight per metre (Kgs)	Min. Breaking load (Newtons)	P _t	PRICE 1 - 5 per 300mm	PRICE 1 - 5 con link
8mm Pitch													
XSBR-8	05B-2	3.00	5.00	2.31	7.10	0.73	0.73	16.4	0.33	9000	5.6	£11.86	£4.21
3/8" Pitch													
XSBR-375	06B-2	5.72	6.35	3.28	8.26	1.30	1.04	23.8	0.74	17250	10.24	£14.33	£3.22
1/2" Pitch													
XSBR-500	08B-2	7.62	8.51	4.45	11.81	1.55	1.55	31.0	1.36	32700	13.92	£16.53	£3.96
5/8" Pitch													
XSBR-625	10B-2	9.65	10.16	5.08	14.70	1.55	1.55	35.4	1.80	44500	16.59	£18.69	£4.51
3/4" Pitch													
XSUA-750	12B-2	11.68	12.07	5.72	16.13	1.80	1.80	42.2	2.26	59000	19.46	£23.12	£6.32

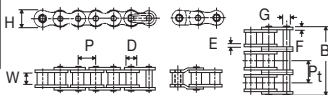
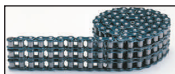
Sprockets & Chains Steel

Materials

Triplex Sprocket Chains

STD : Steel

No. of Strands : 3 **3/8" 1/2" 5/8" 3/4" Pitch**



Discounts for Duplex and Triplex

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 8%
40 - 59	- 12%
60 - 99	- 16%
100 - 200	- 20%

PART NUMBER	ISO/DI N BS No.	Width between inner plates W (min)	Roller Dia. D (max)	Pin Dia. G	Plate Height H (max)	Inner Plate Width E	Outer Plate Width F	Width Over Joint Fastener B (max)	Av. Weight per metre (Kgs)	Min. Breaking load (Newtons)	P _t	PRICE 1 - 5 per 300mm	PRICE 1 - 5 con link
3/8" Pitch													
XXSBR-375	06B-3	5.72	6.35	3.28	8.26	1.30	1.04	34.0	1.17	25400	10.24	£22.05	£4.53
1/2" Pitch													
XXSBR-500	08B-3	7.62	8.51	4.45	11.81	1.55	1.55	44.9	2.04	48500	13.92	£24.21	£6.34
5/8" Pitch													
XXSBR-625	10B-3	9.65	10.16	5.08	14.70	1.55	1.55	52.8	2.54	66700	16.59	£34.73	£7.32
3/4" Pitch													
XXSUA-750	12B-3	11.68	12.07	5.72	16.13	1.80	1.80	61.7	3.42	88500	19.46	£39.15	£8.81

13.50



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Bevel Gears

Pages 14.2 – 14.29

TECHNICAL

Pages 27.54 – 27.59



For non-standard Bevel Gears use form on page 14.25 or send a drawing or sample for a free, no-obligation quote.

Angular Bevels

Materials

45°, 60°, 120°

STD : Steel S45C



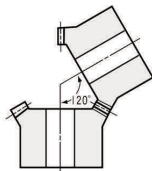
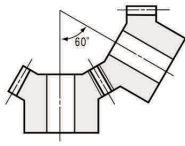
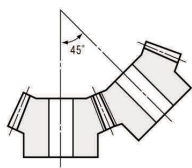
Shaft angle 45°



Shaft angle 60°



Shaft angle 120°



Angular Bevels

PART NUMBER	Gear Ratio	Mod	No of Teeth	Shaft Angle	Shape	Bore AH7	Hub dia. B	Pitch dia. C	Out. dia. D	Mount. Dist. E	Total Length F	Crown to Back Length G
HPCSAM1.5-245	1	m1.5	20	45°	B45	8	25	30	32.77	45	19.33	9.36
HPCSAM2-245		m2	20	45°	B45	10	30	40	43.69	60	26.08	12.48
HPCSAM2.5-245		m2.5	20	45°	B45	12	40	50	54.62	75	31.92	15.60
HPCSAM3-245		m3	20	45°	B45	14	50	60	65.54	90	38.66	18.72
HPCSAM1.5-260	1	m1.5	20	60°	B60	8	25	30	32.59	40	22.30	14.77
HPCSAM2-260		m2	20	60°	B60	12	32	40	43.46	50	26.39	16.36
HPCSAM2.5-260		m2.5	20	60°	B60	14	40	50	54.33	60	30.49	17.94
HPCSAM3-260		m3	20	60°	B60	16	50	60	65.19	70	34.59	19.54
HPCSAM1.5-2120	1	m1.5	20	120°	B120	8	26	30	31.50	26	20.69	18.64
HPCSAM2-2120		m2	20	120°	B120	12	34	40	42.00	34	26.86	24.18
HPCSAM2.5-2120		m2.5	20	120°	B120	14	42	50	52.50	42	33.22	29.73
HPCSAM3-2120		m3	20	120°	B120	16	50	60	63.00	50	39.39	35.28

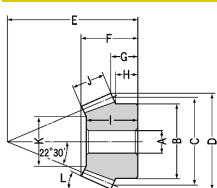
Angular Miter Gears: The shafts of standard Miter Gears are at 90°, Miter Gears with other angles are called Angular Miter Gears. HPCSAM series standard Angular Gears are available with 45°, 60° and 120° shaft angles. **Other shaft angles may be ordered as custom gears.**

Materials

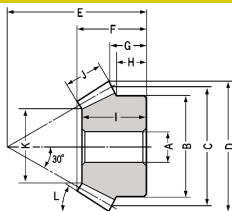
STD : Steel S45C

Angular Bevels

45°, 60°, 120°



Shaft angle 45°

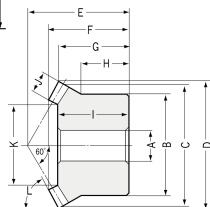


Shaft angle 60°

DISCOUNTS

1 - 5	List Price
6 - 19	- 7%
20 - 39	- 14%
40 - 59	- 20%
60 - 99	- 24%
100 - 200	- 27%

Specifications	
Precision grade	JIS B 1704 grade 3
Gear teeth	Gleason
Pressure angle	20°
material	S45C
Heat treatment	-
Tooth hardness	Less than 194HB



Shaft angle 120°

Hub Width H	Length of Bore I	Face Width J	Holding Surface dia. K	Allowable Torque (N.m)		Allowable Torque (kgf.m)		Backlash (mm) C	Weight (kg)	PRICE EACH 1-5
				§	†	§	†			
7.75	18	11	17	4.30	0.38	0.44	0.039	0.05~0.15	0.07	£46.62
9.65	24	15	20.92	10.30	0.95	1.05	0.097	0.06~0.16	0.15	£55.95
12.58	30	18	30.07	19.60	1.85	2.00	0.19	0.07~0.17	0.31	£87.25
12.51	36	22	34	34.40	3.30	3.51	0.34	0.08~0.18	0.55	£108.27
12.58	21	9	18.18	3.54	0.32	0.36	0.033	0.05~0.15	0.08	£46.62
13.05	24	12	21.93	8.39	0.78	0.86	0.080	0.06~0.16	0.15	£55.95
13.82	28	15	29.15	16.40	1.56	1.67	0.16	0.07~0.17	0.27	£87.25
15.16	32	18	36.36	28.30	2.74	2.89	0.28	0.08~0.18	0.47	£108.27
13.88	18	5	19.22	2.43	0.29	0.25	0.030	0.05~0.15	0.07	£46.62
17.26	24	6.5	26.78	5.66	0.70	0.58	0.072	0.06~0.16	0.16	£55.95
20.64	29	8.5	32.03	11.40	1.45	1.16	0.15	0.07~0.17	0.31	£87.25
24.02	35	10	39.59	19.40	2.53	1.98	0.26	0.08~0.18	0.53	£108.27

†: Surface Durability

§: Bending Strength

Angular Bevels

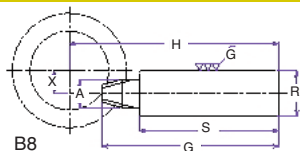


Hypoid Bevel Gears

1 - 1.5 MOD

Materials

STD : SCM415



Datum ref. surface for teeth cutting

Bore H7 (Pinion:Shaft h7 ground as reference)

Caution: gears are machinable except tooth area due to masking during carburization.

Precision grade

JIS B 1704 grade 3

Gear teeth

Gleason

Pressure Angle

20°

Material

SCM415

Heat Treatment

Gear tooth carburized (*1)

Core

Hardness

HB300-400

Surface

Hardness

HRC60-63

Surface

Treatment

-

Surface

Finish

Cut

MOD 1-1.5

Hypoid Bevel Gears

PART NUMBER	MOD	Actual MOD	No of Teeth	C	R	D	A	H	G	F	E
MHP1-0453R	1	1.067	45	12		30	48	19	16.3	7	14
MHP1-3045L	1	1.067	3		22.1		10.3	127	113		
MHP1.5-0453R	1.5	1.733	45	14		40	78	28	23.7	10	20
MHP1.5-3045L	1.5	1.733	3		31.1		17.6	170	148		
MHP1-0603R	1	1.05	60	12		34	63	21	18.1	8	16
MHP1-3060L	1	1.05	3		26.1		11.7	142	125		
MHP1.5-0603R	1.5	1.633	60	20		50	98	33	28.7	13	25
MHP1.5-3060L	1.5	1.633	3		36.1		15.7	199	168		
MHP1-0602R	1	1.05	60	12		34	63	21	17.8	8	16
MHP1-2060L	1	1.05	2		22.1		12.8	134	120		
MHP1.5-0602R	1.5	1.633	60	20		50	98	33	28.2	13	25
MHP1.5-2060L	1.5	1.633	2		31.1		17.7	175	149		
MHP1-0451R	1	1.067	45	12		30	48	19	16.5	7	14
MHP1-1045L	1	1.067	1		20.1		10.1	115	104		
MHP1.5-0451R	1.5	1.733	45	14		40	78	28	23.9	10	20
MHP1.5-1045L	1.5	1.733	1		26.1		18.3	152	138		
MHP1-0601R	1	1.05	60	12		34	63	21	17.9	8	16
MHP1-1060L	1	1.05	1		22.1		12.9	134	122		
MHP1.5-0601R	1.5	1.633	60	20		50	98	33	28.2	13	25
MHP1.5-1060L	1.5	1.633	1		31.1		17.7	175	151		
MHP1-0901R	1	1.089	90	20		50	98	33	28.8	13	25
MHP1-1090L	1	1.089	1		31.1		15.7	170	149		
MHP1-1201R	1	0.817	120	20		50	98	33	29.3	13	25
MHP1-1120L	1	0.817	1		31.1		13.4	170	149		
MHP1-1801R	1	1	180	25		70	180	47	40.1	18	35
MHP1-1180L	1	1	1		42.1		22.4	242	200		
MHP1-2001R	1	1	200	25		70	200	47	40.6	18	35
MHP1-1200L	1	1	1		42.1		21.5	252	205		

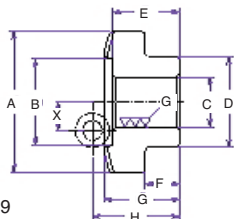


Materials

STD : SCM415

Hypoid Bevel Gears

1 - 1.5 MOD



B9



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

J	B	S	X Shape	Allowable Torque		Backlash		Weight Kg	Ratio	Price Each (15)
				(kgf.m)	(N.m)	Low	Up			
6	35.1	10	B9	1.05	10.3	0.05	0.15	0.15	15:1	£92.11
6		94	10 B8	1.05	10.3	0.05	0.15	0.29	15:1	£89.79
10	56.5	18	B9	4.2	41.19	0.1	0.2	0.5	15:1	£170.46
10		116	18 B8	4.2	41.19	0.1	0.2	0.73	15:1	£166.97
8	46.4	15	B9	2.38	23.34	0.05	0.15	0.29	20:1	£140.51
8		102	15 B8	2.38	23.34	0.05	0.15	0.45	20:1	£138.18
10	76.8	22	B9	8.4	82.38	0.1	0.2	0.94	20:1	£241.87
10		135	22 B8	8.4	82.38	0.1	0.2	1.15	20:1	£217.65
8	46.4	18	B9	2.46	24.12	0.05	0.15	0.29	30:1	£135.88
8		94	18 B8	2.46	24.12	0.05	0.15	0.28	30:1	£132.43
10	76.7	28	B9	8.9	87.28	0.1	0.2	0.94	30:1	£236.12
10		116	28 B8	8.9	87.28	0.1	0.2	0.77	30:1	£206.14
6	34.9	14	B9	1.15	11.28	0.05	0.15	0.16	45:1	£81.76
6		85	14 B8	1.15	11.28	0.05	0.15	0.22	45:1	£82.89
10	56	25	B9	4.75	46.58	0.1	0.2	0.5	45:1	£125.49
10		102	25 B8	4.75	46.58	0.1	0.2	0.48	45:1	£116.29
8	46.3	20	B9	2.58	25.3	0.05	0.15	0.29	60:1	£105.92
8		94	20 B8	2.58	25.3	0.05	0.15	0.28	60:1	£102.48
10	76.8	30	B9	9.58	93.95	0.1	0.2	0.94	60:1	£158.93
10		116	30 B8	9.58	93.95	0.1	0.2	0.77	60:1	£138.18
10	76.2	32	B9	7.28	71.39	0.05	0.15	0.94	90:1	£234.97
10		116	32 B8	7.28	71.39	0.05	0.15	0.76	90:1	£217.65
10	76.4	32	B9	5.28	51.78	0.03	0.1	0.94	120:1	£229.18
10		116	32 B8	5.28	51.78	0.03	0.1	0.75	120:1	£204.99
15	148.2	60	B9	26.5	259.88	0.05	0.15	3.99	180:1	£833.98
15		154	60 B8	26.5	259.88	0.05	0.15	1.88	180:1	£395.08
18	162.4	65	B9	34	333.43	0.05	0.15	4.76	200:1	£1044.79
18		154	65 B8	34	333.43	0.05	0.15	1.88	200:1	£419.27

Hypoid Bevel Gears MOD 1.15

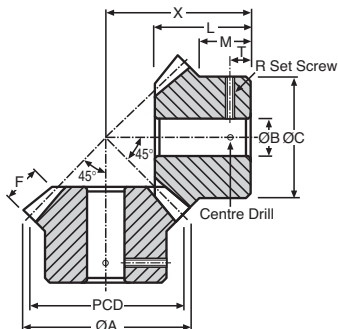


Bevel Gears 1:1

Materials

0.8 - 2.5 MOD

STD : Steel 080M40 (En8)
Straight Cut - Gleason System



20° Pressure Angle

MOD 0.8-2.5

Bevel Gears Steel

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

TORQUE CHECK	20 teeth x 1000 rpm					
	2.5 MOD	2 MOD	1.5 MOD	1.25 MOD	1 MOD	0.8 MOD
TORQUE Nm.	4.30	2.20	0.94	0.71	0.57	0.14
K.W.	0.455	0.231	0.097	0.08	0.03	0.015

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA.
B2.5-16	16		40.00	50	43.50	15	35	36.80	27.50	8.00	M5	15.00	£24.81
B2.5-20	20	2.5	50.00	50	53.53	15	40	33.50	20.00	10.60	M5	12.00	£30.91
B2.5-25	25		62.50	50	66.00	15	55	30.50	15.00	15.00	M5	8.00	£33.24
B2-20	20		40.00	42	43.00	12	34	29.00	19.00	8.50	M5	10.00	£24.24
B2-25	25	2	50.00	42	52.83	12	40	25.52	12.00	10.60	M5	7.00	£27.08
B2-30	30		60.00	42	63.00	12	50	21.87	7.00	12.70	M5	4.00	£30.43
B1.5-20	20		30.00	35	32.12	10	26	25.17	18.00	6.35	M4	10.00	£26.95
B1.5-25	25	1.5	37.50	35	39.62	10	32	22.57	13.50	8.00	M4	7.00	£31.33
B1.5-30	30		45.00	35	47.12	10	38	19.92	9.00	9.50	M4	5.00	£33.18
B1.25-20	20		25.00	23	26.70	8	22	15.27	9.00	6.00	M4	3.50	£26.12
B1.25-25	25	1.25	31.25	28	33.00	8	25	17.87	9.20	7.00	M4	3.50	£29.46
B1.25-30	30		37.50	36	39.30	10	30	23.47	13.50	8.00	M4	5.00	£29.59
B1-20	20		20.00	25	21.41	8	18	18.45	14.00	4.24	M4	8.00	£24.87
B1-25	25	1	25.00	25	26.41	8	22	16.68	10.80	5.28	M4	6.00	£26.55
B1-30	30		30.00	25	31.41	8	26	14.95	8.00	6.35	M4	5.00	£28.25
B0.8-16	16		12.80	20	13.93	6	10	16.00	12.21	3.00	M3	7.00	£20.77
B0.8-20	20	0.8	16.00	20	17.13	6	13	14.76	10.51	3.40	M3	6.00	£21.75
B0.8-25	25		20.00	20	21.13	6	16	13.35	8.00	4.24	M3	5.00	£22.57
B0.8-30	30		24.00	20	25.13	6	20	11.96	6.00	5.09	M3	4.00	£24.41

14.6



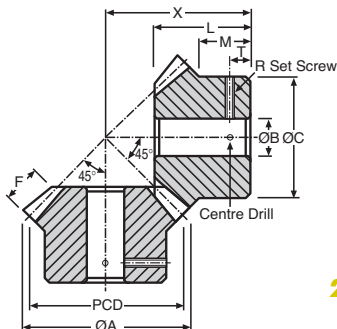
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : White Delrin
Straight Cut - Gleason System

Bevel Gears 1:1

0.8 - 2.5 MOD



20° Pressure Angle

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

TORQUE CHECK	20 teeth x 1000 rpm					
	2.5 MOD	2 MOD	1.5 MOD	1.25 MOD	1 MOD	0.8 MOD
TORQUE Nm.	0.91	0.46	0.20	0.15	0.12	0.03
K.W.	0.09	0.05	0.02	0.016	0.013	0.003

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA.
ZB2.5-16	16		40.00	50	43.50	15	35	36.80	27.50	8.00	M5	15.00	£15.12
ZB2.5-20	20	2.5	50.00	50	54.00	15	40	33.50	20.00	10.60	M5	12.00	£18.90
ZB2.5-25	25		62.50	50	66.00	15	55	30.50	15.00	15.00	M5	8.00	£21.52
ZB2-20	20		40.00	42	43.00	12	34	29.00	19.00	8.50	M5	10.00	£14.78
ZB2-25	25	2	50.00	42	52.83	12	40	25.52	12.00	10.60	M5	7.00	£16.53
ZB2-30	30		60.00	42	63.00	12	50	21.87	7.00	12.70	M5	4.00	£18.55
ZB1.5-20	20		30.00	35	32.12	10	26	25.17	18.00	6.35	M4	10.00	£16.46
ZB1.5-25	25	1.5	37.50	35	39.62	10	32	22.57	13.50	8.00	M4	7.00	£19.14
ZB1.5-30	30		45.00	35	47.12	10	38	19.92	9.00	9.50	M4	5.00	£20.24
ZB1.25-20	20		25.00	23	26.70	8	22	15.27	9.00	6.00	M4	3.50	£15.42
ZB1.25-25	25	1.25	31.25	28	33.00	8	25	17.87	9.20	7.00	M4	3.50	£18.53
ZB1.25-30	30		37.50	36	39.30	10	30	23.47	13.50	8.00	M4	5.00	£19.76
ZB1-20	20		20.00	25	21.41	8	18	18.45	14.00	4.24	M4	8.00	£15.17
ZB1-25	25	1	25.00	25	26.41	8	22	16.68	10.80	5.28	M4	6.00	£16.16
ZB1-30	30		30.00	25	31.41	8	26	14.95	8.00	6.35	M4	5.00	£17.26
ZB0.8-16	16		12.80	20	13.93	6	10	16.00	12.21	3.00	M3	7.00	£12.69
ZB0.8-20	20	0.8	16.00	20	17.13	6	13	14.76	10.51	3.40	M3	6.00	£13.25
ZB0.8-25	25		20.00	20	21.13	6	16	13.36	8.00	4.24	M3	5.00	£17.43
ZB0.8-30	30		24.00	20	25.13	6	20	11.96	6.00	5.09	M3	4.00	£17.72

Bevel Gears Plastic MOD 0.8-2.5



Bevel Gears 1:1

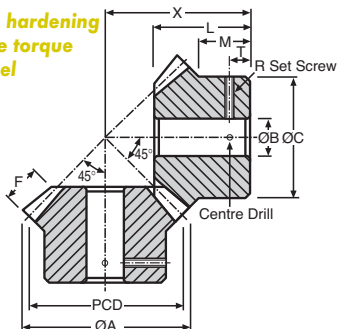
Materials

3 - 6 MOD

STD : Steel 080M40 (En8)
Straight Cut - Gleason System



N.B. Induction hardening will double the torque figures for steel



20° Pressure Angle

Other numbers of teeth available

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

TORQUE CHECK	20 teeth x 1000 rpm			
	3 MOD	4 MOD	5 MOD	6 MOD
TORQUE Nm.	6.00	8.83	16.00	25.00
K.W.	0.63	0.93	1.70	2.60

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA.
													1-5
B3-16	16		48.00	44.00	52.24	15	40.00	29.08	16.00	11	M5	8	£41.71
B3-19	19	3	57.00	49.00	61.24	16	50.00	31.01	17.02	13	M5	9	£52.89
B3-26	26		78.00	65.00	82.24	18	64.00	40.03	19.03	18	M6	10	£71.02
B3-30	30		90.00	68.50	94.24	20	76.00	39.65	16.51	21	M6	8	£76.82
B4-16	16		64.00	55.50	69.66	15	50.00	35.81	16.49	15	M5	8	£59.74
B4-19	19	4	76.00	65.00	81.66	18	62.50	41.43	20.24	18	M6	10	£74.43
B4-26	26		104.00	82.00	109.66	22	85.00	48.69	20.50	24	M6	10	£84.24
B4-30	30		120.00	90.00	125.66	25	102.00	51.51	21.00	28	M8	11	£91.93
B5-16	16		80.00	70.00	87.10	18	60.00	46.13	20.00	20	M8	11	£96.74
B5-20	20	5	100.00	80.00	107.10	20	80.00	49.04	21.50	24	M8	12	£102.84
B5-25	25		125.00	100.00	132.10	25	80.00	59.47	24.00	28	M10	14	£109.18
B5-30	30		150.00	114.00	157.10	30	100.00	65.87	26.00	35	M10	15	£114.52
B6-16	16		96.00	80.00	104.52	25	75.00	50.10	22.00	22	M10	12	£118.93
B6-20	20	6	120.00	90.00	128.52	30	96.00	52.32	18.50	28	M10	12	£124.27
B6-25	25		150.00	115.00	158.52	35	100.00	67.29	24.00	35	M10	14	£129.84
B6-30	30		180.00	130.00	188.52	35	120.00	72.24	28.00	42	M10	16	£137.96

Bevel Gears steel MOD 3-6

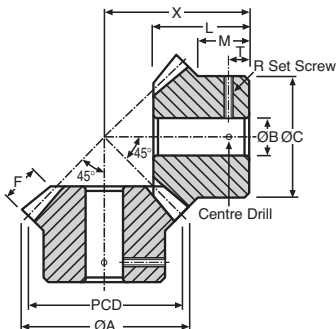


Materials

STD : White Delrin
Straight Cut - Gleason System

Bevel Gears 1:1

3 - 6 MOD



20° Pressure Angle

Other numbers of teeth available

DISCOUNTS

1 - 5	List Price
6 - 29	- 5%
30 - 99	- 10%
100 - 399	- 15%
400 - 999	- 20%
1000 - 5000	- 25%

TORQUE CHECK	20 teeth x 1000 rpm			
	3 MOD	4 MOD	5 MOD	6 MOD
TORQUE Nm.	1.93	2.84	5.00	8.00
K.W.	0.20	0.30	0.54	0.85

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
ZB3-16	16	3	48.00	44.00	52.24	15	40.00	29.08	16.00	11	M5	8	£41.22
ZB3-19	19		57.00	49.00	61.24	16	50.00	31.01	17.02	13	M5	9	£52.77
ZB3-26	26		78.00	65.00	82.24	18	64.00	40.03	19.03	18	M6	10	£70.04
ZB3-30	30	90.00	68.50	94.24	20	76.00	39.65	16.51	21	M6	8	£75.80	
ZB4-16	16	4	64.00	55.50	69.66	15	50.00	35.81	16.49	15	M5	8	£55.79
ZB4-19	19		76.00	65.00	81.66	18	62.50	41.43	20.24	18	M6	10	£74.27
ZB4-26	26		104.00	82.00	109.66	22	85.00	48.69	20.50	24	M6	10	£84.09
ZB4-30	30	120.00	90.00	125.66	25	102.00	51.51	21.00	28	M8	11	£91.67	
ZB5-16	16	5	80.00	70.00	87.10	18	60.00	46.13	20.00	20	M8	11	£96.74
ZB5-20	20		100.00	80.00	107.10	20	80.00	49.04	21.50	24	M8	12	£102.84
ZB5-25	25		125.00	100.00	132.10	25	80.00	59.47	24.00	28	M10	14	£109.18
ZB5-30	30	150.00	114.00	157.10	30	100.00	65.87	26.00	35	M10	15	£114.52	
ZB6-16	16	6	96.00	80.00	104.52	25	75.00	50.10	22.00	22	M10	12	£118.93
ZB6-20	20		120.00	90.00	128.52	30	96.00	52.32	18.50	28	M10	12	£124.27
ZB6-25	25		150.00	115.00	158.52	35	100.00	67.29	24.00	35	M10	14	£129.84
ZB6-30	30		180.00	130.00	188.52	35	120.00	72.24	28.00	42	M10	16	£137.96

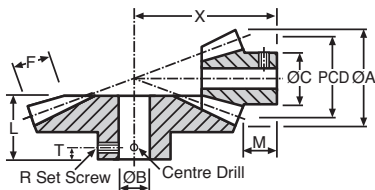


Bevel Gears 2:1

Materials

0.8 - 6.0 MOD

STD : Steel 080M40 (En8)
Straight Cut - Gleason System



20° Pressure Angle

NOTE: Plastic and other materials available.
Please contact our sales dept. for information.

DISCOUNTS

	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

TORQUE CHECK	20 teeth x 1000 rpm								
	6 MOD	5 MOD	4 MOD	3 MOD	2.5 MOD	2 MOD	1.5 MOD	1 MOD	0.8 MOD
TORQUE Nm.	51.00	32.00	16.40	7.70	4.30	2.20	0.94	0.57	0.14
K.W.	5.35	3.35	1.72	0.81	0.455	0.231	0.097	0.03	0.015

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
DB6-30	30	6	180.00	86.00	183.48	35	120	58.15	24.00	34.00	M10	15.00	£148.60
DB6-15	15		90.00	115.00	104.51	25	75	57.52	21.00	34.00	M10	15.00	£122.30
DB5-30	30	5	150.00	75.00	152.90	30	100	51.66	22.00	28.00	M10	15.00	£128.12
DB5-15	15		75.00	100.00	87.09	20	60	51.81	21.26	28.00	M8	15.00	£88.53
DB4-30	30	4	120.00	67.00	122.32	25	70	48.16	25.00	22.00	M8	15.00	£91.91
DB4-15	15		60.00	85.00	69.67	20	48	46.11	22.00	22.00	M6	15.00	£60.64
DB3-30	30	3	90.00	50.00	91.74	20	55	36.08	18.00	17.00	M6	12.00	£78.29
DB3-15	15		45.00	65.00	52.25	18	36	36.26	18.00	17.00	M6	12.00	£42.50
DB2.5-15	15	2.5	37.50	54.00	43.54	15	32	29.51	15.12	13.53	M5	8.00	£31.49
DB2.5-30	30		75.00	41.50	76.45	15	50	29.64	13.31	13.53	M5	7.00	£39.75
DB2-15	15	2	30.00	45.00	34.83	12	28	24.76	14.50	10.06	M5	7.50	£23.04
DB2-30	30		60.00	35.00	61.16	12	40	25.21	14.00	10.06	M5	8.00	£31.95
DB1.5-15	15	1.5	22.50	35.00	26.12	10	21	19.84	12.13	7.55	M4	5.00	£27.05
DB1.5-30	30		45.00	27.00	45.87	10	30	19.66	11.00	7.55	M4	5.00	£34.66
DB1-15	15	1	15.00	24.00	17.42	8	14	13.87	8.76	5.03	M4	4.00	£24.78
DB1-30	30		30.00	18.00	30.58	10	25	13.11	7.00	5.03	M4	4.00	£30.51
DB0.8-15	15	0.8	12.00	20.00	13.93	6	10	11.90	7.50	4.02	M3	3.50	£21.85
DB0.8-30	30		24.00	14.00	24.64	8	20	10.08	5.50	4.02	M3	3.50	£25.77

14.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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MOD 0.8-6.0

Bevel Gears Steel

Materials

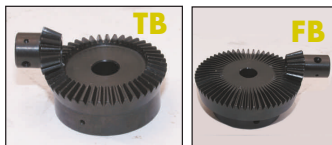
Bevel Gears 3:1 4:1

STD : Steel 080M40 (En8)
Straight Cut - Gleason System

0.8 - 6.0 MOD

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%



20° Pressure Angle

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA.
													1-5
TB6-45	45	6	270.00	95.00	272.22	40	140	66.17	28.00	45.00	M10	15.00	£284.36
TB6-15	15		90.00	160.00	106.11	25	72	69.31	22.00	45.00	M10	15.00	£121.54
TB5-45	45	5	225.00	86.00	226.85	35	120	62.68	28.00	40.00	M10	15.00	£236.73
TB5-15	15		75.00	138.00	88.42	20	60	64.75	23.00	40.00	M8	15.00	£96.95
TB4-45	45	4	180.00	75.00	181.48	30	85	55.77	30.00	30.00	M8	15.00	£195.78
TB4-15	15		60.00	115.00	70.74	20	48	54.55	23.00	30.00	M8	15.00	£63.91
TB3-45	45	3	135.00	58.00	136.11	23	65	43.45	24.00	22.00	M6	12.00	£158.72
TB3-15	15		45.00	88.00	53.05	18	36	42.20	19.00	22.00	M6	12.00	£57.22
TB2.5-45	45	2.5	112.50	50.00	113.43	20	55	37.77	22.00	18.00	M6	12.00	£132.64
TB2.5-15	15		37.50	75.00	44.21	18	30	36.52	18.00	18.00	M6	12.00	£41.62
TB2-45	45	2	90.00	42.00	90.74	18	48	32.39	18.00	15.00	M5	10.00	£106.75
TB2-15	15		30.00	62.00	35.37	12	24	31.77	16.00	15.00	M5	10.00	£32.15
TB1.5-15	15	1.5	22.50	45.00	26.51	10	18	21.80	10.51	10.67	M4	5.00	£21.58
TB1.5-45	45		67.50	32.00	68.06	15	50	24.63	12.00	10.67	M4	6.00	£35.44
TB1-15	15	1	15.00	32.00	17.67	8	13	16.54	9.18	7.12	M4	4.50	£21.05
TB1-45	45		45.00	24.00	45.37	10	40	19.09	10.00	7.12	M4	5.00	£31.23
TB0.8-15	15	0.8	12.00	28.00	14.14	6	10	15.63	9.67	5.69	M3	5.00	£19.38
TB0.8-45	45		36.00	20.00	36.30	8	28	16.07	8.00	5.69	M3	4.00	£29.21
FB6-60	60	6	360.00	96.00	361.64	40	180	64.16	28.00	45.00	M10	15.00	£328.72
FB6-15	15		90.00	205.00	106.70	25	75	70.12	23.00	45.00	M10	15.00	£125.92
FB5-60	60	5	300.00	90.00	301.37	35	160	64.00	28.00	40.00	M10	15.00	£273.03
FB5-15	15		75.00	175.00	88.92	20	60	64.98	23.00	40.00	M8	15.00	£102.46
FB4-60	60	4	240.00	82.00	241.10	30	120	61.61	35.00	34.00	M8	15.00	£242.75
FB4-15	15		60.00	146.00	71.14	20	48	59.90	25.00	34.00	M8	15.00	£77.98
FB3-60	60	3	180.00	65.00	180.82	25	90	49.83	27.00	26.00	M6	12.00	£217.72
FB3-15	15		45.00	112.00	53.55	18	36	47.90	21.00	26.00	M6	12.00	£73.82
FB2.5-60	60	2.5	150.00	55.00	150.69	20	75	42.20	23.00	21.00	M6	12.00	£157.34
FB2.5-15	15		37.50	94.00	44.46	15	30	39.95	17.00	21.00	M6	12.00	£49.65
FB2-60	60	2	120.00	45.00	120.55	18	60	34.81	19.00	17.00	M5	10.00	£128.49
FB2-15	15		30.00	76.10	35.57	12	24	33.05	15.50	17.00	M5	10.00	£42.21
FB1.5-15	15	1.5	22.50	60.00	26.69	10	18	28.82	14.44	13.91	M4	6.00	£24.11
FB1.5-60	60		90.00	35.00	90.41	15	50	27.61	12.00	13.91	M4	6.00	£37.41
FB1-15	15	1	15.00	45.00	17.79	8	13	24.22	14.73	9.28	M4	7.00	£23.11
FB1-60	60		60.00	30.00	60.27	10	40	25.08	12.00	9.28	M4	6.00	£33.54
FB0.8-15	15	0.8	12.00	35.00	14.23	6	10	18.07	10.58	7.10	M3	5.00	£20.67
FB0.8-60	60		48.00	20.00	48.22	8	30	15.98	8.00	7.10	M3	4.00	£31.41

Bevel Gears Steel

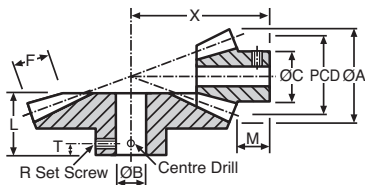
MOD 0.8-6.0



Bevel Gears 2:1 3:1 4:1 Materials

0.8 - 2.5 MOD

STD : White Delrin
Straight Cut - Gleason System



20° Pressure Angle

MOD 0.8 - 2.5

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 29	- 5%
30 - 99	- 10%
100 - 399	- 15%
400 - 999	- 20%
1000 - 5000	- 25%

TORQUE CHECK	20 teeth x 1000 rpm				
	2.5 MOD	2 MOD	1.5 MOD	1 MOD	0.8 MOD
TORQUE Nm.	0.91	0.46	0.20	0.12	0.03
K.W.	0.09	0.05	0.02	0.013	0.003

Bevel Gears Plastic

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA.
													1-5
ZDB2.5-15	15	2.5	37.50	54.00	43.54	15	32	29.51	16.51	13.53	M5	8.00	£18.94
ZDB2.5-30	30		75.00	41.50	76.45	15	50	29.31	13.31	13.53	M5	7.00	£23.92
ZDB2-15	15	2	30.00	45.00	34.83	12	28	24.76	14.86	10.06	M5	7.50	£13.82
ZDB2-30	30		60.00	35.00	61.16	12	40	25.21	14.00	10.06	M5	8.00	£19.26
ZDB1.5-15	15	1.5	22.50	35.00	26.12	10	21	19.84	12.13	7.55	M4	5.00	£16.22
ZDB1.5-30	30		45.00	27.00	45.87	10	30	19.66	11.00	7.55	M4	5.00	£20.77
ZDB1-15	15	1	15.00	24.00	17.42	8	14	13.87	8.76	5.03	M4	4.00	£14.94
ZDB1-30	30		30.00	18.00	30.58	10	25	13.11	7.00	5.03	M4	4.00	£18.36
ZDB0.8-15	15	0.8	12.00	20.00	13.93	6	10	11.90	7.50	4.02	M3	3.50	£13.12
ZDB0.8-30	30		24.00	14.00	24.64	8	20	10.08	5.50	4.02	M3	3.50	£15.51
ZTB1.5-15	15	1.5	22.50	45.00	26.51	10	18	21.80	10.51	10.67	M4	5.00	£12.99
ZTB1.5-45	45		67.50	32.00	68.06	15	50	24.63	12.00	10.67	M4	6.00	£21.35
ZTB1-15	15	1	15.00	32.00	17.67	8	13	16.54	9.18	7.12	M4	4.50	£12.66
ZTB1-45	45		45.00	24.00	45.37	10	40	19.09	10.00	7.12	M4	5.00	£18.80
ZTB0.8-15	15	0.8	12.00	28.00	14.14	6	10	15.63	9.67	5.69	M3	5.00	£11.62
ZTB0.8-45	45		36.00	20.00	36.30	8	28	16.07	8.00	5.69	M3	4.00	£17.52
ZFB1.5-15	15	1.5	22.50	60.00	26.69	10	18	28.82	14.44	13.91	M4	6.00	£14.55
ZFB1.5-60	60		90.00	35.00	90.41	15	50	27.61	12.00	13.91	M4	6.00	£22.54
ZFB1-15	15	1	15.00	45.00	17.79	8	13	24.22	14.73	9.28	M4	7.00	£13.94
ZFB1-60	60		60.00	30.00	60.27	10	40	25.08	12.00	9.28	M4	6.00	£20.14
ZFB0.8-15	15	0.8	12.00	35.00	14.23	6	10	18.38	10.58	7.10	M3	5.00	£12.48
ZFB0.8-60	60		48.00	20.00	48.22	8	30	16.06	8.00	7.10	M3	4.00	£19.14

14.12



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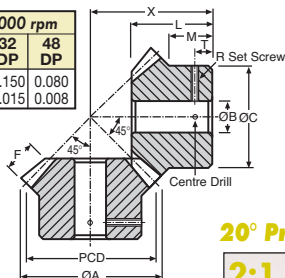
Materials **Bevel Gears 1:1 2:1 3:1**

STD : Steel 080M40 (En8)
Straight Cut - Gleason System

8 - 48 DP

TORQUE CHECK	20 teeth x 1000 rpm			
	16 DP	24 DP	32 DP	48 DP
TORQUE Nm.	1.00	0.60	0.150	0.080
K.W.	0.10	0.06	0.015	0.008

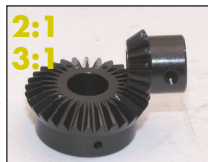
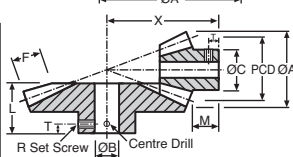
N.B. Induction hardening will double the torque figures for steel



20° Pressure Angle

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%



PART NUMBER	TEETH	DP	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
B8-1-24	24	8	76.20	60.32	80.70	19.05	59.51	34.90	14.65	15.87	-	-	£61.64
B10-1-20	20	10	50.80	44.45	54.38	15.87	39.67	29.08	13.48	12.70	-	-	£39.82
B10-1-25	25	10	63.50	53.95	67.08	19.05	47.62	33.40	14.25	14.27	-	-	£48.41
B12-1-24	24	12	50.80	50.80	53.80	12.70	40.70	33.17	20.34	9.52	M6	9.5	£55.15
B16-1-20	20	16	31.75	31.75	34.00	12.70	27.00	21.60	13.60	7.20	M5	6	£25.03
B24-1-24	24	24	25.40	25.40	26.90	9.52	22.90	16.93	11.45	5.30	M5	6	£23.26
B32-1-24	24	32	19.05	19.05	20.17	7.94	17.00	12.89	8.59	4.25	M4	5	£17.87
B48-1-30	30	48	15.88	17.45	16.62	6.35	14.00	12.00	8.58	3.18	M3	5	£21.10
B16-2-20	20	16	31.75	47.63	35.56	9.52	28.58	26.53	15.09	11.25	M4	8	£24.97
B16-2-40	40		63.50	31.75	64.42	12.70	40.00	21.45	10.51	11.25	M5	6	£32.10
B24-2-24	24	24	25.40	38.10	27.96	9.52	20.00	18.85	11.35	6.35	M4	6	£26.47
B24-2-48	48		50.80	25.40	51.41	9.52	35.00	15.97	7.00	6.35	M4	4	£31.42
B32-2-24	24	32	19.05	28.58	20.97	7.94	16.00	14.35	8.77	5.00	M4	5	£19.44
B32-2-48	48		38.10	19.05	38.56	7.94	25.00	12.09	2.23	5.00	M4	3	£26.37
B48-2-30	30	48	15.88	23.80	17.15	6.35	14.27	11.00	7.54	3.18	M3	3	£22.85
B48-2-60	60		31.75	17.45	32.00	6.35	16.00	11.17	5.82	3.18	M3	3	£26.00
B16-3-20	20	16	31.75	63.50	36.00	12.70	28.00	27.76	15.24	12.00	M5	8	£28.84
B16-3-60	60		95.25	31.75	95.85	12.70	60.00	20.26	7.75	12.00	M5	5	£35.91
B24-3-24	24	24	25.40	50.80	28.23	9.52	20.00	20.65	11.79	8.00	M4	6	£28.84
B24-3-72	72		76.20	25.40	76.59	9.52	50.00	15.66	7.00	8.00	M4	4	£31.98
B32-3-24	24	32	19.05	38.10	21.17	7.94	17.17	15.02	9.21	5.50	M5	5	£23.47
B32-3-72	72		57.15	19.05	57.45	7.94	30.00	11.60	5.00	5.50	M3	3	£27.43

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14.13

Bevel Gears Steel Dp 8-48

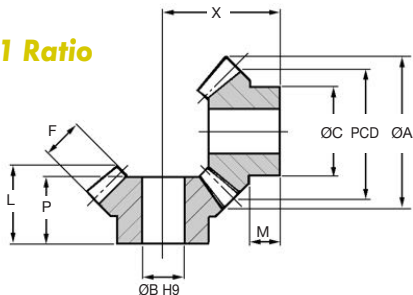
Moulded Bevel Gears 1:1 2:1 Materials

0.5 - 2 MOD

STD : Moulded in Hostaform

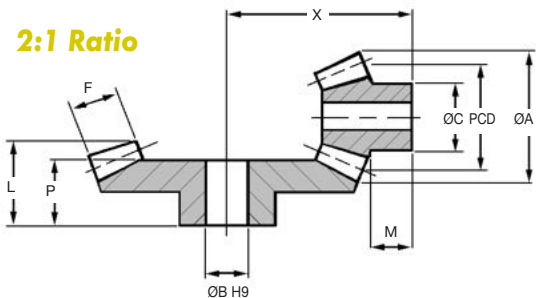


1:1 Ratio



20° Pressure Angle

2:1 Ratio



MOD 0.5-2

Bevel Gears Hostaform

PART NUMBER	RATIO	TEETH	MOD	PCD	X	ØA
ZEB0.5-16	1:1	16	0.5	8.00	10.50	8.70
ZEB1-16		16	1.0	16.00	18.40	17.60
ZEB1-30		30	1.0	30.00	24.80	30.70
ZEB1.5-16		16	1.5	24.00	25.80	26.40
ZEB2-16		16	2.0	32.00	30.40	34.90
ZGB1-15	2:1	15	1.0	15.00	26.40	16.80
ZGB1-30		30	1.0	30.00	20.90	31.10
ZGB1.5-15		15	1.5	22.50	35.80	25.40
ZGB1.5-30		30	1.5	45.00	26.20	46.40
ZGB2-15		15	2.0	30.00	44.20	33.60
ZGB2-30		30	2.0	60.00	32.60	62.20



Materials Moulded Bevel Gears 1:1 2:1

STD : Moulded in Hostaform

0.5 - 2 MOD

Max. Tensile Strength : at 20°C 62 N/mm²
at 70°C 35 N/mm²

Tensile Elongation at Breach : at 20°C : 30%
at 70°C : 110%

Melting Point : 190°C

Vicat Softening Temp: 151°C

Auto Ignition Temp : 427°C

**Coefficient of Linear Expansion
between 20°&100°C : 1.1x10-4**



20° Pressure Angle

Bevel

Gears Hostaform MOD 0.5-2

DISCOUNTS

Quantity	List Price
1 - 9	
10 - 49	- 10%
50 - 199	- 20%
200 - 499	- 30%
500 - 999	- 40%
1000 +	- 50%

ØB	ØC	F	M	P	L	PRICE EA.
						1-9
3.00	7.00	2.00	6.00	8.00	8.00	£1.13
5.00	12.00	4.70	8.00	13.60	13.60	£1.52
6.00	15.00	7.20	7.50	13.10	15.20	£4.41
8.00	18.50	7.00	10.00	16.20	18.40	£3.28
10.00	21.90	10.00	9.60	18.30	21.20	£3.75
5.00	12.20	6.60	10.60	17.00	17.00	£2.89
8.00	18.00	6.60	9.10	14.80	16.20	£3.54
8.00	17.00	10.50	11.50	22.80	22.80	£3.13
10.00	23.40	10.50	9.60	17.50	19.50	£4.36
10.00	22.50	14.60	11.80	26.00	27.00	£6.20
12.00	30.20	14.60	11.80	22.60	24.20	£7.70

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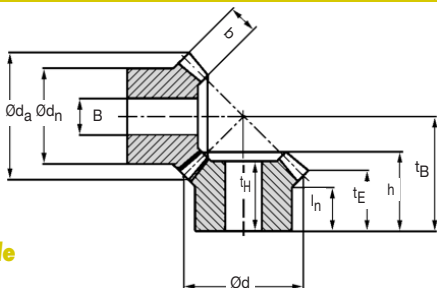
14.15

Mitre Bevel 1:1

Materials

1.0 - 6.0 MOD

STD : Steel 080M40 (En8)
BS545



20° Pressure Angle

Gear Life : 12,000 hours (based on 12 hours per day usage)

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 30%

TORQUE CHECK	16 teeth x 1000 rpm									
	1.0 MOD	1.5 MOD	2.0 MOD	2.5 MOD	3.0 MOD	3.5 MOD	4.0 MOD	4.5 MOD	5.0 MOD	6.0 MOD
TORQUE Nm.	0.28	0.92	1.85	3.50	5.56	8.50	12.20	16.80	22	30.60
K.W.	0.029	0.097	0.19	0.37	0.58	0.89	1.28	1.76	2.30	3.20

Bevel Gears Steel MOD 1-6

PART NUMBER	No. of TEETH	MOD	d_a	d	b	I_n	d_n	B	t_B	h	t_H	t_E	Weight kg	PRICE EA. 1-5
151-110-016	16	1.0	17.41	16.0	4.0	8.0	14.0	5.0	17.0	12.3	11.0	9.71	0.012	£32.99
151-110-019	19		20.41	19.0	4.5	8.0	16.0	6.0	19.0	13.1	12.0	10.21	0.018	£40.25
151-110-022	22		23.41	22.0	5.0	9.5	19.0	6.0	22.0	15.0	13.5	11.71	0.027	£49.75
151-110-026	26		27.41	26.0	6.0	10.0	22.0	8.0	25.0	16.7	15.5	12.71	0.042	£56.41
151-110-030	30		31.41	30.0	7.0	10.5	25.0	8.0	28.0	18.4	17.0	13.71	0.061	£66.71
151-115-016	16	1.5	26.11	24.0	6.0	10.0	20.0	8.0	24.0	16.9	15.0	13.06	0.032	£41.30
151-115-019	19		30.62	28.5	6.5	10.5	24.0	8.0	27.0	18.0	16.0	13.81	0.053	£52.18
151-115-022	22		35.12	33.0	7.5	11.0	26.0	8.0	31.0	20.5	18.5	15.56	0.077	£60.44
151-115-026	26		41.11	39.0	8.5	13.0	28.0	10.0	35.0	22.2	20.5	16.56	0.105	£73.18
151-115-030	30		47.12	45.0	10.0	13.5	30.0	10.0	39.0	24.3	22.5	17.56	0.150	£70.63
151-120-016	16	2.0	34.82	32.0	8.0	12.0	26.0	10.0	31.0	21.5	19.0	16.41	0.072	£53.98
151-120-019	19		40.82	38.0	9.0	12.0	30.0	10.0	35.0	23.2	21.0	17.41	0.115	£66.27
151-120-022	22		46.82	44.0	10.0	13.0	32.0	12.0	39.0	25.0	23.0	18.41	0.155	£73.18
151-120-026	26		54.82	52.0	11.5	14.0	36.0	12.0	45.0	28.0	26.0	20.41	0.242	£86.71
151-120-030	30		62.82	60.0	13.5	15.0	40.0	14.0	50.0	30.4	28.0	21.41	0.340	£97.58
151-125-016	16	2.5	43.53	40.0	10.0	13.0	32.0	12.0	37.0	25.0	22.0	18.77	0.132	£63.26
151-125-019	19		51.03	47.5	11.0	14.5	38.0	12.0	43.0	28.1	25.0	21.02	0.220	£77.38
151-125-022	22		58.53	55.0	12.5	16.0	40.0	14.0	48.0	30.4	28.0	22.27	0.298	£84.23
151-125-026	26		68.53	65.0	14.5	17.0	45.0	16.0	54.0	32.8	30.0	23.27	0.433	£97.58
151-125-030	30		78.53	75.0	16.5	18.0	50.0	18.0	60.0	35.3	32.0	24.27	0.602	£111.09

14.16



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	No. of TEETH	MOD	d _a	d	b	l _n	d _n	B	t _B	h	t _H	t _E	Weight kg	PRICE EA. 1-5
151-130-016	16		52.24	48.0	12.0	14.0	38.0	14.0	43.0	28.7	25.0	21.12	0.218	£71.55
151-130-019	19		61.24	57.0	13.5	16.0	40.0	14.0	49.0	31.3	28.0	22.62	0.315	£86.71
151-130-022	22	3.0	70.24	66.0	15.0	18.0	45.0	16.0	56.0	35.0	31.0	25.12	0.457	£100.62
151-130-026	26		82.24	78.0	17.0	20.0	52.0	18.0	65.0	39.3	36.0	28.12	0.737	£108.86
151-130-030	30		94.24	90.0	19.5	22.0	60.0	20.0	73.0	43.1	39.0	30.12	1.08	£128.23
151-135-016	16		60.94	56.0	14.0	16.5	45.0	16.0	50.0	33.4	29.0	24.48	0.353	£82.42
151-135-019	19		71.44	66.5	16.0	18.0	50.0	16.0	57.0	36.5	32.0	26.22	0.540	£97.58
151-135-022	22	3.5	81.94	77.0	17.5	20.0	55.0	18.0	64.0	39.4	35.0	27.98	0.745	£109.89
151-135-026	26		95.94	91.0	20.0	21.0	60.0	20.0	73.0	43.2	39.0	29.65	1.110	£128.23
151-135-030	30		109.94	105.0	23.0	23.0	70.0	22.0	83.0	48.3	44.0	32.98	1.700	£146.42
151-140-016	16		69.65	64.0	16.0	18.0	50.0	18.0	57.0	38.0	33.0	27.82	0.512	£89.31
151-140-019	19		81.65	76.0	18.0	20.0	55.0	18.0	65.0	41.4	37.0	29.83	0.775	£109.89
151-140-022	22	4.0	93.65	88.0	20.0	22.0	60.0	20.0	73.0	45.0	40.0	31.83	1.080	£128.23
151-140-026	26		109.65	104.0	23.0	23.0	70.0	22.0	82.0	48.0	44.0	32.83	1.650	£146.42
151-140-030	30		125.65	120.0	26.0	25.0	80.0	25.0	92.0	52.2	48.0	34.83	2.410	£165.38
151-145-016	16		78.36	72.0	18.0	21.0	58.0	20.0	64.0	42.6	38.0	31.18	0.755	£111.29
151-145-019	19		91.86	85.5	20.0	21.0	60.0	22.0	72.0	45.3	40.0	32.43	1.020	£128.23
151-145-022	22	4.5	105.36	99.0	22.5	23.0	70.0	25.0	81.0	49.4	44.0	34.68	1.540	£142.17
151-145-026	26		123.36	117.0	25.5	25.0	80.0	28.0	92.0	53.5	48.0	36.68	2.320	£178.71
151-145-030	30		141.36	135.0	29.0	30.0	85.0	30.0	104.0	59.0	54.0	39.68	3.260	£199.26
151-150-016	16		87.07	80.0	20.0	22.5	65.0	22.0	70.0	46.3	41.0	33.54	1.030	£122.58
151-150-019	19		102.07	95.0	22.0	23.0	70.0	25.0	79.0	49.2	44.0	35.04	1.440	£134.11
151-150-022	22	5.0	117.07	110.0	25.0	25.0	80.0	28.0	89.0	54.0	48.0	37.54	2.120	£161.92
151-150-026	26		137.07	130.0	29.0	29.0	85.0	30.0	103.0	60.7	55.0	41.54	3.140	£197.65
151-150-030	30		157.07	150.0	32.0	32.0	90.0	35.0	116.0	66.0	60.0	44.54	4.250	£228.94
151-160-016	16		104.46	96.0	22.5	24.0	80.0	25.0	80.0	50.7	44.0	36.24	1.690	£186.57
151-160-019	19		122.46	114.0	26.0	25.0	85.0	28.0	90.0	54.2	48.0	37.24	2.770	£219.83
151-160-022	22	6.0	140.46	132.0	30.0	26.0	95.0	30.0	100.0	58.0	51.0	38.24	4.100	£263.64
151-160-026	26		164.46	156.0	35.0	30.0	105.0	35.0	116.0	65.6	58.0	42.24	6.080	£311.27
151-160-030	30		188.46	180.0	40.0	33.0	120.0	40.0	132.0	73.2	66.0	46.24	9.160	£371.21

'Never Knowingly Outpriced'

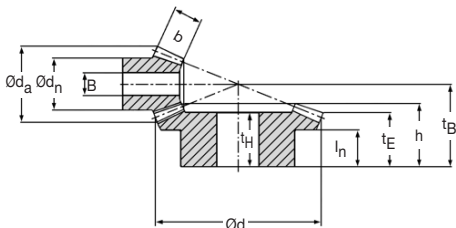


Bevel Gears 1.5:1

Materials

1.0 - 6.0 MOD

STD : Steel 080M40 (En8)
BS545



20° Pressure Angle

Straight Teeth.

Angle of Engagement : 90°

Gear Life : 12,000 hours (based on 12 hours per day usage)

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 30%

TORQUE CHECK	16 teeth x 1000 rpm									
	1.0 MOD	1.5 MOD	2.0 MOD	2.5 MOD	3.0 MOD	3.5 MOD	4.0 MOD	4.5 MOD	5.0 MOD	6.0 MOD
TORQUE Nm.	0.33	1.10	2.20	4.14	6.62	10.10	14.50	20.00	26.20	36.40
K.W.	0.035	0.12	0.23	0.43	0.71	1.06	1.50	2.11	2.75	3.82

Bevel Gears Steel MOD 1-6

PART NUMBER	No. of TEETH	MOD	d_a	d	b	l_n	d_n	B	t_B	h	t_H	t_E	Weight kg	PRICE EA. 1-5
151-210-016	16	1.0	17.66	16.0	4.5	7.2	13.5	5.0	20.0	12.2	11.0	8.55	0.011	£35.00
151-210-024	24		25.11	24.0	4.5	9.3	21.0	6.0	20.0	15.1	13.5	12.83	0.035	£52.58
151-215-016	16	1.5	26.49	24.0	7.0	10.6	20.0	8.0	30.0	18.4	17.0	12.83	0.036	£47.33
151-215-024	24		37.67	36.0	7.0	12.0	26.0	8.0	27.0	19.7	17.5	16.25	0.080	£71.15
151-220-016	16	2.0	35.32	32.0	10.0	12.0	26.0	10.0	38.0	23.0	21.0	15.17	0.080	£58.40
151-220-024	24		50.22	48.0	10.0	15.0	35.0	12.0	35.0	25.7	23.0	20.66	0.185	£87.69
151-225-016	16	2.5	44.16	40.0	12.5	13.5	32.0	12.0	46.0	27.3	25.0	17.40	0.146	£65.69
151-225-024	24		62.77	60.0	12.5	16.0	42.0	14.0	42.0	30.2	27.0	24.10	0.340	£98.41
151-230-016	16	3.0	53.00	48.0	14.5	15.5	40.0	14.0	54.0	31.1	28.0	19.66	0.255	£75.57
151-230-024	24		75.32	72.0	14.5	18.0	50.0	16.0	49.0	34.6	30.0	27.50	0.555	£114.14
151-235-016	16	3.5	61.82	56.0	17.0	17.0	47.0	16.0	62.0	35.4	32.0	21.94	0.400	£87.86
151-235-024	24		87.88	84.0	17.0	21.0	58.0	18.0	57.0	40.3	36.0	31.91	0.905	£130.87
151-240-016	16	4.0	70.65	64.0	19.0	18.5	54.0	18.0	70.0	39.2	35.0	24.21	0.584	£96.57
151-240-024	24		100.43	96.0	19.0	24.0	66.0	20.0	65.0	45.7	40.0	36.32	1.330	£145.79
151-245-016	16	4.5	79.48	72.0	21.5	21.0	60.0	20.0	79.0	44.5	40.0	27.50	0.833	£128.23
151-245-024	24		113.00	108.0	21.5	26.0	75.0	25.0	73.0	51.5	45.0	40.74	1.880	£191.40
151-250-016	16	5.0	88.32	80.0	24.0	23.0	65.0	22.0	88.0	49.8	45.0	30.77	1.130	£129.24
151-250-024	24		125.54	120.0	24.0	28.0	85.0	30.0	80.0	56.0	49.0	44.16	2.550	£193.41
151-260-016	16	6.0	105.96	96.0	28.5	24.7	80.0	25.0	102.0	55.9	50.0	33.33	2.050	£274.55
151-260-024	24		150.66	144.0	28.5	32.0	105.0	35.0	90.0	61.1	52.5	46.99	4.180	£408.94

14.18



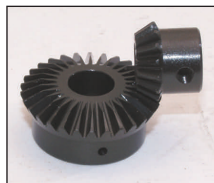
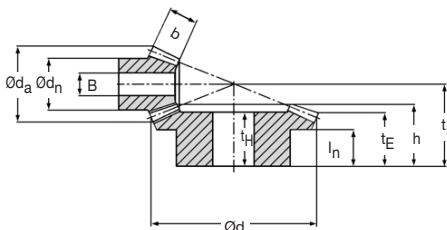
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Steel 080M40 (En8)
BS545

Bevel Gears 2:1

1.0 - 6.0 MOD



20° Pressure Angle

Straight Teeth.

Angle of Engagement : 90°

Gear Life : 12,000 hours (based on 12 hours per day usage)

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 30%

TORQUE CHECK	16 teeth x 1000 rpm									
	1.0 MOD	1.5 MOD	2.0 MOD	2.5 MOD	3.0 MOD	3.5 MOD	4.0 MOD	4.5 MOD	5.0 MOD	6.0 MOD
TORQUE Nm.	0.31	1.02	2.37	4.68	7.56	11.50	16.50	23.20	31.30	50.50
K.W.	0.032	0.11	0.25	0.49	0.79	1.21	1.73	2.43	3.28	5.29

PART NUMBER	No. of TEETH	MOD	d _a	d	b	l _n	d _n	B	t _B	h	t _H	t _E	Weight kg	PRICE EA. 1-5
151-310-015	15	1.0	16.79	15.0	5.0	8.0	12.5	5.0	23.0	12.8	12.0	8.45	0.010	£30.00
151-310-030	30		30.89	30.0	5.0	9.0	22.0	8.0	20.0	15.4	14.0	13.40	0.044	£72.14
151-315-015	15	1.5	25.19	22.5	8.0	10.6	19.0	8.0	34.0	19.1	18.0	12.17	0.032	£32.81
151-315-030	30		46.34	45.0	8.0	13.0	32.0	10.0	28.0	21.2	19.0	18.09	0.133	£72.14
151-320-015	15	2.0	33.58	30.0	11.5	12.0	25.0	10.0	43.0	23.8	22.0	13.89	0.071	£54.58
151-320-030	30		61.80	60.0	11.5	15.0	40.0	14.0	35.0	26.3	23.0	21.79	0.278	£109.28
151-325-015	15	2.5	41.98	37.5	14.5	14.0	31.0	12.0	53.0	29.2	27.0	16.62	0.140	£60.04
151-325-030	30		77.25	75.0	14.5	17.0	50.0	18.0	42.0	30.9	27.0	25.49	0.510	£120.56
151-330-015	15	3.0	50.37	45.0	17.0	16.0	38.0	14.0	63.0	34.0	32.0	19.34	0.245	£63.48
151-330-030	30		92.70	90.0	17.0	19.0	60.0	20.0	49.0	35.8	31.0	29.18	0.880	£128.09
151-335-015	15	3.5	58.77	52.5	19.5	18.5	44.0	16.0	73.0	38.9	36.0	22.06	0.380	£80.41
151-335-030	30		108.15	105.0	19.5	22.0	70.0	22.0	57.0	41.5	36.0	33.88	1.410	£161.54
151-340-015	15	4.0	67.16	60.0	22.0	25.0	50.0	18.0	83.0	43.8	41.0	24.79	0.560	£94.54
151-340-030	30		123.60	120.0	22.0	25.0	80.0	25.0	65.0	47.1	42.0	38.58	2.130	£188.97
151-345-015	15	4.5	75.56	67.5	25.0	22.5	55.0	20.0	93.0	49.2	46.0	27.51	0.780	£116.13
151-345-030	30		139.02	135.0	25.0	28.0	90.0	30.0	73.0	53.0	47.0	43.27	2.990	£232.37
151-350-015	15	5.0	83.95	75.0	28.0	24.0	60.0	22.0	103.0	54.5	51.0	30.23	1.060	£118.56
151-350-030	30		154.46	150.0	28.0	30.0	100.0	25.0	80.0	57.9	51.0	46.97	3.980	£237.80
151-360-015	15	6.0	100.74	90.0	32.5	26.2	75.0	25.0	120.0	60.8	56.0	32.68	1.820	£288.04
151-360-030	30		185.34	180.0	32.5	33.0	120.0	40.0	90.0	63.2	54.0	50.37	5.840	£573.98

Bevel Gears Steel MOD 1:6

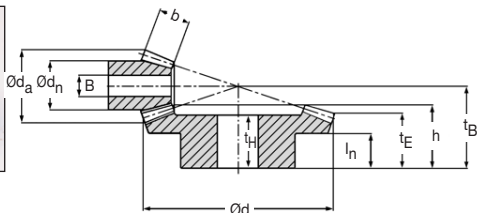


Bevel Gears 2.5:1

Materials

1.0 - 6.0 MOD

STD : Steel 080M40 (En8)
BS545



20° Pressure Angle

Straight Teeth.

Angle of Engagement : 90°

Gear Life : 12,000 hours (based on 12 hours per day usage)

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 30%

TORQUE CHECK	16 teeth x 1000 rpm									
	1.0 MOD	1.5 MOD	2.0 MOD	2.5 MOD	3.0 MOD	3.5 MOD	4.0 MOD	4.5 MOD	5.0 MOD	6.0 MOD
TORQUE Nm.	0.36	1.21	2.92	5.32	8.36	12.60	17.70	24.20	33	45.70
K.W.	0.038	0.13	0.31	0.56	0.88	1.32	1.86	2.53	3.45	4.79

Bevel Gears Steel MOD 1.6

PART NUMBER	No. of TEETH	MOD	d_a	d	b	l_n	d_n	B	t_B	h	t_h	t_E	Weight kg	PRICE EA. 1-5
151-410-016	16	1.0	17.86	16.0	6.0	7.5	13.5	5.0	28.0	13.8	13.0	8.37	0.013	£36.82
151-410-040	40		40.74	40.0	6.0	9.0	25.0	8.0	21.0	15.9	14.0	13.93	0.075	£91.11
151-415-016	16	1.5	26.79	24.0	9.0	11.2	20.0	8.0	42.0	20.7	19.5	12.56	0.041	£45.71
151-415-040	40		61.11	60.0	9.0	13.5	38.0	12.0	30.0	22.3	20.0	19.39	0.232	£114.14
151-420-016	16	2.0	35.71	32.0	13.5	14.0	26.0	12.0	55.0	28.0	26.0	15.74	0.091	£50.75
151-420-040	40		81.48	80.0	13.5	18.0	50.0	18.0	39.0	29.2	26.0	24.85	0.515	£128.23
151-425-016	16	2.5	44.64	40.0	17.0	15.5	32.0	14.0	67.0	33.4	32.0	17.93	0.174	£65.89
151-425-040	40		101.85	100.0	17.0	20.0	60.0	20.0	46.0	33.9	30.0	28.32	0.930	£163.95
151-430-016	16	3.0	53.56	48.0	20.0	17.5	40.0	16.0	79.0	38.3	36.0	20.11	0.305	£76.57
151-430-040	40		122.22	120.0	20.0	23.0	70.0	22.0	55.0	40.3	36.0	33.78	1.630	£191.40
151-435-016	16	3.5	62.49	56.0	23.5	19.0	45.0	18.0	91.0	43.6	41.0	22.30	0.470	£91.11
151-435-040	40		142.59	140.0	23.5	26.0	80.0	25.0	62.0	44.7	40.0	37.25	2.370	£227.51
151-440-016	16	4.0	71.42	64.0	27.0	21.5	52.0	20.0	104.0	50.0	47.0	25.48	0.720	£109.28
151-440-040	40		162.97	160.0	27.0	30.0	90.0	30.0	72.0	52.5	46.0	43.71	3.560	£273.51
151-445-016	16	4.5	80.35	72.0	30.0	23.5	60.0	22.0	116.0	54.9	52.0	27.67	1.040	£145.79
151-445-040	40		183.34	180.0	30.0	34.0	100.0	35.0	81.0	59.0	52.0	49.18	4.980	£364.32
151-450-016	16	5.0	89.28	80.0	33.0	26.0	65.0	25.0	129.0	60.8	58.0	30.86	1.370	£164.16
151-450-040	40		203.71	200.0	33.0	36.0	110.0	40.0	88.0	63.4	56.0	52.64	6.600	£408.94
151-460-016	16	6.0	107.16	96.0	36.5	26.8	80.0	25.0	150.0	65.5	62.0	32.23	2.480	£360.91
151-460-040	40		244.44	240.0	36.5	34.0	125.0	40.0	95.0	64.5	55.0	52.57	12.350	£914.17

14.20



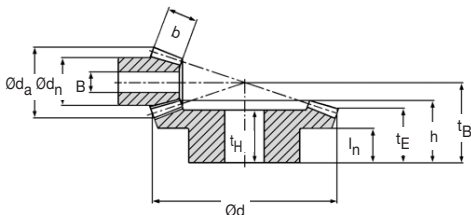
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : Steel 080M40 (En8)
BS545

Bevel Gears 3:1

1.0 - 6.0 MOD



20° Pressure Angle

Straight Teeth.

Angle of Engagement : 90°

Gear Life : 12,000 hours (based on 12 hours per day usage)

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 30%

TORQUE CHECK	16 teeth x 1000 rpm									
	1.0 MOD	1.5 MOD	2.0 MOD	2.5 MOD	3.0 MOD	3.5 MOD	4.0 MOD	4.5 MOD	5.0 MOD	6.0 MOD
TORQUE Nm.	0.33	1.09	2.64	5.13	7.55	11.30	16.06	22.20	29.70	41.30
K.W.	0.034	0.11	0.28	0.54	0.79	1.18	1.70	2.33	3.11	4.30

PART NUMBER	No. of TEETH	MOD	d _a	d	b	l _n	d _n	B	t _B	h	t _H	t _E	Weight kg	PRICE EA. 1-5
151-510-015	15	1.0	16.90	15.0	7.0	8.0	12.5	5.0	31.0	15.4	14.5	8.82	0.012	£30.00
151-510-045	45		45.63	45.0	7.0	10.0	28.0	10.0	22.0	17.4	15.5	15.45	0.102	£90.11
151-515-015	15	1.5	25.35	22.5	10.0	11.6	19.0	8.0	46.0	22.1	21.0	12.72	0.039	£32.81
151-515-045	45		68.45	67.5	10.0	14.5	40.0	14.0	31.0	23.9	21.5	21.17	0.300	£98.41
151-520-015	15	2.0	33.79	30.0	14.0	14.0	25.0	12.0	60.0	28.7	27.0	15.63	0.082	£58.40
151-520-045	45		91.26	90.0	14.0	20.0	50.0	18.0	41.0	31.7	28.0	27.89	0.632	£176.26
151-525-015	15	2.5	42.24	37.5	17.5	15.5	31.0	14.0	73.0	33.8	32.0	17.54	0.155	£57.83
151-525-045	45		114.08	112.5	17.5	22.0	60.0	20.0	48.0	36.4	32.0	31.62	1.150	£174.25
151-530-015	15	3.0	50.68	45.0	21.0	17.5	38.0	16.0	86.0	39.0	37.0	19.45	0.275	£68.75
151-530-045	45		136.89	135.0	21.0	25.0	70.0	22.0	56.0	42.1	37.0	36.34	1.900	£207.18
151-535-015	15	3.5	59.13	52.5	24.5	20.0	44.0	18.0	100.0	45.2	43.0	22.35	0.440	£80.03
151-535-045	45		159.71	157.5	24.5	28.0	80.0	25.0	64.0	47.8	42.0	41.07	2.950	£239.85
151-540-015	15	4.0	67.58	60.0	28.0	22.5	50.0	20.0	114.0	51.4	49.0	25.26	0.650	£95.54
151-540-045	45		182.52	180.0	28.0	32.0	90.0	30.0	73.0	54.5	48.0	46.79	4.320	£287.23
151-545-015	15	4.5	73.03	67.5	31.0	24.5	55.0	22.0	128.0	57.1	54.0	28.17	0.910	£123.39
151-545-045	45		205.34	202.5	31.0	35.0	105.0	35.0	81.0	60.1	53.0	51.52	6.180	£371.21
151-550-015	15	5.0	84.48	75.0	34.0	27.0	60.0	25.0	142.0	62.8	60.0	31.80	1.210	£150.42
151-550-045	45		228.16	225.0	34.0	38.0	120.0	40.0	89.0	65.6	58.0	56.24	8.660	£453.71
151-560-015	15	6.0	101.40	90.0	41.0	27.5	75.0	25.0	165.0	70.2	66.0	31.89	2.420	£384.91
151-560-045	45		273.78	270.0	41.0	35.0	140.0	45.0	98.0	70.0	60.0	58.69	17.510	£596.27

Bevel Gears Steel MOD 1.6

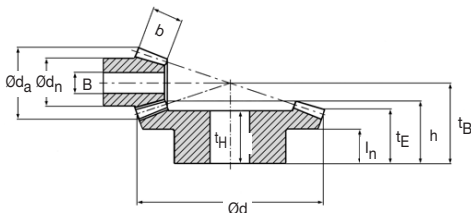
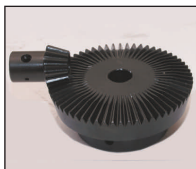


Bevel Gears 4:1

Materials

1.0-6.0 MOD

STD : Steel 080M40 (En8)
BS545



20° Pressure Angle

Straight Teeth.

Angle of Engagement : 90°

Gear Life : 12,000 hours (based on 12 hours per day usage)

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 30%

TORQUE CHECK	16 teeth x 1000 rpm									
	1.0 MOD	1.5 MOD	2.0 MOD	2.5 MOD	3.0 MOD	3.5 MOD	4.0 MOD	4.5 MOD	5.0 MOD	6.0 MOD
TORQUE Nm.	0.33	1.11	2.69	4.90	7.69	11.56	16.16	22.2	30.30	42
K.W.	0.035	0.12	0.28	0.51	0.81	1.21	1.74	2.33	3.17	4.41

Bevel Gears Steel MOD 1-6

PART NUMBER	No. of TEETH	MOD	d_a	d	b	I_n	d_n	B	t_B	h	t_H	t_E	Weight kg	PRICE EA. 1-5
151-710-015	15	1.0	16.94	15.0	9.0	7.7	12.5	5.0	38.0	16.9	16.5	8.24	0.012	£26.12
151-710-060	60		60.49	60.0	9.0	10.0	35.0	12.0	23.0	18.4	16.5	16.47	0.195	£104.82
151-715-015	15	1.5	25.41	22.5	12.0	11.5	19.0	8.0	57.0	23.9	23.0	12.36	0.042	£27.33
151-715-060	60		90.74	90.0	12.0	15.5	50.0	16.0	33.0	25.7	23.0	23.21	0.570	£175.26
151-720-015	15	2.0	33.88	30.0	16.0	14.5	25.0	12.0	75.0	30.8	30.0	15.48	0.092	£53.01
151-720-060	60		120.97	120.0	16.0	22.0	65.0	20.0	45.0	35.3	32.0	31.94	1.335	£212.98
151-725-015	15	2.5	42.35	37.5	20.0	17.0	31.0	14.0	93.0	37.8	36.0	18.60	0.180	£62.84
151-725-060	60		151.21	150.0	20.0	25.0	80.0	22.0	53.0	40.9	36.0	36.73	2.370	£251.91
151-730-015	15	3.0	50.82	45.0	24.0	20.0	38.0	16.0	111.0	44.8	43.0	21.73	0.325	£74.98
151-730-060	60		181.45	180.0	24.0	28.0	95.0	28.0	62.0	47.4	42.0	42.41	4.060	£300.76
151-735-015	15	3.5	59.29	52.5	28.0	23.0	44.0	18.0	129.0	51.7	50.0	24.85	0.515	£90.31
151-735-060	60		211.69	210.0	28.0	30.0	110.0	32.0	69.0	52.0	46.0	46.15	6.160	£364.32
151-740-015	15	4.0	67.76	60.0	32.0	23.5	48.0	20.0	145.0	56.8	55.0	25.97	0.860	£136.69
151-740-060	60		241.92	240.0	32.0	35.0	125.0	35.0	80.0	60.6	53.0	53.88	9.060	£546.56
151-745-015	15	4.5	76.23	67.5	36.0	25.5	55.0	22.0	162.0	62.9	60.0	28.09	1.240	£191.81
151-745-060	60		272.16	270.0	36.0	37.5	140.0	40.0	88.0	66.2	57.0	58.62	12.950	£769.90
151-750-015	15	5.0	84.70	75.0	40.0	28.1	60.0	25.0	180.0	69.7	67.0	31.21	1.760	£283.20
151-750-060	60		302.40	300.0	40.0	38.0	160.0	45.0	95.0	70.8	62.0	62.35	17.820	£1120.42
151-760-015	15	6.0	101.64	90.0	45.0	28.1	75.0	25.0	210.0	74.7	71.0	31.45	2.420	£481.16
151-760-060	60		362.88	360.0	45.0	38.0	180.0	50.0	103.0	73.3	62.0	63.82	25.150	£1914.21

14.22



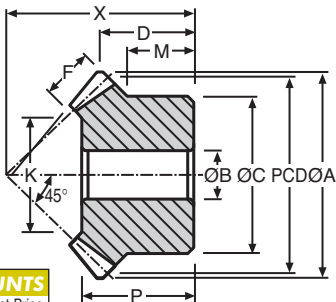
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Spiral Bevel Gears 1:1

STD : Steel S45C with Induction
Hardened Tooth Surfaces

1-3 MOD



20° Pressure Angle

Right Hand Gear, Left Hand Pinion

NOTE: Other ratios available 2:1, 3:1, 4:1.

Please consult telesales for further information.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	MOD	PCD	ØA	ØB	ØC	X	D	M	P	F	K	WEIGHT Kgf	PRICE EA. 1-5
SMS1-20R	20	1	20.0	21.2	6	16	20	10.6	8.0	12	5	9.86	0.02	£26.37
SMS1-20L	20	1	20.0	21.2	6	16	20	10.6	8.0	12	5	9.86	0.02	£26.37
SMS1-25R	25	1	25.0	26.2	6	20	23	11.1	8.0	14	6	15.03	0.05	£37.35
SMS1-25L	25	1	25.0	26.2	6	20	23	11.1	8.0	14	6	15.03	0.05	£37.35
SMS1.5-20R	20	1.5	30.0	31.8	8	26	30	15.9	13.0	19	8	15.37	0.07	£39.69
SMS1.5-20L	20	1.5	30.0	31.8	8	26	30	15.9	13.0	19	8	15.37	0.07	£39.69
SMS1.5-25R	25	1.5	37.0	39.3	10	30	34	16.2	11.5	19	9	19.54	0.12	£57.52
SMS1.5-25L	25	1.5	37.0	39.3	10	30	34	16.2	11.5	19	9	19.54	0.12	£57.52
SMS2-20R	20	2	40.0	42.4	12	34	37	18.2	14.0	22	10	21.72	0.15	£50.99
SMS2-20L	20	2	40.0	42.4	12	34	37	18.2	14.0	22	10	21.72	0.15	£50.99
SMS2.5-20R	20	2.5	50.0	52.9	14	42	48	24.5	19.0	29	12	28.06	0.3	£86.46
SMS2.5-20L	20	2.5	50.0	52.9	14	42	48	24.5	19.0	29	12	28.06	0.3	£86.46
SMS3-20R	20	3	60.0	63.7	16	50	58	29.9	23.0	35	15	31.57	0.5	£115.96
SMS3-20L	20	3	60.0	63.7	16	50	58	29.9	23.0	35	15	31.57	0.5	£115.96
SMS3.5-20R	20	3.5	70.0	74.4	20	60	65	32.2	25.0	40	18	39.09	0.8	£162.59
SMS3.5-20L	20	3.5	70.0	74.4	20	60	65	32.2	25.0	40	18	39.09	0.8	£162.59
SMS4-20R	20	4	80.0	84.8	20	64	75	37.4	27.0	45	20	43.43	1.1	£197.23
SMS4-20L	20	4	80.0	84.8	20	64	75	37.4	27.0	45	20	43.43	1.1	£197.23
SMS5-20R	20	5	100.0	105.9	25	80	90	42.9	30.0	54	26	54.46	2.1	£274.67
SMS5-20L	20	5	100.0	105.9	25	80	90	42.9	30.0	54	26	54.46	2.1	£274.67
SMS6-20R	20	6	120.0	127.1	28	100	104	47.6	34.0	60	30	67.15	3.6	£452.38
SMS6-20L	20	6	120.0	127.1	28	100	104	47.6	34.0	60	30	67.15	3.6	£452.38
SMS8-20R	20	8	160.0	169.9	30	130	125	50.0	30.0	62	35	95.00	7.1	£669.57
SMS8-20L	20	8	160.0	169.9	30	130	125	50.0	30.0	62	35	95.00	7.1	£669.57

Bevel Gears Steel MOD 1-3



Spiral Bevel Gears 1:1

Materials

1-3 MOD

STD : Steel S45C - Induction
Hardened Tooth Surfaces



Spiral Angle : 35°

Pitch Angle : 45°

Face Angle : 20 teeth - 49° 12'

: 25 teeth - 48° 22'

: 30 teeth - 47° 48'

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Note : Gears can be supplied with larger bores and other modifications such as keyways and tapped holes. Teeth are available in larger sizes please ring our technical department for alternative sizes.

20° Pressure Angle

PART NUMBER	TEETH	MOD	PCD	ØA	ØB	ØC	X	D	M	P	F	K	WEIGHT Kgf	PRICE EA. 1-5
SMS2-25R	25	2	50.0	52.4	12	40	40	16.2	10.0	20	12	31	0.20	£76.24
SMS2-25L														£76.24
SMS2.5-25R	25	2.5	62.5	65.5	16	50	50	20.3	12.5	26	15	39	0.40	£101.25
SMS2.5-25L														£101.25
SMS3-25R	25	3	75.0	78.8	20	60	60	24.4	15.0	32	20	44	0.70	£134.78
SMS3-25L														£134.78
SMS3.5-25R	25	3.5	87.5	91.81	25	70	70	28.41	17.5	37	22	46.77	1.14	£193.06
SMS3.5-25L														£193.06
SMS4-25R	25	4	100.0	104.7	28	80	80	32.35	20	43	25	55.29	1.71	£233.96
SMS4-25L														£233.96
SMS5-25R	25	5	125.0	130.86	28	100	100	40.43	25	50	30	65.15	3.39	£354.90
SMS5-25L														£354.90
SMS6-25R	25	6	150.0	157.17	28	120	120	48.58	30	61	35	83	5.99	£541.47
SMS6-25L														£541.47
SMS1-30R	30	1	30.0	31.2	8	24	28	13.6	10.0	16	6	19.03	0.05	£39.85
SMS1-30L														£39.85
SMS1.5-30R	30	1.5	45.0	46.8	10	35	43	21.4	16.0	25	10	25.72	0.20	£59.74
SMS1.5-30L														£59.74
SMS2-30R	30	2	60.0	62.4	12	45	50	21.2	12.5	25	12	36.06	0.37	£109.67
SMS2-30L														£109.67
SMS2.5-30R	30	2.5	75.0	78.0	16	60	62	26.0	17.0	32	15	47.57	0.77	£140.06
SMS2.5-30L														£140.06
SMS3-30R	30	3	90.0	93.6	20	70	75	31.8	20.0	40	20	53.43	1.30	£191.87
SMS3-30L														£191.87
SMS3.5-30R	30	3.5	105.0	109.2	25	90	85	34.6	25.0	45	22	67.77	2.3	£239.13
SMS3.5-30L														£239.13
SMS4-30R	30	4	120.0	124.7	28	100	95	37.3	25.0	50	25	79.29	3.2	£322.81
SMS4-30L														£322.81
SMS5-30R	30	5	150.0	155.9	28	130	120	47.9	35.0	62	30	99.15	6	£597.99
SMS5-30L														£597.99

Bevel Gears Steel MOD 1:3

14.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

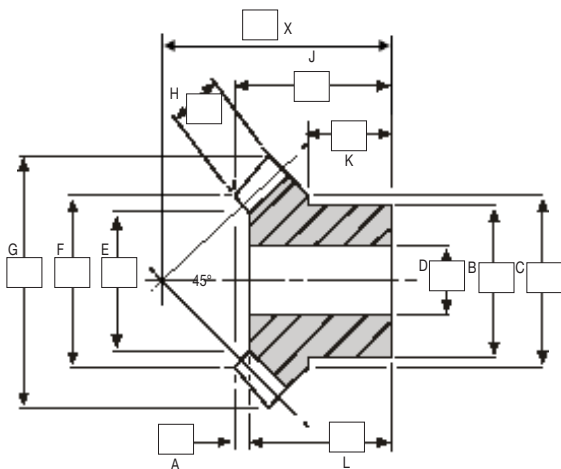
TECHNICAL REQUEST

Non-Standard Bevel Gears

photocopy double
size and fax on
+44 (0)1246 260003

QUANTITY	_____	OVERALL DIAMETER (G)	_____
MATERIAL	_____	FACE WIDTH (H)	_____
NUMBER OF TEETH	_____	OVERALL LENGTH (J)	_____
RECESS DEPTH (A)	_____	BOSS LENGTH (K)	_____
BOSS DIAMETER (B)	_____	HARDENED	YES <input type="checkbox"/> NO <input type="checkbox"/>
DIAMETER (C)	_____	LENGTH THROUGH BORE (L)	_____
BORE (D)	_____	RATIO	_____
RECESS DIAMETER (F)	_____	NUMBER OF TEETH IN MATING GEAR	_____

SPECIAL FEATURES



Bevel Gears



Bevel Gears 1:1

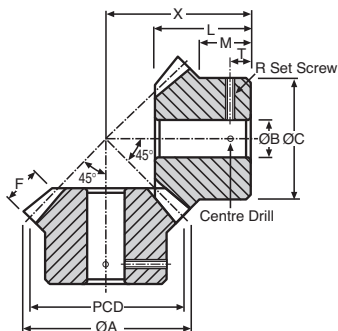
Materials

0.8 - 1.5 MOD

STD : Steel 080M40 (En8)
Gleason Cutting - Conikron System



Tooth Form: BS545
20° Pressure Angle



NOTE: Other materials available.
Please contact our sales dept. for information.

MOD 0.8-1.5

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Bevel Gears Steel

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
GCB1.5-20	20	1.5	30.00	35	32.12	10	26	23.82	18.00	4.20	M4	10.00	£20.73
GCB1.5-25	25		37.50	35	39.62	10	32	20.85	13.50	5.30	M4	7.00	£24.10
GCB1.5-30	30		45.00	35	47.12	10	38	17.84	9.00	6.35	M4	5.00	£25.53
GCB1.25-20	20	1.25	25.00	23	26.76	8	22	13.68	9.01	3.50	M4	3.50	£20.09
GCB1.25-25	25		31.25	28	33.00	8	25	16.19	9.26	4.40	M4	3.50	£22.66
GCB1.25-30	30		37.50	36	39.30	10	30	21.70	13.50	5.30	M4	5.00	£22.76
GCB1-20	20	1	20.00	25	21.41	8	18	17.54	14.01	2.80	M4	8.00	£19.13
GCB1-25	25		25.00	25	26.41	8	22	15.54	11.01	3.50	M4	6.00	£20.42
GCB1-30	30		30.00	25	31.41	8	26	13.53	8.00	4.20	M4	5.00	£21.73
GCB0.8-16	16	0.8	12.80	20	13.93	5	10	15.32	12.21	1.80	M3	7.00	£15.98
GCB0.8-20	20		16.00	20	17.13	5	13	14.04	10.51	2.25	M3	6.00	£16.73
GCB0.8-25	25		20.00	20	21.13	6	16	12.43	8.00	2.80	M3	5.00	£17.36
GCB0.8-30	30		24.00	20	25.13	6	20	10.82	6.00	3.35	M3	4.00	£18.78

14.26



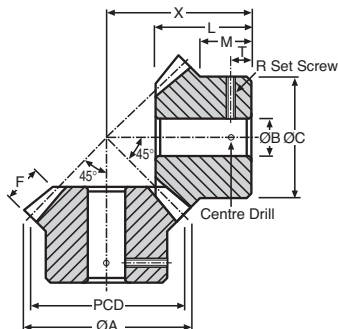
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : White Delrin
Gleason Cutting - Conikron System

Bevel Gears 1:1

0.8 - 1.5 MOD



Tooth Form: BS545
20° Pressure Angle

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

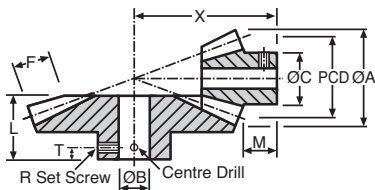
PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
GCZB1.5-20	20	1.5	30.00	35	32.12	10	26	23.82	18.00	4.20	M4	10.00	£12.66
GCZB1.5-25	25		37.50	35	39.62	10	32	20.85	13.50	5.30	M4	7.00	£14.72
GCZB1.5-30	30		45.00	35	47.12	10	38	17.84	9.00	6.35	M4	5.00	£15.57
GCZB1.25-20	20	1.25	25.00	23	26.76	8	22	13.68	9.01	3.50	M4	3.50	£11.86
GCZB1.25-25	25		31.25	28	33.00	8	25	16.19	9.26	4.40	M4	3.50	£14.25
GCZB1.25-30	30		37.50	36	39.30	10	30	21.70	13.50	5.30	M4	5.00	£15.20
GCZB1-20	20	1	20.00	25	21.41	8	18	17.54	14.01	2.80	M4	8.00	£11.67
GCZB1-25	25		25.00	25	26.41	8	22	15.54	11.01	3.50	M4	6.00	£12.43
GCZB1-30	30		30.00	25	31.41	8	26	13.53	8.00	4.20	M4	5.00	£13.28
GCZB0.8-16	16	0.8	12.80	20	13.93	5	10	15.32	12.21	1.80	M3	7.00	£9.76
GCZB0.8-20	20		16.00	20	17.13	5	13	14.04	10.51	2.25	M3	6.00	£10.19
GCZB0.8-25	25		20.00	20	21.13	6	16	12.43	8.00	2.80	M3	5.00	£13.41
GCZB0.8-30	30		24.00	20	25.13	6	20	10.82	6.00	3.35	M3	4.00	£13.63



Bevel Gears 2:1, 3:1, 4:1 Materials

0.8 - 1.5 MOD

STD : Steel 080M40 (En8)
Gleason Cutting - Conikron System



Tooth Form: BS545
20° Pressure Angle

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

NOTE: Other materials available.
Please contact our sales dept. for information.

MOD 0.8-1.5
Bevel Gears Steel

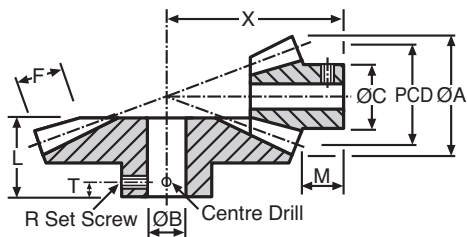
PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
GCDB1.5-15	15	1.5	22.50	35.00	25.18	10	21	17.51	12.13	5.00	M4	5.00	£20.81
GCDB1.5-30	30		45.50	27.00	46.34	10	30	19.06	11.00	5.00	M4	5.00	£26.66
GCDB1-15	15	1	15.00	24.00	16.78	6	14	12.35	8.76	3.35	M4	4.00	£19.06
GCDB1-30	30		30.00	18.00	30.89	10	25	12.71	7.00	3.35	M4	4.00	£23.47
GCDB0.8-15	15	0.8	12.00	20.00	13.43	5	10	10.65	7.50	2.65	M3	3.50	£16.81
GCDB0.8-30	30		24.00	14.00	24.71	8	20	9.76	5.50	2.65	M3	3.50	£19.82
GCTB1.5-15	15	1.5	22.50	45.00	25.34	10	18	18.36	10.51	7.10	M4	5.00	£16.60
GCTB1.5-45	45		67.50	32.00	68.44	15	50	24.14	12.00	7.10	M4	6.00	£27.26
GCTB1-15	15	1	15.00	32.00	16.89	6	13	14.21	9.18	4.70	M4	4.50	£16.19
GCTB1-45	45		45.00	24.00	45.63	10	40	18.74	10.00	4.70	M4	5.00	£24.02
GCTB0.8-15	15	0.8	12.00	28.00	13.51	5	10	14.03	9.95	3.75	M3	5.00	£14.91
GCTB0.8-45	45		36.00	20.00	36.50	8	28	15.79	8.00	3.75	M3	4.00	£22.47
GCFB1.5-15	15	1.5	22.50	60.00	25.41	10	18	24.26	14.44	9.25	M4	6.00	£18.55
GCFB1.5-60	60		90.00	35.00	90.72	15	50	27.16	12.00	9.25	M4	6.00	£28.78
GCFB1-15	15	1	15.00	45.00	16.94	6	13	21.16	14.76	6.15	M4	7.00	£17.78
GCFB1-60	60		60.00	30.00	60.48	10	40	24.77	12.00	6.15	M4	6.00	£25.80
GCFB0.8-15	15	0.8	12.00	35.00	13.55	5	10	15.91	10.76	4.90	M3	5.00	£15.90
GCFB0.8-60	60		48.00	20.00	48.38	8	30	15.81	8.00	4.90	M3	4.00	£24.16



Materials **Bevel Gears 2:1, 3:1, 4:1**

STD : White Delrin
Gleason Cutting - Conikron System

0.8 - 1.5 MOD



Tooth Form: BS545
20° Pressure Angle

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

PART NUMBER	TEETH	MOD	PCD	X	ØA	ØB	ØC	L	M	F	R	T	PRICE EA. 1-5
GCZDB1.5-15	15	1.5	22.50	35.00	25.18	10	21	17.51	12.13	5.00	M4	5.00	£12.48
GCZDB1.5-30	30		45.00	27.00	46.34	10	30	19.06	11.00	5.00	M4	5.00	£15.98
GCZDB1-15	15	1	15.00	24.00	16.78	6	14	12.35	8.76	3.35	M4	4.00	£11.49
GCZDB1-30	30		30.00	18.00	30.89	10	25	12.71	7.00	3.35	M4	4.00	£14.12
GCZDB0.8-15	15	0.8	12.00	20.00	13.43	5	10	10.65	7.50	2.65	M3	3.50	£10.09
GCZDB0.8-30	30		24.00	14.00	24.71	8	20	9.76	5.50	2.65	M3	3.50	£11.92
GCZTB1.5-15	15	1.5	22.50	45.00	25.34	10	18	18.36	10.51	7.10	M4	5.00	£9.98
GCZTB1.5-45	45		67.50	32.00	68.44	15	50	24.14	12.00	7.10	M4	6.00	£16.42
GCZTB1-15	15	1	15.00	32.00	16.89	6	13	14.21	9.18	4.70	M4	4.50	£9.74
GCZTB1-45	45		45.00	24.00	45.63	10	40	18.74	10.00	4.70	M4	5.00	£14.46
GCZTB0.8-15	15	0.8	12.00	28.00	13.51	5	10	14.03	9.95	3.75	M3	5.00	£8.94
GCZTB0.8-45	45		36.00	20.00	36.50	8	28	15.79	8.00	3.75	M3	4.00	£13.48
GCZFB1.5-15	15	1.5	22.50	60.00	25.41	10	18	24.26	14.44	9.25	M4	6.00	£11.13
GCZFB1.5-60	60		90.00	35.00	90.72	15	50	27.16	12.00	9.25	M4	6.00	£17.34
GCZFB1-15	15	1	15.00	45.00	16.94	6	13	21.16	14.73	6.15	M4	7.00	£10.72
GCZFB1-60	60		60.00	30.00	60.48	10	40	24.77	12.00	6.15	M4	6.00	£15.49
GCZFB0.8-15	15	0.8	12.00	35.00	13.55	5	10	15.91	10.76	4.90	M3	5.00	£9.60
GCZFB0.8-60	60		48.00	20.00	48.38	8	30	15.81	8.00	4.90	M3	4.00	£14.72

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



14.29

Bevel Gears Plastic MOD 0.8-1.5

TECHNICAL REQUEST

Non-Standard Worms & Wheels

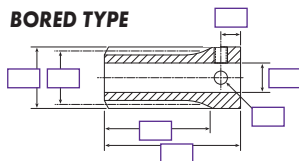
photocopy double
size and fax on
+44 (0)1246 260003

QUANTITY	_____	BORE DIAMETER (F)	_____
MATERIAL	_____	FACE WIDTH (G)	_____
NUMBER OF TEETH	_____	CENTRES (CTS)	_____
OUTSIDE DIAMETER (A)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
PITCH (B)	_____	FIXING SCREW LOCATION	_____
BOSS DIAMETER (C)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OVERALL WIDTH (E)	_____		

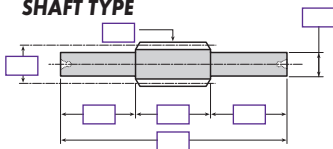
SPECIAL FEATURES

Worm

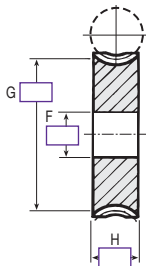
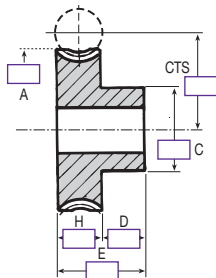
BORED TYPE



SHAFT TYPE



Wheel



Worms and Wheels

Pages 15.2 – 15.81

On LARGER Worm Wheels it is recommended to use SW type Worm shafts or the Boss diameter on the bored worms needs to be reduced to the root diameter.

TECHNICAL

Pages 27.54 – 27.60



For non-standard Worms and Wheels use form on opposite page or send a drawing or sample for a free, no-obligation quote.



Worms & Wheels

Materials

0.4 MOD, 1.257mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



LEAD ANGLE
RIGHT HAND
STANDARD

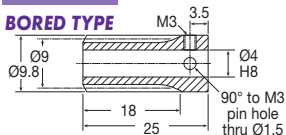
DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

20° Pressure Angle

Worm

BORED TYPE



214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W0.4-1	£15.02	1	2° 32'	WH0.4-1	£20.87
W0.4-2	£15.19	2	5° 04'	WH0.4-2	£21.65
W0.4-3	£15.95	3	7° 35'	WH0.4-3	£22.38
W0.4-4	£17.25	4	10° 04'	WH0.4-4	£24.45

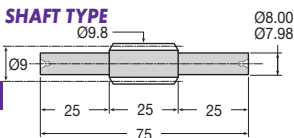
214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW0.4-1	£27.42	1	2° 32'	SWH0.4-1	£39.04
SW0.4-2	£29.37	2	5° 04'	SWH0.4-2	£41.79
SW0.4-3	£31.06	3	7° 35'	SWH0.4-3	£44.12
SW0.4-4	£32.02	4	10° 04'	SWH0.4-4	£45.52

214M15 - EN202 UNHARDENED

655M13 - EN36 HARDENED

SHAFT TYPE



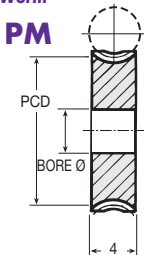
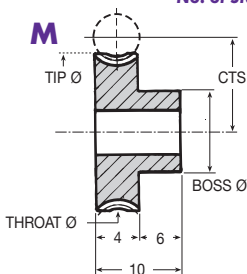
MOD 0.4

Worms & Wheels Bronze & Steel

Wheel

PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double
Bossed
Wheels
Available @
Price x 1.4

15.2



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

Number of Teeth between **20 - 460**
 See **Technical Section**

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	0.57	1.0
K.W.	0.0012	0.0021

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
MO.4-20	20	8.00	8.50	8.80	9.20	8.80	3	£12.32	£10.95
MO.4-24	24	9.60	9.30	10.40	10.80	10.40	3	£12.65	£11.30
MO.4-25	25	10.00	9.50	10.80	11.20	10.40	3	£12.93	£11.66
MO.4-26	26	10.40	9.70	11.20	11.60	10.40	3	£13.19	£12.06
MO.4-28	28	11.20	10.10	12.00	12.40	10.40	3	£13.48	£12.39
MO.4-30	30	12.00	10.50	12.80	13.20	8.00	3	£13.77	£12.75
MO.4-34	34	13.60	11.30	14.40	14.80	8.00	3	£14.06	£13.09
MO.4-35	35	14.00	11.50	14.80	15.20	8.00	3	£14.36	£13.46
MO.4-36	36	14.40	11.70	15.20	15.60	8.00	3	£14.67	£13.82
MO.4-38	38	15.20	12.10	16.00	16.40	8.00	3	£14.96	£14.15
MO.4-40	40	16.00	12.50	16.80	17.20	12.00	4	£15.18	£14.38
MO.4-44	44	17.60	13.30	18.40	18.80	12.00	4	£15.33	£14.50
MO.4-45	45	18.00	13.50	18.80	19.20	12.00	4	£15.36	£14.63
MO.4-46	46	18.40	13.70	19.20	19.60	12.00	4	£15.37	£14.68
MO.4-48	48	19.20	14.10	20.00	20.40	12.00	4	£15.39	£14.77
MO.4-50	50	20.00	14.50	20.80	21.20	12.00	4	£15.41	£14.90
MO.4-52	52	20.80	14.90	21.60	22.00	12.00	4	£15.49	£14.97
MO.4-54	54	21.60	15.30	22.40	22.80	12.00	4	£15.65	£15.07
MO.4-56	56	22.40	15.70	23.20	23.60	12.00	4	£15.74	£15.18
MO.4-58	58	23.20	16.10	24.00	24.40	12.00	4	£15.86	£15.33
MO.4-60	60	24.00	16.50	24.80	25.20	12.00	4	£15.95	£15.39
MO.4-62	62	24.80	16.90	25.60	26.00	12.00	4	£16.15	£15.47
MO.4-64	64	25.60	17.30	26.40	26.80	12.00	4	£16.32	£15.55
MO.4-68	68	27.20	18.10	28.00	28.40	12.00	4	£16.45	£15.65
MO.4-70	70	28.00	18.50	28.80	29.20	12.00	4	£16.55	£15.77
MO.4-72	72	28.80	18.90	29.60	30.00	12.00	5	£16.65	£15.83
MO.4-75	75	30.00	19.50	30.80	31.20	12.00	5	£16.73	£16.04
MO.4-76	76	30.40	19.70	31.20	31.60	12.00	5	£16.92	£16.22
MO.4-80	80	32.00	20.50	32.80	33.20	12.00	5	£16.99	£16.44
MO.4-84	84	33.60	21.30	34.40	34.80	12.00	5	£17.62	£16.60
MO.4-85	85	34.00	21.50	34.80	35.20	12.00	5	£18.18	£16.78
MO.4-86	86	34.40	21.70	35.20	35.60	12.00	5	£18.77	£16.98
MO.4-90	90	36.00	22.50	36.80	37.20	12.00	5	£19.36	£17.24
MO.4-92	92	36.80	22.90	37.60	38.00	12.00	5	£19.96	£17.37
MO.4-94	94	37.60	23.30	38.40	38.80	12.00	5	£20.56	£17.59
MO.4-96	96	38.40	23.70	39.20	39.60	12.00	5	£21.10	£17.80
MO.4-100	100	40.00	24.50	40.80	41.20	12.00	5	£21.68	£17.87
MO.4-110	110	44.00	26.50	44.80	45.20	12.00	5	£22.05	£19.07
MO.4-120	120	48.00	28.50	48.80	49.20	12.00	5	£24.45	£20.31
MO.4-130	130	52.00	30.50	52.80	53.20	12.00	5	£28.13	£21.58
MO.4-140	140	56.00	32.50	56.80	57.20	12.00	5	£32.02	£26.04
MO.4-150	150	60.00	34.50	60.80	61.20	20.00	5	£36.19	£30.50
MO.4-200	200	80.00	44.50	80.80	81.20	20.00	6	£60.54	£47.90
MO.4-300	300	120.00	64.50	120.80	121.20	20.00	6	£128.23	£85.45
MO.4-460	460	184.00	96.50	184.80	185.20	40.00	10	£267.50	£227.36

Worms & Wheels Bronze & Steel

MOD 0.4



Worms & Wheels

Materials

0.4 MOD, 1.257mm Pitch

STD : Delrin
Machined Parts



LEAD ANGLE
RIGHT HAND
STANDARD

DISCOUNTS

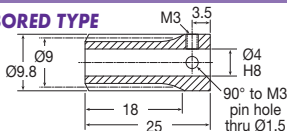
	List Price
1 - 5	- 22%
6 - 29	- 44%
30 - 99	- 47%
100 - 399	- 50%
400 - 999	- 53%
1000 - 5000	- 53%

20° Pressure Angle

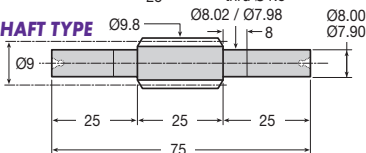
Worm

DELIN - Machined Parts

BORED TYPE



SHAFT TYPE



PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW0.4-1	1	2° 32'	£10.30
ZW0.4-2	2	5° 04'	£10.76
ZW0.4-3	3	7° 35'	£11.21
ZW0.4-4	4	10° 04'	£12.09

PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW0.4-1	1	2° 32'	£19.39
ZSW0.4-2	2	5° 04'	£20.70
ZSW0.4-3	3	7° 35'	£21.92
ZSW0.4-4	4	10° 04'	£22.66

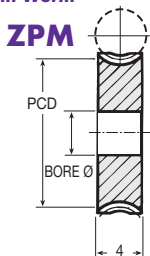
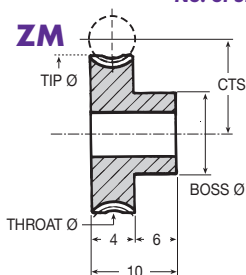
MOD 0.4

Worms & Wheels Plastic

Wheel

DELIN - Machined Parts

REDUCTION RATIO = $\frac{\text{No. of Teeth in Wheel}}{\text{No. of Starts in Worm}}$



Double Bossed Wheels Available @ Price x 1.4



LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	0.14	0.36
K.W.	0.0003	0.00075

Number of Teeth between **20 - 460**
See *Technical Section*

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZMO.4-20	20	8.00	8.50	8.80	9.20	8.80	3	£6.15	£4.73	
ZMO.4-24	24	9.60	9.30	10.40	10.80	10.40	3	£6.32	£4.79	
ZMO.4-25	25	10.00	9.50	10.80	11.20	10.40	3	£6.44	£4.97	
ZMO.4-26	26	10.40	9.70	11.20	11.60	10.40	3	£6.65	£5.06	
ZMO.4-28	28	11.20	10.10	12.00	12.40	10.40	3	£6.75	£5.12	
ZMO.4-30	30	12.00	10.50	12.80	13.20	8.00	3	£6.87	£5.25	
ZMO.4-34	34	13.60	11.30	14.40	14.80	8.00	3	£7.04	£5.46	
ZMO.4-35	35	14.00	11.50	14.80	15.20	8.00	3	£7.27	£5.50	
ZMO.4-36	36	14.40	11.70	15.20	15.60	8.00	3	£7.32	£5.58	
ZMO.4-38	38	15.20	12.10	16.00	16.40	8.00	3	£7.45	£5.73	
ZMO.4-40	40	16.00	12.50	16.80	17.20	12.00	4	£7.63	£5.81	
ZMO.4-44	44	17.60	13.30	18.40	18.80	12.00	4	£7.69	£5.83	
ZMO.4-45	45	18.00	13.50	18.80	19.20	12.00	4	£7.73	£5.90	
ZMO.4-46	46	18.40	13.70	19.20	19.60	12.00	4	£7.74	£5.91	
ZMO.4-48	48	19.20	14.10	20.00	20.40	12.00	4	£7.75	£5.95	
ZMO.4-50	50	20.00	14.50	20.80	21.20	12.00	4	£7.82	£6.03	
ZMO.4-52	52	20.80	14.90	21.60	22.00	12.00	4	£7.87	£6.06	
ZMO.4-54	54	21.60	15.30	22.40	22.80	12.00	4	£7.90	£6.07	
ZMO.4-56	56	22.40	15.70	23.20	23.60	12.00	4	£7.99	£6.08	
ZMO.4-58	58	23.20	16.10	24.00	24.40	12.00	4	£8.02	£6.15	
ZMO.4-60	60	24.00	16.50	24.80	25.20	12.00	4	£8.10	£6.16	
ZMO.4-62	62	24.80	16.90	25.60	26.00	12.00	4	£8.12	£6.20	
ZMO.4-64	64	25.60	17.30	26.40	26.80	12.00	4	£8.18	£6.30	
ZMO.4-68	68	27.20	18.10	28.00	28.40	12.00	4	£8.20	£6.31	
ZMO.4-70	70	28.00	18.50	28.80	29.20	12.00	4	£8.26	£6.32	
ZMO.4-72	72	28.80	18.90	29.60	30.00	12.00	5	£8.35	£6.38	
ZMO.4-75	75	30.00	19.50	30.80	31.20	12.00	5	£9.22	£7.04	
ZMO.4-76	76	30.40	19.70	31.20	31.60	12.00	5	£9.32	£7.10	
ZMO.4-80	80	32.00	20.50	32.80	33.20	12.00	5	£9.40	£7.14	
ZMO.4-84	84	33.60	21.30	34.40	34.80	12.00	5	£9.76	£7.40	
ZMO.4-85	85	34.00	21.50	34.80	35.20	12.00	5	£10.04	£7.69	
ZMO.4-86	86	34.40	21.70	35.20	35.60	12.00	5	£10.36	£7.90	
ZMO.4-90	90	36.00	22.50	36.80	37.20	12.00	5	£10.70	£8.18	
ZMO.4-92	92	36.80	22.90	37.60	38.00	12.00	5	£10.87	£8.45	
ZMO.4-94	94	37.60	23.30	38.40	38.80	12.00	5	£11.12	£8.67	
ZMO.4-96	96	38.40	23.70	39.20	39.60	12.00	5	£11.34	£9.47	
ZMO.4-100	100	40.00	24.50	40.80	41.20	12.00	5	£11.58	£10.30	
ZMO.4-110	110	44.00	26.50	44.80	45.20	12.00	5	£12.44	£10.79	
ZMO.4-120	120	48.00	28.50	48.80	49.20	12.00	5	£13.41	£11.12	
ZMO.4-130	130	52.00	30.50	52.80	53.20	12.00	5	£14.66	£11.73	
ZMO.4-140	140	56.00	32.50	56.80	57.20	12.00	5	£16.13	£12.34	
ZMO.4-150	150	60.00	34.50	60.80	61.20	20.00	5	£18.17	£13.95	
ZMO.4-200	200	80.00	44.50	80.80	81.20	20.00	6	£30.46	£23.37	
ZMO.4-300	300	120.00	64.50	120.80	121.20	20.00	6	£64.58	£49.22	
ZMO.4-460	460	184.00	96.50	184.80	185.20	40.00	10	£176.56	£150.06	



Worms & Wheels

Materials

0.5 MOD, 1.571mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

LEAD ANGLE
RIGHT HAND
STANDARD

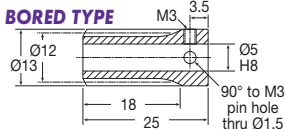
DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

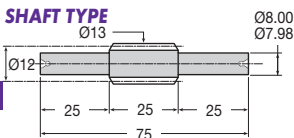
Worm

STEEL 214 M15 - En202

BORED TYPE



SHAFT TYPE



214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W0.5-1	£14.67	1	2°23'	WH0.5-1	£20.87
W0.5-2	£15.19	2	4°45'	WH0.5-2	£21.65
W0.5-3	£15.95	3	7°07'	WH0.5-3	£22.74
W0.5-4	£17.25	4	9°27'	WH0.5-4	£24.45

214M15 - EN202 HARDENED

214M15 - EN202 UNHARDENED

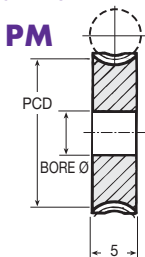
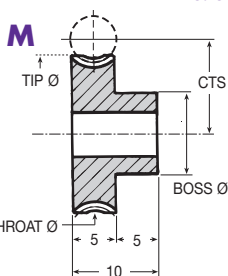
PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW0.5-1	£28.90	1	2°23'	SWH0.5-1	£41.10
SW0.5-2	£30.18	2	4°45'	SWH0.5-2	£42.87
SW0.5-3	£31.85	3	7°07'	SWH0.5-3	£45.25
SW0.5-4	£33.31	4	9°27'	SWH0.5-4	£47.40

655M13 - EN36 HARDENED

Wheel

PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double Bossed Wheels Available @ Price x 1.4

LEAD ANGLE RIGHT HAND STANDARD

Number of Teeth between **12 - 370**
 See **Technical Section**

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	1.01	1.86
K.W.	0.006	0.0039

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M0.5-12	12	6.00	9.00	7.00	7.50	5.00	3	£11.35	£10.62
M0.5-15	15	7.50	9.75	8.50	9.00	6.50	4	£12.06	£11.20
M0.5-18	18	9.00	10.50	10.00	10.50	6.50	4	£12.66	£11.77
M0.5-20	20	10.00	11.00	11.00	11.50	8.50	4	£13.30	£12.11
M0.5-22	22	11.00	11.50	12.00	12.50	8.50	4	£13.59	£12.40
M0.5-25	25	12.50	12.25	13.50	14.00	10.00	4	£14.25	£12.51
M0.5-28	28	14.00	13.00	15.00	15.50	10.00	4	£14.46	£12.62
M0.5-30	30	15.00	13.50	16.00	16.50	13.00	6	£14.51	£12.66
M0.5-32	32	16.00	14.00	17.00	17.50	13.00	6	£15.14	£12.78
M0.5-35	35	17.50	14.75	18.50	19.00	13.00	6	£15.77	£12.84
M0.5-38	38	19.00	15.50	20.00	20.50	13.00	6	£16.73	£14.12
M0.5-40	40	20.00	16.00	21.00	21.50	13.00	6	£17.67	£14.46
M0.5-42	42	21.00	16.50	22.00	22.50	13.00	6	£17.98	£14.61
M0.5-45	45	22.50	17.25	23.50	24.00	13.00	6	£18.24	£14.82
M0.5-48	48	24.00	18.00	25.00	25.50	13.00	6	£18.87	£15.50
M0.5-50	50	25.00	18.50	26.00	26.50	13.00	6	£19.13	£15.95
M0.5-52	52	26.00	19.00	27.00	27.50	13.00	6	£19.96	£16.65
M0.5-55	55	27.50	19.75	28.50	29.00	13.00	6	£20.55	£17.73
M0.5-58	58	29.00	20.50	30.00	30.50	13.00	6	£21.67	£18.98
M0.5-60	60	30.00	21.00	31.00	31.50	13.00	6	£22.51	£20.64
M0.5-62	62	31.00	21.50	32.00	32.50	13.00	6	£23.39	£20.95
M0.5-65	65	32.50	22.25	33.50	34.00	13.00	6	£24.24	£21.33
M0.5-68	68	34.00	23.00	35.00	35.50	13.00	6	£25.12	£21.85
M0.5-70	70	35.00	23.50	36.00	36.50	13.00	6	£26.00	£23.30
M0.5-72	72	36.00	24.00	37.00	37.50	13.00	6	£26.86	£24.07
M0.5-75	75	37.50	24.75	38.50	39.00	13.00	6	£27.74	£24.76
M0.5-78	78	39.00	25.50	40.00	40.50	13.00	6	£28.66	£26.22
M0.5-80	80	40.00	26.00	41.00	41.50	13.00	6	£29.60	£26.80
M0.5-82	82	41.00	26.50	42.00	42.50	13.00	6	£30.48	£28.97
M0.5-85	85	42.50	27.25	43.50	44.00	13.00	6	£34.61	£31.22
M0.5-88	88	44.00	28.00	45.00	45.50	13.00	6	£35.51	£31.43
M0.5-90	90	45.00	28.50	46.00	46.50	13.00	6	£39.68	£36.93
M0.5-92	92	46.00	29.00	47.00	47.50	13.00	6	£40.58	£37.76
M0.5-95	95	47.50	29.75	48.50	49.00	13.00	6	£41.52	£38.59
M0.5-96	96	48.00	30.00	49.00	49.50	13.00	6	£42.40	£39.47
M0.5-98	98	49.00	30.50	50.00	50.50	13.00	6	£44.80	£41.66
M0.5-100	100	50.00	31.00	51.00	51.50	13.00	6	£47.15	£43.86
M0.5-110	110	55.00	33.50	56.00	56.50	13.00	6	£49.08	£45.68
M0.5-120	120	60.00	36.00	61.00	61.50	13.00	6	£50.09	£46.52
M0.5-140	140	70.00	41.00	71.00	71.50	13.00	6	£51.96	£48.35
M0.5-150	150	75.00	43.50	76.00	76.50	13.00	6	£52.88	£49.23
M0.5-160	160	80.00	46.00	81.00	81.50	13.00	6	£60.40	£50.10
M0.5-180	180	90.00	51.00	91.00	91.50	13.00	6	£75.75	£65.32
M0.5-200	200	100.00	56.00	101.00	101.50	13.00	6	£94.50	£77.18
M0.5-370	370	185.00	98.50	186.00	186.50	50.00	15	£304.02	£258.43



Worms & Wheels

Materials

0.5 MOD, 1.571mm Pitch

STD : Delrin
Machined Parts



20° Pressure Angle

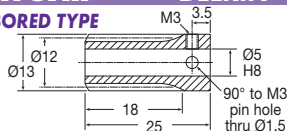
LEAD ANGLE
RIGHT HAND
STANDARD

DISCOUNTS

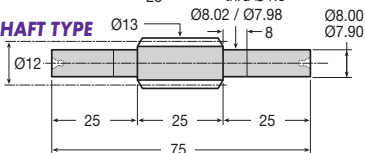
Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

BORED TYPE



SHAFT TYPE



PLASTIC

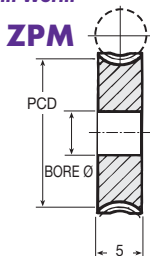
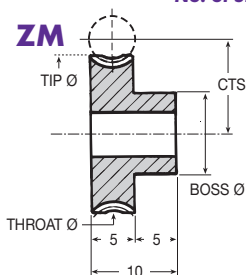
PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW0.5-1	1	2°23'	£10.30
ZW0.5-2	2	4°45'	£10.76
ZW0.5-3	3	7°07'	£11.21
ZW0.5-4	4	9°27'	£12.09

PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW0.5-1	1	2°23'	£20.37
ZSW0.5-2	2	4°45'	£21.27
ZSW0.5-3	3	7°07'	£22.44
ZSW0.5-4	4	9°27'	£23.55

Wheel DELRIN - Machined Parts

REDUCTION RATIO = $\frac{\text{No. of Teeth in Wheel}}{\text{No. of Starts in Worm}}$



Double
Bossed
Wheels
Available @
Price x 1.4

Worms & Wheels Plastic

15.8



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	0.25	0.65
K.W.	0.0005	0.0014

Number of Teeth between **12 - 370**
See Technical Section

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM0.5-12	12	6.00	9.00	7.00	7.50	5.00	3	£5.73	£4.35	
ZM0.5-15	15	7.50	9.75	8.50	9.00	6.50	4	£6.03	£4.59	
ZM0.5-18	18	9.00	10.50	10.00	10.50	6.50	4	£6.32	£4.83	
ZM0.5-20	20	10.00	11.00	11.00	11.50	8.50	4	£6.68	£5.09	
ZM0.5-22	22	11.00	11.50	12.00	12.50	8.50	4	£6.77	£5.22	
ZM0.5-25	25	12.50	12.25	13.50	14.00	10.00	4	£7.10	£5.48	
ZM0.5-28	28	14.00	13.00	15.00	15.50	10.00	4	£7.27	£5.53	
ZM0.5-30	30	15.00	13.50	16.00	16.50	13.00	6	£7.28	£5.54	
ZM0.5-32	32	16.00	14.00	17.00	17.50	13.00	6	£7.63	£5.81	
ZM0.5-35	35	17.50	14.75	18.50	19.00	13.00	6	£7.87	£6.06	
ZM0.5-38	38	19.00	15.50	20.00	20.50	13.00	6	£8.38	£6.40	
ZM0.5-40	40	20.00	16.00	21.00	21.50	13.00	6	£8.87	£6.75	
ZM0.5-42	42	21.00	16.50	22.00	22.50	13.00	6	£8.96	£6.87	
ZM0.5-45	45	22.50	17.25	23.50	24.00	13.00	6	£9.15	£7.02	
ZM0.5-48	48	24.00	18.00	25.00	25.50	13.00	6	£9.47	£7.27	
ZM0.5-50	50	25.00	18.50	26.00	26.50	13.00	6	£9.60	£7.32	
ZM0.5-52	52	26.00	19.00	27.00	27.50	13.00	6	£10.01	£7.69	
ZM0.5-55	55	27.50	19.75	28.50	29.00	13.00	6	£10.30	£7.87	
ZM0.5-58	58	29.00	20.50	30.00	30.50	13.00	6	£10.87	£8.35	
ZM0.5-60	60	30.00	21.00	31.00	31.50	13.00	6	£12.44	£9.55	
ZM0.5-62	62	31.00	21.50	32.00	32.50	13.00	6	£12.94	£9.93	
ZM0.5-65	65	32.50	22.25	33.50	34.00	13.00	6	£13.41	£10.25	
ZM0.5-68	68	34.00	23.00	35.00	35.50	13.00	6	£13.93	£10.65	
ZM0.5-70	70	35.00	23.50	36.00	36.50	13.00	6	£14.38	£10.99	
ZM0.5-72	72	36.00	24.00	37.00	37.50	13.00	6	£14.83	£11.34	
ZM0.5-75	75	37.50	24.75	38.50	39.00	13.00	6	£15.38	£11.76	
ZM0.5-78	78	39.00	25.50	40.00	40.50	13.00	6	£15.86	£12.09	
ZM0.5-80	80	40.00	26.00	41.00	41.50	13.00	6	£18.61	£14.27	
ZM0.5-82	82	41.00	26.50	42.00	42.50	13.00	6	£19.14	£14.68	
ZM0.5-85	85	42.50	27.25	43.50	44.00	13.00	6	£21.74	£16.72	
ZM0.5-88	88	44.00	28.00	45.00	45.50	13.00	6	£22.36	£17.13	
ZM0.5-90	90	45.00	28.50	46.00	46.50	13.00	6	£24.96	£19.14	
ZM0.5-92	92	46.00	29.00	47.00	47.50	13.00	6	£25.58	£19.61	
ZM0.5-95	95	47.50	29.75	48.50	49.00	13.00	6	£26.11	£19.97	
ZM0.5-96	96	48.00	30.00	49.00	49.50	13.00	6	£26.68	£20.44	
ZM0.5-98	98	49.00	30.50	50.00	50.50	13.00	6	£28.20	£21.62	
ZM0.5-100	100	50.00	31.00	51.00	51.50	13.00	6	£29.69	£22.76	
ZM0.5-110	110	55.00	33.50	56.00	56.50	13.00	6	£30.88	£23.68	
ZM0.5-120	120	60.00	36.00	61.00	61.50	13.00	6	£31.54	£24.16	
ZM0.5-140	140	70.00	41.00	71.00	71.50	13.00	6	£32.72	£25.11	
ZM0.5-150	150	75.00	43.50	76.00	76.50	13.00	6	£33.28	£25.58	
ZM0.5-160	160	80.00	46.00	81.00	81.50	13.00	6	£38.05	£29.13	
ZM0.5-180	180	90.00	51.00	91.00	91.50	13.00	6	£47.67	£36.55	
ZM0.5-200	200	100.00	56.00	101.00	101.50	13.00	6	£59.49	£45.68	
ZM0.5-370	370	185.00	98.50	186.00	186.50	50.00	15	£184.63	£156.93	



Worms & Wheels

Materials

0.8 MOD, 2.513mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

LEAD ANGLE
RIGHT HAND
STANDARD

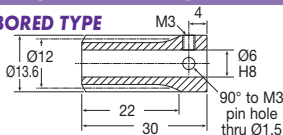
DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm

STEEL 214 M15 - En202

BORED TYPE

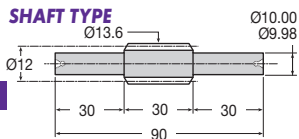


214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W0.8-1	£16.77	1	3°48'	WH0.8-1	£23.87
W0.8-2	£17.51	2	7°35'	WH0.8-2	£24.89
W0.8-3	£19.00	3	11°18'	WH0.8-3	£27.05
W0.8-4	£20.59	4	14°55'	WH0.8-4	£29.27

214M15 - EN202 HARDENED

SHAFT TYPE



214M15 - EN202 UNHARDENED

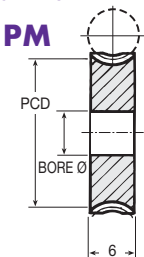
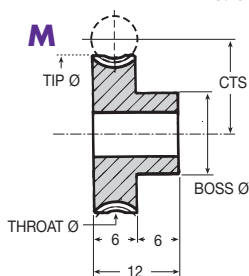
PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW0.8-1	£28.90	1	3°48'	SWH0.8-1	£41.10
SW0.8-2	£30.41	2	7°35'	SWH0.8-2	£43.21
SW0.8-3	£31.85	3	11°18'	SWH0.8-3	£45.25
SW0.8-4	£33.31	4	14°55'	SWH0.8-4	£47.40

655M13 - EN36 HARDENED

Wheel

PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double Bossed Wheels Available @ Price x 1.4

Steel MOD 0.8 Worms & Wheels Bronze &

15.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

Number of Teeth between 12 - 230
See Technical Section

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	2.82	5.26
K.W.	0.006	0.011

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M0.8-12	12	9.60	10.80	11.20	12.00	8	5	£12.32	£11.28
M0.8-15	15	12.00	12.00	13.60	14.40	10	5	£13.40	£11.81
M0.8-16	16	12.80	12.40	14.40	15.20	10	5	£14.32	£12.22
M0.8-18	18	14.40	13.20	16.00	16.80	10	5	£15.02	£12.79
M0.8-20	20	16.00	14.00	17.60	18.40	12	5	£15.23	£13.59
M0.8-22	22	17.60	14.80	19.20	20.00	12	5	£16.04	£14.20
M0.8-24	24	19.20	15.60	20.80	21.60	12	5	£16.55	£14.72
M0.8-25	25	20.00	16.00	21.60	22.40	16	8	£17.38	£15.19
M0.8-28	28	22.40	17.20	24.00	24.80	16	8	£18.05	£15.70
M0.8-30	30	24.00	18.00	25.60	26.40	16	8	£18.77	£15.95
M0.8-32	32	25.60	18.80	27.20	28.00	16	8	£19.42	£16.78
M0.8-34	34	27.20	19.60	28.80	29.60	20	8	£20.55	£17.90
M0.8-35	35	28.00	20.00	29.60	30.40	20	8	£21.42	£18.37
M0.8-38	38	30.40	21.20	32.00	32.80	20	8	£22.00	£18.83
M0.8-40	40	32.00	22.00	33.60	34.40	20	8	£23.22	£19.96
M0.8-42	42	33.60	22.80	35.20	36.00	20	8	£24.88	£20.37
M0.8-44	44	35.20	23.60	36.80	37.60	20	8	£26.74	£21.15
M0.8-45	45	36.00	24.00	37.60	38.40	20	8	£27.88	£21.96
M0.8-48	48	38.40	25.20	40.00	40.80	20	8	£28.99	£23.31
M0.8-50	50	40.00	26.00	41.60	42.40	20	8	£31.29	£25.66
M0.8-52	52	41.60	26.80	43.20	44.00	20	8	£32.60	£27.98
M0.8-54	54	43.20	27.60	44.80	45.60	20	8	£34.99	£31.43
M0.8-55	55	44.00	28.00	45.60	46.40	20	8	£38.85	£35.10
M0.8-58	58	46.40	29.20	48.00	48.80	20	8	£44.30	£38.93
M0.8-60	60	48.00	30.00	49.60	50.40	20	8	£47.90	£43.13
M0.8-62	62	49.60	30.80	51.20	52.00	20	8	£48.76	£43.62
M0.8-64	64	51.20	31.60	52.80	53.60	20	8	£49.49	£44.62
M0.8-65	65	52.00	32.00	53.60	54.40	20	8	£49.65	£44.68
M0.8-68	68	54.40	33.20	56.00	56.80	20	8	£49.82	£44.88
M0.8-70	70	56.00	34.00	57.60	58.40	20	8	£49.97	£45.02
M0.8-72	72	57.60	34.80	59.20	60.00	20	8	£50.57	£45.47
M0.8-75	75	60.00	36.00	61.60	62.40	20	8	£51.03	£45.90
M0.8-78	78	62.40	37.20	64.00	64.80	20	8	£51.46	£46.27
M0.8-80	80	64.00	38.00	65.60	66.40	20	8	£51.96	£46.74
M0.8-82	82	65.60	38.80	67.20	68.00	20	8	£53.67	£48.34
M0.8-85	85	68.00	40.00	69.60	70.40	20	8	£55.47	£49.87
M0.8-88	88	70.40	41.20	72.00	72.80	20	8	£57.23	£51.46
M0.8-90	90	72.00	42.00	73.60	74.40	20	8	£59.16	£53.20
M0.8-94	94	75.20	43.60	76.80	77.60	20	8	£61.19	£55.04
M0.8-96	96	76.80	44.40	78.40	79.20	20	8	£63.12	£56.82
M0.8-100	100	80.00	46.00	81.60	82.40	20	8	£64.94	£60.40
M0.8-110	110	88.00	50.00	89.60	90.40	20	8	£79.95	£67.74
M0.8-120	120	96.00	54.00	97.60	98.40	20	8	£95.64	£79.54
M0.8-150	150	120.00	66.00	121.60	122.40	20	8	£142.53	£99.72
M0.8-230	230	184.00	98.00	185.60	186.40	50	15	£327.57	£278.38



Worms & Wheels

0.8 MOD, 2.513mm Pitch

Materials

STD : Delrin
Machined Parts



20° Pressure Angle

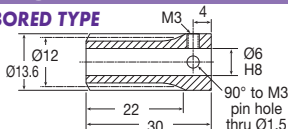
**LEAD ANGLE
RIGHT HAND
STANDARD**

DISCOUNTS

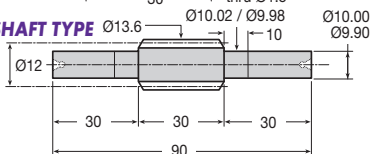
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

BORED TYPE



SHAFT TYPE



PLASTIC

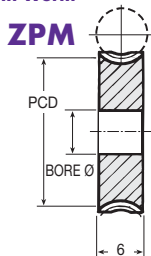
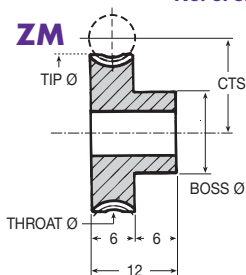
PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW0.8-1	1	3°48'	£11.81
ZW0.8-2	2	7°35'	£12.32
ZW0.8-3	3	11°18'	£13.37
ZW0.8-4	4	14°55'	£14.46

PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW0.8-1	1	3°48'	£20.35
ZSW0.8-2	2	7°35'	£21.37
ZSW0.8-3	3	11°18'	£22.38
ZSW0.8-4	4	14°55'	£23.45

Wheel DELRIN - Machined Parts

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

MOD 0.8

Worms & Wheels Plastic

15.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	0.7	1.84
K.W.	0.0015	0.0039

Number of Teeth between **12 - 230**
See *Technical Section*

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM0.8-12	12	9.60	10.80	11.20	12.00	8	5	£6.15	£4.73	
ZM0.8-15	15	12.00	12.00	13.60	14.40	10	5	£6.70	£5.09	
ZM0.8-16	16	12.80	12.40	14.40	15.20	10	5	£7.14	£5.48	
ZM0.8-18	18	14.40	13.20	16.00	16.80	10	5	£7.49	£5.76	
ZM0.8-20	20	16.00	14.00	17.60	18.40	12	5	£7.64	£5.83	
ZM0.8-22	22	17.60	14.80	19.20	20.00	12	5	£8.02	£6.08	
ZM0.8-24	24	19.20	15.60	20.80	21.60	12	5	£8.26	£6.32	
ZM0.8-25	25	20.00	16.00	21.60	22.40	16	8	£8.73	£6.68	
ZM0.8-28	28	22.40	17.20	24.00	24.80	16	8	£9.04	£6.95	
ZM0.8-30	30	24.00	18.00	25.60	26.40	16	8	£9.40	£7.27	
ZM0.8-32	32	25.60	18.80	27.20	28.00	16	8	£9.76	£7.45	
ZM0.8-34	34	27.20	19.60	28.80	29.60	20	8	£10.30	£7.87	
ZM0.8-35	35	28.00	20.00	29.60	30.40	20	8	£10.76	£8.20	
ZM0.8-38	38	30.40	21.20	32.00	32.80	20	8	£12.16	£9.30	
ZM0.8-40	40	32.00	22.00	33.60	34.40	20	8	£12.83	£9.82	
ZM0.8-42	42	33.60	22.80	35.20	36.00	20	8	£13.75	£10.54	
ZM0.8-44	44	35.20	23.60	36.80	37.60	20	8	£14.76	£11.29	
ZM0.8-45	45	36.00	24.00	37.60	38.40	20	8	£15.40	£11.84	
ZM0.8-48	48	38.40	25.20	40.00	40.80	20	8	£15.98	£12.24	
ZM0.8-50	50	40.00	26.00	41.60	42.40	20	8	£19.69	£15.11	
ZM0.8-52	52	41.60	26.80	43.20	44.00	20	8	£20.55	£15.71	
ZM0.8-54	54	43.20	27.60	44.80	45.60	20	8	£22.01	£16.85	
ZM0.8-55	55	44.00	28.00	45.60	46.40	20	8	£24.45	£18.74	
ZM0.8-58	58	46.40	29.20	48.00	48.80	20	8	£27.91	£21.37	
ZM0.8-60	60	48.00	30.00	49.60	50.40	20	8	£30.13	£23.10	
ZM0.8-62	62	49.60	30.80	51.20	52.00	20	8	£30.72	£23.49	
ZM0.8-64	64	51.20	31.60	52.80	53.60	20	8	£31.16	£23.89	
ZM0.8-65	65	52.00	32.00	53.60	54.40	20	8	£31.29	£23.92	
ZM0.8-68	68	54.40	33.20	56.00	56.80	20	8	£31.34	£24.07	
ZM0.8-70	70	56.00	34.00	57.60	58.40	20	8	£31.47	£24.10	
ZM0.8-72	72	57.60	34.80	59.20	60.00	20	8	£31.82	£24.40	
ZM0.8-75	75	60.00	36.00	61.60	62.40	20	8	£32.14	£24.66	
ZM0.8-78	78	62.40	37.20	64.00	64.80	20	8	£32.40	£24.81	
ZM0.8-80	80	64.00	38.00	65.60	66.40	20	8	£32.72	£25.11	
ZM0.8-82	82	65.60	38.80	67.20	68.00	20	8	£33.78	£25.93	
ZM0.8-85	85	68.00	40.00	69.60	70.40	20	8	£34.93	£26.71	
ZM0.8-88	88	70.40	41.20	72.00	72.80	20	8	£36.00	£27.62	
ZM0.8-90	90	72.00	42.00	73.60	74.40	20	8	£37.29	£28.58	
ZM0.8-94	94	75.20	43.60	76.80	77.60	20	8	£38.55	£29.54	
ZM0.8-96	96	76.80	44.40	78.40	79.20	20	8	£39.74	£30.50	
ZM0.8-100	100	80.00	46.00	81.60	82.40	20	8	£40.88	£31.34	
ZM0.8-110	110	88.00	50.00	89.60	90.40	20	8	£50.36	£38.65	
ZM0.8-120	120	96.00	54.00	97.60	98.40	20	8	£60.21	£46.21	
ZM0.8-150	150	120.00	66.00	121.60	122.40	20	8	£89.78	£68.86	
ZM0.8-230	230	184.00	98.00	185.60	186.40	50	15	£197.64	£167.98	



Worms & Wheels

Materials

1 MOD, 3.142mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

**LEAD ANGLE
RIGHT HAND
STANDARD**

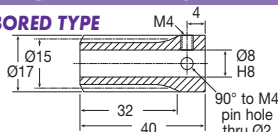
DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm

STEEL 214 M15 - En202

BORED TYPE



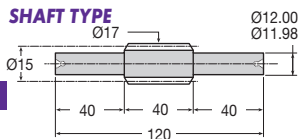
214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W1-1	£19.33	1	3°48'	WH1-1	£27.53
W1-2	£20.42	2	7°35'	WH1-2	£29.05
W1-3	£22.44	3	11°18'	WH1-3	£31.90
W1-4	£23.43	4	14°56'	WH1-4	£33.31

214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W1-1	£19.33	1	3°48'	WH1-1	£27.53
W1-2	£20.42	2	7°35'	WH1-2	£29.05
W1-3	£22.44	3	11°18'	WH1-3	£31.90
W1-4	£23.43	4	14°56'	WH1-4	£33.31

SHAFT TYPE



214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW1-1	£35.70	1	3°48'	SWH1-1	£50.68
SW1-2	£36.67	2	7°35'	SWH1-2	£52.10
SW1-3	£39.18	3	11°18'	SWH1-3	£55.57
SW1-4	£39.72	4	14°56'	SWH1-4	£56.45

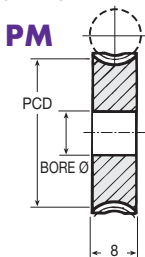
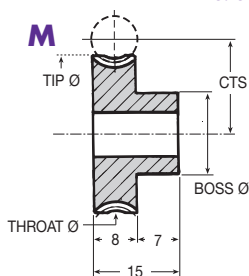
655M13 - EN36 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW1-1	£35.70	1	3°48'	SWH1-1	£50.68
SW1-2	£36.67	2	7°35'	SWH1-2	£52.10
SW1-3	£39.18	3	11°18'	SWH1-3	£55.57
SW1-4	£39.72	4	14°56'	SWH1-4	£56.45

Wheel

PHOSPHOR BRONZE - PB2

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

Worms & Wheels Bronze & Steel MOD 1

15.14



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Wheels - PHOSPHOR BRONZE PB2

1 MOD**LEAD ANGLE RIGHT HAND STANDARD**

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	5.87	10.06
K.W.	0.012	0.021

Number of Teeth between **12 - 184**
See Technical Section

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M1-12	12	12	13.50	14	15	14	6	£19.42	£16.68
M1-15	15	15	15.00	17	18	15	6	£20.11	£18.69
M1-16	16	16	15.50	18	19	15	6	£20.59	£19.27
M1-18	18	18	16.50	20	21	15	6	£20.95	£19.85
M1-20	20	20	17.50	22	23	15	6	£21.15	£20.46
M1-22	22	22	18.50	24	25	15	6	£21.48	£21.17
M1-24	24	24	19.50	26	27	20	8	£22.30	£21.92
M1-25	25	25	20.00	27	28	20	8	£23.26	£22.29
M1-28	28	28	21.50	30	31	20	8	£24.13	£22.30
M1-30	30	30	22.50	32	33	25	8	£24.89	£23.22
M1-32	32	32	23.50	34	35	25	8	£26.16	£23.88
M1-34	34	34	24.50	36	37	25	8	£27.43	£26.54
M1-35	35	35	25.00	37	38	25	8	£30.09	£27.53
M1-38	38	38	26.50	40	41	25	8	£30.44	£28.78
M1-40	40	40	27.50	42	43	25	8	£35.33	£30.04
M1-42	42	42	28.50	44	45	25	8	£36.19	£30.73
M1-44	44	44	29.50	46	47	25	8	£40.17	£31.29
M1-45	45	45	30.00	47	48	25	8	£40.98	£31.96
M1-48	48	48	31.50	50	51	25	10	£43.86	£34.21
M1-50	50	50	32.50	52	53	25	10	£47.20	£36.91
M1-52	52	52	33.50	54	55	25	10	£47.98	£37.44
M1-54	54	54	34.50	56	57	25	10	£48.80	£38.05
M1-55	55	55	35.00	57	58	25	10	£49.60	£38.65
M1-58	58	58	36.50	60	61	25	10	£50.82	£39.63
M1-60	60	60	37.50	62	63	25	10	£51.97	£40.56
M1-62	62	62	38.50	64	65	25	10	£53.45	£41.66
M1-64	64	64	39.50	66	67	25	10	£54.89	£42.76
M1-65	65	65	40.00	67	68	25	10	£56.25	£43.86
M1-68	68	68	41.50	70	71	25	10	£58.18	£45.62
M1-70	70	70	42.50	72	73	25	10	£60.72	£47.35
M1-72	72	72	43.50	74	75	25	10	£62.21	£48.76
M1-75	75	75	45.00	77	78	25	10	£63.63	£50.09
M1-78	78	78	46.50	80	81	25	10	£67.81	£53.38
M1-80	80	80	47.50	82	83	25	10	£77.19	£54.28
M1-82	82	82	48.50	84	85	25	10	£80.53	£55.86
M1-85	85	85	50.00	87	88	25	10	£85.86	£60.80
M1-88	88	88	51.50	90	91	25	10	£92.11	£64.19
M1-90	90	90	52.50	92	93	25	10	£95.93	£66.89
M1-94	94	94	54.50	96	97	25	10	£104.72	£71.91
M1-96	96	96	55.50	98	99	25	10	£110.31	£76.91
M1-100	100	100	57.50	102	103	25	10	£115.85	£82.02
M1-110	110	110	62.50	112	113	30	10	£139.25	£96.82
M1-120	120	120	67.50	122	123	30	10	£163.89	£113.97
M1-150	150	150	82.50	152	153	30	10	£249.78	£173.72
M1-184	184	184	99.50	186	187	50	15	£332.19	£282.34

Worms & Wheels Bronze & Steel**MOD 1**

Worms & Wheels

Materials

1 MOD, 3.142mm Pitch

STD : Delrin
Machined Parts



20° Pressure Angle

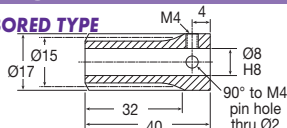
LEAD ANGLE
RIGHT HAND
STANDARD

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

BORED TYPE

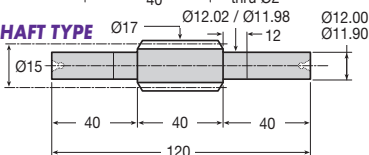


PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW1-1	1	3°48'	£13.64
ZW1-2	2	7°35'	£14.38
ZW1-3	3	11°18'	£15.82
ZW1-4	4	14°56'	£16.48

MOD 1

SHAFT TYPE

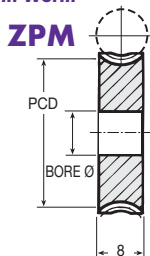
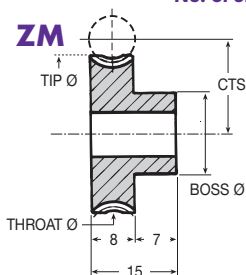


PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW1-1	1	3°48'	£25.18
ZSW1-2	2	7°35'	£25.81
ZSW1-3	3	11°18'	£27.60
ZSW1-4	4	14°56'	£27.99

Wheel DELRIN - Machined Parts

REDUCTION RATIO = $\frac{\text{No. of Teeth in Wheel}}{\text{No. of Starts in Worm}}$



Double
Bossed
Wheels
Available @
Price x 1.4

Worms & Wheels Plastic

15.16



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	1.32	3.42
K.W.	0.0027	0.0072

Number of Teeth between **12 - 184**
See **Technical Section**

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM1-12	12	12	13.50	14	15	14	6	£9.76		£7.45
ZM1-15	15	15	15.00	17	18	15	6	£10.08		£7.73
ZM1-16	16	16	15.50	18	19	15	6	£10.30		£7.87
ZM1-18	18	18	16.50	20	21	15	6	£10.50		£8.02
ZM1-20	20	20	17.50	22	23	15	6	£10.62		£8.12
ZM1-22	22	22	18.50	24	25	15	6	£10.76		£8.20
ZM1-24	24	24	19.50	26	27	20	8	£11.21		£8.59
ZM1-25	25	25	20.00	27	28	20	8	£11.65		£8.93
ZM1-28	28	28	21.50	30	31	20	8	£12.09		£9.30
ZM1-30	30	30	22.50	32	33	25	8	£13.78		£10.54
ZM1-32	32	32	23.50	34	35	25	8	£14.50		£11.12
ZM1-34	34	34	24.50	36	37	25	8	£15.20		£11.59
ZM1-35	35	35	25.00	37	38	25	8	£16.81		£12.84
ZM1-38	38	38	26.50	40	41	25	8	£17.76		£13.58
ZM1-40	40	40	27.50	42	43	25	8	£22.26		£17.06
ZM1-42	42	42	28.50	44	45	25	8	£22.74		£17.43
ZM1-44	44	44	29.50	46	47	25	8	£25.30		£19.36
ZM1-45	45	45	30.00	47	48	25	8	£25.79		£19.72
ZM1-48	48	48	31.50	50	51	25	10	£27.60		£21.15
ZM1-50	50	50	32.50	52	53	25	10	£29.69		£22.76
ZM1-52	52	52	33.50	54	55	25	10	£30.20		£23.10
ZM1-54	54	54	34.50	56	57	25	10	£30.74		£23.55
ZM1-55	55	55	35.00	57	58	25	10	£31.21		£23.92
ZM1-58	58	58	36.50	60	61	25	10	£31.96		£24.54
ZM1-60	60	60	37.50	62	63	25	10	£32.72		£25.11
ZM1-62	62	62	38.50	64	65	25	10	£33.62		£25.79
ZM1-64	64	64	39.50	66	67	25	10	£34.55		£26.48
ZM1-65	65	65	40.00	67	68	25	10	£35.44		£27.21
ZM1-68	68	68	41.50	70	71	25	10	£36.62		£28.04
ZM1-70	70	70	42.50	72	73	25	10	£38.17		£29.30
ZM1-72	72	72	43.50	74	75	25	10	£39.15		£30.08
ZM1-75	75	75	45.00	77	78	25	10	£41.36		£30.74
ZM1-78	78	78	46.50	80	81	25	10	£42.67		£32.72
ZM1-80	80	80	47.50	82	83	25	10	£48.61		£37.29
ZM1-82	82	82	48.50	84	85	25	10	£50.70		£38.90
ZM1-85	85	85	50.00	87	88	25	10	£54.13		£41.47
ZM1-88	88	88	51.50	90	91	25	10	£58.01		£44.50
ZM1-90	90	90	52.50	92	93	25	10	£60.42		£46.30
ZM1-94	94	94	54.50	96	97	25	10	£65.97		£50.64
ZM1-96	96	96	55.50	98	99	25	10	£69.48		£53.29
ZM1-100	100	100	57.50	102	103	25	10	£73.00		£56.00
ZM1-110	110	110	62.50	112	113	30	10	£87.74		£67.30
ZM1-120	120	120	67.50	122	123	30	10	£103.27		£79.21
ZM1-150	150	150	82.50	152	153	30	10	£157.38		£120.76
ZM1-184	184	184	99.50	186	187	50	15	£209.34		£177.93

Worms & Wheels Plastic MOD 1



Worms & Wheels

Materials

1.25 MOD, 3.927mm Pitch STD : Phosphor Bronze PB2 and Steel 214M15 / 655M13



20° Pressure Angle

**LEAD ANGLE
RIGHT HAND
STANDARD**

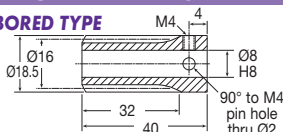
DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm

STEEL 214 M15 - En202

BORED TYPE



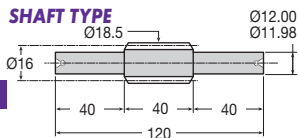
214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W1.25-1	£19.33	1	4°28'	WH1.25-1	£27.53
W1.25-2	£20.42	2	8°53'	WH1.25-2	£29.05
W1.25-3	£22.44	3	13°11'	WH1.25-3	£31.90
W1.25-4	£23.43	4	17°21'	WH1.25-4	£33.31

214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW1.25-1	£35.70	1	4°28'	SWH1.25-1	£50.68
SW1.25-2	£36.67	2	8°53'	SWH1.25-2	£52.10
SW1.25-3	£39.18	3	13°11'	SWH1.25-3	£55.57
SW1.25-4	£39.72	4	17°21'	SWH1.25-4	£56.45

SHAFT TYPE



214M15 - EN202 UNHARDENED

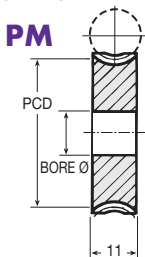
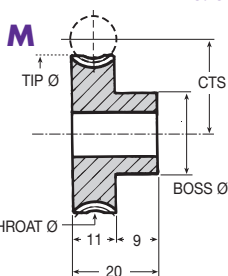
PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW1.25-1	£35.70	1	4°28'	SWH1.25-1	£50.68
SW1.25-2	£36.67	2	8°53'	SWH1.25-2	£52.10
SW1.25-3	£39.18	3	13°11'	SWH1.25-3	£55.57
SW1.25-4	£39.72	4	17°21'	SWH1.25-4	£56.45

655M13 - EN36 HARDENED

Wheel

PHOSPHOR BRONZE - PB2

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

Wheels - PHOSPHOR BRONZE PB2

1.25 MOD

LEAD ANGLE RIGHT HAND STANDARD

Number of Teeth between 12 - 148 See Technical Section

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	11.41	20.25
K.W.	0.024	0.042

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M1.25-12	12	15.00	15.50	17.50	18.75	14	8	£21.10	£15.82
M1.25-15	15	18.75	17.38	21.25	22.50	14	8	£22.21	£16.49
M1.25-16	16	20.00	18.00	22.50	23.75	14	8	£22.99	£16.99
M1.25-18	18	22.50	19.25	25.00	26.25	20	10	£23.89	£17.62
M1.25-20	20	25.00	20.50	27.50	28.75	20	10	£24.37	£18.23
M1.25-22	22	27.50	21.75	30.00	31.25	20	10	£26.54	£19.29
M1.25-24	24	30.00	23.00	32.50	33.75	20	10	£27.39	£19.85
M1.25-25	25	31.25	23.63	33.75	35.00	20	10	£28.15	£20.42
M1.25-28	28	35.00	25.50	37.50	38.75	25	10	£29.16	£21.06
M1.25-30	30	37.50	26.75	40.00	41.25	25	10	£30.44	£21.91
M1.25-32	32	40.00	28.00	42.50	43.75	25	10	£32.02	£22.85
M1.25-34	34	42.50	29.25	45.00	46.25	25	10	£34.56	£23.30
M1.25-35	35	43.75	29.88	46.25	47.50	25	10	£36.97	£23.93
M1.25-38	38	47.50	31.75	50.00	51.25	25	10	£39.38	£25.59
M1.25-40	40	50.00	33.00	52.50	53.75	25	10	£40.17	£27.68
M1.25-42	42	52.50	34.25	55.00	56.25	25	10	£44.27	£29.85
M1.25-44	44	55.00	35.50	57.50	58.75	25	10	£47.09	£32.70
M1.25-45	45	56.25	36.13	58.75	60.00	25	10	£50.45	£33.90
M1.25-48	48	60.00	38.00	62.50	63.75	25	10	£56.25	£37.68
M1.25-50	50	62.50	39.25	65.00	66.25	25	10	£60.45	£41.45
M1.25-52	52	65.00	40.50	67.50	68.75	32	12	£64.84	£43.97
M1.25-54	54	67.50	41.75	70.00	71.25	32	12	£70.28	£47.29
M1.25-55	55	68.75	42.38	71.25	72.50	32	12	£71.49	£48.61
M1.25-58	58	72.50	44.25	75.00	76.25	32	12	£79.43	£53.19
M1.25-60	60	75.00	45.50	77.50	78.75	32	12	£83.86	£56.88
M1.25-62	62	77.50	46.75	80.00	81.25	32	12	£88.73	£60.36
M1.25-64	64	80.00	48.00	82.50	83.75	32	12	£94.23	£63.76
M1.25-65	65	81.25	48.63	83.75	85.00	32	12	£96.98	£65.74
M1.25-68	68	85.00	50.50	87.50	88.75	32	12	£105.31	£71.44
M1.25-70	70	87.50	51.75	90.00	91.25	32	12	£111.02	£75.34
M1.25-72	72	90.00	53.00	92.50	93.75	32	12	£116.95	£78.73
M1.25-74	74	92.50	54.25	95.00	96.25	32	12	£123.00	£84.62
M1.25-75	75	93.75	54.88	96.25	97.50	32	12	£126.26	£86.09
M1.25-78	78	97.50	56.75	100.00	101.25	32	12	£135.53	£91.92
M1.25-80	80	100.00	58.00	102.50	103.75	32	12	£142.04	£97.14
M1.25-82	82	102.50	59.25	105.00	106.25	32	12	£149.08	£101.07
M1.25-85	85	106.25	61.13	108.75	110.00	32	12	£158.28	£107.82
M1.25-88	88	110.00	63.00	112.50	113.75	32	12	£169.56	£115.04
M1.25-90	90	112.50	64.25	115.00	116.25	32	12	£176.81	£119.92
M1.25-95	95	118.75	67.38	121.25	122.50	50	12	£195.64	£132.69
M1.25-98	98	122.50	69.25	125.00	126.25	50	12	£207.42	£140.60
M1.25-100	100	125.00	70.50	127.50	128.75	50	12	£215.45	£146.18
M1.25-110	110	137.50	76.75	140.00	141.25	50	12	£259.15	£174.74
M1.25-120	120	150.00	83.00	152.50	153.75	50	12	£304.03	£206.33
M1.25-148	148	185.00	100.50	187.50	188.75	50	15	£404.43	£343.73

Worms & Wheels Bronze & Steel

MOD 1.25



Worms & Wheels

Materials

1.25 MOD, 3.927mm Pitch

STD : Delrin
Machined Parts



20° Pressure Angle

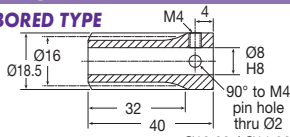
**LEAD ANGLE
RIGHT HAND
STANDARD**

DISCOUNTS

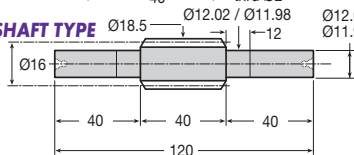
Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

BORED TYPE



SHAFT TYPE



PLASTIC

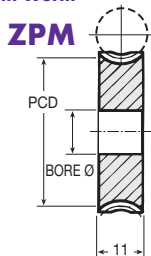
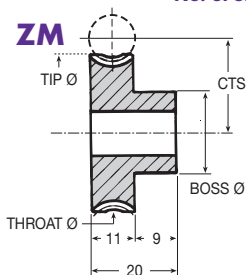
PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW1.25-1	1	4°28'	£13.64
ZW1.25-2	2	8°53'	£14.35
ZW1.25-3	3	13°11'	£15.77
ZW1.25-4	4	17°21'	£16.46

PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW1.25-1	1	4°28'	£25.11
ZSW1.25-2	2	8°53'	£25.79
ZSW1.25-3	3	13°11'	£26.00
ZSW1.25-4	4	17°21'	£26.12

Wheel DELRIN - Machined Parts

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

15.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	2.75	7.02
K.W.	0.006	0.015

Number of Teeth between **12 - 148**
See Technical Section

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM1.25-12	12	15.00	15.50	17.50	18.75	14	8	£10.62	£8.12	
ZM1.25-15	15	18.75	17.38	21.25	22.50	14	8	£11.15	£8.51	
ZM1.25-16	16	20.00	18.00	22.50	23.75	14	8	£11.51	£8.84	
ZM1.25-18	18	22.50	19.25	25.00	26.25	20	10	£12.04	£9.20	
ZM1.25-20	20	25.00	20.50	27.50	28.75	20	10	£12.44	£9.55	
ZM1.25-22	22	27.50	21.75	30.00	31.25	20	10	£13.31	£10.19	
ZM1.25-24	24	30.00	23.00	32.50	33.75	20	10	£15.14	£11.59	
ZM1.25-25	25	31.25	23.63	33.75	35.00	20	10	£15.55	£11.89	
ZM1.25-28	28	35.00	25.50	37.50	38.75	25	10	£16.13	£12.39	
ZM1.25-30	30	37.50	26.75	40.00	41.25	25	10	£16.81	£12.84	
ZM1.25-32	32	40.00	28.00	42.50	43.75	25	10	£20.15	£15.47	
ZM1.25-34	34	42.50	29.25	45.00	46.25	25	10	£21.74	£16.68	
ZM1.25-35	35	43.75	29.88	46.25	47.50	25	10	£23.24	£17.81	
ZM1.25-38	38	47.50	31.75	50.00	51.25	25	10	£24.78	£19.00	
ZM1.25-40	40	50.00	33.00	52.50	53.75	25	10	£25.30	£19.36	
ZM1.25-42	42	52.50	34.25	55.00	56.25	25	10	£27.86	£21.32	
ZM1.25-44	44	55.00	35.50	57.50	58.75	25	10	£29.65	£22.74	
ZM1.25-45	45	56.25	36.13	58.75	60.00	25	10	£31.77	£24.32	
ZM1.25-48	48	60.00	38.00	62.50	63.75	25	10	£35.44	£27.21	
ZM1.25-50	50	62.50	39.25	65.00	66.25	25	10	£38.08	£29.16	
ZM1.25-52	52	65.00	40.50	67.50	68.75	32	12	£40.84	£31.32	
ZM1.25-54	54	67.50	41.75	70.00	71.25	32	12	£44.28	£33.97	
ZM1.25-55	55	68.75	42.38	71.25	72.50	32	12	£45.01	£34.51	
ZM1.25-58	58	72.50	44.25	75.00	76.25	32	12	£50.02	£38.35	
ZM1.25-60	60	75.00	45.50	77.50	78.75	32	12	£52.82	£40.50	
ZM1.25-62	62	77.50	46.75	80.00	81.25	32	12	£55.84	£42.89	
ZM1.25-64	64	80.00	48.00	82.50	83.75	32	12	£59.35	£45.51	
ZM1.25-65	65	81.25	48.63	83.75	85.00	32	12	£61.09	£46.84	
ZM1.25-68	68	85.00	50.50	87.50	88.75	32	12	£66.32	£50.89	
ZM1.25-70	70	87.50	51.75	90.00	91.25	32	12	£69.92	£53.65	
ZM1.25-72	72	90.00	53.00	92.50	93.75	32	12	£73.64	£56.53	
ZM1.25-74	74	92.50	54.25	95.00	96.25	32	12	£77.48	£59.40	
ZM1.25-75	75	93.75	54.88	96.25	97.50	32	12	£79.53	£61.07	
ZM1.25-78	78	97.50	56.75	100.00	101.25	32	12	£85.36	£65.53	
ZM1.25-80	80	100.00	58.00	102.50	103.75	32	12	£89.47	£68.67	
ZM1.25-82	82	102.50	59.25	105.00	106.25	32	12	£93.93	£72.05	
ZM1.25-85	85	106.25	61.13	108.75	110.00	32	12	£99.71	£76.51	
ZM1.25-88	88	110.00	63.00	112.50	113.75	32	12	£106.86	£81.96	
ZM1.25-90	90	112.50	64.25	115.00	116.25	32	12	£111.62	£85.62	
ZM1.25-95	95	118.75	67.38	121.25	122.50	50	12	£123.30	£94.57	
ZM1.25-98	98	122.50	69.25	125.00	126.25	50	12	£130.69	£100.30	
ZM1.25-100	100	125.00	70.50	127.50	128.75	50	12	£135.75	£104.18	
ZM1.25-110	110	137.50	76.75	140.00	141.25	50	12	£163.30	£125.26	
ZM1.25-120	120	150.00	83.00	152.50	153.75	50	12	£191.60	£147.01	
ZM1.25-148	148	185.00	100.50	187.50	188.75	50	15	£254.83	£216.58	



Worms & Wheels

Materials

1.5 MOD, 4.712mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

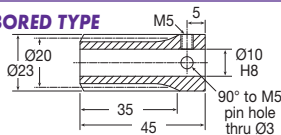
LEAD ANGLE
RIGHT HAND
STANDARD

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm STEEL 214 M15 - En202

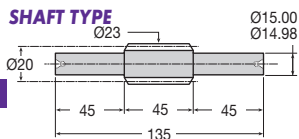
BORED TYPE



214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	214M15 - EN202 HARDENED	PRICE EACH 1-5
W1.5-1	£22.42	1	4°17'	WH1.5-1	£31.85
W1.5-2	£26.01	2	8°31'	WH1.5-2	£36.97
W1.5-3	£27.32	3	12°40'	WH1.5-3	£38.82
W1.5-4	£29.62	4	16°42'	WH1.5-4	£42.05

SHAFT TYPE

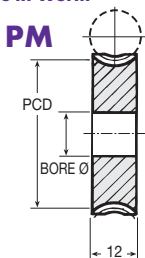
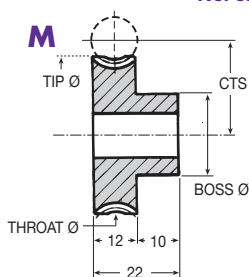


214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	655M13 - EN36 HARDENED	PRICE EACH 1-5
SW1.5-1	£41.97	1	4°17'	SWH1.5-1	£59.64
SW1.5-2	£44.26	2	8°31'	SWH1.5-2	£62.82
SW1.5-3	£45.58	3	12°40'	SWH1.5-3	£64.72
SW1.5-4	£46.12	4	16°42'	SWH1.5-4	£65.49

Wheel PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double
Bossed
Wheels
Available @
Price x 1.4

15.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Worms & Wheels Bronze & Steel MOD 1.5

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	16.80	30.00
K.W.	0.035	0.063

Number of Teeth between **12 - 120**
See **Technical Section**

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M1.5-12	12	18.00	19.00	21.00	22.50	15	8	£23.31	£15.33
M1.5-14	14	21.00	20.50	24.00	25.50	15	8	£24.73	£16.12
M1.5-15	15	22.50	21.25	25.50	27.00	18	8	£28.78	£17.27
M1.5-16	16	24.00	22.00	27.00	28.50	18	8	£29.75	£17.87
M1.5-18	18	27.00	23.50	30.00	31.50	18	8	£30.76	£18.43
M1.5-20	20	30.00	25.00	33.00	34.50	20	10	£31.73	£19.00
M1.5-22	22	33.00	26.50	36.00	37.50	20	10	£32.72	£19.61
M1.5-24	24	36.00	28.00	39.00	40.50	20	10	£33.85	£20.20
M1.5-25	25	37.50	28.75	40.50	42.00	25	10	£34.84	£20.88
M1.5-28	28	42.00	31.00	45.00	46.50	25	10	£36.60	£21.96
M1.5-30	30	45.00	32.50	48.00	49.50	30	15	£38.35	£22.99
M1.5-32	32	48.00	34.00	51.00	52.50	30	15	£39.64	£26.90
M1.5-34	34	51.00	35.50	54.00	55.50	30	15	£44.26	£30.81
M1.5-35	35	52.50	36.25	55.50	57.00	30	15	£47.70	£31.77
M1.5-38	38	57.00	38.50	60.00	61.50	30	15	£54.07	£36.69
M1.5-40	40	60.00	40.00	63.00	64.50	30	15	£59.42	£40.51
M1.5-42	42	63.00	41.50	66.00	67.50	30	15	£65.73	£43.77
M1.5-44	44	66.00	43.00	69.00	70.50	30	15	£71.43	£47.59
M1.5-45	45	67.50	43.75	70.50	72.00	30	15	£74.33	£49.51
M1.5-48	48	72.00	46.00	75.00	76.50	30	15	£83.49	£55.55
M1.5-50	50	75.00	47.50	78.00	79.50	30	15	£89.84	£59.85
M1.5-52	52	78.00	49.00	81.00	82.50	30	15	£96.47	£64.27
M1.5-54	54	81.00	50.50	84.00	85.50	30	15	£103.32	£68.84
M1.5-55	55	82.50	51.25	85.50	87.00	30	15	£106.86	£71.19
M1.5-58	58	87.00	53.50	90.00	91.50	30	15	£117.68	£78.47
M1.5-60	60	90.00	55.00	93.00	94.50	30	15	£125.31	£82.58
M1.5-62	62	93.00	56.50	96.00	97.50	30	15	£133.03	£88.71
M1.5-64	64	96.00	58.00	99.00	100.50	30	15	£142.73	£94.02
M1.5-65	65	97.50	58.75	100.50	102.00	30	15	£145.24	£96.78
M1.5-68	68	102.00	61.00	105.00	106.50	30	15	£157.91	£105.16
M1.5-70	70	105.00	62.50	108.00	109.50	30	15	£166.63	£111.04
M1.5-72	72	108.00	64.00	111.00	112.50	30	15	£175.59	£117.00
M1.5-74	74	111.00	65.50	114.00	115.50	30	15	£184.79	£123.14
M1.5-75	75	112.50	66.25	115.50	117.00	30	15	£189.44	£126.29
M1.5-78	78	117.00	68.50	120.00	121.50	30	15	£203.91	£135.92
M1.5-80	80	120.00	70.00	123.00	124.50	30	15	£213.80	£142.53
M1.5-82	82	123.00	71.50	126.00	127.50	30	15	£223.93	£149.27
M1.5-85	85	127.50	73.75	130.50	132.00	30	15	£239.54	£159.71
M1.5-88	88	132.00	76.00	135.00	136.50	30	15	£255.81	£170.48
M1.5-90	90	135.00	77.50	138.00	139.50	30	15	£266.73	£177.91
M1.5-92	92	138.00	79.00	141.00	142.50	30	15	£278.19	£185.51
M1.5-95	95	142.50	81.25	145.50	147.00	30	15	£295.61	£197.04
M1.5-98	98	147.00	83.50	150.00	151.50	30	15	£313.56	£209.01
M1.5-100	100	150.00	85.00	153.00	154.50	30	15	£325.80	£216.39
M1.5-120	120	180.00	100.00	183.00	184.50	50	15	£433.36	£368.34

Worms & Wheels Bronze & Steel

MOD 1.5



Worms & Wheels

Materials

1.5 MOD, 4.712mm Pitch

STD : Delrin
Machined Parts



20° Pressure Angle

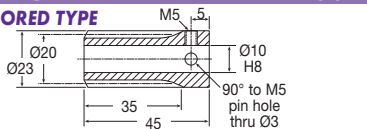
**LEAD ANGLE
RIGHT HAND
STANDARD**

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

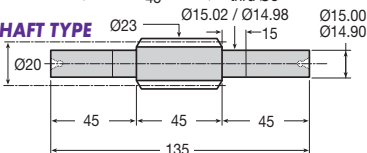
BORED TYPE



PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW1.5-1	1	4°17'	£15.76
ZW1.5-2	2	8°31'	£18.25
ZW1.5-3	3	12°40'	£19.20
ZW1.5-4	4	16°42'	£20.82

SHAFT TYPE

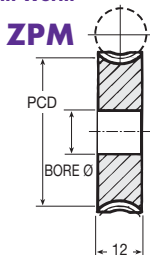
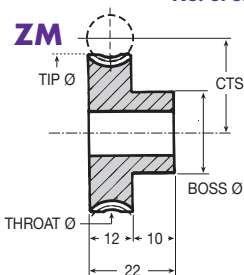


PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW1.5-1	1	4°17'	£29.67
ZSW1.5-2	2	8°31'	£31.21
ZSW1.5-3	3	12°40'	£32.15
ZSW1.5-4	4	16°42'	£32.55

Wheel DELRIN - Machined Parts

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



**Double
Bossed
Wheels
Available @
Price x 1.4**

15.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	3.97	10.05
K.W.	0.008	0.021

Number of Teeth between **12 - 120**
See Technical Section

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM1.5-12	12	18.00	19.00	21.00	22.50	15	8	£11.73		£8.96
ZM1.5-14	14	21.00	20.50	24.00	25.50	15	8	£12.42		£9.48
ZM1.5-15	15	22.50	21.25	25.50	27.00	18	8	£14.43		£11.03
ZM1.5-16	16	24.00	22.00	27.00	28.50	18	8	£14.97		£11.49
ZM1.5-18	18	27.00	23.50	30.00	31.50	18	8	£15.47		£11.84
ZM1.5-20	20	30.00	25.00	33.00	34.50	20	10	£17.52		£13.41
ZM1.5-22	22	33.00	26.50	36.00	37.50	20	10	£18.13		£13.93
ZM1.5-24	24	36.00	28.00	39.00	40.50	20	10	£18.68		£14.35
ZM1.5-25	25	37.50	28.75	40.50	42.00	25	10	£19.33		£14.74
ZM1.5-28	28	42.00	31.00	45.00	46.50	25	10	£23.04		£17.63
ZM1.5-30	30	45.00	32.50	48.00	49.50	30	15	£24.16		£18.48
ZM1.5-32	32	48.00	34.00	51.00	52.50	30	15	£24.96		£19.14
ZM1.5-34	34	51.00	35.50	54.00	55.50	30	15	£27.86		£21.32
ZM1.5-35	35	52.50	36.25	55.50	57.00	30	15	£30.01		£22.01
ZM1.5-38	38	57.00	38.50	60.00	61.50	30	15	£33.99		£26.11
ZM1.5-40	40	60.00	40.00	63.00	64.50	30	15	£37.44		£28.68
ZM1.5-42	42	63.00	41.50	66.00	67.50	30	15	£41.36		£31.70
ZM1.5-44	44	66.00	43.00	69.00	70.50	30	15	£44.97		£34.51
ZM1.5-45	45	67.50	43.75	70.50	72.00	30	15	£46.82		£35.92
ZM1.5-48	48	72.00	46.00	75.00	76.50	30	15	£52.59		£40.28
ZM1.5-50	50	75.00	47.50	78.00	79.50	30	15	£56.58		£43.38
ZM1.5-52	52	78.00	49.00	81.00	82.50	30	15	£60.79		£46.61
ZM1.5-54	54	81.00	50.50	84.00	85.50	30	15	£65.04		£49.93
ZM1.5-55	55	82.50	51.25	85.50	87.00	30	15	£67.30		£51.63
ZM1.5-58	58	87.00	53.50	90.00	91.50	30	15	£74.14		£56.90
ZM1.5-60	60	90.00	55.00	93.00	94.50	30	15	£78.92		£60.55
ZM1.5-62	62	93.00	56.50	96.00	97.50	30	15	£83.81		£64.30
ZM1.5-64	64	96.00	58.00	99.00	100.50	30	15	£89.94		£68.95
ZM1.5-65	65	97.50	58.75	100.50	102.00	30	15	£91.49		£70.15
ZM1.5-68	68	102.00	61.00	105.00	106.50	30	15	£99.49		£76.32
ZM1.5-70	70	105.00	62.50	108.00	109.50	30	15	£104.99		£80.51
ZM1.5-72	72	108.00	64.00	111.00	112.50	30	15	£110.63		£84.86
ZM1.5-74	74	111.00	65.50	114.00	115.50	30	15	£116.41		£89.33
ZM1.5-75	75	112.50	66.25	115.50	117.00	30	15	£119.39		£91.61
ZM1.5-78	78	117.00	68.50	120.00	121.50	30	15	£128.49		£98.52
ZM1.5-80	80	120.00	70.00	123.00	124.50	30	15	£134.67		£103.38
ZM1.5-82	82	123.00	71.50	126.00	127.50	30	15	£140.59		£108.28
ZM1.5-85	85	127.50	73.75	130.50	132.00	30	15	£150.90		£115.79
ZM1.5-88	88	132.00	76.00	135.00	136.50	30	15	£161.16		£123.67
ZM1.5-90	90	135.00	77.50	138.00	139.50	30	15	£168.09		£128.97
ZM1.5-92	92	138.00	79.00	141.00	142.50	30	15	£175.32		£134.52
ZM1.5-95	95	142.50	81.25	145.50	147.00	30	15	£186.27		£142.91
ZM1.5-98	98	147.00	83.50	150.00	151.50	30	15	£197.62		£151.59
ZM1.5-100	100	150.00	85.00	153.00	154.50	30	15	£205.34		£157.53
ZM1.5-120	120	180.00	100.00	183.00	184.50	50	15	£273.10		£232.17



Worms & Wheels

Materials

2 MOD, 6.283mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

LEAD ANGLE
RIGHT HAND
STANDARD

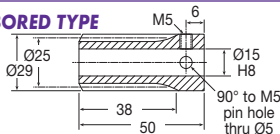
DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm

STEEL 214 M15 - En202

BORED TYPE



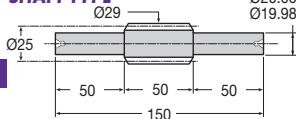
214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE
W2-1	£39.01	1	4°34'
W2-2	£41.84	2	9°05'
W2-3	£44.89	3	13°29'
W2-4	£49.50	4	17°45'

214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5
WH2-1	£55.45
WH2-2	£59.42
WH2-3	£63.77
WH2-4	£70.31

SHAFT TYPE



214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE
SW2-1	£59.15	1	4°34'
SW2-2	£62.81	2	9°05'
SW2-3	£64.13	3	13°29'
SW2-4	£67.37	4	17°45'

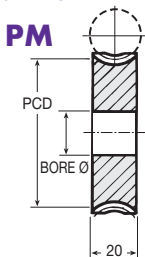
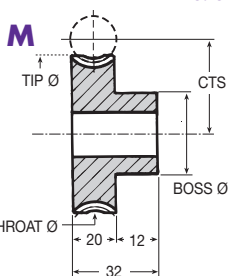
655M13 - EN36 HARDENED

PART NUMBER	PRICE EACH 1-5
SWH2-1	£84.13
SWH2-2	£89.20
SWH2-3	£91.13
SWH2-4	£95.65

Wheel

PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double
Bossed
Wheels
Available @
Price x 1.4

15.26



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	45.00	79.00
K.W.	0.094	0.166

Number of Teeth between **12 - 80**
See **Technical Section**

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M2-12	12	24	24.50	28	30	20	12	£48.13	£29.84
M2-14	14	28	26.50	32	34	25	15	£55.32	£34.29
M2-15	15	30	27.50	34	36	25	15	£58.65	£36.37
M2-16	16	32	28.50	36	38	30	15	£62.01	£38.36
M2-17	17	34	29.50	38	40	30	15	£63.17	£39.19
M2-18	18	36	30.50	40	42	30	15	£64.35	£39.94
M2-19	19	38	31.50	42	44	30	15	£65.59	£40.65
M2-20	20	40	32.50	44	46	30	15	£66.77	£41.34
M2-22	22	44	34.50	48	50	30	15	£74.75	£46.45
M2-24	24	48	36.50	52	54	30	15	£78.77	£48.88
M2-25	25	50	37.50	54	56	40	20	£80.83	£50.11
M2-26	26	52	38.50	56	58	40	20	£82.82	£51.34
M2-28	28	56	40.50	60	62	40	20	£84.80	£52.58
M2-30	30	60	42.50	64	66	50	20	£86.80	£53.85
M2-32	32	64	44.50	68	70	50	20	£90.15	£63.08
M2-34	34	68	46.50	72	74	50	20	£100.45	£70.28
M2-35	35	70	47.50	74	76	50	20	£105.82	£74.04
M2-36	36	72	48.50	76	78	50	20	£111.32	£77.89
M2-38	38	76	50.50	80	82	50	20	£122.73	£85.86
M2-40	40	80	52.50	84	86	50	20	£134.69	£94.28
M2-42	42	84	54.50	88	90	50	20	£147.27	£103.05
M2-44	44	88	56.50	92	94	50	20	£160.37	£112.20
M2-45	45	90	57.50	94	96	50	20	£167.07	£116.95
M2-46	46	92	58.50	96	98	50	20	£173.99	£121.75
M2-48	48	96	60.50	100	102	50	20	£188.21	£131.67
M2-50	50	100	62.50	104	106	50	20	£202.95	£142.04
M2-52	52	104	64.50	108	110	50	20	£218.29	£152.75
M2-54	54	108	66.50	112	114	50	20	£234.14	£163.88
M2-55	55	110	67.50	114	116	50	20	£242.28	£169.56
M2-56	56	112	68.50	116	118	50	20	£250.56	£175.37
M2-58	58	116	70.50	120	122	50	20	£267.58	£187.22
M2-60	60	120	72.50	124	126	50	20	£285.11	£199.53
M2-62	62	124	74.50	128	130	50	20	£303.20	£212.25
M2-64	64	128	76.50	132	134	50	20	£321.84	£225.33
M2-65	65	130	77.50	134	136	50	20	£331.41	£231.92
M2-66	66	132	78.50	136	138	50	20	£341.09	£238.77
M2-68	68	136	80.50	140	142	50	20	£360.88	£252.55
M2-70	70	140	82.50	144	146	50	20	£381.18	£266.83
M2-72	72	144	84.50	148	150	50	20	£402.08	£281.43
M2-74	74	148	86.50	152	154	50	20	£423.51	£296.43
M2-75	75	150	87.50	154	156	50	20	£434.46	£304.12
M2-76	76	152	88.50	156	158	50	20	£445.54	£311.84
M2-78	78	156	90.50	160	162	50	20	£468.10	£327.65
M2-80	80	160	92.50	164	166	50	20	£491.20	£343.77



Worms & Wheels

2 MOD, 6.283mm Pitch

Materials

STD : Delrin
Machined Parts

**LEAD ANGLE
RIGHT HAND
STANDARD**



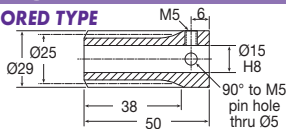
20° Pressure Angle

DISCOUNTS

1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

BORED TYPE

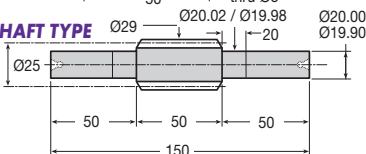


PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW2-1	1	4°34'	£27.40
ZW2-2	2	9°05'	£29.38
ZW2-3	3	13°29'	£31.58
ZW2-4	4	17°45'	£34.80

MOD 2

SHAFT TYPE

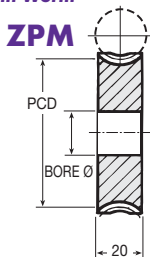
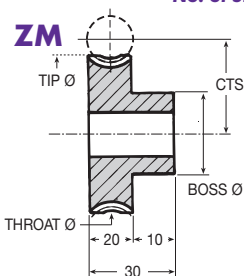


PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW2-1	1	4°34'	£41.66
ZSW2-2	2	9°05'	£44.26
ZSW2-3	3	13°29'	£45.15
ZSW2-4	4	17°45'	£47.35

Wheel DELRIN - Machined Parts

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

Worms & Wheels Plastic

15.28



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	11	28.30
K.W.	0.023	0.059

Number of Teeth between **12 - 80**
See *Technical Section*

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	ZM	ZPM
ZM2-12	12	24	24.50	28	30	20	12	£24.20	£18.50	
ZM2-14	14	28	26.50	32	34	25	15	£27.86	£21.32	
ZM2-15	15	30	27.50	34	36	25	15	£32.53	£24.89	
ZM2-16	16	32	28.50	36	38	30	15	£33.37	£25.61	
ZM2-17	17	34	29.50	38	40	30	15	£34.29	£26.32	
ZM2-18	18	36	30.50	40	42	30	15	£35.22	£26.97	
ZM2-19	19	38	31.50	42	44	30	15	£36.11	£27.68	
ZM2-20	20	40	32.50	44	46	30	15	£42.04	£32.27	
ZM2-22	22	44	34.50	48	50	30	15	£44.62	£34.15	
ZM2-24	24	48	36.50	52	54	30	15	£47.04	£36.11	
ZM2-25	25	50	37.50	54	56	40	20	£49.60	£38.05	
ZM2-26	26	52	38.50	56	58	40	20	£51.27	£39.34	
ZM2-28	28	56	40.50	60	62	40	20	£54.13	£40.28	
ZM2-30	30	60	42.50	64	66	50	20	£54.63	£41.92	
ZM2-32	32	64	44.50	68	70	50	20	£56.26	£43.14	
ZM2-34	34	68	46.50	72	74	50	20	£63.31	£48.55	
ZM2-35	35	70	47.50	74	76	50	20	£66.71	£51.12	
ZM2-36	36	72	48.50	76	78	50	20	£70.11	£53.82	
ZM2-38	38	76	50.50	80	82	50	20	£77.25	£59.32	
ZM2-40	40	80	52.50	84	86	50	20	£84.86	£65.15	
ZM2-42	42	84	54.50	88	90	50	20	£92.75	£71.18	
ZM2-44	44	88	56.50	92	94	50	20	£101.05	£77.48	
ZM2-45	45	90	57.50	94	96	50	20	£105.30	£80.76	
ZM2-46	46	92	58.50	96	98	50	20	£109.63	£84.13	
ZM2-48	48	96	60.50	100	102	50	20	£118.57	£90.99	
ZM2-50	50	100	62.50	104	106	50	20	£127.85	£98.11	
ZM2-52	52	104	64.50	108	110	50	20	£137.56	£105.53	
ZM2-54	54	108	66.50	112	114	50	20	£147.53	£113.12	
ZM2-55	55	110	67.50	114	116	50	20	£152.70	£117.17	
ZM2-56	56	112	68.50	116	118	50	20	£157.90	£121.15	
ZM2-58	58	116	70.50	120	122	50	20	£168.57	£129.36	
ZM2-60	60	120	72.50	124	126	50	20	£179.66	£137.88	
ZM2-62	62	124	74.50	128	130	50	20	£191.08	£146.58	
ZM2-64	64	128	76.50	132	134	50	20	£202.78	£155.59	
ZM2-65	65	130	77.50	134	136	50	20	£208.85	£160.24	
ZM2-66	66	132	78.50	136	138	50	20	£214.89	£164.96	
ZM2-68	68	136	80.50	140	142	50	20	£227.38	£174.54	
ZM2-70	70	140	82.50	144	146	50	20	£240.17	£184.30	
ZM2-72	72	144	84.50	148	150	50	20	£253.35	£194.36	
ZM2-74	74	148	86.50	152	154	50	20	£266.88	£204.80	
ZM2-75	75	150	87.50	154	156	50	20	£271.12	£210.05	
ZM2-76	76	152	88.50	156	158	50	20	£280.78	£215.40	
ZM2-78	78	156	90.50	160	162	50	20	£295.01	£226.32	
ZM2-80	80	160	92.50	164	166	50	20	£309.56	£237.51	



Worms & Wheels

Materials

2.5 MOD, 7.854mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

**LEAD ANGLE
RIGHT HAND
STANDARD**

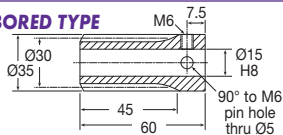
DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm

STEEL 214 M15 - En202

BORED TYPE



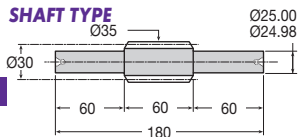
214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W2.5-1	£58.87	1	4°46'	WH2.5-1	£79.55
W2.5-2	£62.82	2	9°28'	WH2.5-2	£84.17
W2.5-3	£65.32	3	14°02'	WH2.5-3	£85.48
W2.5-4	£67.55	4	18°26'	WH2.5-4	£87.72

214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW2.5-1	£86.50	1	4°46'	SWH2.5-1	£124.87
SW2.5-2	£90.14	2	9°28'	SWH2.5-2	£129.22
SW2.5-3	£93.70	3	14°02'	SWH2.5-3	£131.98
SW2.5-4	£97.98	4	18°26'	SWH2.5-4	£135.22

SHAFT TYPE



214M15 - EN202 UNHARDENED

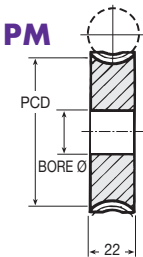
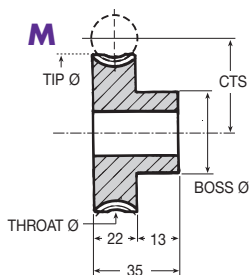
655M13 - EN36 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW2.5-1	£86.50	1	4°46'	SWH2.5-1	£124.87
SW2.5-2	£90.14	2	9°28'	SWH2.5-2	£129.22
SW2.5-3	£93.70	3	14°02'	SWH2.5-3	£131.98
SW2.5-4	£97.98	4	18°26'	SWH2.5-4	£135.22

Wheel

PHOSPHOR BRONZE - PB2

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

15.30



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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Worms & Steel MOD 2.5

Worms & Wheels Bronze

Worms & Wheels

2.5MOD, 7.854mm Pitch

Materials

STD : Delrin
Machined Parts



20° Pressure Angle

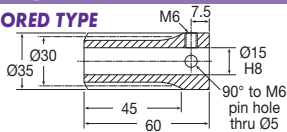
LEAD ANGLE
RIGHT HAND
STANDARD

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

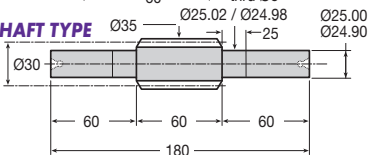
BORED TYPE



PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW2.5-1	1	4°46'	£38.85
ZW2.5-2	2	9°28'	£41.66
ZW2.5-3	3	14°02'	£43.51
ZW2.5-4	4	18°26'	£45.06

SHAFT TYPE



PLASTIC

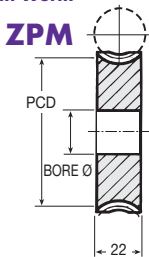
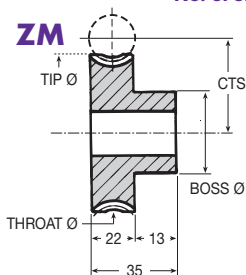
PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW2.5-1	1	4°46'	£58.65
ZSW2.5-2	2	9°28'	£61.26
ZSW2.5-3	3	14°02'	£63.82
ZSW2.5-4	4	18°26'	£66.93

MOD 2.5

Worms & Wheels Plastic

Wheel DELRIN - Machined Parts

REDUCTION RATIO = $\frac{\text{No. of Teeth in Wheel}}{\text{No. of Starts in Worm}}$



Double Bossed Wheels Available @ Price x 1.4

15.32



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Worms & Wheels

Materials

3 MOD, 9.425mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

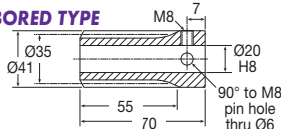
LEAD ANGLE
RIGHT HAND
STANDARD

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm STEEL 214 M15 - En202

BORED TYPE



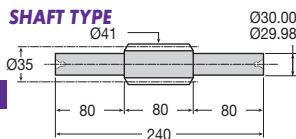
214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE
W3-1	£70.23	1	4°54'
W3-2	£72.58	2	9°44'
W3-3	£74.70	3	14°25'
W3-4	£77.63	4	18°55'

214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5
WH3-1	£90.14
WH3-2	£92.49
WH3-3	£97.15
WH3-4	£101.08

SHAFT TYPE



214M15 - EN202 UNHARDENED

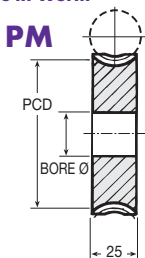
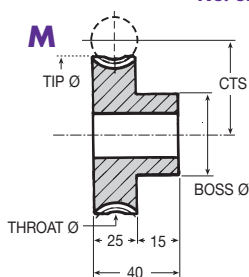
PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE
SW3-1	£100.46	1	4°54'
SW3-2	£106.68	2	9°44'
SW3-3	£111.15	3	14°25'
SW3-4	£115.52	4	18°55'

655M13 - EN36 HARDENED

PART NUMBER	PRICE EACH 1-5
SWH3-1	£131.81
SWH3-2	£133.69
SWH3-3	£135.85
SWH3-4	£142.62

Wheel PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double
Bossed
Wheels
Available @
Price x 1.4

Worms & Steel MOD 3

Worms & Wheels Bronze

15.34



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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Worms & Wheels

3 MOD, 9.425mm Pitch

Materials

STD : Delrin
Machined Parts



20° Pressure Angle

**LEAD ANGLE
RIGHT HAND
STANDARD**

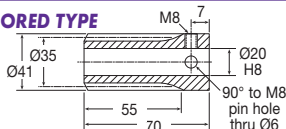
DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm

DELIN - Machined Parts

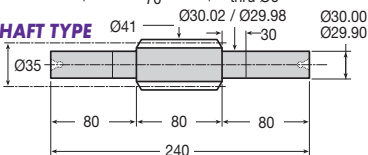
BORED TYPE



PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW3-1	1	4°54'	£55.60
ZW3-2	2	9°44'	£57.25
ZW3-3	3	14°25'	£58.83
ZW3-4	4	18°55'	£60.91

SHAFT TYPE



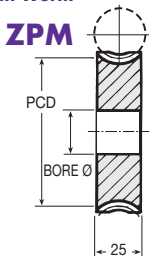
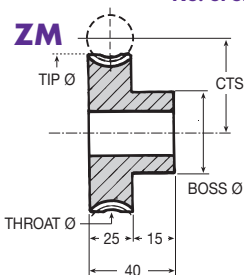
PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW3-1	1	4°54'	£77.31
ZSW3-2	2	9°44'	£80.18
ZSW3-3	3	14°25'	£83.44
ZSW3-4	4	18°55'	£86.62

Wheel

DELIN - Machined Parts

REDUCTION RATIO = $\frac{\text{No. of Teeth in Wheel}}{\text{No. of Starts in Worm}}$



**Double
Bossed
Wheels
Available @
Price x 1.4**

Worms & Wheels Plastic

15.36



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Worms & Wheels

Materials

4 MOD, 12.56mm Pitch

STD : Phosphor Bronze PB2
and Steel 214M15 / 655M13



20° Pressure Angle

LEAD ANGLE
RIGHT HAND
STANDARD

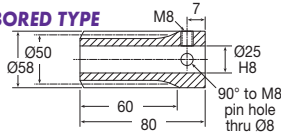
DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Worm

STEEL 214 M15 - En202

BORED TYPE



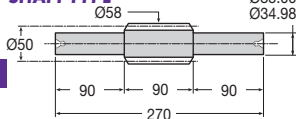
214M15 - EN202 UNHARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
W4-1	£85.48	1	4°34'	WH4-1	£107.02
W4-2	£89.84	2	9°05'	WH4-2	£112.93
W4-3	£94.52	3	13°30'	WH4-3	£116.79
W4-4	£100.41	4	17°45'	WH4-4	£124.17

214M15 - EN202 HARDENED

PART NUMBER	PRICE EACH 1-5	No. of STARTS	LEAD ANGLE	PART NUMBER	PRICE EACH 1-5
SW4-1	£114.93	1	4°34'	SWH4-1	£159.45
SW4-2	£121.01	2	9°05'	SWH4-2	£162.52
SW4-3	£127.77	3	13°30'	SWH4-3	£168.99
SW4-4	£136.39	4	17°45'	SWH4-4	£173.81

SHAFT TYPE



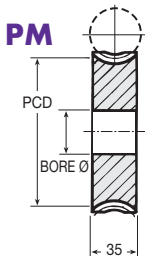
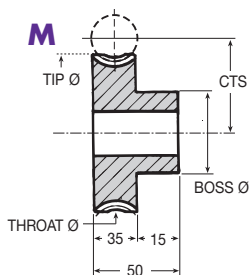
214M15 - EN202 UNHARDENED

655M13 - EN36 HARDENED

Wheel

PHOSPHOR BRONZE - PB2

REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm



Double
Bossed
Wheels
Available @
Price x 1.4

15.38



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LEAD ANGLE RIGHT HAND STANDARD

Number of Teeth between 15 - 60
See *Technical Section*

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH STD WORM	WITH HARD WORM
TORQUE Nm	309	417
K.W.	0.647	0.873

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								M	PM
M4-15	15	60	55	68	72	40	25	£129.17	£90.42
M4-20	20	80	65	88	92	50	25	£150.32	£105.16
M4-25	25	100	75	108	112	75	35	£234.97	£164.46
M4-30	30	120	85	128	132	75	35	£338.35	£236.84
M4-35	35	140	95	148	152	75	35	£460.61	£322.42
M4-40	40	160	105	168	172	75	35	£538.02	£403.48
M4-45	45	180	115	188	192	75	35	£671.54	£504.35
M4-50	50	200	125	208	212	75	35	£773.40	£580.02
M4-55	55	220	135	228	232	75	35	£975.20	£731.38
M4-60	60	240	145	248	252	75	35	£1143.32	£857.47

'Never Knowingly Outpriced'



Worms & Wheels

4 MOD, 12.56mm Pitch

Materials

STD : Delrin
Machined Parts



20° Pressure Angle

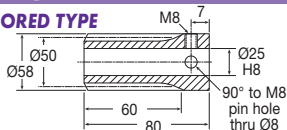
**LEAD ANGLE
RIGHT HAND
STANDARD**

DISCOUNTS

Quantity	List Price
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Worm DELRIN - Machined Parts

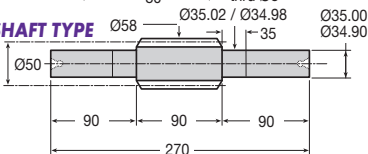
BORED TYPE



PLASTIC

PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZW4-1	1	4°34'	£57.94
ZW4-2	2	9°05'	£60.52
ZW4-3	3	13°30'	£64.47
ZW4-4	4	17°45'	£68.62

SHAFT TYPE



PLASTIC

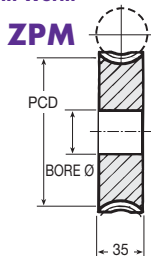
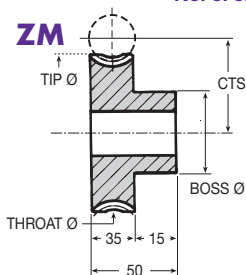
PART NUMBER	No. of STARTS	LEAD ANGLE	PRICE EACH 1-5
ZSW4-1	1	4°34'	£81.31
ZSW4-2	2	9°05'	£85.39
ZSW4-3	3	13°30'	£90.51
ZSW4-4	4	17°45'	£95.25

MOD 4

Worms & Wheels Plastic

Wheel DELRIN - Machined Parts

**REDUCTION RATIO = No. of Teeth in Wheel
= No. of Starts in Worm**



**Double
Bossed
Wheels
Available @
Price x 1.4**

15.40



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

LEAD ANGLE RIGHT HAND STANDARD

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT	
	WITH PLASTIC WORM	WITH STEEL WORM
TORQUE Nm	61	154
K.W.	0.129	0.324

Number of Teeth between 15 - 60
 See Technical Section

Note: When ordering Wheel, the number of starts on the mating Worm must be specified.

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	Throat Ø (mm)	Tip Ø (mm)	Boss Ø (mm)	Bore Ø (mm)	PRICE EACH 1 - 5	
								ZM	ZPM
ZM4-15	15	60	55	68	72	40	25	£83.63	£58.55
ZM4-20	20	80	65	88	92	50	25	£97.38	£68.14
ZM4-25	25	100	75	108	112	75	35	£152.21	£106.53
ZM4-30	30	120	85	128	132	75	35	£219.23	£153.42
ZM4-35	35	140	95	148	152	75	35	£298.45	£208.86
ZM4-40	40	160	105	168	172	75	35	£389.85	£272.90
ZM4-45	45	180	115	188	192	75	35	£493.41	£345.34
ZM4-50	50	200	125	208	212	75	35	£609.15	£426.43
ZM4-55	55	220	135	228	232	75	35	£737.15	£515.97
ZM4-60	60	240	145	248	252	75	35	£877.23	£614.06

'Never Knowingly Outpriced'



TECHNICAL REQUEST

photocopy double

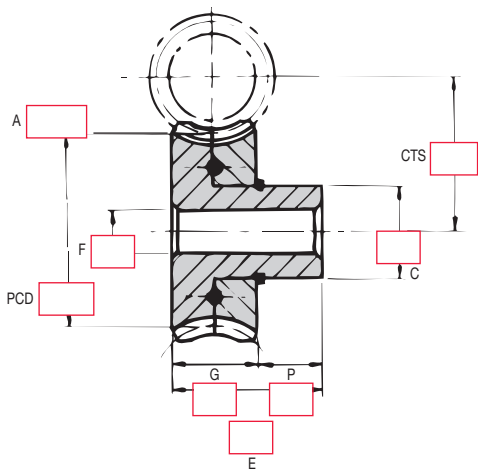
size and fax on

+44 (0)1246 260003

Non-Standard A-B Wormwheels

QUANTITY	_____	BORE DIAMETER (F)	_____
MATERIAL	_____	FACE WIDTH (G)	_____
NUMBER OF TEETH	_____	CENTRES (C)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
BOSS DIAMETER (C)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OVERALL WIDTH (E)	_____		

SPECIAL FEATURES



16.0



Unit 14, Foxwood Industrial Park, Foxwood Road, Chesterfield, Derbyshire S41 9RN

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Anti-backlash Wormwheels

Pages 16.2 – 16.15

TECHNICAL

Pages 27.54 – 27.60

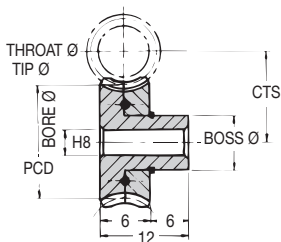


For non-standard Antibacklash Wormwheels use form on opposite page or send a drawing or sample for a free, no-obligation quote.

Anti-backlash Wormwheels Materials

0.4 MOD

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 60 - 300



20° Pressure Angle

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT
	with std worm
TORQUE Nm	0.056
K.W.	0.0012

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Anti-backlash Wormwheels MOD 0.4

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	THROAT Ø (mm)	TIP Ø (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5
ABM0.4-60	60	24.00	16.50	24.80	25.20	12	4	£42.27
ABM0.4-62	62	24.80	16.90	25.60	26.00	12	4	£42.81
ABM0.4-64	64	25.60	17.30	26.40	26.80	12	4	£43.30
ABM0.4-68	68	27.20	18.10	28.00	28.40	12	4	£44.35
ABM0.4-70	70	28.00	18.50	28.80	29.20	12	4	£44.88
ABM0.4-72	72	28.80	18.90	29.60	30.00	12	5	£45.43
ABM0.4-75	75	30.00	19.50	30.80	31.20	12	5	£45.92
ABM0.4-76	76	30.40	19.70	31.20	31.60	12	5	£46.48
ABM0.4-80	80	32.00	20.50	32.80	33.20	12	5	£46.91
ABM0.4-84	84	33.60	21.30	34.40	34.80	12	5	£47.98
ABM0.4-85	85	34.00	21.50	34.80	35.20	12	5	£48.05
ABM0.4-86	86	34.40	21.70	35.20	35.60	12	5	£50.15
ABM0.4-90	90	36.00	22.50	36.80	37.20	12	5	£51.23
ABM0.4-92	92	36.80	22.90	37.60	38.00	12	5	£52.29
ABM0.4-94	94	37.60	23.30	38.40	38.80	12	5	£53.38
ABM0.4-96	96	38.40	23.70	39.20	39.60	12	5	£54.41
ABM0.4-100	100	40.00	24.50	40.80	41.20	12	5	£55.47
ABM0.4-110	110	44.00	26.50	44.80	45.20	12	5	£61.22
ABM0.4-120	120	48.00	28.50	48.80	49.20	12	5	£67.31
ABM0.4-130	130	52.00	30.50	52.80	53.20	12	5	£78.25
ABM0.4-140	140	56.00	32.50	56.80	57.20	12	5	£85.69
ABM0.4-150	150	60.00	34.50	60.80	61.20	20	5	£91.87
ABM0.4-200	200	80.00	44.50	80.80	81.20	20	6	£123.00
ABM0.4-300	300	120.00	64.50	120.80	121.20	20	6	£143.15

16.2



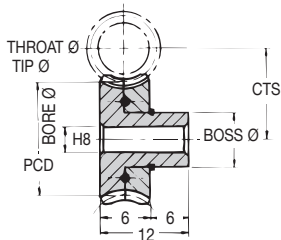
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Anti-backlash Wormwheels**

STD : Phosphor Bronze PB2

SPECIAL TEETH : between 50 - 160

0.5 MOD



DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT with std worm
TORQUE Nm	0.10
K.W.	0.0002

20° Pressure Angle

Anti-backlash

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	THROAT Ø (mm)	TIP Ø (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5
ABM0.5-50	50	25.00	18.50	26.00	26.50	13	6	£43.30
ABM0.5-52	52	26.00	19.00	27.00	27.50	13	6	£43.98
ABM0.5-55	55	27.50	19.75	28.50	29.00	13	6	£44.67
ABM0.5-58	58	29.00	20.50	30.00	30.50	13	6	£45.36
ABM0.5-60	60	30.00	21.00	31.00	31.50	13	6	£46.05
ABM0.5-62	62	31.00	21.50	32.00	32.50	13	6	£46.69
ABM0.5-65	65	32.50	22.25	33.50	34.00	13	6	£47.44
ABM0.5-68	68	34.00	23.00	35.00	35.50	13	6	£47.98
ABM0.5-70	70	35.00	23.50	36.00	36.50	13	6	£49.00
ABM0.5-72	72	36.00	24.00	37.00	37.50	13	6	£50.10
ABM0.5-75	75	37.50	24.75	38.50	39.00	13	6	£51.10
ABM0.5-78	78	39.00	25.50	40.00	40.50	13	6	£52.15
ABM0.5-80	80	40.00	26.00	41.00	41.50	13	6	£53.20
ABM0.5-82	82	41.00	26.50	42.00	42.50	13	6	£53.94
ABM0.5-85	85	42.50	27.25	43.50	44.00	13	6	£54.70
ABM0.5-88	88	44.00	28.00	45.00	45.50	13	6	£55.42
ABM0.5-90	90	45.00	28.50	46.00	46.50	13	6	£56.12
ABM0.5-92	92	46.00	29.00	47.00	47.50	13	6	£56.83
ABM0.5-95	95	47.50	29.75	48.50	49.00	13	6	£57.57
ABM0.5-96	96	48.00	30.00	49.00	49.50	13	6	£58.26
ABM0.5-98	98	49.00	30.50	50.00	50.50	13	6	£58.95
ABM0.5-100	100	50.00	31.00	51.00	51.50	13	6	£59.86
ABM0.5-110	110	55.00	33.50	56.00	56.50	13	6	£72.73
ABM0.5-120	120	60.00	36.00	61.00	61.50	13	6	£79.61
ABM0.5-140	140	70.00	41.00	71.00	71.50	13	6	£86.47
ABM0.5-150	150	75.00	43.50	76.00	76.50	13	6	£91.26
ABM0.5-160	160	80.00	46.00	81.00	81.50	13	6	£96.09

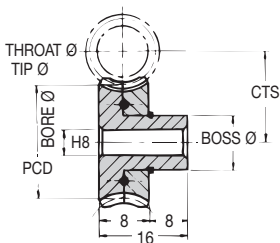
Wormwheels MOD 0.5



Anti-backlash Wormwheels Materials

0.8 MOD

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 48 - 150



20° Pressure Angle

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT
	with std worm
TORQUE Nm	0.28
K.W.	0.0006

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Anti-backlash Wormwheels MOD 0.8

PART NUMBER	TEETH	PCD mm	CTS mm	THROAT Ø mm	TIP Ø mm	BOSS Ø mm	BORE Ø mm	PRICE EACH 1-5
ABM0.8-48	48	38.40	25.20	40.00	40.80	20	8	£57.26
ABM0.8-50	50	40.00	26.00	41.60	42.40	20	8	£59.49
ABM0.8-52	52	41.60	26.80	43.20	44.00	20	8	£61.72
ABM0.8-54	54	43.20	27.60	44.80	45.60	20	8	£63.91
ABM0.8-55	55	44.00	28.00	45.60	46.40	20	8	£66.12
ABM0.8-58	58	46.40	29.20	48.00	48.80	20	8	£68.34
ABM0.8-60	60	48.00	30.00	49.60	50.40	20	8	£70.57
ABM0.8-62	62	49.60	30.80	51.20	52.00	20	8	£72.73
ABM0.8-64	64	51.20	31.60	52.80	53.60	20	8	£76.12
ABM0.8-65	65	52.00	32.00	53.60	54.40	20	8	£79.52
ABM0.8-68	68	54.40	33.20	56.00	56.80	20	8	£82.87
ABM0.8-70	70	56.00	34.00	57.60	58.40	20	8	£86.23
ABM0.8-72	72	57.60	34.80	59.20	60.00	20	8	£89.65
ABM0.8-75	75	60.00	36.00	61.60	62.40	20	8	£92.98
ABM0.8-78	78	62.40	37.20	64.00	64.80	20	8	£95.39
ABM0.8-80	80	64.00	38.00	65.60	66.40	20	8	£97.92
ABM0.8-82	82	65.60	38.80	67.20	68.00	20	8	£100.38
ABM0.8-85	85	68.00	40.00	69.60	70.40	20	8	£102.83
ABM0.8-88	88	70.40	41.20	72.00	72.80	20	8	£105.31
ABM0.8-90	90	72.00	42.00	73.60	74.40	20	8	£107.74
ABM0.8-94	94	75.20	43.60	76.80	77.60	20	8	£110.25
ABM0.8-96	96	76.80	44.40	78.40	79.20	20	8	£112.74
ABM0.8-100	100	80.00	46.00	81.60	82.40	20	8	£117.45
ABM0.8-110	110	88.00	50.00	89.60	90.40	20	8	£122.15
ABM0.8-120	120	96.00	54.00	97.60	98.40	20	8	£126.87
ABM0.8-150	150	120.00	66.00	121.60	122.40	20	8	£153.14

16.4



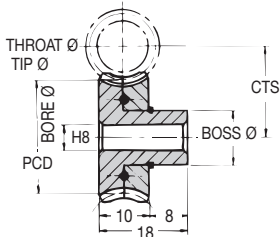
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Anti-backlash Wormwheels**

STD : Phosphor Bronze PB2

SPECIAL TEETH : between 48 - 150

1 MOD



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK	50 TEETH x 1000 R.P.M. INPUT
variations at back	with std worm
TORQUE Nm	0.584
K.W.	0.0012

20° Pressure Angle

Anti-backlash

PART NUMBER	TEETH	PCD mm	CTS mm	THROAT Ø mm	TIP Ø mm	BOSS Ø mm	BORE Ø mm	PRICE EACH 1-5
ABM1-48	48	48	31.50	50	51	25	10	£84.56
ABM1-50	50	50	32.50	52	53	25	10	£87.80
ABM1-52	52	52	33.50	54	55	25	10	£91.04
ABM1-54	54	54	34.50	56	57	25	10	£94.23
ABM1-55	55	55	35.00	57	58	25	10	£97.42
ABM1-58	58	58	36.50	60	61	25	10	£100.69
ABM1-60	60	60	37.50	62	63	25	10	£103.90
ABM1-62	62	62	38.50	64	65	25	10	£107.92
ABM1-64	64	64	39.50	66	67	25	10	£111.94
ABM1-65	65	65	40.00	67	68	25	10	£115.97
ABM1-68	68	68	41.50	70	71	25	10	£119.99
ABM1-70	70	70	42.50	72	73	25	10	£124.01
ABM1-72	72	72	43.50	74	75	25	10	£127.95
ABM1-75	75	75	45.00	77	78	25	10	£131.76
ABM1-78	78	78	46.50	80	81	25	10	£135.55
ABM1-80	80	80	47.50	82	83	25	10	£139.33
ABM1-82	82	82	48.50	84	85	25	10	£143.15
ABM1-85	85	85	50.00	87	88	25	10	£146.93
ABM1-88	88	88	51.50	90	91	25	10	£150.79
ABM1-90	90	90	52.50	92	93	25	10	£154.51
ABM1-94	94	94	54.50	96	97	25	10	£161.82
ABM1-96	96	96	55.50	98	99	25	10	£169.12
ABM1-100	100	100	57.50	102	103	25	10	£176.46
ABM1-110	110	110	62.50	112	113	30	10	£220.99
ABM1-120	120	120	67.50	122	123	30	10	£265.50
ABM1-150	150	150	82.50	152	153	30	10	£370.30

Wormwheels MOD 1

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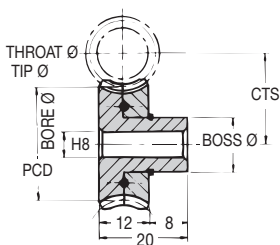


16.5

Anti-backlash Wormwheels Materials

1.25 MOD

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 45 - 120



20° Pressure Angle

TORQUE CHECK	50 TEETH x 1000 R.P.M. INPUT
variations at back	with std worm
TORQUE Nm	1.14
K.W.	0.024

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Anti-backlash Wormwheels

MOD 1.25

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	THROAT Ø (mm)	TIP Ø (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5
ABM1.25-45	45	56.25	36.13	58.75	60.00	25	10	£95.59
ABM1.25-48	48	60.00	38.00	62.50	63.75	25	10	£100.31
ABM1.25-50	50	62.50	39.25	65.00	66.25	25	10	£107.00
ABM1.25-52	52	65.00	40.50	67.50	68.75	32	12	£109.79
ABM1.25-54	54	67.50	41.75	70.00	71.25	32	12	£114.53
ABM1.25-55	55	68.75	42.38	71.25	72.50	32	12	£119.29
ABM1.25-58	58	72.50	44.25	75.00	76.25	32	12	£124.01
ABM1.25-60	60	75.00	45.50	77.50	78.75	32	12	£128.84
ABM1.25-62	62	77.50	46.75	80.00	81.25	32	12	£133.73
ABM1.25-64	64	80.00	48.00	82.50	83.75	32	12	£138.61
ABM1.25-65	65	81.25	48.63	83.75	85.00	32	12	£143.53
ABM1.25-68	68	85.00	50.50	87.50	88.75	32	12	£151.20
ABM1.25-70	70	87.50	51.75	90.00	91.25	32	12	£153.38
ABM1.25-72	72	90.00	53.00	92.50	93.75	32	12	£158.15
ABM1.25-74	74	92.50	54.25	95.00	96.25	32	12	£162.96
ABM1.25-75	75	93.75	54.88	96.25	97.50	32	12	£167.72
ABM1.25-78	78	97.50	56.75	100.00	101.25	32	12	£172.50
ABM1.25-80	80	100.00	58.00	102.50	103.75	32	12	£177.29
ABM1.25-82	82	102.50	59.25	105.00	106.25	32	12	£196.75
ABM1.25-85	85	106.25	61.13	108.75	110.00	32	12	£216.14
ABM1.25-88	88	110.00	63.00	112.50	113.75	32	12	£235.56
ABM1.25-90	90	112.50	64.25	115.00	116.25	32	12	£254.99
ABM1.25-95	95	118.75	67.38	121.25	122.50	50	12	£274.47
ABM1.25-98	98	122.50	69.25	125.00	126.25	50	12	£293.90
ABM1.25-100	100	125.00	70.50	127.50	128.75	50	12	£313.37
ABM1.25-110	110	137.50	76.75	140.00	141.25	50	12	£364.26
ABM1.25-120	120	150.00	83.00	152.50	153.75	50	12	£415.13

16.6



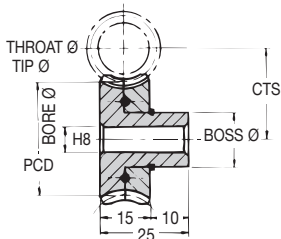
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Anti-backlash Wormwheels**

STD : Phosphor Bronze PB2

SPECIAL TEETH : between 40 - 95

1.5 MOD



DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK	50 TEETH x 1000 R.P.M. INPUT
variations at back	with std worm
TORQUE Nm	1.74
K.W.	0.0034

20° Pressure Angle

Anti-backlash

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	THROAT Ø (mm)	TIP Ø (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5
ABM1.5-40	40	60.00	40.00	63.00	64.50	30	15	£104.47
ABM1.5-42	42	63.00	41.50	66.00	67.50	30	15	£119.04
ABM1.5-44	44	66.00	43.00	69.00	70.50	30	15	£133.60
ABM1.5-45	45	67.50	43.75	70.50	72.00	30	15	£148.19
ABM1.5-48	48	72.00	46.00	75.00	76.50	30	15	£162.69
ABM1.5-50	50	75.00	47.50	78.00	79.50	30	15	£177.27
ABM1.5-52	52	78.00	49.00	81.00	82.50	30	15	£191.83
ABM1.5-54	54	81.00	50.50	84.00	85.50	30	15	£206.38
ABM1.5-55	55	82.50	51.25	85.50	87.00	30	15	£215.56
ABM1.5-58	58	87.00	53.50	90.00	91.50	30	15	£224.78
ABM1.5-60	60	90.00	55.00	93.00	94.50	30	15	£233.97
ABM1.5-62	62	93.00	56.50	96.00	97.50	30	15	£243.15
ABM1.5-64	64	96.00	58.00	99.00	100.50	30	15	£252.36
ABM1.5-65	65	97.50	58.75	100.50	102.00	30	15	£261.47
ABM1.5-68	68	102.00	61.00	105.00	106.50	30	15	£279.21
ABM1.5-70	70	105.00	62.50	108.00	109.50	30	15	£296.83
ABM1.5-72	72	108.00	64.00	111.00	112.50	30	15	£314.18
ABM1.5-74	74	111.00	65.50	114.00	115.50	30	15	£332.41
ABM1.5-75	75	112.50	66.25	115.50	117.00	30	15	£350.11
ABM1.5-78	78	117.00	68.50	120.00	121.50	30	15	£367.87
ABM1.5-80	80	120.00	70.00	123.00	124.50	30	15	£385.63
ABM1.5-82	82	123.00	71.50	126.00	127.50	30	15	£409.47
ABM1.5-85	85	127.50	73.75	130.50	132.00	30	15	£429.37
ABM1.5-88	88	132.00	76.00	135.00	136.50	30	15	£451.26
ABM1.5-90	90	135.00	77.50	138.00	139.50	30	15	£473.12
ABM1.5-92	92	138.00	79.00	141.00	142.50	30	15	£494.97
ABM1.5-95	95	142.50	81.25	145.50	147.00	30	15	£516.90

Wormwheels MOD 1.5

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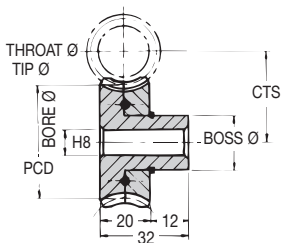


16.7

Anti-backlash Wormwheels *Materials*

2 MOD

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 40 - 80



20° Pressure Angle

TORQUE CHECK	50 TEETH x 1000 R.P.M. INPUT
variations at back	with std worm
TORQUE Nm	4.50
K.W.	0.0094

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Anti-backlash Wormwheels

MOD 2

PART NUMBER	TEETH	PCD (mm)	CTS (mm)	THROAT Ø (mm)	TIP Ø (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5
ABM2-40	40	80	52.50	84	86	50	20	£168.68
ABM2-42	42	84	54.50	88	90	50	20	£192.03
ABM2-44	44	88	56.50	92	94	50	20	£215.45
ABM2-45	45	90	57.50	94	96	50	20	£238.84
ABM2-46	46	92	58.50	96	98	50	20	£262.24
ABM2-48	48	96	60.50	100	102	50	20	£285.63
ABM2-50	50	100	62.50	104	106	50	20	£298.80
ABM2-52	52	104	64.50	108	110	50	20	£311.92
ABM2-54	54	108	66.50	112	114	50	20	£325.10
ABM2-55	55	110	67.50	114	116	50	20	£338.25
ABM2-56	56	112	68.50	116	118	50	20	£351.40
ABM2-58	58	116	70.50	120	122	50	20	£366.04
ABM2-60	60	120	72.50	124	126	50	20	£380.70
ABM2-62	62	124	74.50	128	130	50	20	£395.33
ABM2-64	64	128	76.50	132	134	50	20	£410.02
ABM2-65	65	130	77.50	134	136	50	20	£424.67
ABM2-66	66	132	78.50	136	138	50	20	£439.29
ABM2-68	68	136	80.50	140	142	50	20	£453.96
ABM2-70	70	140	82.50	144	146	50	20	£476.43
ABM2-72	72	144	84.50	148	150	50	20	£498.91
ABM2-74	74	148	86.50	152	154	50	20	£521.38
ABM2-75	75	150	87.50	154	156	50	20	£543.90
ABM2-76	76	152	88.50	156	158	50	20	£566.34
ABM2-78	78	156	90.50	160	162	50	20	£588.82
ABM2-80	80	160	92.50	164	166	50	20	£611.26

16.8

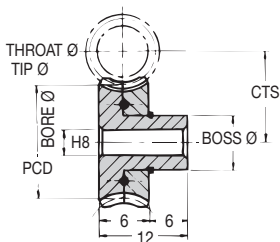


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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Anti-backlash Wormwheels *Materials*

48 DP

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 50 - 160



20° Pressure Angle

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT
	with std worm
TORQUE Nm	0.104
K.W.	0.00224

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

DP 48

Anti-backlash Wormwheels

PART NUMBER	TEETH	PCD (ins)	CTS (ins)	THROAT Ø (ins)	TIP Ø (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5
ABM48-50	50	1.042	0.771	1.083	1.104	0.500	0.250	£43.30
ABM48-52	52	1.083	0.792	1.125	1.146	0.500	0.250	£43.98
ABM48-55	55	1.146	0.823	1.188	1.208	0.500	0.250	£44.67
ABM48-58	58	1.208	0.854	1.250	1.271	0.500	0.250	£45.36
ABM48-60	60	1.250	0.875	1.292	1.313	0.500	0.250	£46.05
ABM48-62	62	1.292	0.896	1.333	1.354	0.500	0.250	£46.69
ABM48-65	65	1.354	0.927	1.396	1.417	0.500	0.250	£47.44
ABM48-68	68	1.417	0.958	1.458	1.479	0.500	0.250	£47.98
ABM48-70	70	1.458	0.979	1.500	1.521	0.500	0.250	£49.00
ABM48-72	72	1.500	1.000	1.542	1.563	0.500	0.250	£50.10
ABM48-75	75	1.563	1.031	1.604	1.625	0.500	0.250	£51.10
ABM48-78	78	1.625	1.063	1.667	1.688	0.500	0.250	£52.15
ABM48-80	80	1.667	1.083	1.708	1.729	0.500	0.250	£53.20
ABM48-82	82	1.708	1.104	1.750	1.771	0.500	0.250	£53.94
ABM48-85	85	1.771	1.135	1.813	1.833	0.500	0.250	£54.70
ABM48-88	88	1.833	1.167	1.875	1.896	0.500	0.250	£55.42
ABM48-90	90	1.875	1.188	1.917	1.938	0.500	0.250	£56.12
ABM48-92	92	1.917	1.208	1.958	1.979	0.500	0.250	£56.83
ABM48-95	95	1.979	1.240	2.021	2.042	0.500	0.250	£57.57
ABM48-96	96	2.000	1.250	2.042	2.063	0.750	0.250	£58.26
ABM48-98	98	2.042	1.271	2.083	2.104	0.750	0.250	£58.95
ABM48-100	100	2.083	1.292	2.125	2.146	0.750	0.250	£58.86
ABM48-110	110	2.292	1.396	2.333	2.354	0.750	0.250	£72.73
ABM48-120	120	2.500	1.500	2.542	2.563	0.750	0.250	£78.99
ABM48-140	140	2.917	1.708	2.958	2.979	0.750	0.250	£86.47
ABM48-150	150	3.125	1.813	3.167	3.188	0.750	0.250	£91.26
ABM48-160	160	3.333	1.917	3.375	3.396	0.750	0.250	£96.09

16.10



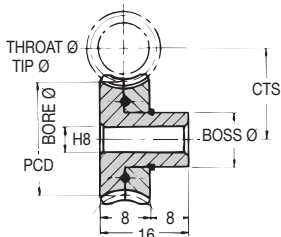
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Anti-backlash Wormwheels**

STD : Phosphor Bronze PB₂

SPECIAL TEETH : between 48 - 150

32 DP



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT with std worm
TORQUE Nm	0.288
K.W.	0.00616

20° Pressure Angle

PART NUMBER	TEETH	PCD (ins)	CTS (ins)	THROAT Ø (ins)	TIP Ø (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5
ABM32-48	48	1.500	1.000	1.563	1.594	0.625	0.250	£57.26
ABM32-50	50	1.563	1.031	1.625	1.656	0.625	0.250	£59.49
ABM32-52	52	1.625	1.063	1.688	1.719	0.625	0.250	£61.72
ABM32-54	54	1.688	1.094	1.750	1.781	0.625	0.250	£63.91
ABM32-55	55	1.719	1.109	1.781	1.813	0.625	0.250	£66.12
ABM32-58	58	1.813	1.156	1.875	1.906	0.625	0.250	£68.34
ABM32-60	60	1.875	1.188	1.938	1.969	0.625	0.250	£70.57
ABM32-62	62	1.938	1.219	2.000	2.031	0.625	0.250	£72.73
ABM32-64	64	2.000	1.250	2.063	2.094	0.750	0.312	£76.12
ABM32-65	65	2.031	1.266	2.094	2.125	0.750	0.312	£79.52
ABM32-68	68	2.125	1.313	2.188	2.219	0.750	0.312	£82.87
ABM32-70	70	2.188	1.344	2.250	2.281	0.750	0.312	£86.23
ABM32-72	72	2.250	1.375	2.313	2.344	0.750	0.312	£89.65
ABM32-75	75	2.344	1.422	2.406	2.438	0.750	0.312	£92.98
ABM32-78	78	2.438	1.469	2.500	2.531	0.750	0.312	£95.39
ABM32-80	80	2.500	1.500	2.563	2.594	0.750	0.312	£97.92
ABM32-82	82	2.563	1.531	2.625	2.656	0.750	0.312	£100.38
ABM32-85	85	2.656	1.578	2.719	2.750	0.750	0.312	£102.83
ABM32-88	88	2.750	1.625	2.813	2.844	0.750	0.312	£105.31
ABM32-90	90	2.813	1.656	2.875	2.906	0.750	0.312	£107.74
ABM32-94	94	2.938	1.719	3.000	3.031	0.750	0.312	£110.25
ABM32-96	96	3.000	1.750	3.063	3.094	0.750	0.312	£112.74
ABM32-100	100	3.125	1.813	3.188	3.219	0.750	0.312	£117.45
ABM32-110	110	3.438	1.969	3.500	3.531	0.750	0.312	£122.15
ABM32-120	120	3.750	2.125	3.813	3.844	0.750	0.312	£126.87
ABM32-150	150	4.688	2.594	4.750	4.781	0.750	0.312	£153.14

Anti-backlash

Wormwheels DP 32

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

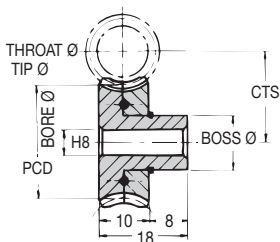


16.11

Anti-backlash Wormwheels Materials

24 DP

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 48 - 150



20° Pressure Angle

TORQUE CHECK	50 TEETH x 1000 R.P.M. INPUT
variations at back	with std worm
TORQUE Nm	0.576
K.W.	0.0092

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Anti-backlash Wormwheels DP 24

PART NUMBER	TEETH	PCD (ins)	CTS (ins)	THROAT Ø (ins)	TIP Ø (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5
ABM24-48	48	2.000	1.313	2.083	2.125	0.750	0.375	£84.56
ABM24-50	50	2.083	1.354	2.167	2.208	0.750	0.375	£87.80
ABM24-52	52	2.167	1.396	2.250	2.292	0.750	0.375	£91.04
ABM24-54	54	2.250	1.438	2.333	2.375	0.750	0.375	£94.23
ABM24-55	55	2.292	1.458	2.375	2.417	0.750	0.375	£97.42
ABM24-58	58	2.417	1.521	2.500	2.542	0.750	0.375	£100.69
ABM24-60	60	2.500	1.563	2.583	2.625	0.750	0.375	£103.90
ABM24-62	62	2.583	1.604	2.667	2.708	0.750	0.375	£107.92
ABM24-64	64	2.667	1.646	2.750	2.792	0.750	0.375	£111.94
ABM24-65	65	2.708	1.667	2.792	2.833	0.750	0.375	£115.97
ABM24-68	68	2.833	1.729	2.917	2.958	0.750	0.375	£119.99
ABM24-70	70	2.917	1.771	3.000	3.042	0.750	0.375	£124.01
ABM24-72	72	3.000	1.813	3.083	3.125	0.750	0.375	£127.95
ABM24-75	75	3.125	1.875	3.208	3.250	0.750	0.375	£131.76
ABM24-78	78	3.250	1.938	3.333	3.375	0.750	0.375	£135.55
ABM24-80	80	3.333	1.979	3.417	3.458	0.750	0.375	£139.33
ABM24-82	82	3.417	2.021	3.500	3.542	0.750	0.375	£143.15
ABM24-85	85	3.542	2.083	3.625	3.667	0.750	0.375	£146.93
ABM24-88	88	3.667	2.146	3.750	3.792	0.750	0.375	£150.79
ABM24-90	90	3.750	2.188	3.833	3.875	0.750	0.375	£154.51
ABM24-94	94	3.917	2.271	4.000	4.042	0.750	0.375	£161.82
ABM24-96	96	4.000	2.313	4.083	4.125	0.750	0.375	£169.12
ABM24-100	100	4.167	2.396	4.250	4.292	0.750	0.375	£176.46
ABM24-110	110	4.583	2.604	4.667	4.708	1.000	0.500	£220.99
ABM24-120	120	5.000	2.813	5.083	5.125	1.000	0.500	£265.50
ABM24-150	150	6.250	2.438	6.333	6.375	1.000	0.500	£370.30

16.12



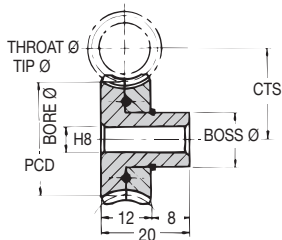
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Anti-backlash Wormwheels**

STD : Phosphor Bronze PB2

SPECIAL TEETH : between 45 - 120

20 DP



DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK	50 TEETH x 1000 R.P.M. INPUT
variations at back	with std worm
TORQUE Nm	1.12
K.W.	0.0232

20° Pressure Angle

PART NUMBER	TEETH	PCD (ins)	CTS (ins)	THROAT Ø (ins)	TIP Ø (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5
ABM20-45	45	2.250	1.438	2.350	2.400	1.000	0.375	£95.59
ABM20-48	48	2.400	1.513	2.500	2.550	1.000	0.375	£100.31
ABM20-50	50	2.500	1.563	2.600	2.650	1.000	0.375	£105.04
ABM20-52	52	2.600	1.613	2.700	2.750	1.250	0.500	£109.79
ABM20-54	54	2.700	1.663	2.800	2.850	1.250	0.500	£114.53
ABM20-55	55	2.750	1.688	2.850	2.900	1.250	0.500	£119.29
ABM20-58	58	2.900	1.763	3.000	3.050	1.250	0.500	£124.01
ABM20-60	60	3.000	1.813	3.100	3.150	1.250	0.500	£128.84
ABM20-62	62	3.100	1.863	3.200	3.250	1.250	0.500	£133.73
ABM20-64	64	3.200	1.913	3.300	3.350	1.250	0.500	£138.61
ABM20-65	65	3.250	1.938	3.350	3.400	1.250	0.500	£143.53
ABM20-68	68	3.400	2.013	3.500	3.550	1.250	0.500	£148.46
ABM20-70	70	3.500	2.063	3.600	3.650	1.250	0.500	£153.38
ABM20-72	72	3.600	2.113	3.700	3.750	1.250	0.500	£158.15
ABM20-74	74	3.700	2.163	3.800	3.850	1.250	0.500	£162.96
ABM20-75	75	3.750	2.188	3.850	3.900	1.250	0.500	£167.72
ABM20-78	78	3.900	2.263	4.000	4.050	1.250	0.500	£172.50
ABM20-80	80	4.000	2.313	4.100	4.150	1.250	0.500	£177.29
ABM20-82	82	4.100	2.363	4.200	4.250	1.250	0.500	£196.75
ABM20-85	85	4.250	2.438	4.350	4.400	1.250	0.500	£216.14
ABM20-88	88	4.400	2.513	4.500	4.550	1.250	0.500	£235.56
ABM20-90	90	4.500	2.563	4.600	4.650	1.250	0.500	£254.99
ABM20-95	95	4.750	2.688	4.850	4.900	2.000	0.500	£274.47
ABM20-98	98	4.900	2.763	5.000	5.050	2.000	0.500	£293.90
ABM20-100	100	5.000	2.813	5.100	5.150	2.000	0.500	£313.37
ABM20-110	110	5.500	3.063	5.600	5.650	2.000	0.500	£364.26
ABM20-120	120	6.000	3.313	6.100	6.150	2.000	0.500	£415.13

Anti-backlash

Wormwheels DP 20

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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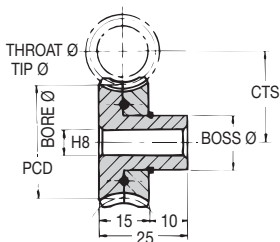


16.13

Anti-backlash Wormwheels *Materials*

16 DP

STD : Phosphor Bronze PB2
SPECIAL TEETH : between 40 - 95



20° Pressure Angle

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT
	with std worm
TORQUE Nm	2.00
K.W.	0.04192

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Anti-backlash Wormwheels

DP 16

PART NUMBER	TEETH	PCD (ins)	CTS (ins)	THROAT Ø (ins)	TIP Ø (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5
ABM16-40	40	2.500	1.625	2.625	2.688	1.250	0.625	£104.47
ABM16-42	42	2.625	1.688	2.750	2.813	1.250	0.625	£119.04
ABM16-44	44	2.750	1.750	2.875	2.938	1.250	0.625	£133.60
ABM16-45	45	2.813	1.781	2.938	3.000	1.250	0.625	£148.19
ABM16-48	48	3.000	1.875	3.125	3.188	1.250	0.625	£162.69
ABM16-50	50	3.125	1.938	3.250	3.313	1.250	0.625	£177.27
ABM16-52	52	3.250	2.000	3.375	3.438	1.250	0.625	£191.83
ABM16-54	54	3.375	2.063	3.500	3.563	1.250	0.625	£206.38
ABM16-55	55	3.438	2.094	3.563	3.625	1.250	0.625	£215.56
ABM16-58	58	3.625	2.188	3.750	3.813	1.250	0.625	£224.78
ABM16-60	60	3.750	2.250	3.875	3.938	1.250	0.625	£233.97
ABM16-62	62	3.875	2.313	4.000	4.063	1.250	0.625	£243.15
ABM16-64	64	4.000	2.375	4.125	4.188	1.250	0.625	£252.36
ABM16-65	65	4.063	2.406	4.188	4.250	1.250	0.625	£261.47
ABM16-68	68	4.250	2.500	4.375	4.438	1.250	0.625	£279.21
ABM16-70	70	4.375	2.563	4.500	4.563	1.250	0.625	£296.93
ABM16-72	72	4.500	2.625	4.625	4.688	1.250	0.625	£314.68
ABM16-74	74	4.625	2.688	4.750	4.813	2.000	0.625	£332.41
ABM16-75	75	4.688	2.719	4.813	4.875	2.000	0.625	£350.11
ABM16-78	78	4.875	2.813	5.000	5.063	2.000	0.625	£367.87
ABM16-80	80	5.000	2.875	5.125	5.188	2.000	0.625	£385.63
ABM16-82	82	5.125	2.938	5.250	5.313	2.000	0.625	£407.47
ABM16-85	85	5.313	3.031	5.438	5.500	2.000	0.625	£429.37
ABM16-88	88	5.500	3.125	5.625	5.688	2.000	0.625	£451.26
ABM16-90	90	5.625	3.188	5.750	5.813	2.000	0.625	£473.12
ABM16-92	92	5.750	3.250	5.875	5.938	2.000	0.625	£494.97
ABM16-95	95	5.938	3.344	6.063	6.125	2.000	0.625	£516.90

16.14



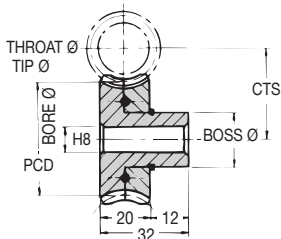
Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials **Anti-backlash Wormwheels**

STD : Phosphor Bronze PB2

SPECIAL TEETH : between 40 - 80

12 DP



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT with std worm
TORQUE Nm	4.80
K.W.	0.10

20° Pressure Angle

PART NUMBER	TEETH	PCD (ins)	CTS (ins)	THROAT Ø (ins)	TIP Ø (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5
ABM12-40	40	3.333	2.167	3.500	3.583	1.500	0.625	£168.68
ABM12-42	42	3.500	2.250	3.667	3.750	1.500	0.625	£192.03
ABM12-44	44	3.667	2.333	3.833	3.917	1.500	0.625	£215.45
ABM12-45	45	3.750	2.375	3.917	4.000	1.500	0.625	£238.84
ABM12-46	46	3.833	2.417	4.000	4.083	1.500	0.625	£262.24
ABM12-48	48	4.000	2.500	4.167	4.250	1.500	0.625	£285.63
ABM12-50	50	4.167	2.583	4.333	4.417	1.500	0.625	£298.80
ABM12-52	52	4.333	2.667	4.500	4.583	1.500	0.625	£311.92
ABM12-54	54	4.500	2.750	4.667	4.750	1.500	0.625	£325.10
ABM12-55	55	4.583	2.792	4.750	4.833	1.500	0.625	£338.25
ABM12-56	56	4.667	2.833	4.833	4.917	1.500	0.625	£351.40
ABM12-58	58	4.833	2.917	5.000	5.083	1.750	0.750	£366.04
ABM12-60	60	5.000	3.000	5.167	5.250	1.750	0.750	£380.70
ABM12-62	62	5.167	3.083	5.333	5.417	1.750	0.750	£395.33
ABM12-64	64	5.333	3.167	5.500	5.583	1.750	0.750	£410.02
ABM12-65	65	5.417	3.208	5.583	5.667	1.750	0.750	£424.67
ABM12-66	66	5.500	3.250	5.667	5.750	1.750	0.750	£439.29
ABM12-68	68	5.667	3.333	5.833	5.917	1.750	0.750	£453.96
ABM12-70	70	5.833	3.417	6.000	6.083	1.750	0.750	£476.43
ABM12-72	72	6.000	3.500	6.167	6.250	1.750	0.750	£498.91
ABM12-74	74	6.167	3.583	6.333	6.417	2.000	0.750	£521.38
ABM12-75	75	6.250	3.625	6.417	6.500	2.000	0.750	£543.90
ABM12-76	76	6.333	3.667	6.500	6.583	2.000	0.750	£566.34
ABM12-78	78	6.500	3.750	6.667	6.750	2.000	0.750	£588.82
ABM12-80	80	6.667	3.833	6.833	6.917	2.000	0.750	£611.26

Anti-backlash

Wormwheels Dp 12

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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16.15

TECHNICAL REQUEST

Non-Standard Internal Gears

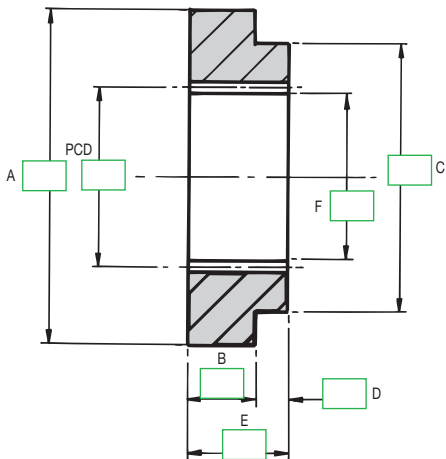
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size and fax on

+44 (0)1246 260003

QUANTITY	_____	BOSS WIDTH (D)	_____
MATERIAL	_____	OVERALL WIDTH (E)	_____
NUMBER OF TEETH	_____	INTERNAL DIAMETER (F)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
FACE WIDTH (B)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS DIAMETER (C)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>

SPECIAL FEATURES



Internal Gears

Pages 17.2-17.15



For non-standard Internal Gears use form on opposite page or send a drawing or sample for a free, no-obligation quote.

Internal Gears

Materials

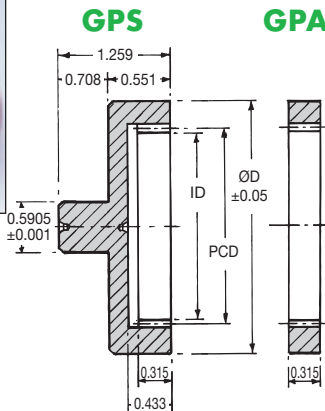
96-16 DP

STD : Steel 214M15/045M10

Other numbers of teeth available.



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Steel DP 96-16
Internal Gears

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ID (ins)	ØD (ins)	PRICE EACH 1-5	
						GPS	GPA
GPS96-120	96	120	1.250	1.229	1.968	£52.51	£41.97
GPS96-150	96	150	1.563	1.542	1.968	£54.28	£43.41
GPS96-180	96	180	1.875	1.855	2.362	£56.03	£44.79
GPS72-108	72	108	1.500	1.472	2.362	£56.50	£44.91
GPS72-126	72	126	1.750	1.722	2.362	£56.98	£45.55
GPS72-144	72	144	2.000	1.972	2.362	£58.54	£46.84
GPS72-162	72	162	2.250	2.223	3.150	£66.58	£53.85
GPS48-60	48	60	1.250	1.208	2.362	£57.89	£46.27
GPS48-80	48	80	1.666	1.624	2.362	£59.23	£47.31
GPS48-100	48	100	2.083	2.041	2.362	£59.60	£47.66
GPS48-120	48	120	2.500	2.458	2.362	£61.09	£48.84
GPS48-140	48	140	2.916	2.874	3.150	£70.26	£56.19
GPS24-36	24	36	1.500	1.417	2.952	£57.89	£46.27
GPS24-40	24	40	1.667	1.583	2.952	£59.49	£47.60
GPS24-48	24	48	2.000	1.917	2.952	£60.31	£48.24
GPS24-60	24	60	2.500	2.417	2.952	£61.51	£49.18
GPS24-64	24	64	2.667	2.583	2.952	£62.22	£52.51
GPS24-68	24	68	2.833	2.750	3.150	£71.56	£60.41
GPS20-50	20	50	2.500	2.400	3.150	£67.38	£53.87
GPS20-54	20	54	2.700	2.600	3.150	£68.05	£54.38
GPS16-40	16	40	2.500	2.375	3.150	£67.38	£53.87
GPS16-42	16	42	2.625	2.500	3.150	£68.47	£55.08
GPS16-50	16	50	3.125	3.000	3.500	£77.46	£61.95

17.2



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials

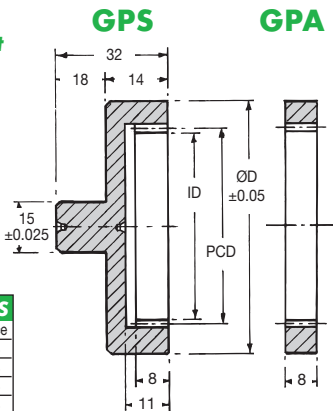
STD : Steel 214M15/045M10

Other numbers of teeth available.

Internal Gears

0.25 - 1.5 MOD

Torque is dependent upon the type of pinions used.



20° Pressure Angle

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ID (mm)	ØD (mm)	PRICE EACH 1-5	
						GPS	GPA
GPS0.25-120	0.25	120	30.00	29.50	50	£52.51	£41.97
GPS0.25-150	0.25	150	37.50	37.00	50	£54.28	£43.41
GPS0.25-200	0.25	200	50.00	49.50	75	£66.58	£53.21
GPS0.5-60	0.50	60	30.00	29.00	75	£57.89	£46.27
GPS0.5-80	0.50	80	40.00	39.00	75	£59.23	£47.35
GPS0.5-100	0.50	100	50.00	49.00	75	£59.60	£47.66
GPS0.5-120	0.50	120	60.00	59.00	75	£61.09	£48.84
GPS0.5-130	0.50	130	65.00	64.00	75	£62.95	£50.33
GPS0.5-140	0.50	140	70.00	69.00	80	£77.46	£61.95
GPS1-48	1.00	48	48.00	46.00	75	£60.63	£48.47
GPS1-50	1.00	50	50.00	48.00	75	£61.00	£48.80
GPS1-52	1.00	52	52.00	50.00	75	£61.83	£49.47
GPS1-56	1.00	56	56.00	54.00	75	£62.22	£49.76
GPS1-60	1.00	60	60.00	58.00	75	£62.95	£50.33
GPS1-64	1.00	64	64.00	62.00	75	£63.76	£50.98
GPS1-68	1.00	68	68.00	66.00	80	£77.46	£61.95
GPS1.25-50	1.25	50	62.50	60.00	80	£67.38	£53.87
GPS1.25-56	1.25	56	70.00	67.50	80	£68.47	£55.10
GPS1.25-62	1.25	62	77.50	75.00	90	£77.46	£61.95
GPS1.5-40	1.50	40	60.00	57.00	80	£67.38	£53.87
GPS1.5-45	1.50	45	67.50	64.50	80	£68.47	£55.08
GPS1.5-50	1.50	50	75.00	72.00	90	£77.46	£61.95

Internal Gears

Steel MOD 0.25-1.5



Internal Gears

Materials

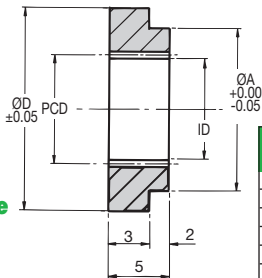
0.4 MOD

STD : Steel 214M15/045M10 and Delrin

SPECIAL TEETH : between 70 - 400



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

Internal Gears Steel & Plastic MOD 0.4

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
INO.4-70	ZINO.4-70	70	28.00	27.20	50	45	£19.94	£14.32
INO.4-72	ZINO.4-72	72	28.80	28.00	50	45	£21.06	£15.11
INO.4-74	ZINO.4-74	74	29.60	28.80	50	45	£22.12	£16.72
INO.4-76	ZINO.4-76	76	30.40	29.60	50	45	£23.25	£17.09
INO.4-78	ZINO.4-78	78	31.20	30.40	50	45	£24.37	£17.51
INO.4-80	ZINO.4-80	80	32.00	31.20	50	45	£25.43	£18.30
INO.4-84	ZINO.4-84	84	33.60	32.80	60	55	£26.37	£19.00
INO.4-86	ZINO.4-86	86	34.40	33.60	60	55	£26.95	£19.39
INO.4-90	ZINO.4-90	90	36.00	35.20	60	55	£27.43	£19.72
INO.4-92	ZINO.4-92	92	36.80	36.00	60	55	£27.98	£20.12
INO.4-94	ZINO.4-94	94	37.60	36.80	60	55	£28.55	£20.55
INO.4-96	ZINO.4-96	96	38.40	37.60	60	55	£29.05	£20.90
INO.4-98	ZINO.4-98	98	39.20	38.40	60	55	£29.60	£21.27
INO.4-100	ZINO.4-100	100	40.00	39.20	60	55	£30.09	£21.66
INO.4-102	ZINO.4-102	102	40.80	40.00	60	55	£30.72	£22.05
INO.4-106	ZINO.4-106	106	42.40	41.60	60	55	£31.16	£22.42
INO.4-108	ZINO.4-108	108	43.20	42.40	60	55	£31.68	£22.76
INO.4-110	ZINO.4-110	110	44.00	43.20	75	70	£32.32	£23.24
INO.4-115	ZINO.4-115	115	46.00	45.20	75	70	£32.99	£23.74
INO.4-120	ZINO.4-120	120	48.00	47.20	75	70	£33.64	£24.20
INO.4-125	ZINO.4-125	125	50.00	49.20	75	70	£34.34	£24.70
INO.4-127	ZINO.4-127	127	50.80	50.00	75	70	£34.99	£25.13
INO.4-130	ZINO.4-130	130	52.00	51.20	75	70	£35.70	£25.66
INO.4-135	ZINO.4-135	135	54.00	53.20	75	70	£36.35	£26.13
INO.4-140	ZINO.4-140	140	56.00	55.20	75	70	£37.06	£26.66
INO.4-145	ZINO.4-145	145	58.00	57.20	75	70	£37.71	£27.09
INO.4-150	ZINO.4-150	150	60.00	59.20	75	70	£38.36	£27.60
INO.4-200	ZINO.4-200	200	80.00	79.20	125	100	£51.06	£36.72
INO.4-250	ZINO.4-250	250	100.00	99.20	150	125	£57.62	£41.42
INO.4-300	ZINO.4-300	300	120.00	119.20	175	150	£76.64	£55.10
INO.4-400	ZINO.4-400	400	160.00	159.20	225	200	£101.94	£73.27



Materials

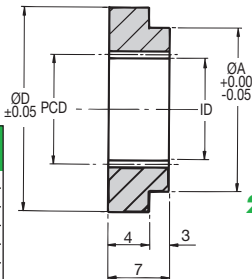
Internal Gears

STD : Steel 214M15/045M10 and Delrin

SPECIAL TEETH : between 60 - 400

0.5 MOD

Torque is dependent upon the type of pinions used.



20° Pressure Angle

DISCOUNTS			
Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN0.5-60	ZIN0.5-60	60	30.00	29.00	60	55	£21.10	£15.18
IN0.5-61	ZIN0.5-61	61	30.50	29.50	60	55	£21.96	£15.76
IN0.5-62	ZIN0.5-62	62	31.00	30.00	60	55	£22.75	£16.35
IN0.5-63	ZIN0.5-63	63	31.50	30.50	60	55	£23.54	£16.94
IN0.5-64	ZIN0.5-64	64	32.00	31.00	60	55	£24.38	£17.52
IN0.5-65	ZIN0.5-65	65	32.50	31.50	60	55	£25.18	£18.10
IN0.5-68	ZIN0.5-68	68	34.00	33.00	60	55	£26.04	£18.69
IN0.5-70	ZIN0.5-70	70	35.00	34.00	60	55	£26.86	£19.33
IN0.5-72	ZIN0.5-72	72	36.00	35.00	60	55	£27.64	£19.92
IN0.5-75	ZIN0.5-75	75	37.50	36.50	75	70	£28.39	£20.42
IN0.5-77	ZIN0.5-77	77	38.50	37.50	75	70	£29.37	£21.10
IN0.5-80	ZIN0.5-80	80	40.00	39.00	75	70	£30.39	£21.85
IN0.5-84	ZIN0.5-84	84	42.00	41.00	75	70	£31.35	£22.55
IN0.5-86	ZIN0.5-86	86	43.00	42.00	75	70	£32.40	£23.30
IN0.5-88	ZIN0.5-88	88	44.00	43.00	75	70	£33.43	£24.07
IN0.5-90	ZIN0.5-90	90	45.00	44.00	75	70	£34.47	£24.77
IN0.5-96	ZIN0.5-96	96	48.00	47.00	75	70	£35.44	£25.52
IN0.5-100	ZIN0.5-100	100	50.00	49.00	75	70	£36.45	£26.24
IN0.5-105	ZIN0.5-105	105	52.50	51.50	100	94	£37.65	£27.04
IN0.5-110	ZIN0.5-110	110	55.00	54.00	100	94	£38.16	£27.43
IN0.5-115	ZIN0.5-115	115	57.50	56.50	100	94	£38.77	£27.88
IN0.5-120	ZIN0.5-120	120	60.00	59.00	100	94	£39.34	£28.28
IN0.5-125	ZIN0.5-125	125	62.50	61.50	100	94	£39.93	£28.69
IN0.5-130	ZIN0.5-130	130	65.00	64.00	100	94	£40.49	£29.10
IN0.5-135	ZIN0.5-135	135	67.50	66.50	100	94	£41.09	£29.54
IN0.5-140	ZIN0.5-140	140	70.00	69.00	100	94	£41.66	£29.98
IN0.5-150	ZIN0.5-150	150	75.00	74.00	100	94	£42.27	£30.43
IN0.5-200	ZIN0.5-200	200	100.00	99.00	150	125	£56.26	£40.49
IN0.5-250	ZIN0.5-250	250	125.00	124.00	175	150	£63.49	£45.68
IN0.5-300	ZIN0.5-300	300	150.00	149.00	200	175	£84.49	£60.79
IN0.5-400	ZIN0.5-400	400	200.00	199.00	250	225	£112.37	£80.86

Internal Gears

Steel & Plastic MOD 0.5



Internal Gears

Materials

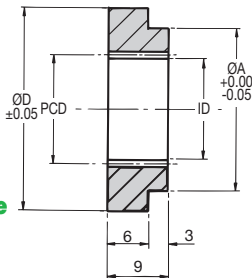
0.8 MOD

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 40 - 250



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

Steel & Plastic MOD 0.8

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN0.8-40	ZIN0.8-40	40	32.00	30.40	60	55	£23.45	£16.85
IN0.8-41	ZIN0.8-41	41	32.80	31.20	60	55	£24.57	£17.63
IN0.8-42	ZIN0.8-42	42	33.60	32.00	60	55	£25.59	£18.40
IN0.8-45	ZIN0.8-45	45	36.00	34.40	60	55	£26.66	£19.16
IN0.8-48	ZIN0.8-48	48	38.40	36.80	60	55	£27.68	£19.92
IN0.8-50	ZIN0.8-50	50	40.00	38.40	60	55	£28.76	£20.68
IN0.8-54	ZIN0.8-54	54	43.20	41.60	60	55	£29.84	£21.42
IN0.8-57	ZIN0.8-57	57	45.60	44.00	75	70	£30.81	£22.14
IN0.8-60	ZIN0.8-60	60	48.00	46.40	75	70	£31.86	£22.90
IN0.8-63	ZIN0.8-63	63	50.40	48.80	75	70	£32.98	£23.68
IN0.8-66	ZIN0.8-66	66	52.80	51.20	75	70	£33.99	£24.45
IN0.8-69	ZIN0.8-69	69	55.20	53.60	75	70	£35.06	£25.22
IN0.8-72	ZIN0.8-72	72	57.60	56.00	75	70	£36.06	£25.95
IN0.8-75	ZIN0.8-75	75	60.00	58.40	75	70	£37.18	£26.71
IN0.8-78	ZIN0.8-78	78	62.40	60.80	100	94	£38.27	£27.51
IN0.8-80	ZIN0.8-80	80	64.00	62.40	100	94	£38.86	£27.93
IN0.8-84	ZIN0.8-84	84	67.20	65.60	100	94	£39.50	£28.40
IN0.8-88	ZIN0.8-88	88	70.40	68.80	100	94	£40.06	£28.84
IN0.8-90	ZIN0.8-90	90	72.00	70.40	100	94	£40.73	£29.30
IN0.8-92	ZIN0.8-92	92	73.60	72.00	100	94	£41.36	£29.73
IN0.8-94	ZIN0.8-94	94	75.20	73.60	100	94	£41.95	£30.17
IN0.8-98	ZIN0.8-98	98	78.40	76.80	100	94	£42.58	£30.72
IN0.8-100	ZIN0.8-100	100	80.00	78.40	100	94	£43.22	£31.11
IN0.8-103	ZIN0.8-103	103	82.40	80.80	100	94	£43.86	£31.58
IN0.8-106	ZIN0.8-106	106	84.80	83.20	100	94	£44.50	£31.99
IN0.8-108	ZIN0.8-108	108	86.40	84.80	100	94	£45.10	£32.43
IN0.8-110	ZIN0.8-110	110	88.00	86.40	100	94	£45.95	£33.04
IN0.8-120	ZIN0.8-120	120	96.00	94.40	150	125	£61.13	£43.97
IN0.8-150	ZIN0.8-150	150	120.00	118.40	175	150	£68.94	£49.60
IN0.8-200	ZIN0.8-200	200	160.00	158.40	200	175	£91.93	£66.19
IN0.8-250	ZIN0.8-250	250	200.00	198.40	250	225	£122.32	£88.03

17.6



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials

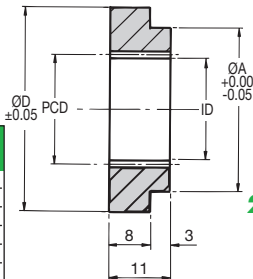
Internal Gears

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 36 - 200

1 MOD

Torque is dependent upon the type of pinions used.



20° Pressure Angle

DISCOUNTS			
Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN1-36	ZIN1-36	36	36	34	75	70	£36.49	£26.24
IN1-38	ZIN1-38	38	38	36	75	70	£36.85	£26.53
IN1-40	ZIN1-40	40	40	38	75	70	£37.18	£26.71
IN1-42	ZIN1-42	42	42	40	75	70	£37.47	£26.97
IN1-44	ZIN1-44	44	44	42	75	70	£37.84	£27.24
IN1-46	ZIN1-46	46	46	44	75	70	£38.16	£27.43
IN1-48	ZIN1-48	48	48	46	75	70	£38.52	£27.69
IN1-50	ZIN1-50	50	50	48	75	70	£38.86	£27.93
IN1-52	ZIN1-52	52	52	50	75	70	£39.20	£28.20
IN1-54	ZIN1-54	54	54	52	75	70	£39.56	£28.43
IN1-55	ZIN1-55	55	55	53	75	70	£39.91	£28.68
IN1-57	ZIN1-57	57	57	55	75	70	£40.21	£28.91
IN1-58	ZIN1-58	58	58	56	100	94	£40.66	£29.28
IN1-60	ZIN1-60	60	60	58	100	94	£41.16	£29.62
IN1-62	ZIN1-62	62	62	60	100	94	£41.66	£29.98
IN1-64	ZIN1-64	64	64	62	100	94	£42.06	£30.32
IN1-65	ZIN1-65	65	65	63	100	94	£42.58	£30.72
IN1-66	ZIN1-66	66	66	64	100	94	£43.13	£31.01
IN1-68	ZIN1-68	68	68	66	100	94	£43.59	£31.34
IN1-70	ZIN1-70	70	70	68	100	94	£44.04	£31.70
IN1-72	ZIN1-72	72	72	70	100	94	£44.51	£32.03
IN1-74	ZIN1-74	74	74	72	100	94	£45.02	£32.37
IN1-75	ZIN1-75	75	75	73	100	94	£45.51	£32.72
IN1-76	ZIN1-76	76	76	74	100	94	£45.96	£33.07
IN1-78	ZIN1-78	78	78	76	100	94	£46.49	£33.41
IN1-80	ZIN1-80	80	80	78	100	94	£47.09	£33.88
IN1-90	ZIN1-90	90	90	88	150	125	£62.64	£45.08
IN1-100	ZIN1-100	100	100	98	150	125	£70.66	£50.88
IN1-120	ZIN1-120	120	120	118	175	150	£78.19	£56.31
IN1-150	ZIN1-150	150	150	148	200	175	£94.27	£67.83
IN1-180	ZIN1-180	180	180	178	225	200	£106.04	£76.34
IN1-200	ZIN1-200	200	200	198	250	225	£141.05	£101.57

Internal Gears

Steel & Plastic MOD 1



Internal Gears

Materials

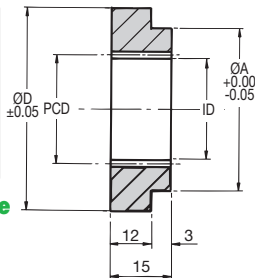
1.25 MOD

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 40 - 160



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

Internal Gears Steel & Plastic MOD 1.25

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN1.25-40	ZIN1.25-40	40	50.00	47.50	75	70	£37.47	£26.97
IN1.25-41	ZIN1.25-41	41	51.25	48.75	75	70	£37.85	£27.25
IN1.25-42	ZIN1.25-42	42	52.50	50.00	75	70	£38.28	£27.54
IN1.25-43	ZIN1.25-43	43	53.75	51.25	75	70	£38.65	£27.86
IN1.25-44	ZIN1.25-44	44	55.00	52.50	75	70	£39.05	£28.13
IN1.25-45	ZIN1.25-45	45	56.25	53.75	75	70	£39.47	£28.40
IN1.25-46	ZIN1.25-46	46	57.50	55.00	75	70	£39.79	£28.61
IN1.25-47	ZIN1.25-47	47	58.75	56.25	75	70	£40.21	£28.91
IN1.25-48	ZIN1.25-48	48	60.00	57.50	100	94	£40.66	£29.28
IN1.25-49	ZIN1.25-49	49	61.25	58.75	100	94	£40.99	£29.52
IN1.25-50	ZIN1.25-50	50	62.50	60.00	100	94	£41.36	£29.73
IN1.25-51	ZIN1.25-51	51	63.75	61.75	100	94	£41.69	£30.01
IN1.25-52	ZIN1.25-52	52	65.00	62.50	100	94	£42.02	£30.20
IN1.25-53	ZIN1.25-53	53	66.25	63.75	100	94	£42.39	£30.46
IN1.25-54	ZIN1.25-54	54	67.50	65.00	100	94	£42.68	£30.74
IN1.25-55	ZIN1.25-55	55	68.75	66.25	100	94	£43.04	£30.96
IN1.25-56	ZIN1.25-56	56	70.00	67.50	100	94	£43.36	£31.21
IN1.25-57	ZIN1.25-57	57	71.25	68.75	100	94	£43.73	£31.42
IN1.25-58	ZIN1.25-58	58	72.50	70.00	100	94	£44.04	£31.70
IN1.25-59	ZIN1.25-59	59	73.75	71.25	100	94	£44.36	£31.93
IN1.25-60	ZIN1.25-60	60	75.00	72.50	100	94	£44.68	£32.15
IN1.25-62	ZIN1.25-62	62	77.50	75.00	100	94	£45.08	£32.40
IN1.25-64	ZIN1.25-64	64	80.00	77.50	100	94	£45.43	£32.66
IN1.25-65	ZIN1.25-65	65	81.25	78.75	100	94	£45.71	£32.88
IN1.25-66	ZIN1.25-66	66	82.50	80.00	100	94	£46.08	£33.11
IN1.25-68	ZIN1.25-68	68	85.00	82.50	100	94	£46.45	£33.37
IN1.25-70	ZIN1.25-70	70	87.50	85.00	100	94	£47.09	£33.88
IN1.25-80	ZIN1.25-80	80	100.00	97.50	150	125	£70.66	£50.88
IN1.25-100	ZIN1.25-100	100	125.00	122.50	175	150	£78.19	£56.31
IN1.25-120	ZIN1.25-120	120	150.00	147.50	200	175	£94.27	£67.83
IN1.25-150	ZIN1.25-150	150	187.50	185.00	225	200	£106.04	£76.34
IN1.25-160	ZIN1.25-160	160	200.00	197.50	250	225	£141.05	£101.57



Materials

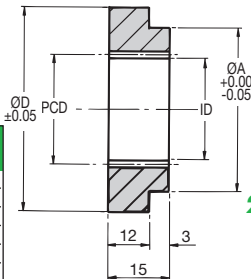
STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 35 - 120

Internal Gears

1.5 MOD

Torque is dependent upon the type of pinions used.



20° Pressure Angle

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	- 12%	6 - 29	- 22%
20 - 39	- 25%	30 - 99	- 44%
40 - 59	- 33%	100 - 399	- 47%
60 - 99	- 37%	400 - 999	- 50%
100 - 200	- 42%	1000 - 5000	- 53%

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN1.5-35	ZIN1.5-35	35	52.50	49.50	100	94	£42.89	£30.85
IN1.5-36	ZIN1.5-36	36	54.00	51.00	100	94	£43.49	£31.29
IN1.5-37	ZIN1.5-37	37	55.50	52.50	100	94	£44.04	£31.70
IN1.5-38	ZIN1.5-38	38	57.00	54.00	100	94	£44.64	£32.10
IN1.5-39	ZIN1.5-39	39	58.50	55.50	100	94	£45.19	£32.55
IN1.5-40	ZIN1.5-40	40	60.00	57.00	100	94	£45.78	£32.90
IN1.5-41	ZIN1.5-41	41	61.50	58.50	100	94	£46.36	£33.35
IN1.5-42	ZIN1.5-42	42	63.00	60.00	100	94	£46.91	£33.75
IN1.5-43	ZIN1.5-43	43	64.50	61.50	100	94	£47.51	£34.19
IN1.5-44	ZIN1.5-44	44	66.00	63.00	100	94	£48.10	£34.59
IN1.5-45	ZIN1.5-45	45	67.50	64.50	100	94	£48.66	£35.02
IN1.5-46	ZIN1.5-46	46	69.00	66.00	100	94	£49.22	£35.44
IN1.5-47	ZIN1.5-47	47	70.50	67.50	100	94	£49.82	£35.86
IN1.5-48	ZIN1.5-48	48	72.00	69.00	100	94	£50.36	£36.24
IN1.5-49	ZIN1.5-49	49	73.50	70.50	100	94	£50.99	£36.72
IN1.5-50	ZIN1.5-50	50	75.00	72.00	100	94	£51.60	£37.08
IN1.5-51	ZIN1.5-51	51	76.50	73.50	100	94	£52.12	£37.47
IN1.5-52	ZIN1.5-52	52	78.00	75.00	100	94	£52.70	£37.91
IN1.5-53	ZIN1.5-53	53	79.50	76.50	100	94	£53.19	£38.30
IN1.5-54	ZIN1.5-54	54	81.00	78.00	100	94	£53.61	£38.55
IN1.5-60	ZIN1.5-60	60	90.00	87.00	150	125	£71.35	£51.28
IN1.5-65	ZIN1.5-65	65	97.50	94.50	150	125	£80.46	£57.87
IN1.5-70	ZIN1.5-70	70	105.00	102.00	150	125	£88.53	£63.65
IN1.5-80	ZIN1.5-80	80	120.00	117.00	175	150	£93.86	£67.51
IN1.5-90	ZIN1.5-90	90	135.00	132.00	200	175	£107.34	£77.20
IN1.5-100	ZIN1.5-100	100	150.00	147.00	200	175	£120.76	£86.84
IN1.5-120	ZIN1.5-120	120	180.00	177.00	250	200	£160.62	£115.50

Internal Gears

Steel & Plastic MOD 1.5



Internal Gears

Materials

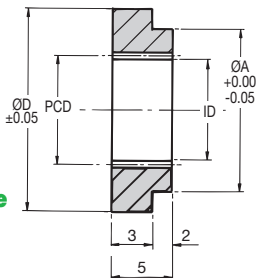
64 DP

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 70 - 400



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

Steel & Plastic DP 64

Internal Gears

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL/IN	PLASTIC ZIN						STEEL/IN	PLASTIC ZIN
IN64-70	ZIN64-70	70	27.78	26.99	50	45	£19.94	£14.32
IN64-72	ZIN64-72	72	28.58	27.78	50	45	£21.06	£15.11
IN64-74	ZIN64-74	74	29.37	28.58	50	45	£22.12	£15.89
IN64-76	ZIN64-76	76	30.16	29.37	50	45	£23.25	£16.72
IN64-78	ZIN64-78	78	30.96	30.16	50	45	£24.37	£17.51
IN64-80	ZIN64-80	80	31.75	30.96	50	45	£25.43	£18.30
IN64-84	ZIN64-84	84	33.34	32.54	60	55	£26.37	£19.00
IN64-86	ZIN64-86	86	34.13	33.34	60	55	£26.95	£19.39
IN64-90	ZIN64-90	90	35.72	34.93	60	55	£27.43	£19.72
IN64-92	ZIN64-92	92	36.51	35.72	60	55	£27.98	£20.12
IN64-94	ZIN64-94	94	37.31	36.51	60	55	£28.55	£20.55
IN64-96	ZIN64-96	96	38.10	37.31	60	55	£29.05	£20.90
IN64-98	ZIN64-98	98	38.89	38.10	60	55	£29.60	£21.27
IN64-100	ZIN64-100	100	39.69	38.89	60	55	£30.09	£21.66
IN64-102	ZIN64-102	102	40.48	39.69	60	55	£30.72	£22.05
IN64-106	ZIN64-106	106	42.07	41.28	60	55	£31.16	£22.42
IN64-108	ZIN64-108	108	42.86	42.07	60	55	£31.68	£22.76
IN64-110	ZIN64-110	110	43.66	42.86	75	70	£32.32	£23.24
IN64-115	ZIN64-115	115	45.64	44.85	75	70	£32.99	£23.74
IN64-120	ZIN64-120	120	47.63	46.83	75	70	£33.64	£24.20
IN64-125	ZIN64-125	125	49.61	48.82	75	70	£34.34	£24.70
IN64-127	ZIN64-127	127	50.40	49.61	75	70	£34.99	£25.13
IN64-130	ZIN64-130	130	51.59	50.80	75	70	£35.70	£25.66
IN64-135	ZIN64-135	135	53.58	52.78	75	70	£36.35	£26.13
IN64-140	ZIN64-140	140	55.56	54.77	75	70	£37.06	£26.66
IN64-145	ZIN64-145	145	57.55	56.75	75	70	£37.71	£27.09
IN64-150	ZIN64-150	150	59.53	58.74	75	70	£38.36	£27.60
IN64-200	ZIN64-200	200	79.37	78.58	125	100	£51.06	£36.72
IN64-250	ZIN64-250	250	99.21	98.42	150	125	£57.62	£41.42
IN64-300	ZIN64-300	300	119.06	118.26	175	150	£76.64	£55.10
IN64-400	ZIN64-400	400	158.75	157.95	225	200	£101.94	£73.27

17.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials

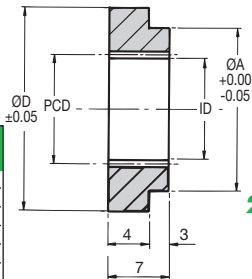
Internal Gears

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 60 - 400

48 DP

Torque is dependent upon the type of pinions used.



20° Pressure Angle

DISCOUNTS			
Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN48-60	ZIN48-60	60	31.75	30.69	60	55	£21.10	£15.18
IN48-61	ZIN48-61	61	32.28	31.22	60	55	£21.96	£15.76
IN48-62	ZIN48-62	62	32.81	31.75	60	55	£22.75	£16.35
IN48-63	ZIN48-63	63	33.34	32.28	60	55	£23.54	£16.94
IN48-64	ZIN48-64	64	33.87	32.81	60	55	£24.38	£17.52
IN48-65	ZIN48-65	65	34.40	33.34	60	55	£25.18	£18.10
IN48-68	ZIN48-68	68	35.98	34.93	60	55	£26.04	£18.69
IN48-70	ZIN48-70	70	37.04	35.98	60	55	£26.86	£19.33
IN48-72	ZIN48-72	72	38.10	37.04	60	55	£27.64	£19.92
IN48-75	ZIN48-75	75	39.69	38.63	75	70	£28.39	£20.42
IN48-77	ZIN48-77	77	40.75	39.69	75	70	£29.37	£21.10
IN48-80	ZIN48-80	80	42.33	41.28	75	70	£30.39	£21.85
IN48-84	ZIN48-84	84	44.45	43.39	75	70	£31.35	£22.55
IN48-86	ZIN48-86	86	45.51	44.45	75	70	£32.40	£23.30
IN48-88	ZIN48-88	88	46.57	45.51	75	70	£33.43	£24.07
IN48-90	ZIN48-90	90	47.43	46.57	75	70	£34.47	£24.77
IN48-96	ZIN48-96	96	50.80	49.74	75	70	£35.44	£25.52
IN48-100	ZIN48-100	100	52.92	51.86	75	70	£36.45	£26.24
IN48-105	ZIN48-105	105	55.56	54.50	100	94	£37.65	£27.04
IN48-110	ZIN48-110	110	58.21	57.15	100	94	£38.16	£27.43
IN48-115	ZIN48-115	115	60.85	59.80	100	94	£38.77	£27.88
IN48-120	ZIN48-120	120	63.50	62.44	100	94	£39.34	£28.28
IN48-125	ZIN48-125	125	66.15	65.09	100	94	£39.93	£28.69
IN48-130	ZIN48-130	130	68.79	67.73	100	94	£40.87	£29.10
IN48-135	ZIN48-135	135	71.44	70.38	100	94	£41.34	£29.54
IN48-140	ZIN48-140	140	74.08	73.03	100	94	£41.66	£29.98
IN48-150	ZIN48-150	150	79.38	78.32	100	94	£42.27	£30.43
IN48-200	ZIN48-200	200	105.83	104.77	150	125	£56.26	£40.49
IN48-250	ZIN48-250	250	132.29	131.23	175	150	£63.49	£45.68
IN48-300	ZIN48-300	300	158.75	157.69	200	175	£84.49	£60.79
IN48-400	ZIN48-400	400	211.66	210.60	250	225	£112.37	£80.86

Internal Gears

Steel & Plastic DP 48



Internal Gears

Materials

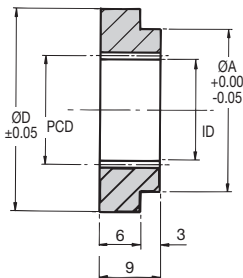
32 DP

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 40 - 250



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

Internal Gears Steel & Plastic DP 32

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN32-40	ZIN32-40	40	31.75	30.16	60	55	£23.45	£16.85
IN32-41	ZIN32-41	41	32.54	30.96	60	55	£24.57	£17.63
IN32-42	ZIN32-42	42	33.34	31.75	60	55	£25.59	£18.40
IN32-45	ZIN32-45	45	35.72	34.13	60	55	£26.66	£19.16
IN32-48	ZIN32-48	48	38.10	36.51	60	55	£27.68	£19.92
IN32-50	ZIN32-50	50	39.68	38.10	60	55	£28.76	£20.68
IN32-54	ZIN32-54	54	42.86	41.28	60	55	£29.84	£21.42
IN32-57	ZIN32-57	57	45.24	43.66	75	70	£30.81	£22.14
IN32-60	ZIN32-60	60	47.63	46.04	75	70	£31.86	£22.90
IN32-63	ZIN32-63	63	50.01	48.42	75	70	£32.98	£23.68
IN32-66	ZIN32-66	66	52.39	50.80	75	70	£33.99	£24.45
IN32-69	ZIN32-69	69	54.77	53.18	75	70	£35.06	£25.22
IN32-72	ZIN32-72	72	57.15	55.56	75	70	£36.06	£25.95
IN32-75	ZIN32-75	75	59.53	57.94	75	70	£37.18	£26.71
IN32-78	ZIN32-78	78	61.91	60.33	100	94	£38.27	£27.51
IN32-80	ZIN32-80	80	63.50	61.91	100	94	£38.86	£27.93
IN32-84	ZIN32-84	84	66.68	65.09	100	94	£39.50	£28.40
IN32-88	ZIN32-88	88	69.85	68.26	100	94	£40.06	£28.84
IN32-90	ZIN32-90	90	71.44	69.85	100	94	£40.73	£29.30
IN32-92	ZIN32-92	92	73.03	71.44	100	94	£41.36	£29.73
IN32-94	ZIN32-94	94	74.61	73.03	100	94	£41.95	£30.17
IN32-98	ZIN32-98	98	77.79	76.20	100	94	£42.58	£30.72
IN32-100	ZIN32-100	100	79.38	77.79	100	94	£43.22	£31.11
IN32-103	ZIN32-103	103	81.76	80.17	100	94	£43.86	£31.58
IN32-106	ZIN32-106	106	84.14	82.55	100	94	£44.50	£31.99
IN32-108	ZIN32-108	108	85.73	84.14	100	94	£45.10	£32.43
IN32-110	ZIN32-110	110	87.31	85.73	100	94	£45.92	£33.04
IN32-120	ZIN32-120	120	95.25	93.66	150	125	£61.13	£43.97
IN32-150	ZIN32-150	150	119.06	117.47	175	150	£68.94	£49.60
IN32-200	ZIN32-200	200	158.75	157.16	200	175	£91.93	£66.19
IN32-250	ZIN32-250	250	198.44	196.85	250	225	£122.32	£88.03

17.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials

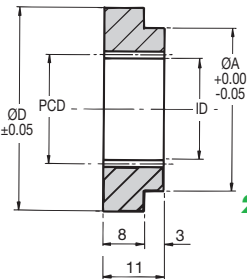
STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 36 - 200

Internal Gears

24 DP

Torque is dependent upon the type of pinions used.



20° Pressure Angle

DISCOUNTS			
Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN24-36	ZIN24-36	36	38.10	35.98	75	70	£36.49	£26.24
IN24-38	ZIN24-38	38	40.22	38.10	75	70	£36.85	£26.53
IN24-40	ZIN24-40	40	42.33	40.22	75	70	£37.18	£26.71
IN24-42	ZIN24-42	42	44.45	42.33	75	70	£37.47	£26.97
IN24-44	ZIN24-44	44	46.57	44.45	75	70	£37.84	£27.24
IN24-46	ZIN24-46	46	48.68	46.57	75	70	£38.16	£27.43
IN24-48	ZIN24-48	48	50.80	48.68	75	70	£38.52	£27.69
IN24-50	ZIN24-50	50	52.92	50.80	75	70	£38.86	£27.93
IN24-52	ZIN24-52	52	55.03	52.92	75	70	£39.20	£28.20
IN24-54	ZIN24-54	54	57.15	55.03	75	70	£39.56	£28.43
IN24-55	ZIN24-55	55	58.21	56.09	75	70	£39.91	£28.68
IN24-57	ZIN24-57	57	60.33	58.21	75	70	£40.21	£28.91
IN24-58	ZIN24-58	58	61.38	59.27	100	94	£40.66	£29.28
IN24-60	ZIN24-60	60	63.50	61.38	100	94	£41.16	£29.62
IN24-62	ZIN24-62	62	65.62	63.50	100	94	£41.66	£29.98
IN24-64	ZIN24-64	64	67.73	65.62	100	94	£42.06	£30.32
IN24-65	ZIN24-65	65	68.79	66.68	100	94	£42.58	£30.72
IN24-66	ZIN24-66	66	69.85	67.73	100	94	£43.13	£31.01
IN24-68	ZIN24-68	68	71.97	69.85	100	94	£43.59	£31.34
IN24-70	ZIN24-70	70	74.08	71.97	100	94	£44.04	£31.70
IN24-72	ZIN24-72	72	76.20	74.08	100	94	£44.51	£32.03
IN24-74	ZIN24-74	74	78.32	76.20	100	94	£45.02	£32.37
IN24-75	ZIN24-75	75	79.38	77.26	100	94	£45.51	£32.72
IN24-76	ZIN24-76	76	80.43	78.32	100	94	£45.96	£33.07
IN24-78	ZIN24-78	78	82.55	80.43	100	94	£46.49	£33.41
IN24-80	ZIN24-80	80	84.67	82.55	100	94	£47.09	£33.88
IN24-90	ZIN24-90	90	95.25	93.13	150	125	£62.64	£45.08
IN24-100	ZIN24-100	100	105.83	103.71	150	125	£70.66	£50.88
IN24-120	ZIN24-120	120	127.00	124.83	175	150	£87.19	£56.31
IN24-150	ZIN24-150	150	158.75	156.63	200	175	£106.04	£76.34
IN24-180	ZIN24-180	180	190.50	188.38	250	225	£121.95	£87.80
IN24-200	ZIN24-200	200	211.66	209.55	250	225	£141.05	£101.57

Internal Gears

Steel & Plastic Dp 24



Internal Gears

Materials

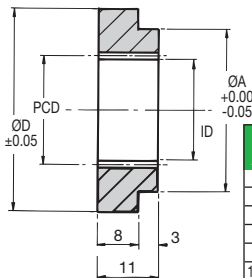
20 DP

STD : Steel 045M10 (En32) and Delrin

SPECIAL TEETH : between 40 - 160



20° Pressure Angle



Torque is dependent upon the type of pinions used.

DISCOUNTS

Steel IN		Plastic ZIN	
1 - 5	List	1 - 5	List
6 - 19	-12%	6 - 29	-22%
20 - 39	-25%	30 - 99	-44%
40 - 59	-33%	100 - 399	-47%
60 - 99	-37%	400 - 999	-50%
100 - 200	-42%	1000 - 5000	-53%

Internal Gears Steel & Plastic DP 20

PART NUMBER		TEETH	PCD (mm)	ID (mm)	ØD (mm)	ØA (mm)	PRICE EACH 1 - 5	
STEEL IN	PLASTIC ZIN						STEEL IN	PLASTIC ZIN
IN20-40	ZIN20-40	40	50.80	48.26	75	70	£37.47	£26.97
IN20-41	ZIN20-41	41	52.07	49.53	75	70	£37.85	£27.25
IN20-42	ZIN20-42	42	53.34	50.80	75	70	£38.28	£27.54
IN20-43	ZIN20-43	43	54.61	52.07	75	70	£38.65	£27.86
IN20-44	ZIN20-44	44	55.88	53.34	75	70	£39.05	£28.13
IN20-45	ZIN20-45	45	57.15	54.61	75	70	£39.47	£28.40
IN20-46	ZIN20-46	46	58.42	55.88	75	70	£39.79	£28.61
IN20-47	ZIN20-47	47	59.69	57.15	75	70	£40.21	£28.91
IN20-48	ZIN20-48	48	60.96	58.42	100	94	£40.66	£29.28
IN20-49	ZIN20-49	49	62.23	59.69	100	94	£40.99	£29.52
IN20-50	ZIN20-50	50	63.50	60.96	100	94	£41.36	£29.73
IN20-51	ZIN20-51	51	64.77	62.23	100	94	£41.69	£30.01
IN20-52	ZIN20-52	52	66.07	63.50	100	94	£42.02	£30.20
IN20-53	ZIN20-53	53	67.31	64.77	100	94	£42.39	£30.46
IN20-54	ZIN20-54	54	68.58	66.04	100	94	£42.68	£30.74
IN20-55	ZIN20-55	55	69.85	67.31	100	94	£43.04	£30.96
IN20-56	ZIN20-56	56	71.12	68.58	100	94	£43.36	£31.21
IN20-57	ZIN20-57	57	72.39	69.85	100	94	£43.73	£31.42
IN20-58	ZIN20-58	58	73.66	71.12	100	94	£44.04	£31.70
IN20-59	ZIN20-59	59	74.93	72.39	100	94	£44.36	£31.93
IN20-60	ZIN20-60	60	76.20	73.66	100	94	£44.68	£32.15
IN20-62	ZIN20-62	62	78.74	76.20	100	94	£45.08	£32.40
IN20-64	ZIN20-64	64	81.28	78.74	100	94	£45.43	£32.66
IN20-65	ZIN20-65	65	82.55	80.01	100	94	£45.71	£32.88
IN20-66	ZIN20-66	66	83.82	81.28	100	94	£46.08	£33.11
IN20-68	ZIN20-68	68	86.36	83.82	100	94	£46.45	£33.37
IN20-70	ZIN20-70	70	88.90	86.36	100	94	£47.09	£33.88
IN20-80	ZIN20-80	80	101.60	99.06	150	125	£70.66	£50.88
IN20-100	ZIN20-100	100	127.00	124.46	175	150	£78.19	£56.31
IN20-120	ZIN20-120	120	152.40	149.86	200	175	£94.27	£67.83
IN20-150	ZIN20-150	150	190.50	187.96	250	225	£106.04	£76.34
IN20-160	ZIN20-160	160	203.20	200.66	250	225	£141.05	£101.57

17.14



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TECHNICAL REQUEST

Non-Standard Double Gears

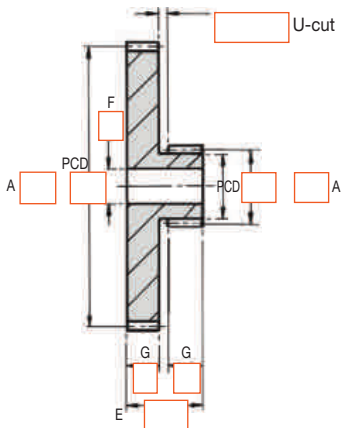
photocopy double

size and fax on

+44 (0)1246 260003

QUANTITY	_____	OVERALL WIDTH (E)	_____
MATERIAL	_____	BORE DIAMETER (F)	_____
NUMBER OF TEETH	_____	FACE WIDTH (G)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
PITCH (B)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS DIAMETER (C)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____		

SPECIAL FEATURES



Double Gears

Pages 18.2-18.13



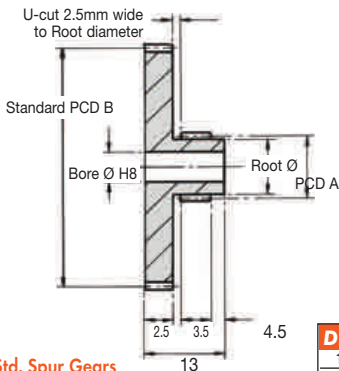
For non-standard Double Gears use form on opposite page or send a drawing or sample for a free, no-obligation quote.

Double Spur Gears

Materials

0.25, 0.3 MOD

STD : Stainless Steel 303S21 (En58)
ALTERNATIVES : Steel, Brass, Tufnol or Delrin



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN MILLIMETRES

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

MOD 0.25,0.3

Double Gears

PART NUMBER	TEETH PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG0.25-20/40	0.25	20	5.00	40	10.00	2.50	4.15	£23.64
DG0.25-20/60	0.25	20	5.00	60	15.00	2.50	4.15	£24.96
DG0.25-20/80	0.25	20	5.00	80	20.00	2.50	4.15	£26.74
DG0.25-20/100	0.25	20	5.00	100	25.00	2.50	4.15	£27.89
DG0.25-20/120	0.25	20	5.00	120	30.00	2.50	4.15	£28.40
DG0.25-20/140	0.25	20	5.00	140	35.00	2.50	4.15	£29.27
DG0.25-24/60	0.25	24	6.00	60	15.00	3.00	5.15	£24.96
DG0.25-24/84	0.25	24	6.00	84	21.00	3.00	5.15	£26.74
DG0.25-24/108	0.25	24	6.00	108	27.00	3.00	5.15	£27.89
DG0.25-24/132	0.25	24	6.00	132	33.00	3.00	5.15	£28.40
DG0.25-24/156	0.25	24	6.00	156	39.00	3.00	5.15	£29.27
DG0.3-20/40	0.3	20	6.00	40	12.00	3.00	5.01	£23.64
DG0.3-20/60	0.3	20	6.00	60	18.00	3.00	5.01	£24.96
DG0.3-20/80	0.3	20	6.00	80	24.00	3.00	5.01	£26.74
DG0.3-20/100	0.3	20	6.00	100	30.00	3.00	5.01	£27.89
DG0.3-20/120	0.3	20	6.00	120	36.00	3.00	5.01	£28.40
DG0.3-20/140	0.3	20	6.00	140	42.00	3.00	5.01	£29.27
DG0.3-24/60	0.3	24	7.20	60	16.00	3.00	6.21	£24.96
DG0.3-24/84	0.3	24	7.20	84	25.20	3.00	6.21	£26.74
DG0.3-24/108	0.3	24	7.20	108	32.40	3.00	6.21	£27.89
DG0.3-24/132	0.3	24	7.20	132	39.16	3.00	6.21	£28.40
DG0.3-24/156	0.3	24	7.20	156	46.80	3.00	6.21	£29.27

18.2



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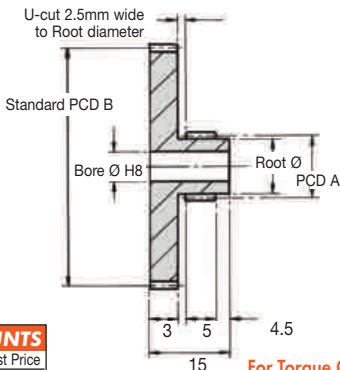
Materials

Double Spur Gears

STD : *Stainless Steel 303S21 (En58)*

ALTERNATIVES : *Steel, Brass, Tufnol or Delrin*

0.4 MOD



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN MILLIMETRES

PART NUMBER	PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG0.4-16/32	0.4	16	6.80	32	12.80	3	5.13	£23.67
DG0.4-16/48	0.4	16	6.80	48	19.20	3	5.13	£25.08
DG0.4-16/64	0.4	16	6.80	64	25.60	3	5.13	£25.81
DG0.4-16/80	0.4	16	6.80	80	32.00	3	5.13	£26.11
DG0.4-16/96	0.4	16	6.80	96	38.40	3	5.13	£26.27
DG0.4-16/112	0.4	16	6.80	112	44.80	3	5.13	£27.07
DG0.4-20/30	0.4	20	8.00	30	12.00	4	6.43	£25.08
DG0.4-20/50	0.4	20	8.00	50	20.00	4	6.43	£25.81
DG0.4-20/70	0.4	20	8.00	70	28.00	4	6.43	£26.11
DG0.4-20/90	0.4	20	8.00	90	36.00	4	6.43	£26.27
DG0.4-20/110	0.4	20	8.00	110	44.00	4	6.43	£27.07
DG0.4-24/30	0.4	24	9.60	30	12.00	5	8.33	£24.10
DG0.4-24/44	0.4	24	9.60	44	17.60	5	8.33	£25.08
DG0.4-24/64	0.4	24	9.60	64	25.60	5	8.33	£25.81
DG0.4-24/84	0.4	24	9.60	84	33.60	5	8.33	£26.11
DG0.4-24/96	0.4	24	9.60	96	38.40	5	8.33	£26.27
DG0.4-24/120	0.4	24	9.60	120	48.00	5	8.33	£27.07
DG0.4-30/45	0.4	30	12.00	45	18.00	5	10.75	£25.08
DG0.4-30/60	0.4	30	12.00	60	24.00	5	10.75	£25.81
DG0.4-30/90	0.4	30	12.00	90	36.00	5	10.75	£26.27
DG0.4-30/120	0.4	30	12.00	120	48.00	5	10.75	£27.07
DG0.4-30/150	0.4	30	12.00	150	60.00	5	10.75	£29.07

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18.3

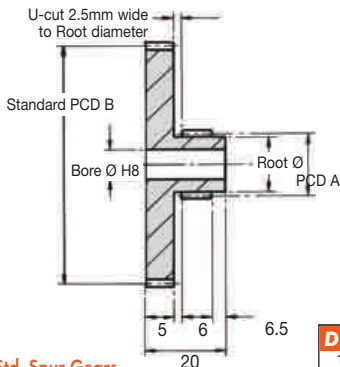
Double Gears MOD 0.4

Double Spur Gears

Materials

0.5, 0.8 MOD

STD : Steel 214M15/045M10
ALTERNATIVES : Stainless, Brass, Tufnol or Delrin



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN MILLIMETRES

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

MOD 0.5,0.8

Double Gears

PART NUMBER	PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG0.5-16/48	0.5	16	8.50	48	24.00	4	6.45	£28.69
DG0.5-16/60	0.5	16	8.50	60	30.00	4	6.45	£29.07
DG0.5-16/72	0.5	16	8.50	72	36.00	4	6.45	£29.61
DG0.5-16/96	0.5	16	8.50	96	48.00	4	6.45	£30.09
DG0.5-16/120	0.5	16	8.50	120	60.00	4	6.45	£30.96
DG0.5-16/144	0.5	16	8.50	144	72.00	4	6.45	£31.58
DG0.5-24/60	0.5	24	12.00	60	30.00	6	10.45	£29.07
DG0.5-24/72	0.5	24	12.00	72	36.00	6	10.45	£29.61
DG0.5-24/96	0.5	24	12.00	96	48.00	6	10.45	£30.09
DG0.5-24/120	0.5	24	12.00	120	60.00	6	10.45	£30.96
DG0.5-24/144	0.5	24	12.00	144	72.00	6	10.45	£31.58
DG0.8-15/30	0.8	15	12.80	30	24.00	6	9.61	£28.69
DG0.8-15/45	0.8	15	12.80	45	36.00	6	9.61	£29.07
DG0.8-15/60	0.8	15	12.80	60	48.00	6	9.61	£29.61
DG0.8-15/75	0.8	15	12.80	75	60.00	6	9.61	£30.09
DG0.8-15/90	0.8	15	12.80	90	72.00	6	9.61	£30.96
DG0.8-15/96	0.8	15	12.80	96	76.80	6	9.61	£31.58
DG0.8-20/48	0.8	20	16.00	48	38.40	6	13.61	£29.07
DG0.8-20/56	0.8	20	16.00	56	44.80	6	13.61	£29.61
DG0.8-20/64	0.8	20	16.00	64	51.20	6	13.61	£30.09
DG0.8-20/80	0.8	20	16.00	80	64.00	6	13.61	£30.96
DG0.8-20/96	0.8	20	16.00	96	76.80	6	13.61	£31.58

18.4



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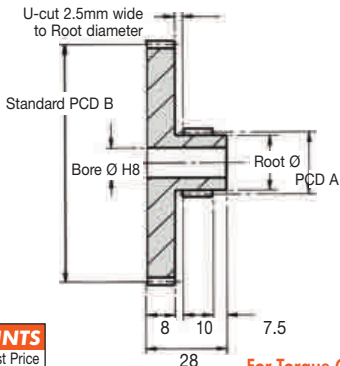
Materials

Double Spur Gears

STD : **Steel 214M15/045M10**

ALTERNATIVES : **Stainless, Brass, Tufnol or Delrin**

1, 1.25 MOD



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN MILLIMETRES

PART NUMBER	TEETH		PCD		TEETH		PCD		BORE Ø	ROOT Ø	PRICE EACH
	PITCH	GEAR A	GEAR A	GEAR B	GEAR B	GEAR B	GEAR B	1 - 5			
DG1-15/30	1.00	15	16.00	30	30	8	12.05	£30.22			
DG1-15/40	1.00	15	16.00	40	40	8	12.05	£30.79			
DG1-15/45	1.00	15	16.00	45	45	8	12.05	£31.62			
DG1-15/50	1.00	15	16.00	50	50	8	12.05	£32.15			
DG1-15/60	1.00	15	16.00	60	60	8	12.05	£32.90			
DG1-15/70	1.00	15	16.00	70	70	8	12.05	£34.00			
DG1-20/30	1.00	20	20.00	30	30	10	17.05	£30.79			
DG1-20/40	1.00	20	20.00	40	40	10	17.05	£31.62			
DG1-20/50	1.00	20	20.00	50	50	10	17.05	£32.15			
DG1-20/60	1.00	20	20.00	60	60	10	17.05	£32.90			
DG1-20/70	1.00	20	20.00	70	70	10	17.05	£34.00			
DG1.25-12/24	1.25	12	16.25	24	30	8	11.73	£30.22			
DG1.25-12/32	1.25	12	16.25	32	40	8	11.73	£31.21			
DG1.25-12/36	1.25	12	16.25	36	45	8	11.73	£31.62			
DG1.25-12/40	1.25	12	16.25	40	50	8	11.73	£32.15			
DG1.25-12/48	1.25	12	16.25	48	60	8	11.73	£32.90			
DG1.25-12/60	1.25	12	16.25	60	75	8	11.73	£34.00			
DG1.25-16/24	1.25	16	21.25	24	30	10	16.73	£30.79			
DG1.25-16/32	1.25	16	21.25	32	40	10	16.73	£31.62			
DG1.25-16/36	1.25	16	21.25	36	45	10	16.73	£32.15			
DG1.25-16/48	1.25	16	21.25	48	60	10	16.73	£32.90			
DG1.25-16/60	1.25	16	21.25	60	75	10	16.73	£34.00			

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18.5

Double Gears MOD 1, 1.25

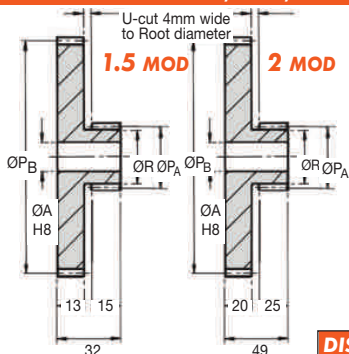
Double Spur Gears

Materials

1.5, 2 MOD

STD : Steel 214M15/045M10

ALTERNATIVES : Stainless, Brass, Tufnol or Delrin



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used.

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN MILLIMETRES

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

MOD 1.5/2
Double Gears

PART NUMBER	TEETH PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG1.5-16/24	1.5	16	24	24	36	10	20	£51.62
DG1.5-16/32	1.5	16	24	32	48	10	20	£52.93
DG1.5-16/48	1.5	16	24	48	72	10	20	£64.41
DG1.5-16/64	1.5	16	24	64	96	10	20	£78.36
DG1.5-16/80	1.5	16	24	80	120	10	20	£125.55
DG1.5-16/120	1.5	16	24	120	180	10	20	£214.20
DG1.5-20/40	1.5	20	30	40	60	10	26	£60.26
DG1.5-20/60	1.5	20	30	60	90	10	26	£78.36
DG1.5-20/80	1.5	20	30	80	120	10	26	£94.35
DG1.5-20/100	1.5	20	30	100	150	10	26	£135.44
DG1.5-20/120	1.5	20	30	120	180	10	26	£214.20
DG2-15/30	2.0	15	30	30	60	15	24	£69.26
DG2-15/45	2.0	15	30	45	90	15	24	£91.70
DG2-15/60	2.0	15	30	60	120	15	24	£166.53
DG2-15/75	2.0	15	30	75	150	15	24	£198.26
DG2-15/90	2.0	15	30	90	180	15	24	£222.01
DG2-15/120	2.0	15	30	120	240	15	24	£391.60
DG2-20/40	2.0	20	40	40	80	15	34	£88.88
DG2-20/60	2.0	20	40	60	120	15	34	£173.16
DG2-20/80	2.0	20	40	80	160	15	34	£218.46
DG2-20/100	2.0	20	40	100	200	15	34	£307.15
DG2-20/120	2.0	20	40	120	240	15	34	£391.60

18.6



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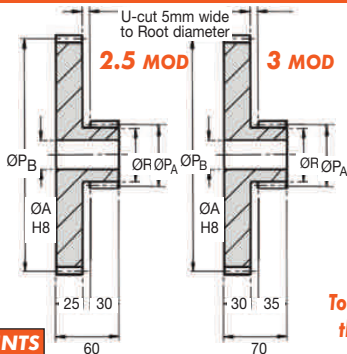
Materials

STD : Steel 214M15/045M10

ALTERNATIVES : Stainless, Brass, Tufnol or Delrin

Double Spur Gears

2.5, 3 MOD



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used.

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN MILLIMETRES

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG2.5-18/30	2.5	18	45	30	75.00	15	38.00	£106.58
DG2.5-18/40	2.5	18	45	40	100.00	15	38.00	£138.70
DG2.5-18/45	2.5	18	45	45	112.50	15	38.00	£228.68
DG2.5-18/50	2.5	18	45	50	125.00	15	38.00	£338.20
DG2.5-18/60	2.5	18	45	60	150.00	15	38.00	£422.97
DG2.5-18/70	2.5	18	45	70	175.00	15	38.00	£703.09
DG2.5-24/30	2.5	24	60	30	75.00	20	53.00	£174.83
DG2.5-24/40	2.5	24	60	40	100.00	20	53.00	£246.82
DG2.5-24/50	2.5	24	60	50	125.00	20	53.00	£338.20
DG2.5-24/60	2.5	24	60	60	150.00	20	53.00	£473.86
DG2.5-24/70	2.5	24	60	70	175.00	20	53.00	£698.14
DG3-20/30	3.0	20	60	30	90.00	25	51.50	£173.99
DG3-20/40	3.0	20	60	40	120.00	25	51.50	£209.02
DG3-20/50	3.0	20	60	50	150.00	25	51.50	£248.46
DG3-20/60	3.0	20	60	60	180.00	25	51.50	£364.99
DG3-20/80	3.0	20	60	80	240.00	25	51.50	£644.45
DG3-20/90	3.0	20	60	90	270.00	25	51.50	£758.70
DG3-24/48	3.0	24	72	48	144.00	25	63.00	£272.13
DG3-24/60	3.0	24	72	60	180.00	25	63.00	£364.39
DG3-24/72	3.0	24	72	72	216.00	25	63.00	£473.66
DG3-24/84	3.0	24	72	84	252.00	25	63.00	£667.99
DG3-24/96	3.0	24	72	96	288.00	25	63.00	£769.74

Double Gears MOD 2.5



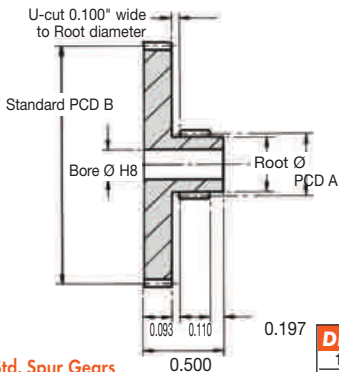
Double Spur Gears

Materials

96, 72 DP

STD : Stainless Steel 303S21 (En58)

ALTERNATIVES : Steel, Brass, Tufnol or Delrin



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN INCHES

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

DP 96/72

Double Gears

PART NUMBER	PITCH	TEETH		PCD		BORE Ø	ROOT Ø	PRICE EACH
		GEAR A	GEAR A	GEAR B	GEAR B			
DG96-20/40	96	20	0.208	40	0.417	0.093	0.173	£23.64
DG96-20/60	96	20	0.208	60	0.625	0.093	0.173	£24.96
DG96-20/80	96	20	0.208	80	0.833	0.093	0.173	£26.74
DG96-20/100	96	20	0.208	100	1.042	0.093	0.173	£27.89
DG96-20/120	96	20	0.208	120	1.250	0.093	0.173	£28.40
DG96-20/140	96	20	0.208	140	1.458	0.093	0.173	£29.27
DG96-24/60	96	24	0.250	60	0.625	0.125	0.221	£24.96
DG96-24/84	96	24	0.250	84	0.875	0.125	0.221	£26.74
DG96-24/108	96	24	0.250	108	1.125	0.125	0.221	£27.89
DG96-24/132	96	24	0.250	132	1.375	0.125	0.221	£28.40
DG96-24/156	96	24	0.250	156	1.625	0.125	0.221	£29.27
DG72-15/30	72	15	0.222	30	0.417	0.125	0.164	£23.64
DG72-15/45	72	15	0.222	45	0.625	0.125	0.164	£24.96
DG72-15/60	72	15	0.222	60	0.833	0.125	0.164	£26.74
DG72-15/90	72	15	0.222	90	1.250	0.125	0.164	£27.89
DG72-15/120	72	15	0.222	120	1.666	0.125	0.164	£28.40
DG72-15/150	72	15	0.222	150	2.083	0.125	0.164	£29.27
DG72-18/45	72	18	0.250	45	0.625	0.125	0.206	£24.96
DG72-18/63	72	18	0.250	63	0.875	0.125	0.206	£26.74
DG72-18/90	72	18	0.250	90	1.250	0.125	0.206	£27.89
DG72-18/126	72	18	0.250	126	1.750	0.125	0.206	£28.40
DG72-18/162	72	18	0.250	162	2.250	0.125	0.206	£29.27

18.8



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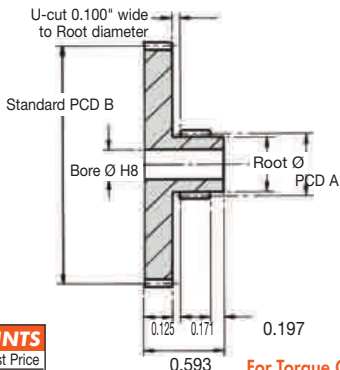
Materials

Double Spur Gears

STD : *Stainless Steel 303S21 (En58)*

ALTERNATIVES : *Steel, Brass, Tufnol or Delrin*

64 DP



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN INCHES

PART NUMBER	TEETH		P.C.D.		BORE		ROOT Ø	PRICE EACH
	PITCH	GEAR A	GEAR A	GEAR B	Ø	1 - 5		
DG64-16/32	64	16	0.265	32	0.500	0.125	0.200	£23.67
DG64-16/48	64	16	0.265	48	0.750	0.125	0.200	£25.08
DG64-16/64	64	16	0.265	64	1.000	0.125	0.200	£25.81
DG64-16/80	64	16	0.265	80	1.250	0.125	0.200	£26.11
DG64-16/96	64	16	0.265	96	1.500	0.125	0.200	£26.27
DG64-16/112	64	16	0.265	112	1.750	0.125	0.200	£27.07
DG64-20/30	64	20	0.312	30	0.469	0.156	0.263	£25.08
DG64-20/50	64	20	0.312	50	0.781	0.156	0.263	£25.81
DG64-20/70	64	20	0.312	70	1.094	0.156	0.263	£26.11
DG64-20/90	64	20	0.312	90	1.406	0.156	0.263	£26.27
DG64-20/110	64	20	0.312	110	1.718	0.156	0.263	£27.07
DG64-24/30	64	24	0.375	30	0.469	0.187	0.325	£24.10
DG64-24/44	64	24	0.375	44	0.688	0.187	0.325	£25.08
DG64-24/64	64	24	0.375	64	1.000	0.187	0.325	£25.81
DG64-24/84	64	24	0.375	84	1.312	0.187	0.325	£26.11
DG64-24/96	64	24	0.375	96	1.500	0.187	0.325	£26.27
DG64-24/120	64	24	0.375	120	1.875	0.187	0.325	£27.07
DG64-30/45	64	30	0.469	45	0.703	0.187	0.419	£25.08
DG64-30/60	64	30	0.469	60	0.937	0.187	0.419	£25.81
DG64-30/90	64	30	0.469	90	1.406	0.187	0.419	£26.27
DG64-30/120	64	30	0.469	120	1.875	0.187	0.419	£27.07
DG64-30/150	64	30	0.469	150	2.344	0.187	0.419	£29.07

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18.9

Double Gears DP 64

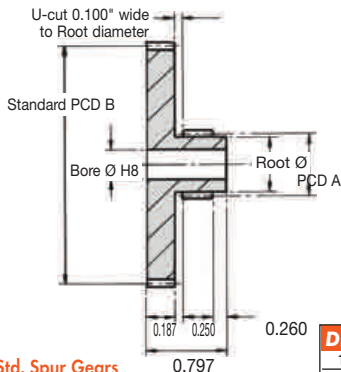
Double Spur Gears

Materials

48, 32 DP

STD : Steel 214M15/045M10

ALTERNATIVES : Stainless, Brass, Tufnol or Delrin



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN INCHES

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

DP 48,32

Double Gears

PART NUMBER	PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG48-16/48	48	16	0.354	48	1.000	0.187	6.84	£28.69
DG48-16/60	48	16	0.354	60	1.250	0.187	6.84	£29.07
DG48-16/72	48	16	0.354	72	1.500	0.187	6.84	£29.62
DG48-16/96	48	16	0.354	96	2.000	0.187	6.84	£30.09
DG48-16/120	48	16	0.354	120	2.500	0.187	6.84	£30.96
DG48-16/144	48	16	0.354	144	3.000	0.187	6.84	£31.58
DG48-24/60	48	24	0.500	60	1.250	0.250	11.07	£29.07
DG48-24/72	48	24	0.500	72	1.500	0.250	11.07	£29.61
DG48-24/96	48	24	0.500	96	2.000	0.250	11.07	£30.09
DG48-24/120	48	24	0.500	120	2.500	0.250	11.07	£30.96
DG48-24/144	48	24	0.500	144	3.000	0.250	11.07	£31.58
DG32-15/30	32	15	0.500	30	0.937	0.250	9.53	£28.69
DG32-15/45	32	15	0.500	45	1.406	0.250	9.53	£29.07
DG32-15/60	32	15	0.500	60	1.875	0.250	9.53	£29.61
DG32-15/75	32	15	0.500	75	2.344	0.250	9.53	£30.09
DG32-15/90	32	15	0.500	90	2.812	0.250	9.53	£30.96
DG32-15/96	32	15	0.500	96	3.000	0.250	9.53	£31.58
DG32-20/48	32	20	0.625	48	1.500	0.250	13.50	£29.07
DG32-20/56	32	20	0.625	56	1.750	0.250	13.50	£29.61
DG32-20/64	32	20	0.625	64	2.000	0.250	13.50	£30.09
DG32-20/80	32	20	0.625	80	2.500	0.250	13.50	£30.96
DG32-20/96	32	20	0.625	96	3.000	0.250	13.50	£31.58

18.10



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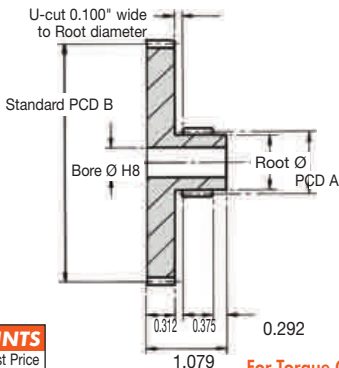
Materials

Double Spur Gears

STD : Steel 214M15/045M10

ALTERNATIVES : Stainless, Brass, Tufnol or Delrin

24, 20 DP



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN INCHES

PART NUMBER	TEETH PITCH	TEETH GEAR A	PCD GEAR A	TEETH GEAR B	PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
DG24-15/30	24	15	0.667	30	1.250	0.312	12.76	£30.22
DG24-15/40	24	15	0.667	40	1.666	0.312	12.76	£30.79
DG24-15/45	24	15	0.667	45	1.875	0.312	12.76	£31.62
DG24-15/50	24	15	0.667	50	2.083	0.312	12.76	£32.15
DG24-15/60	24	15	0.667	60	2.500	0.312	12.76	£32.90
DG24-15/70	24	15	0.667	70	2.917	0.312	12.76	£34.00
DG24-20/30	24	20	0.833	30	1.250	0.375	18.05	£30.79
DG24-20/40	24	20	0.833	40	1.666	0.375	18.05	£31.62
DG24-20/50	24	20	0.833	50	2.083	0.375	18.05	£32.15
DG24-20/60	24	20	0.833	60	2.500	0.375	18.05	£32.90
DG24-20/70	24	20	0.833	70	2.917	0.375	18.05	£34.00
DG20-12/24	20	12	0.650	24	1.200	0.312	11.91	£30.22
DG20-12/32	20	12	0.650	32	1.600	0.312	11.91	£31.21
DG20-12/36	20	12	0.650	36	1.800	0.312	11.91	£31.62
DG20-12/40	20	12	0.650	40	2.000	0.312	11.91	£32.15
DG20-12/48	20	12	0.650	48	2.400	0.312	11.91	£32.90
DG20-12/60	20	12	0.650	60	3.000	0.312	11.91	£34.00
DG20-16/24	20	16	0.850	24	1.200	0.375	16.99	£30.79
DG20-16/32	20	16	0.850	32	1.600	0.375	16.99	£31.62
DG20-16/36	20	16	0.850	36	1.800	0.375	16.99	£32.15
DG20-16/48	20	16	0.850	48	2.400	0.375	16.99	£32.90
DG20-16/60	20	16	0.850	60	3.000	0.375	16.99	£34.00

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18.11

Double Gears DP 24,20

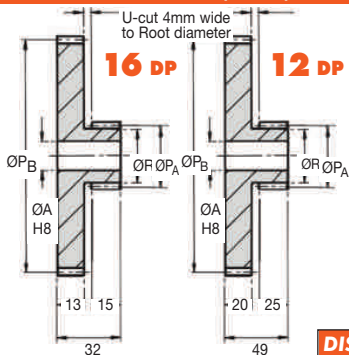
Double Spur Gears

Materials

16, 12 DP

STD : Steel 214M15/045M10

ALTERNATIVES : Stainless, Brass, Tufnol or Delrin



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used.

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN INCHES

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Double Gears

DP 16,12

PART NUMBER	PITCH	TEETH		PCD		BORE Ø	ROOT Ø	PRICE EACH
		GEAR A	GEAR B	GEAR A	GEAR B			
DG16-16/32	16	16	1.000	32	2.000	0.375	0.843	£56.33
DG16-16/48	16	16	1.000	48	3.000	0.375	0.843	£68.54
DG16-16/60	16	16	1.000	60	3.750	0.375	0.843	£81.47
DG16-16/72	16	16	1.000	72	4.500	0.375	0.843	£93.45
DG16-16/96	16	16	1.000	96	6.000	0.375	0.843	£128.04
DG16-16/120	16	16	1.000	120	7.500	0.375	0.843	£214.20
DG16-24/48	16	24	1.500	48	3.000	0.500	1.331	£68.54
DG16-24/60	16	24	1.500	60	3.750	0.500	1.331	£80.19
DG16-24/72	16	24	1.500	72	4.500	0.500	1.331	£91.23
DG16-24/96	16	24	1.500	96	6.000	0.500	1.331	£128.04
DG16-24/120	16	24	1.500	120	7.500	0.500	1.331	£214.22
DG12-15/30	12	15	1.250	30	2.500	0.500	1.036	£73.70
DG12-15/40	12	15	1.250	40	3.333	0.500	1.036	£88.92
DG12-15/45	12	15	1.250	45	3.750	0.500	1.036	£95.36
DG12-15/50	12	15	1.250	50	4.167	0.500	1.036	£103.27
DG12-15/60	12	15	1.250	60	5.000	0.500	1.036	£166.52
DG12-15/70	12	15	1.250	70	5.833	0.500	1.036	£194.58
DG12-20/40	12	20	1.667	40	3.333	0.625	1.451	£88.89
DG12-20/60	12	20	1.667	60	5.000	0.625	1.451	£166.53
DG12-20/80	12	20	1.667	80	6.667	0.625	1.451	£213.38
DG12-20/100	12	20	1.667	100	8.333	0.625	1.451	£307.16
DG12-20/120	12	20	1.667	120	10.000	0.625	1.451	£407.91

18.12



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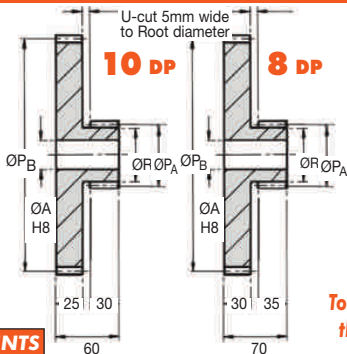
Materials

STD : Steel 214M15/045M10

ALTERNATIVES : Stainless, Brass, Tufnol or Delrin

Double Spur Gears

10, 8 DP



20° Pressure Angle

Other numbers of teeth available

Torque is dependent upon the type of pinions used.

For Torque Checks see Std. Spur Gears

For Corrected Teeth see Technical pages

NOTE: Certain sizes may need to be manufactured in 2 pieces

ALL DIMENSIONS IN INCHES

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH		PCD GEAR A	TEETH		PCD GEAR B	BORE Ø	ROOT Ø	PRICE EACH 1 - 5
	PITCH	GEAR A		GEAR B	GEAR B				
DG10-20/30	10	20	2.000	30	3.000	0.750	1.750	£118.56	
DG10-20/40	10	20	2.000	40	4.000	0.750	1.750	£145.05	
DG10-20/60	10	20	2.000	60	6.000	0.750	1.750	£249.69	
DG10-20/80	10	20	2.000	80	8.000	0.750	1.750	£371.31	
DG10-20/100	10	20	2.000	100	10.000	0.750	1.750	£497.08	
DG10-20/110	10	20	2.000	110	11.000	0.750	1.750	£698.14	
DG10-24/36	10	24	2.400	36	3.600	0.750	2.150	£144.28	
DG10-24/48	10	24	2.400	48	4.800	0.750	2.150	£181.79	
DG10-24/60	10	24	2.400	60	6.000	0.750	2.150	£246.82	
DG10-24/72	10	24	2.400	72	7.200	0.750	2.150	£338.20	
DG10-24/96	10	24	2.400	96	9.600	0.750	2.150	£473.86	
DG8-18/27	8	18	2.250	27	3.375	0.750	1.937	£144.55	
DG8-18/36	8	18	2.250	36	4.500	0.750	1.937	£184.48	
DG8-18/45	8	18	2.250	45	5.625	0.750	1.937	£217.88	
DG8-18/54	8	18	2.250	54	6.750	0.750	1.937	£317.69	
DG8-18/72	8	18	2.250	72	9.000	0.750	1.937	£473.66	
DG8-18/90	8	18	2.250	90	11.250	0.750	1.937	£758.70	
DG8-20/36	8	20	2.500	36	4.500	0.875	2.188	£188.73	
DG8-20/48	8	20	2.500	48	6.000	0.875	2.188	£272.13	
DG8-20/60	8	20	2.500	60	7.500	0.875	2.188	£364.39	
DG8-20/72	8	20	2.500	72	9.000	0.875	2.188	£473.66	
DG8-20/84	8	20	2.500	84	10.500	0.875	2.188	£668.13	

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18.13

Double Gears DP 10/8

TECHNICAL REQUEST

Non-Standard Anti-backlash Gears

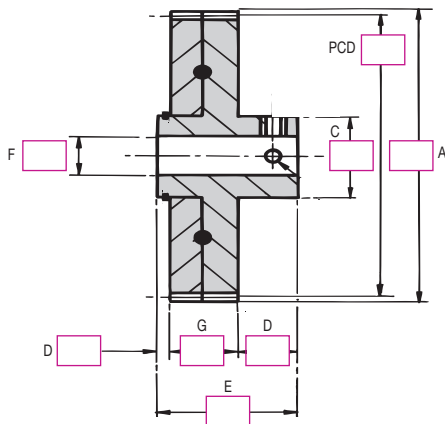
photocopy double

size and fax on

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QUANTITY	_____	OVERALL WIDTH (E)	_____
MATERIAL	_____	BORE DIAMETER (F)	_____
NUMBER OF TEETH	_____	FACE WIDTH (G)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
PITCH (B)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS DIAMETER (C)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____		

SPECIAL FEATURES



Anti-backlash Gears

Pages 19.2 – 19.17



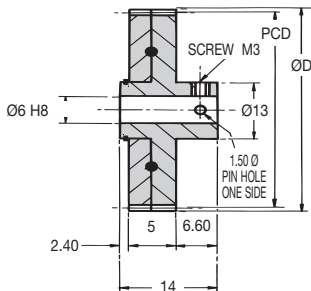
*For non-standard Anti-backlash Gears use form on opposite page
or send a drawing or sample for a free, no-obligation quote.*

Anti-backlash Gears

Materials

0.3, 0.4 MOD

STD : Stainless Steel 303S21/304S31 (En58)
and Steel 214M15/045M10



20° Pressure Angle

Other numbers of
teeth available

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M.	
	0.3 MOD	0.4 MOD
TORQUE Nm.	0.014	0.0246
K.w.	0.0014	0.0024

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER		PITCH MOD	TEETH (mm)	PCD (mm)	ØD (mm)	PRICE EACH 1-5	
STEEL AB	STAINLESS ABS					AB	ABS
AB0.3-90	ABS0.3-90	0.3	90	27.00	27.60	£35.96	£41.57
AB0.3-96	ABS0.3-96	0.3	96	28.80	29.40	£36.34	£41.93
AB0.3-100	ABS0.3-100	0.3	100	30.00	30.60	£36.55	£42.21
AB0.3-108	ABS0.3-108	0.3	108	32.40	33.00	£37.02	£42.58
AB0.3-110	ABS0.3-110	0.3	110	33.00	33.60	£37.33	£42.96
AB0.3-115	ABS0.3-115	0.3	115	34.50	35.10	£37.68	£43.24
AB0.3-120	ABS0.3-120	0.3	120	36.00	36.60	£37.92	£43.56
AB0.3-130	ABS0.3-130	0.3	130	39.00	39.60	£38.24	£43.78
AB0.3-140	ABS0.3-140	0.3	140	42.00	42.60	£38.46	£44.03
AB0.3-150	ABS0.3-150	0.3	150	45.00	45.60	£38.65	£44.28
AB0.4-64	ABS0.4-64	0.4	64	25.60	26.40	£36.23	£41.82
AB0.4-72	ABS0.4-72	0.4	72	28.80	29.60	£36.98	£42.54
AB0.4-80	ABS0.4-80	0.4	80	32.00	32.80	£37.60	£43.21
AB0.4-96	ABS0.4-96	0.4	96	38.40	39.20	£38.68	£44.30
AB0.4-100	ABS0.4-100	0.4	100	40.00	40.80	£38.85	£44.40
AB0.4-104	ABS0.4-104	0.4	104	41.60	42.40	£39.01	£44.62
AB0.4-112	ABS0.4-112	0.4	112	44.80	45.60	£39.22	£44.80
AB0.4-116	ABS0.4-116	0.4	116	46.40	47.20	£39.59	£45.19
AB0.4-120	ABS0.4-120	0.4	120	48.00	48.80	£39.73	£45.35
AB0.4-128	ABS0.4-128	0.4	128	51.20	52.00	£40.05	£45.68
AB0.4-136	ABS0.4-136	0.4	136	54.40	55.20	£40.31	£45.92
AB0.4-140	ABS0.4-140	0.4	140	56.00	56.80	£40.70	£46.27

Anti-backlash

Gears Steel & Stainless MOD 0.3,0.4

19.2



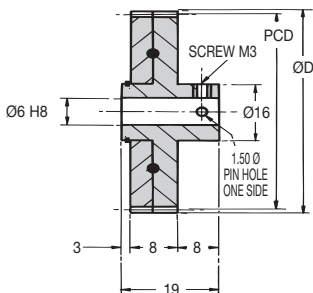
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Materials

Anti-backlash Gears

STD : Stainless Steel 303S21/304S31 (En58)
and Steel 214M15/045M10

0.5, 0.8, 1 MOD



20° Pressure Angle

**Other numbers of
teeth available**

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M.		
	0.5 MOD	0.8 MOD	1.0 MOD
TORQUE Nm.	0.0658	0.1482	0.2636
K.w.	0.0068	0.0156	0.0276

PART NUMBER		PITCH MOD	TEETH (mm)	PCD (mm)	ØD (mm)	PRICE EACH 1-5	
STEEL AB	STAINLESS ABS					AB	ABS
AB0.5-56	ABS0.5-56	0.5	56	28.00	29.00	£40.17	£52.79
AB0.5-60	ABS0.5-60	0.5	60	30.00	31.00	£40.49	£56.58
AB0.5-72	ABS0.5-72	0.5	72	36.00	37.00	£40.93	£60.07
AB0.5-84	ABS0.5-84	0.5	84	42.00	43.00	£41.30	£60.44
AB0.5-96	ABS0.5-96	0.5	96	48.00	49.00	£41.58	£63.84
AB0.5-108	ABS0.5-108	0.5	108	54.00	55.00	£42.18	£67.31
AB0.5-120	ABS0.5-120	0.5	120	60.00	61.00	£42.99	£70.74
AB0.5-132	ABS0.5-132	0.5	132	66.00	67.00	£44.04	£74.19
AB0.5-144	ABS0.5-144	0.5	144	72.00	73.00	£44.40	£77.72
AB0.8-48	ABS0.8-48	0.8	48	38.40	40.00	£41.09	£59.16
AB0.8-50	ABS0.8-50	0.8	50	40.00	41.60	£41.91	£60.44
AB0.8-64	ABS0.8-64	0.8	64	51.20	52.80	£42.34	£63.48
AB0.8-72	ABS0.8-72	0.8	72	57.60	59.20	£42.76	£67.39
AB0.8-80	ABS0.8-80	0.8	80	64.00	65.60	£43.49	£70.06
AB0.8-88	ABS0.8-88	0.8	88	70.40	72.00	£44.16	£72.61
AB0.8-96	ABS0.8-96	0.8	96	76.80	78.40	£44.62	£73.96
AB0.8-100	ABS0.8-100	0.8	100	80.00	81.60	£45.16	£76.64
AB1-48	ABS1-48	1.0	48	48.00	50.00	£43.21	£74.91
AB1-60	ABS1-60	1.0	60	60.00	62.00	£46.57	£77.84
AB1-72	ABS1-72	1.0	72	72.00	74.00	£48.25	£79.33
AB1-80	ABS1-80	1.0	80	80.00	82.00	£50.45	£82.00
AB1-84	ABS1-84	1.0	84	84.00	86.00	£51.93	£85.75
AB1-96	ABS1-96	1.0	96	96.00	98.00	£57.42	£87.88

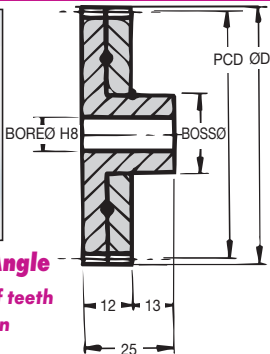


Anti-backlash Gears

Materials

1.25 MOD

STD : Steel 214M15/045M10



TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	0.57
K.w.	0.06

20° Pressure Angle

Other numbers of teeth
available between
45 - 120

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ØD (mm)	BOSSØ (mm)	BOREØ (mm)	PRICE EACH 1-5
AB1.25-45	1.25	45	56.25	58.75	30	10	£67.05
AB1.25-46	1.25	46	57.50	60.00	30	10	£67.38
AB1.25-47	1.25	47	58.75	61.25	30	10	£67.66
AB1.25-48	1.25	48	60.00	62.50	30	10	£67.96
AB1.25-49	1.25	49	61.25	63.75	30	10	£69.40
AB1.25-50	1.25	50	62.50	65.00	30	10	£70.09
AB1.25-52	1.25	52	65.00	67.50	30	10	£71.47
AB1.25-55	1.25	55	68.75	71.25	30	10	£73.00
AB1.25-58	1.25	58	72.50	75.00	30	10	£80.83
AB1.25-60	1.25	60	75.00	77.50	30	10	£84.42
AB1.25-62	1.25	62	77.50	80.00	30	10	£86.47
AB1.25-63	1.25	63	78.75	81.25	30	10	£88.33
AB1.25-64	1.25	64	80.00	82.50	30	10	£89.47
AB1.25-65	1.25	65	81.25	83.75	30	10	£92.78
AB1.25-68	1.25	68	85.00	87.50	30	10	£94.46
AB1.25-70	1.25	70	87.50	90.00	30	10	£94.97
AB1.25-72	1.25	72	90.00	92.50	30	10	£95.39
AB1.25-73	1.25	73	91.25	93.75	30	10	£97.69
AB1.25-75	1.25	75	93.75	96.25	30	10	£99.38
AB1.25-76	1.25	76	95.00	97.50	30	10	£101.07
AB1.25-78	1.25	78	97.50	100.00	30	10	£107.80
AB1.25-80	1.25	80	100.00	102.50	30	10	£108.81
AB1.25-84	1.25	84	105.00	107.50	30	10	£109.75
AB1.25-90	1.25	90	112.50	115.00	30	10	£121.54
AB1.25-96	1.25	96	120.00	122.50	30	10	£139.85
AB1.25-100	1.25	100	125.00	127.50	30	10	£142.08
AB1.25-120	1.25	120	150.00	152.50	30	10	£168.17

Anti-backlash Gears Steel MOD 1.25

19.4



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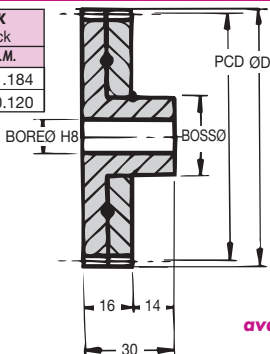
Materials

Anti-backlash Gears

STD : Steel 214M15/045M10

1.5 MOD

TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	1.184
K.w.	0.120



20° Pressure Angle

Other numbers of teeth available between 40 - 100

DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ØD (mm)	BOSSØ (mm)	BOREØ (mm)	PRICE EACH 1-5
AB1.5-40	1.5	40	60.00	63.00	40	15	£71.07
AB1.5-41	1.5	41	61.50	64.50	40	15	£71.13
AB1.5-42	1.5	42	63.00	66.00	40	15	£71.17
AB1.5-43	1.5	43	64.50	67.50	40	15	£71.22
AB1.5-44	1.5	44	66.00	69.00	40	15	£71.36
AB1.5-45	1.5	45	67.50	70.50	40	15	£72.72
AB1.5-46	1.5	46	69.00	72.00	40	15	£74.27
AB1.5-47	1.5	47	70.50	73.50	40	15	£75.91
AB1.5-48	1.5	48	72.00	75.00	40	15	£77.59
AB1.5-49	1.5	49	73.50	76.50	40	15	£81.07
AB1.5-50	1.5	50	75.00	78.00	40	15	£87.50
AB1.5-52	1.5	52	78.00	81.00	40	15	£91.13
AB1.5-54	1.5	54	81.00	84.00	40	15	£92.99
AB1.5-55	1.5	55	82.50	85.50	40	15	£93.48
AB1.5-56	1.5	56	84.00	87.00	40	15	£94.16
AB1.5-58	1.5	58	87.00	90.00	40	15	£95.53
AB1.5-60	1.5	60	90.00	93.00	40	15	£96.51
AB1.5-64	1.5	64	96.00	99.00	40	15	£99.63
AB1.5-65	1.5	65	97.50	100.50	40	15	£102.04
AB1.5-68	1.5	68	102.00	105.00	40	15	£108.12
AB1.5-70	1.5	70	105.00	108.00	40	15	£112.01
AB1.5-75	1.5	75	112.50	115.50	50	15	£126.26
AB1.5-80	1.5	80	120.00	123.00	50	15	£138.03
AB1.5-86	1.5	86	129.00	132.00	50	15	£148.22
AB1.5-90	1.5	90	135.00	138.00	50	15	£158.86
AB1.5-96	1.5	96	144.00	147.00	50	15	£169.27
AB1.5-100	1.5	100	150.00	153.00	50	15	£191.52

Anti-backlash Gears Steel

MOD 1.5

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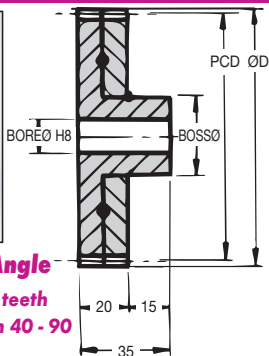
19.5

Anti-backlash Gears

Materials

2 MOD

STD : Steel 214M15/045M10



TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	2.50
K.w.	0.262

20° Pressure Angle

Other numbers of teeth available between 40 - 90

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Gears Steel MOD 2

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ØD (mm)	BOSSØ (mm)	BOREØ (mm)	PRICE EACH 1-5
AB2-40	2.0	40	80	84	50	20	£117.64
AB2-41	2.0	41	82	86	50	20	£119.75
AB2-42	2.0	42	84	88	50	20	£121.25
AB2-43	2.0	43	86	90	50	20	£122.74
AB2-44	2.0	44	88	92	50	20	£124.66
AB2-45	2.0	45	90	94	50	20	£126.52
AB2-46	2.0	46	92	96	50	20	£129.47
AB2-47	2.0	47	94	98	50	20	£132.49
AB2-48	2.0	48	96	100	50	20	£136.25
AB2-49	2.0	49	98	102	50	20	£140.47
AB2-50	2.0	50	100	104	50	20	£145.83
AB2-52	2.0	52	104	108	50	20	£151.27
AB2-54	2.0	54	108	112	50	20	£155.59
AB2-55	2.0	55	110	114	50	20	£170.80
AB2-56	2.0	56	112	116	50	20	£174.38
AB2-57	2.0	57	114	118	50	20	£177.87
AB2-58	2.0	58	116	120	50	20	£181.12
AB2-60	2.0	60	120	124	50	20	£185.78
AB2-62	2.0	62	124	128	50	20	£190.16
AB2-64	2.0	64	128	132	50	20	£194.87
AB2-65	2.0	65	130	134	50	20	£204.06
AB2-68	2.0	68	136	140	50	20	£210.72
AB2-70	2.0	70	140	144	50	20	£216.00
AB2-75	2.0	75	150	154	70	20	£267.18
AB2-80	2.0	80	160	164	70	20	£323.53
AB2-86	2.0	86	172	176	70	20	£348.06
AB2-90	2.0	90	180	184	70	20	£386.27

19.6



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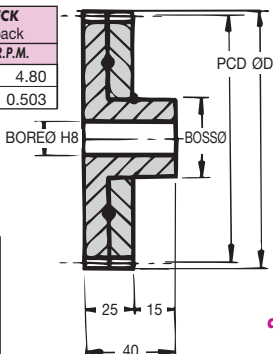
Materials

Anti-backlash Gears

STD : Steel 214M15/045M10

2.5 MOD

TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	4.80
K.w.	0.503



20° Pressure Angle

Other numbers of teeth available between 30 - 75

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ØD (mm)	BOSSØ (mm)	BOREØ (mm)	PRICE EACH 1-5
AB2.5-30	2.5	30	75.00	80.00	45	20	£130.98
AB2.5-31	2.5	31	77.50	82.50	45	20	£134.37
AB2.5-32	2.5	32	80.00	85.00	45	20	£138.92
AB2.5-33	2.5	33	82.50	87.50	45	20	£140.59
AB2.5-34	2.5	34	85.00	90.00	45	20	£143.98
AB2.5-35	2.5	35	87.50	92.50	45	20	£147.26
AB2.5-36	2.5	36	90.00	95.00	45	20	£155.21
AB2.5-37	2.5	37	92.50	97.50	45	20	£157.39
AB2.5-38	2.5	38	95.00	100.00	45	20	£161.83
AB2.5-39	2.5	39	97.50	102.50	45	20	£164.10
AB2.5-40	2.5	40	100.00	105.00	50	20	£168.13
AB2.5-42	2.5	42	105.00	110.00	50	20	£174.88
AB2.5-44	2.5	44	110.00	115.00	50	20	£178.80
AB2.5-45	2.5	45	112.50	117.50	50	20	£181.12
AB2.5-46	2.5	46	115.00	120.00	50	20	£185.27
AB2.5-47	2.5	47	117.50	122.50	50	20	£188.90
AB2.5-48	2.5	48	120.00	125.00	50	20	£194.01
AB2.5-50	2.5	50	125.00	130.00	50	20	£204.64
AB2.5-54	2.5	54	135.00	140.00	50	20	£213.57
AB2.5-55	2.5	55	137.50	142.50	50	20	£234.22
AB2.5-58	2.5	58	145.00	150.00	50	20	£246.34
AB2.5-60	2.5	60	150.00	155.00	50	20	£254.02
AB2.5-62	2.5	62	155.00	160.00	50	20	£287.49
AB2.5-64	2.5	64	160.00	165.00	50	20	£324.60
AB2.5-65	2.5	65	162.50	167.50	50	20	£346.79
AB2.5-70	2.5	70	175.00	180.00	50	20	£423.40
AB2.5-75	2.5	75	187.50	192.50	100	25	£533.35

Anti-backlash Gears Steel

MOD 2.5

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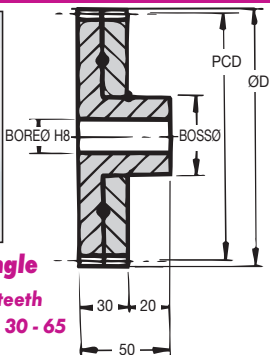
19.7

Anti-backlash Gears

Materials

3 MOD

STD : Steel 214M15/045M10



TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	8.80
K.w.	0.922

20° Pressure Angle

Other numbers of teeth available between 30 - 65

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Gears Steel MOD 3 Anti-backlash

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ØD (mm)	BOSSØ (mm)	BOREØ (mm)	PRICE EACH 1-5
AB3-30	3.0	30	90	96	50	25	£174.98
AB3-31	3.0	31	93	99	50	25	£181.02
AB3-32	3.0	32	96	102	50	25	£187.65
AB3-33	3.0	33	99	105	50	25	£197.72
AB3-34	3.0	34	102	108	50	25	£201.80
AB3-35	3.0	35	105	111	60	25	£217.31
AB3-36	3.0	36	108	114	60	25	£225.78
AB3-37	3.0	37	111	117	60	25	£230.08
AB3-38	3.0	38	114	120	60	25	£233.38
AB3-39	3.0	39	117	123	60	25	£236.43
AB3-40	3.0	40	120	126	60	25	£239.87
AB3-41	3.0	41	123	129	60	25	£244.01
AB3-42	3.0	42	126	132	60	25	£247.02
AB3-43	3.0	43	129	135	60	25	£269.16
AB3-44	3.0	44	132	138	60	25	£301.51
AB3-45	3.0	45	135	141	60	25	£354.27
AB3-48	3.0	48	144	150	60	25	£364.13
AB3-50	3.0	50	150	156	60	25	£392.40
AB3-52	3.0	52	156	162	60	25	£420.25
AB3-54	3.0	54	162	168	60	25	£447.44
AB3-55	3.0	55	165	171	60	25	£468.65
AB3-56	3.0	56	168	174	60	25	£476.11
AB3-57	3.0	57	171	177	60	25	£483.61
AB3-58	3.0	58	174	180	60	25	£491.20
AB3-59	3.0	59	177	183	60	25	£505.34
AB3-60	3.0	60	180	186	60	25	£519.43
AB3-65	3.0	65	195	201	120	30	£576.65

19.8



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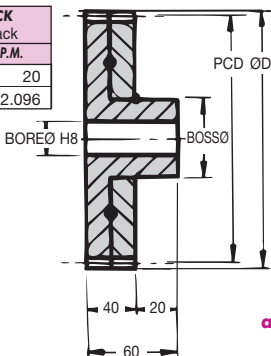
Materials

Anti-backlash Gears

STD : Steel 214M15/045M10

4 MOD

TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	20
K.w.	2.096



20° Pressure Angle

Other numbers of teeth available between 30 - 56

DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH MOD	TEETH	PCD (mm)	ØD (mm)	BOSSØ (mm)	BOREØ (mm)	PRICE EACH 1-5
AB4-30	4.0	30	120	128	80	30	£295.39
AB4-31	4.0	31	124	132	80	30	£314.61
AB4-32	4.0	32	128	136	80	30	£333.05
AB4-33	4.0	33	132	140	80	30	£352.82
AB4-34	4.0	34	136	144	80	30	£381.12
AB4-35	4.0	35	140	148	80	30	£415.58
AB4-36	4.0	36	144	152	80	30	£437.37
AB4-37	4.0	37	148	156	80	30	£463.89
AB4-38	4.0	38	152	160	80	30	£469.81
AB4-39	4.0	39	156	164	80	30	£497.30
AB4-40	4.0	40	160	168	80	30	£513.72
AB4-41	4.0	41	164	172	80	30	£533.34
AB4-42	4.0	42	168	176	80	30	£582.02
AB4-43	4.0	43	172	180	80	30	£591.51
AB4-44	4.0	44	176	184	80	30	£601.45
AB4-45	4.0	45	180	188	80	30	£611.32
AB4-46	4.0	46	184	192	80	30	£618.26
AB4-47	4.0	47	188	196	80	30	£625.38
AB4-48	4.0	48	192	200	80	30	£632.28
AB4-49	4.0	49	196	204	80	30	£646.56
AB4-50	4.0	50	200	208	80	30	£660.63
AB4-51	4.0	51	204	212	120	30	£676.66
AB4-52	4.0	52	208	216	120	30	£692.07
AB4-53	4.0	53	212	220	120	30	£712.06
AB4-54	4.0	54	216	224	120	30	£741.36
AB4-55	4.0	55	220	228	120	30	£805.12
AB4-56	4.0	56	224	232	120	30	£852.44

Anti-backlash Gears Steel

MOD 4

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19.9

Anti-backlash Gears

Materials

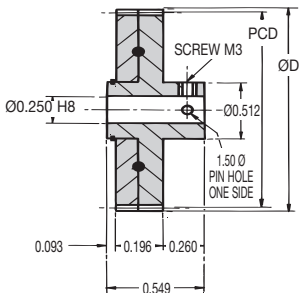
72, 64 DP

STD : Stainless Steel 303S21/304S31 (En58)
and Steel 214M15/045M10



20° Pressure Angle

Other numbers of teeth available



Anti-backlash Gears Steel & Stainless DP 72,64

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M.	
	72 DP	64 DP
TORQUE Nm.	0.1724	0.023
K.w.	0.010	0.002

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER		PITCH		PCD	ØD	PRICE EACH 1-5	
STEEL AB	STAINLESS ABS	DP	TEETH	(ins)	(ins)	AB	ABS
AB72-90	ABS72-90	72	90	1.250	1.278	£35.96	£41.57
AB72-96	ABS72-96	72	96	1.333	1.361	£36.34	£41.93
AB72-100	ABS72-100	72	100	1.389	1.417	£36.55	£42.21
AB72-108	ABS72-108	72	108	1.500	1.528	£37.02	£42.58
AB72-110	ABS72-110	72	110	1.528	1.556	£37.33	£42.96
AB72-115	ABS72-115	72	115	1.597	1.625	£37.68	£43.24
AB72-120	ABS72-120	72	120	1.667	1.694	£37.92	£43.56
AB72-130	ABS72-130	72	130	1.806	1.883	£38.24	£43.78
AB72-140	ABS72-140	72	140	1.944	1.972	£38.46	£44.03
AB72-150	ABS72-150	72	150	2.083	2.111	£38.65	£44.28
AB64-64	ABS64-64	64	64	1.000	1.031	£36.54	£42.18
AB64-72	ABS64-72	64	72	1.125	1.156	£36.98	£42.54
AB64-80	ABS64-80	64	80	1.250	1.281	£37.60	£43.21
AB64-96	ABS64-96	64	96	1.500	1.531	£38.68	£44.30
AB64-100	ABS64-100	64	100	1.562	1.594	£38.85	£44.40
AB64-104	ABS64-104	64	104	1.625	1.656	£39.01	£44.62
AB64-112	ABS64-112	64	112	1.750	1.781	£40.93	£44.80
AB64-116	ABS64-116	64	116	1.812	1.844	£41.47	£45.19
AB64-120	ABS64-120	64	120	1.875	1.906	£41.88	£45.35
AB64-128	ABS64-128	64	128	2.000	2.081	£41.93	£45.68
AB64-136	ABS64-136	64	136	2.125	2.156	£42.21	£45.92
AB64-140	ABS64-140	64	140	2.187	2.219	£42.54	£46.27

19.10



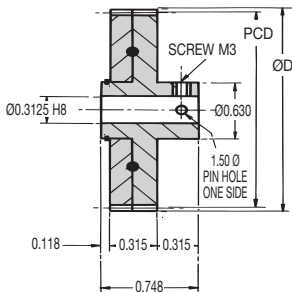
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Materials

Anti-backlash Gears

STD : Stainless Steel 303S21/304S31 (En58)
and Steel 214M15/045M10

48, 32, 24 DP



20° Pressure Angle

Other numbers of teeth available

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M.		
	48 DP	32 DP	24 DP
TORQUE Nm.	0.0658	0.148	0.063
K.w.	0.006	0.0156	0.027

PART NUMBER		PITCH		PCD	ØD	PRICE EACH 1-5	
STEEL AB	STAINLESS ABS	DP	TEETH	(ins)	(ins)	AB	ABS
AB48-55	ABS48-55	48	55	1.146	1.187	£40.17	£52.79
AB48-60	ABS48-60	48	60	1.250	1.292	£40.49	£56.58
AB48-72	ABS48-72	48	72	1.500	1.542	£40.93	£60.07
AB48-84	ABS48-84	48	84	1.750	1.792	£41.30	£60.44
AB48-96	ABS48-96	48	96	2.000	2.042	£41.58	£63.84
AB48-108	ABS48-108	48	108	2.250	2.292	£42.18	£67.31
AB48-120	ABS48-120	48	120	2.500	2.542	£42.99	£70.74
AB48-132	ABS48-132	48	132	2.750	2.792	£44.12	£74.19
AB48-144	ABS48-144	48	144	3.000	3.042	£44.40	£77.72
AB32-48	ABS32-48	32	48	1.500	1.562	£41.09	£59.16
AB32-56	ABS32-56	32	56	1.750	1.812	£41.91	£60.44
AB32-64	ABS32-64	32	64	2.000	2.062	£43.34	£63.48
AB32-72	ABS32-72	32	72	2.250	2.312	£43.36	£67.39
AB32-80	ABS32-80	32	80	2.500	2.562	£43.49	£70.06
AB32-88	ABS32-88	32	88	2.750	2.812	£44.16	£72.61
AB32-96	ABS32-96	32	96	3.000	3.062	£44.62	£73.96
AB32-100	ABS32-100	32	100	3.125	3.187	£45.16	£76.64
AB24-48	ABS24-48	24	48	2.000	2.083	£43.21	£74.91
AB24-60	ABS24-60	24	60	2.500	2.583	£46.57	£77.84
AB24-72	ABS24-72	24	72	3.000	3.083	£48.25	£79.33
AB24-80	ABS24-80	24	80	3.333	3.417	£50.45	£81.25
AB24-84	ABS24-84	24	84	3.500	3.583	£51.93	£85.75
AB24-96	ABS24-96	24	96	4.000	4.083	£57.42	£87.88

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19.11

Anti-backlash Gears Steel & Stainless

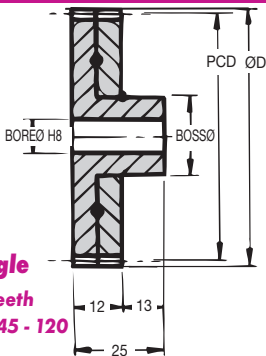
48, 32, 24

Anti-backlash Gears

Materials

20 DP

STD : Steel 214M15/045M10



TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	0.568
K.w.	0.059

20° Pressure Angle

Other numbers of teeth available between 45 - 120

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Gears Steel DP 20 Anti-backlash

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ØD (ins)	BOSSØ (ins)	BOREØ (ins)	PRICE EACH 1-5
AB20-45	20	45	2.250	2.350	0.875	0.500	£68.98
AB20-46	20	46	2.300	2.400	0.875	0.500	£69.58
AB20-47	20	47	2.350	2.450	0.875	0.500	£70.28
AB20-48	20	48	2.400	2.500	0.875	0.500	£71.47
AB20-49	20	49	2.450	2.550	0.875	0.500	£71.93
AB20-50	20	50	2.500	2.600	0.875	0.500	£72.61
AB20-52	20	52	2.600	2.700	0.875	0.500	£74.00
AB20-55	20	55	2.750	2.850	0.875	0.500	£76.88
AB20-58	20	58	2.900	3.000	0.875	0.500	£80.51
AB20-60	20	60	3.000	3.100	0.875	0.500	£82.16
AB20-62	20	62	3.100	3.200	0.875	0.500	£84.61
AB20-63	20	63	3.150	3.250	0.875	0.500	£85.15
AB20-64	20	64	3.200	3.300	0.875	0.500	£85.81
AB20-65	20	65	3.250	3.350	0.875	0.500	£86.64
AB20-68	20	68	3.400	3.500	0.875	0.500	£87.33
AB20-70	20	70	3.500	3.600	0.875	0.500	£87.74
AB20-72	20	72	3.600	3.700	0.875	0.500	£88.62
AB20-73	20	73	3.650	3.750	0.875	0.500	£92.49
AB20-75	20	75	3.750	3.850	0.875	0.500	£98.76
AB20-76	20	76	3.800	3.900	0.875	0.500	£98.80
AB20-78	20	78	3.900	4.000	0.875	0.500	£101.00
AB20-80	20	80	4.000	4.100	0.875	0.500	£105.30
AB20-84	20	84	4.200	4.300	0.875	0.500	£113.84
AB20-90	20	90	4.500	4.600	1.000	0.630	£156.38
AB20-96	20	96	4.800	4.900	1.000	0.630	£177.53
AB20-100	20	100	5.000	5.100	1.000	0.630	£189.01
AB20-120	20	120	6.000	6.100	1.000	0.630	£211.82

19.12



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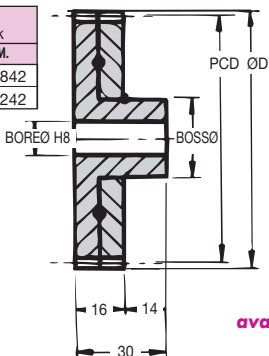
Materials

Anti-backlash Gears

STD : Steel 214M15/045M10

16 DP

TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	1.1842
K.w.	0.1242



20° Pressure Angle

Other numbers of teeth available between 40 - 100

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ØD (ins)	BOSSØ (ins)	BOREØ (ins)	PRICE EACH 1-5
AB16-40	16	40	2.500	2.630	1.250	0.625	£71.22
AB16-41	16	41	2.560	2.690	1.250	0.625	£72.05
AB16-42	16	42	2.630	2.750	1.250	0.625	£73.80
AB16-43	16	43	2.690	2.810	1.250	0.625	£75.64
AB16-44	16	44	2.750	2.880	1.250	0.625	£77.59
AB16-45	16	45	2.810	2.940	1.250	0.625	£79.86
AB16-46	16	46	2.880	3.000	1.250	0.625	£82.43
AB16-47	16	47	2.940	3.060	1.250	0.625	£85.03
AB16-48	16	48	3.000	3.130	1.250	0.625	£86.85
AB16-49	16	49	3.060	3.190	1.250	0.625	£89.22
AB16-50	16	50	3.130	3.250	1.250	0.625	£90.67
AB16-52	16	52	3.250	3.380	1.250	0.625	£93.96
AB16-54	16	54	3.380	3.500	1.250	0.625	£102.57
AB16-55	16	55	3.440	3.560	1.250	0.625	£104.20
AB16-56	16	56	3.500	3.630	1.250	0.625	£104.40
AB16-58	16	58	3.630	3.750	1.250	0.625	£107.12
AB16-60	16	60	3.750	3.880	1.250	0.625	£110.55
AB16-64	16	64	4.000	4.130	1.250	0.625	£116.90
AB16-65	16	65	4.060	4.190	1.250	0.625	£118.34
AB16-68	16	68	4.250	4.380	1.250	0.625	£121.75
AB16-70	16	70	4.380	4.500	1.250	0.625	£125.55
AB16-75	16	75	4.690	4.810	1.500	0.750	£150.10
AB16-80	16	80	5.000	5.130	1.500	0.750	£178.47
AB16-86	16	86	5.380	5.500	1.500	0.750	£188.69
AB16-90	16	90	5.630	5.750	1.500	0.750	£209.78
AB16-96	16	96	6.000	6.130	1.500	0.750	£219.30
AB16-100	16	100	6.250	6.380	1.500	0.750	£250.98

Anti-backlash Gears Steel DP 16

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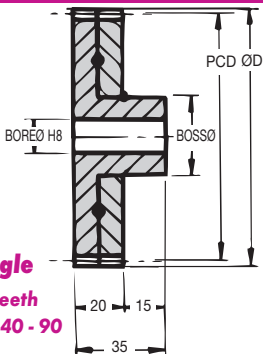
19.13

Anti-backlash Gears

Materials

12 DP

STD : Steel 214M15/045M10



TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	2.634
K.w.	0.276

20° Pressure Angle

Other numbers of teeth available between 40 - 90

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ØD (ins)	BOSSØ (ins)	BOREØ (ins)	PRICE EACH 1-5
AB12-40	12	40	3.333	3.500	1.500	0.625	£129.54
AB12-41	12	41	3.417	3.580	1.500	0.625	£130.63
AB12-42	12	42	3.500	3.670	1.500	0.625	£131.97
AB12-43	12	43	3.583	3.750	1.500	0.625	£133.27
AB12-44	12	44	3.667	3.880	1.500	0.625	£134.13
AB12-45	12	45	3.750	3.910	1.500	0.625	£135.31
AB12-46	12	46	3.883	4.000	1.500	0.625	£136.25
AB12-47	12	47	3.917	4.080	1.500	0.625	£137.43
AB12-48	12	48	4.000	4.170	1.500	0.625	£138.40
AB12-49	12	49	4.083	4.250	1.500	0.625	£142.11
AB12-50	12	50	4.167	4.330	1.500	0.625	£145.15
AB12-52	12	52	4.333	4.500	1.500	0.625	£152.16
AB12-54	12	54	4.500	4.670	1.500	0.625	£157.72
AB12-55	12	55	4.583	4.750	1.500	0.625	£161.13
AB12-56	12	56	4.667	4.880	1.500	0.625	£164.76
AB12-57	12	57	4.750	4.920	1.750	0.750	£167.58
AB12-58	12	58	4.833	5.000	1.750	0.750	£171.48
AB12-60	12	60	5.000	5.170	1.750	0.750	£182.68
AB12-62	12	62	5.167	5.330	1.750	0.750	£191.37
AB12-64	12	64	5.333	5.500	1.750	0.750	£197.69
AB12-65	12	65	5.417	5.580	1.750	0.750	£204.63
AB12-68	12	68	5.667	5.880	1.750	0.750	£214.37
AB12-70	12	70	5.883	6.000	1.750	0.750	£220.10
AB12-75	12	75	6.250	6.420	2.000	0.750	£266.00
AB12-80	12	80	6.667	6.880	2.000	0.750	£323.53
AB12-86	12	86	7.167	7.330	2.000	0.750	£342.20
AB12-90	12	90	7.500	7.670	2.000	0.750	£371.28

Anti-backlash Gears Steel DP 12

19.14



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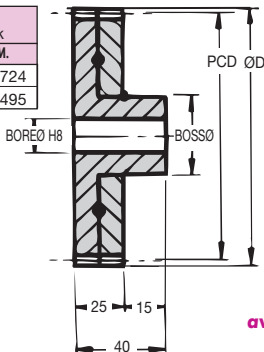
Materials

Anti-backlash Gears

STD : Steel 214M15/045M10

10 DP

TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	4.724
K.w.	0.495



20° Pressure Angle

Other numbers of teeth available between 30 - 75

DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ØD (ins)	BOSSØ (ins)	BOREØ (ins)	PRICE EACH 1-5
AB10-30	10	30	3.000	3.200	1.750	0.750	£136.25
AB10-31	10	31	3.100	3.300	1.750	0.750	£139.78
AB10-32	10	32	3.200	3.400	1.750	0.750	£144.55
AB10-33	10	33	3.300	3.500	1.750	0.750	£146.21
AB10-34	10	34	3.400	3.600	1.750	0.750	£149.75
AB10-35	10	35	3.500	3.700	1.750	0.750	£153.14
AB10-36	10	36	3.600	3.800	1.750	0.750	£161.43
AB10-37	10	37	3.700	3.900	1.750	0.750	£163.71
AB10-38	10	38	3.800	4.000	1.750	0.750	£168.36
AB10-39	10	39	3.900	4.100	1.750	0.750	£170.72
AB10-40	10	40	4.000	4.200	1.970	0.750	£174.88
AB10-42	10	42	4.200	4.400	1.970	0.750	£181.91
AB10-44	10	44	4.400	4.600	1.970	0.750	£186.01
AB10-45	10	45	4.500	4.700	1.970	0.750	£188.36
AB10-46	10	46	4.600	4.800	1.970	0.750	£192.66
AB10-47	10	47	4.700	4.900	1.970	0.750	£196.50
AB10-48	10	48	4.800	5.000	1.970	0.750	£201.76
AB10-50	10	50	5.000	5.200	1.970	0.750	£212.86
AB10-54	10	54	5.400	5.600	1.970	0.750	£243.62
AB10-55	10	55	5.500	5.700	1.970	0.750	£249.95
AB10-58	10	58	5.800	6.000	1.970	0.750	£256.20
AB10-60	10	60	6.000	6.200	1.970	0.750	£264.22
AB10-62	10	62	6.200	6.400	1.970	0.750	£299.04
AB10-64	10	64	6.400	6.600	1.970	0.750	£337.60
AB10-65	10	65	6.500	6.700	1.970	0.750	£361.76
AB10-70	10	70	7.000	7.200	1.970	0.750	£440.40
AB10-75	10	75	7.500	7.700	1.970	0.750	£554.76

Anti-backlash Gears Steel

DP 10

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



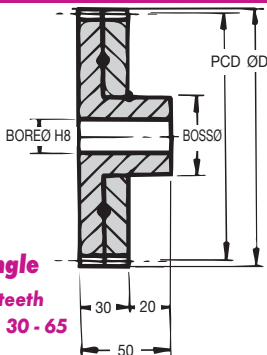
19.15

Anti-backlash Gears

Materials

8 DP

STD : Steel 214M15/045M10



TORQUE CHECK

variations at back
50 TEETH x 1000 R.P.M.

TORQUE Nm.	8.882
K.w.	0.9308

20° Pressure Angle

Other numbers of teeth
available between 30 - 65

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Gears steel DP 8 Anti-backlash

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ØD (ins)	BOSSØ (ins)	BOREØ (ins)	PRICE EACH 1-5
AB8-30	8	30	3.750	4.000	1.970	0.875	£181.97
AB8-31	8	31	3.875	4.125	1.970	0.875	£188.30
AB8-32	8	32	4.000	4.250	2.380	0.875	£195.19
AB8-33	8	33	4.125	4.375	2.380	0.875	£205.68
AB8-34	8	34	4.250	4.500	2.380	0.875	£209.87
AB8-35	8	35	4.375	4.625	2.380	0.875	£226.00
AB8-36	8	36	4.500	4.750	2.380	0.875	£234.80
AB8-37	8	37	4.625	4.875	2.380	0.875	£239.35
AB8-38	8	38	4.750	5.000	2.380	0.875	£242.73
AB8-39	8	39	4.875	5.125	2.380	0.875	£245.92
AB8-40	8	40	5.000	5.250	2.380	0.875	£249.51
AB8-41	8	41	5.125	5.375	2.380	0.875	£253.80
AB8-42	8	42	5.250	5.500	2.380	0.875	£256.91
AB8-43	8	43	5.375	5.625	2.380	0.875	£279.99
AB8-44	8	44	5.500	5.750	2.380	0.875	£314.15
AB8-45	8	45	5.625	5.875	2.380	0.875	£368.43
AB8-48	8	48	6.000	6.250	2.380	0.875	£378.80
AB8-50	8	50	6.250	6.500	2.380	0.875	£408.14
AB8-52	8	52	6.500	6.750	2.380	0.875	£437.11
AB8-54	8	54	6.750	7.000	2.380	0.875	£465.36
AB8-55	8	55	6.875	7.125	2.380	0.875	£487.42
AB8-56	8	56	7.000	7.250	2.380	0.875	£495.21
AB8-57	8	57	7.125	7.375	2.380	0.875	£503.03
AB8-58	8	58	7.250	7.500	2.380	0.875	£510.94
AB8-59	8	59	7.375	7.625	2.380	0.875	£525.59
AB8-60	8	60	7.500	7.750	2.380	0.875	£540.31
AB8-65	8	65	8.125	8.375	4.000	1.000	£599.75

19.16



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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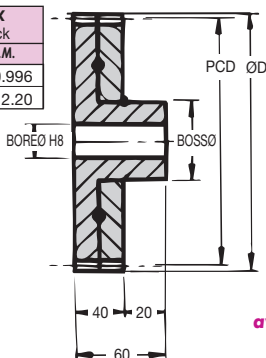
Materials

Anti-backlash Gears

STD : Steel 214M15/045M10

6 DP

TORQUE CHECK	
variations at back	
50 TEETH x 1000 R.P.M.	
TORQUE Nm.	20.996
K.w.	2.20



20° Pressure Angle

Other numbers of teeth available between 30 - 56

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH DP	TEETH	PCD (ins)	ØD (ins)	BOSSØ (ins)	BOREØ (ins)	PRICE EACH 1-5
AB6-30	6	30	5.000	5.333	2.500	1.250	£310.19
AB6-31	6	31	5.167	5.500	2.500	1.250	£330.34
AB6-32	6	32	5.333	5.667	2.500	1.250	£349.72
AB6-33	6	33	5.500	5.883	2.500	1.250	£370.48
AB6-34	6	34	5.667	6.000	2.500	1.250	£400.20
AB6-35	6	35	5.883	6.167	2.500	1.250	£436.36
AB6-36	6	36	6.000	6.333	2.500	1.250	£459.45
AB6-37	6	37	6.167	6.500	2.500	1.250	£487.08
AB6-38	6	38	6.333	6.667	2.500	1.250	£493.30
AB6-39	6	39	6.500	6.883	2.500	1.250	£522.18
AB6-40	6	40	6.667	7.000	2.500	1.250	£539.41
AB6-41	6	41	6.883	7.167	2.500	1.250	£560.01
AB6-42	6	42	7.000	7.333	2.500	1.250	£611.13
AB6-43	6	43	7.167	7.500	2.500	1.250	£621.12
AB6-44	6	44	7.333	7.667	2.500	1.250	£631.54
AB6-45	6	45	7.500	7.833	2.500	1.250	£641.91
AB6-46	6	46	7.667	8.000	2.500	1.250	£649.18
AB6-47	6	47	7.833	8.167	2.500	1.250	£656.64
AB6-48	6	48	8.000	8.333	2.500	1.250	£663.92
AB6-49	6	49	8.167	8.500	2.500	1.250	£678.90
AB6-50	6	50	8.333	8.667	2.500	1.250	£693.64
AB6-51	6	51	8.500	8.833	2.500	1.250	£710.52
AB6-52	6	52	8.667	9.000	2.500	1.250	£726.69
AB6-53	6	53	8.833	9.167	2.500	1.250	£747.67
AB6-54	6	54	9.000	9.333	2.500	1.250	£778.43
AB6-55	6	55	9.167	9.500	2.500	1.250	£845.37
AB6-56	6	56	9.333	9.667	2.500	1.250	£895.04

Anti-backlash Gears Steel

DP 6

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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19.17

TECHNICAL REQUEST

Non-Standard Pinions

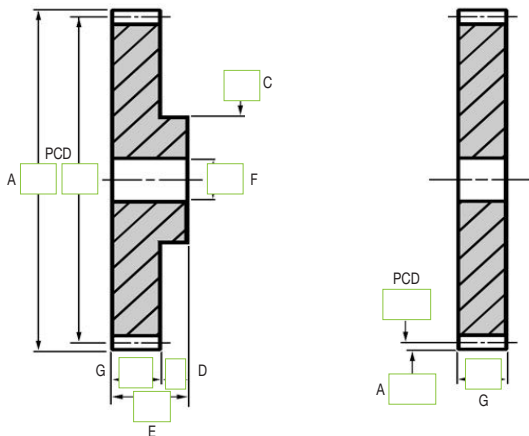
photocopy double

size and fax on

+44 (0)1246 260003

QUANTITY	_____	OVERALL WIDTH (E)	_____
MATERIAL	_____	BORE DIAMETER (F)	_____
NUMBER OF TEETH	_____	FACE WIDTH (G)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
PITCH (B)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS DIAMETER (C)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____		

SPECIAL FEATURES



Pinions Pinion Shafts

Pages 20.2-20.21



For non-standard Pinions use form on opposite page or send a drawing or sample for a free, no-obligation quote.

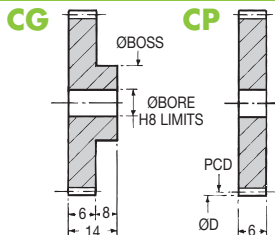
Pinions Circular Pitch

Materials

1mm Pitch

STD : Steel 214M15/045M10

ALTERNATIVES : Brass, Tufnol or Delrin



To run with
C.P. Racks

20° Pressure Angle

Approximate Tooth Size

Special numbers
of teeth available
between 20 - 150

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT			
	214M15/045M10 303S31	214M15/045M10 Cse/HD	Brass	Tufnol
TORQUE Nm	0.140	0.600	0.680	0.056
K.W.	0.015	0.060	0.006	0.006

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pinions & Shafts Steel PITCH 1mm

PART NUMBER	TEETH	PCD	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						CG	CP
CG1-20	20	6.37	7.00	7.00	3	£10.19	£9.49
CG1-25	25	7.96	8.59	8.59	3	£10.19	£9.51
CG1-30	30	9.55	10.19	10.00	3	£10.21	£9.55
CG1-35	35	11.14	11.78	10.00	3	£10.22	£9.57
CG1-40	40	12.73	13.37	12.00	4	£10.24	£9.62
CG1-45	45	14.32	14.96	12.00	4	£10.30	£9.76
CG1-50	50	15.92	16.55	12.00	4	£10.47	£9.96
CG1-55	55	17.51	18.14	12.00	4	£10.87	£10.42
CG1-60	60	19.10	19.74	12.00	4	£11.06	£10.70
CG1-65	65	20.69	21.33	12.00	4	£11.48	£11.15
CG1-70	70	22.28	22.92	15.00	5	£11.85	£11.33
CG1-75	75	23.87	24.51	15.00	5	£12.09	£11.77
CG1-80	80	25.46	26.10	15.00	5	£12.23	£12.22
CG1-85	85	27.06	27.69	15.00	5	£12.75	£12.40
CG1-90	90	28.65	29.28	15.00	5	£13.46	£12.83
CG1-95	95	30.24	30.88	15.00	5	£13.77	£13.09
CG1-100	100	31.83	32.47	15.00	5	£14.36	£13.48
CG1-110	110	35.01	35.65	15.00	5	£14.90	£13.95
CG1-120	120	38.20	38.83	15.00	5	£15.41	£14.36
CG1-150	150	47.75	48.38	15.00	5	£16.83	£16.04

'Never Knowingly Outpriced'



Materials

Pinions Circular Pitch

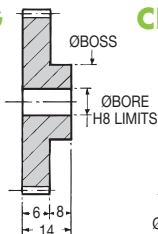
STD : Steel 214M15/045M10

ALTERNATIVES : Brass, Tufnol or Delrin

2mm Pitch

To run with
C.P. Racks

CG



CP



20° Pressure Angle

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT			
	214M15/045M10 303S31	214M15/045M10 Cse/HD	Brass	Tufnol
TORQUE Nm	0.700	3.500	0.370	0.300
K.W.	0.074	0.373	0.037	0.030

Approximate Tooth Size

Special numbers
of teeth available
between 10 - 150

PART NUMBER	TEETH	PCD	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						CG	CP
CG2-10	10	7.00	8.28	8.28	4	£10.08	£9.47
CG2-15	15	10.19	11.46	11.46	5	£10.12	£9.49
CG2-20	20	12.73	14.01	14.00	5	£10.19	£9.62
CG2-25	25	15.92	17.19	15.00	5	£10.72	£9.74
CG2-30	30	19.10	20.37	15.00	5	£11.30	£10.87
CG2-35	35	22.28	23.55	18.00	6	£11.93	£11.53
CG2-40	40	25.46	26.74	18.00	6	£12.23	£12.22
CG2-45	45	28.65	29.92	18.00	6	£13.77	£13.09
CG2-50	50	31.83	33.10	18.00	6	£14.51	£13.64
CG2-55	55	35.01	36.29	18.00	6	£15.07	£14.05
CG2-60	60	38.20	39.47	18.00	6	£15.57	£14.50
CG2-65	65	41.38	42.65	18.00	6	£16.44	£14.96
CG2-70	70	44.56	45.84	25.00	8	£16.65	£15.39
CG2-75	75	47.75	49.02	25.00	8	£16.92	£15.95
CG2-80	80	50.93	52.20	25.00	8	£18.69	£16.44
CG2-85	85	54.11	55.39	25.00	8	£19.44	£16.95
CG2-90	90	57.30	58.37	25.00	8	£20.09	£17.51
CG2-95	95	60.48	61.75	25.00	8	£20.91	£18.13
CG2-100	100	63.66	64.94	25.00	8	£21.85	£18.69
CG2-110	110	70.03	71.30	25.00	8	£25.12	£19.77
CG2-120	120	76.39	77.67	25.00	8	£27.39	£20.73
CG2-150	150	95.49	96.77	25.00	8	£33.58	£25.21

'Never Knowingly Outpriced'

Pinions & Shafts

Steel PITCH 2mm



Pinions Circular Pitch

Materials

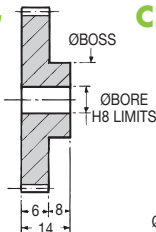
0.100" Pitch

STD : Steel 214M15/045M10

ALTERNATIVES : Brass, Tufnol or Delrin



CG



CP



To run with
C.P. Racks

20° Pressure Angle

Approximate Tooth Size

Special numbers
of teeth available
between 20 - 150

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT			
	214M15/045M10 303S31	214M15/045M10 Cse/HD	Brass	Tufnol
TORQUE Nm	1.000	5.000	0.540	0.450
K.W.	0.104	0.522	0.060	0.045

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pinions & Shafts Steel PITCH 0.100"

PART NUMBER	TEETH	PCD	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						CG	CP
CG10-10	10	8.89	10.51	10.51	4	£10.12	£9.49
CG10-15	15	12.94	14.55	14.55	5	£10.19	£9.60
CG10-20	20	16.17	17.79	15.00	5	£10.72	£10.28
CG10-25	25	20.21	21.83	15.00	5	£11.48	£11.15
CG10-30	30	24.26	25.87	18.00	6	£12.15	£11.93
CG10-35	35	28.30	29.91	18.00	6	£13.46	£12.83
CG10-40	40	32.34	33.96	18.00	6	£14.51	£13.64
CG10-45	45	36.38	38.00	18.00	6	£15.41	£14.36
CG10-50	50	40.43	42.04	18.00	6	£16.44	£14.96
CG10-55	55	44.47	46.08	25.00	8	£16.72	£15.49
CG10-60	60	48.51	50.13	25.00	8	£16.94	£16.13
CG10-65	65	52.55	54.17	25.00	8	£19.25	£16.78
CG10-70	70	56.60	58.21	25.00	8	£19.77	£17.51
CG10-75	75	60.64	62.26	25.00	8	£21.15	£18.29
CG10-80	80	64.68	66.30	25.00	8	£22.85	£19.07
CG10-85	85	68.72	70.34	25.00	8	£24.61	£19.62
CG10-90	90	72.77	74.38	25.00	8	£25.66	£20.08
CG10-95	95	76.81	78.43	25.00	8	£27.39	£20.73
CG10-100	100	80.85	82.47	25.00	8	£28.34	£21.32
CG10-110	110	88.94	90.55	25.00	8	£29.38	£22.45
CG10-120	120	97.02	98.64	25.00	8	£33.58	£25.21
CG10-150	150	121.28	122.89	25.00	8	£48.08	£40.15



Materials

Pinions Circular Pitch

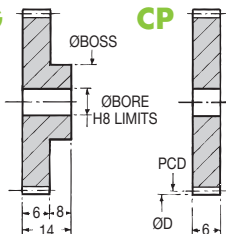
STD : Steel 214M15/045M10

ALTERNATIVES : Brass, Tufnol or Delrin

0.050" Pitch

To run with
C.P. Racks

CG



CP



20° Pressure Angle

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

TORQUE CHECK variations at back	50 TEETH x 1000 R.P.M. INPUT			
	214M15/045M10	214M15/045M10	Brass	Tufnol
	303S31	Cse/HD		
TORQUE Nm	0.500	2.000	0.200	0.170
K.W.	0.045	0.209	0.022	0.019

Approximate Tooth Size

Special numbers
of teeth available
between 20 - 150

PART NUMBER	TEETH	PCD	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						CG	CP
CG20-20	20	8.09	8.89	8.89	3	£10.12	£9.49
CG20-25	25	10.11	10.91	10.91	3	£10.19	£9.62
CG20-30	30	12.13	12.94	12.00	4	£10.24	£9.68
CG20-35	35	14.15	14.96	12.00	4	£10.30	£9.77
CG20-40	40	16.17	16.98	12.00	4	£10.47	£9.96
CG20-45	45	18.19	19.00	12.00	4	£11.06	£10.70
CG20-50	50	20.21	21.02	12.00	4	£11.48	£11.15
CG20-55	55	22.23	23.04	15.00	5	£11.93	£11.53
CG20-60	60	24.26	25.06	15.00	5	£12.15	£11.93
CG20-65	65	26.28	27.08	15.00	5	£12.75	£12.40
CG20-70	70	28.30	29.11	15.00	5	£13.46	£12.83
CG20-75	75	30.32	31.13	15.00	5	£14.12	£13.30
CG20-80	80	32.34	33.15	15.00	5	£14.51	£13.64
CG20-85	85	34.36	35.17	15.00	5	£14.90	£13.95
CG20-90	90	36.38	37.19	15.00	5	£15.23	£14.25
CG20-95	95	38.40	39.21	15.00	5	£15.57	£14.50
CG20-100	100	40.43	41.23	15.00	5	£16.17	£14.77
CG20-110	110	44.47	45.28	15.00	5	£16.65	£15.39
CG20-120	120	48.51	49.32	15.00	5	£16.92	£15.95
CG20-150	150	60.64	61.45	15.00	5	£20.91	£18.23

'Never Knowingly Outpriced'

Pinions & Shafts

Steel PITCH 0.050"



**T, DT
ST
DST**

Pinion Shafts

Materials

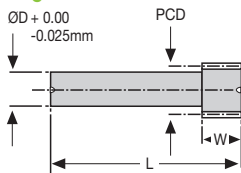
20° P.A.

STD : Steel 214M15/045M10 and
Stainless Steel 303S21/3 (En58)



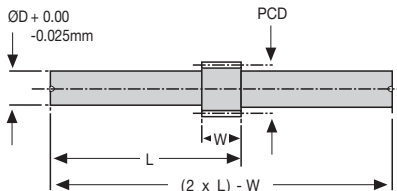
T & ST Single

Single sided



DT & DST Double

Double sided



*Other numbers of teeth available,
please see gear section.*

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER		PITCH MOD	TEETH	PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5			
STD.EN32	STAINLESS							STD.T	DT	ST	DST
T0.25-15	ST0.25-15	0.25	15	3.75	20	2.50	3	£14.77	£22.26	£22.12	£33.24
T0.25-18	ST0.25-18	0.25	18	4.50	20	2.50	3	£16.04	£24.10	£22.78	£34.23
T0.3-16	ST0.3-16	0.30	16	4.80	20	2.50	3	£14.97	£22.47	£22.57	£33.56
T0.3-20	ST0.3-20	0.30	20	6.00	20	2.50	3	£16.15	£24.46	£22.94	£34.39
T0.4-18	ST0.4-18	0.40	18	7.20	25	3.00	5	£15.23	£22.93	£22.85	£34.35
T0.4-27	ST0.4-27	0.40	27	10.80	25	3.00	5	£16.45	£24.72	£23.15	£34.76
T0.5-16	ST0.5-16	0.50	16	8.00	25	3.00	6	£15.97	£24.03	£24.10	£36.19
T0.5-20	ST0.5-20	0.50	20	10.00	25	3.00	6	£16.25	£24.51	£24.70	£37.08
T0.5-24	ST0.5-24	0.50	24	12.00	25	3.00	6	£17.13	£25.74	£25.67	£38.56



PART NUMBER									PRICE EACH 1 - 5			
STD.EN32	STAINLESS	PITCH		PCD	L	W	ØD	STD.EN32	STAINLESS		DST	
STD.EN32	STAINLESS	MOD	TEETH		(mm)	(mm)	(mm)	T	DT	ST		
T0.8-15	ST0.8-15	0.80	15	12.00	32	5	8	£17.87	£26.82	£26.80	£40.25	
T0.8-16	ST0.8-16	0.80	16	12.80	32	5	8	£18.67	£28.02	£26.89	£40.39	
T0.8-18	ST0.8-18	0.80	18	14.40	32	5	8	£19.07	£28.67	£28.66	£43.03	
T1-14	ST1-14	1.00	14	14.00	38	8	10	£21.61	£32.43	£32.45	£48.79	
T1-16	ST1-16	1.00	16	16.00	38	8	10	£22.30	£33.50	£33.17	£49.82	
T1-20	ST1-20	1.00	20	20.00	38	8	10	£23.09	£34.72	£34.60	£51.95	
T1.25-12	ST1.25-12	1.25	12	15.00	50	10	12	£22.38	£33.61	£44.02	£66.12	
T1.25-15	ST1.25-15	1.25	15	18.75	50	10	12	£22.78	£34.24	£44.62	£66.94	
T1.25-18	ST1.25-18	1.25	18	22.50	50	10	12	£23.25	£34.95	£48.47	£72.76	
T1.5-13	ST1.5-13	1.5	13	19.50	76	12	15	£22.69	£34.03	£51.71	£77.63	
T1.5-16	ST1.5-16	1.5	16	24.00	76	12	15	£23.26	£34.98	£52.46	£78.74	
T1.5-20	ST1.5-20	1.5	20	30.00	76	12	15	£23.99	£36.04	£53.46	£80.23	
T2-13	ST2-13	2.0	13	26.00	76	20	20	£24.81	£37.31	£54.70	£82.08	
T2-16	ST2-16	2.0	16	32.00	76	20	20	£27.31	£41.02	£58.38	£87.67	
T2-18	ST2-18	2.0	18	36.00	76	20	20	£30.32	£45.47	£62.84	£94.35	
T2.5-12	ST2.5-12	2.5	12	30.00	100	25	20	£30.77	£46.21	£61.60	£92.53	
T2.5-15	ST2.5-15	2.5	15	37.50	100	25	20	£32.63	£48.98	£65.37	£100.88	
T2.5-18	ST2.5-18	2.5	18	45.00	100	25	20	£34.47	£51.71	£69.01	£120.90	
T3-12	ST3-12	3.0	12	36.00	108	32	22	£43.13	£64.76	£71.19	£106.91	
T3-14	ST3-14	3.0	14	42.00	108	32	22	£44.40	£66.72	£73.37	£110.14	
T3-16	ST3-16	3.0	16	48.00	108	32	22	£48.53	£72.86	£80.16	£120.27	
T4-12	ST4-12	4.0	12	48.00	115	38	30	£54.90	£82.37	£90.62	£135.98	
T4-15	ST4-15	4.0	15	60.00	115	38	30	£57.23	£85.86	£94.46	£141.78	
T4-18	ST4-18	4.0	18	72.00	115	38	30	£60.14	£90.08	£99.34	£142.20	

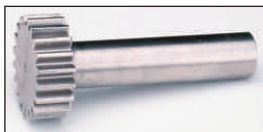
Pinions & Shafts
MOD 0.8-4

'Never Knowingly Outpriced'



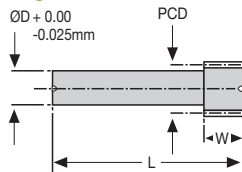
20° P.A.

STD : Steel 214M15/045M10 and
Stainless Steel 303S21/3 (En58)



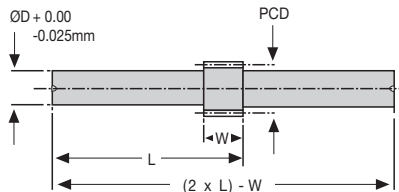
T & ST Single

Single sided



DT & DST Double

Double sided



*Other numbers of teeth available,
please see gear section.*

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER		PITCH DP	TEETH	PCD	L (ins)	W (ins)	ØD (ins)	PRICE EACH 1 - 5			
STD.EN32	STAINLESS							STD	EN32	DT	ST
T96-15	ST96-15	96	15	0.156	0.750	0.093	0.1250	£14.77	£22.26	£22.12	£33.24
T96-18	ST96-18	96	18	0.187	0.750	0.093	0.1250	£16.04	£24.10	£22.78	£34.23
T80-16	ST80-16	80	16	0.200	0.750	0.093	0.1250	£15.00	£22.48	£22.71	£34.04
T80-20	ST80-20	80	20	0.250	0.750	0.093	0.1250	£16.25	£24.61	£23.50	£35.30
T72-18	ST72-18	72	18	0.250	1.000	0.125	0.1875	£15.23	£22.93	£23.25	£34.95
T72-27	ST72-27	72	27	0.375	1.000	0.125	0.1875	£16.72	£25.12	£24.21	£36.36
T64-16	ST64-16	64	16	0.2500	1.000	0.125	0.1875	£15.23	£22.93	£22.85	£34.35
T64-20	ST64-20	64	20	0.3125	1.000	0.125	0.1875	£16.13	£24.21	£23.83	£35.82
T64-24	ST64-24	64	24	0.3750	1.000	0.125	0.1875	£16.72	£25.12	£25.08	£37.71

PART NUMBER		PITCH				PRICE EACH 1 - 5							
STD.EN32	STAINLESS	DP	TEETH	PCD	L (ins)	W (ins)	ØD (ins)	STD.EN32 T	STAINLESS DT	ST ST	DST		
T48-15	ST48-15	48	15	0.3125	1.250	0.187	0.2500	£15.97	£24.03	£24.10	£36.19		
T48-16	ST48-16	48	16	0.3330	1.250	0.187	0.2500	£16.25	£24.51	£24.70	£37.08		
T48-18	ST48-18	48	18	0.3750	1.250	0.187	0.2500	£17.13	£25.74	£25.67	£38.56		
T32-14	ST32-14	32	14	0.4735	1.500	0.187	0.3125	£17.87	£26.82	£26.80	£40.25		
T32-16	ST32-16	32	16	0.5000	1.500	0.187	0.3125	£18.49	£27.86	£27.60	£41.45		
T32-20	ST32-20	32	20	0.6250	1.500	0.187	0.3125	£19.07	£28.67	£28.66	£43.03		
T24-12	ST24-12	24	12	0.5000	2.000	0.312	0.3750	£21.61	£32.43	£32.45	£48.79		
T24-15	ST24-15	24	15	0.6250	2.000	0.312	0.3750	£22.30	£33.50	£33.17	£49.82		
T24-18	ST24-18	24	18	0.7500	2.000	0.312	0.3750	£23.09	£34.72	£34.60	£51.95		
T20-13	ST20-13	20	13	0.6500	3.000	0.375	0.5000	£22.38	£33.61	£44.02	£66.12		
T20-16	ST20-16	20	16	0.8000	3.000	0.375	0.5000	£22.78	£34.24	£44.62	£67.13		
T20-20	ST20-20	20	20	1.0000	3.000	0.375	0.5000	£23.25	£34.95	£45.35	£68.05		
T16-13	ST16-13	16	13	0.8125	3.000	0.500	0.6250	£22.69	£34.03	£51.40	£77.13		
T16-16	ST16-16	16	16	1.0000	3.000	0.500	0.6250	£23.26	£34.98	£52.55	£78.92		
T16-18	ST16-18	16	18	1.1250	3.000	0.500	0.6250	£23.99	£36.04	£53.46	£80.23		
T12-12	ST12-12	12	12	1.0000	4.000	0.750	0.7500	£24.81	£37.31	£54.70	£82.08		
T12-15	ST12-15	12	15	1.2500	4.000	0.750	0.7500	£27.31	£40.93	£58.38	£87.67		
T12-18	ST12-18	12	18	1.5000	4.000	0.750	0.7500	£30.32	£45.47	£62.84	£94.35		
T10-12	ST10-12	10	12	1.2000	4.000	1.000	0.7500	£30.77	£46.21	£61.60	£92.53		
T10-14	ST10-14	10	14	1.4000	4.000	1.000	0.7500	£32.63	£48.98	£65.37	£98.10		
T10-16	ST10-16	10	16	1.6000	4.000	1.000	0.7500	£34.47	£51.71	£69.01	£103.59		
T8-12	ST8-12	8	12	1.5000	4.250	1.250	0.8750	£43.13	£64.76	£71.19	£106.91		
T8-14	ST8-14	8	14	1.7000	4.250	1.250	0.8750	£44.40	£66.72	£73.37	£110.14		
T8-16	ST8-16	8	16	2.0000	4.250	1.250	0.8750	£48.53	£72.86	£80.16	£120.27		
T6-12	ST6-12	6	12	2.0000	4.500	1.500	1.2500	£54.90	£82.37	£90.62	£135.98		
T6-15	ST6-15	6	15	2.5000	4.500	1.500	1.2500	£57.23	£85.86	£94.46	£141.78		
T6-18	ST6-18	6	18	3.0000	4.500	1.500	1.2500	£60.14	£90.34	£99.34	£148.67		

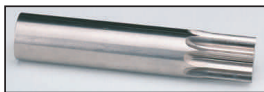
'Never Knowingly Outpriced'

20° P.A.

STD : Stainless Steel 303S21/3 (En58)



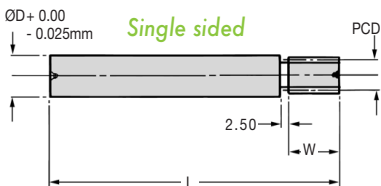
XP Single



SP Single

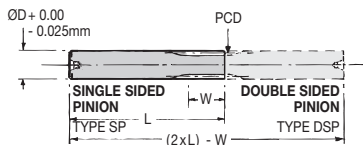


DSP Double



Single sided

Double sided



MOD 0.25-0.4

Shafts

Other numbers of teeth available, please see gear section.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pinions &

PART NUMBER		PITCH MOD	TEETH	CORRECTED PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5		
STAINLESS	STAINLESS							SP	DSP	XP
SP0.25-8	XP0.25-8	0.25	8	2.25	60	4	5	£15.36	£23.06	£16.72
SP0.25-10	XP0.25-10	0.25	10	2.75	60	4	5	£15.42	£23.22	£16.85
SP0.25-12	XP0.25-12	0.25	12	3.25	60	4	5	£15.57	£23.45	£16.99
SP0.3-9	XP0.3-9	0.3	9	3.00	60	4	5	£15.42	£23.22	£16.85
SP0.3-11	XP0.3-11	0.3	11	3.60	60	4	5	£15.57	£23.45	£16.99
SP0.3-13	XP0.3-13	0.3	13	4.20	60	4	5	£15.82	£23.80	£17.27
SP0.4-8	XP0.4-8	0.4	8	3.60	60	5	6	£16.22	£24.40	£17.73
SP0.4-10	XP0.4-10	0.4	10	4.40	60	5	6	£16.25	£24.51	£17.80
SP0.4-12	XP0.4-12	0.4	12	5.20	60	5	6	£16.44	£24.67	£17.89

PART NUMBER		PITCH MOD	CORRECTED TEETH	PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5		
STAINLESS	STAINLESS							SP	DSP	STAINLESS XP
SP0.5-9	XP0.5-9	0.5	9	5.00	76	5	8	£16.32	£24.58	£17.87
SP0.5-11	XP0.5-11	0.5	11	6.00	76	5	8	£16.77	£25.21	£18.30
SP0.5-13	XP0.5-13	0.5	13	7.00	76	5	8	£16.95	£25.44	£18.50
SP0.8-8	XP0.8-8	0.8	8	7.20	76	8	12	£16.90	£25.34	£18.43
SP0.8-9	XP0.8-9	0.8	9	8.00	76	8	12	£16.94	£25.42	£18.48
SP0.8-10	XP0.8-10	0.8	10	8.80	76	8	12	£17.13	£25.74	£18.68
SP0.8-11	XP0.8-11	0.8	11	9.60	76	8	12	£17.48	£26.27	£19.06
SP0.8-12	XP0.8-12	0.8	12	10.40	76	8	12	£17.87	£26.82	£19.44
SP1-9	XP1-9	1.0	9	10.00	76	10	15	£21.61	£32.43	£23.56
SP1-10	XP1-10	1.0	10	11.00	76	10	15	£22.30	£33.50	£24.37
SP1-11	XP1-11	1.0	11	12.00	76	10	15	£22.43	£33.66	£24.46
SP1-12	XP1-12	1.0	12	13.00	76	10	15	£22.79	£34.27	£24.89
SP1.25-8	XP1.25-8	1.25	8	11.25	100	12	20	£23.80	£35.70	£25.95
SP1.25-9	XP1.25-9	1.25	9	12.50	100	12	20	£24.96	£37.44	£27.24
SP1.25-10	XP1.25-10	1.25	10	13.75	100	12	20	£25.95	£38.96	£28.31
SP1.25-11	XP1.25-11	1.25	11	15.00	100	12	20	£27.24	£40.88	£29.69
SP1.25-12	XP1.25-12	1.25	12	16.25	100	12	20	£27.53	£41.32	£30.04
SP1.25-13	XP1.25-13	1.25	13	17.50	100	12	20	£28.15	£42.27	£30.75
SP1.5-8	XP1.5-8	1.5	8	13.50	100	14	25	£32.63	£48.98	£35.59
SP1.5-9	XP1.5-9	1.5	9	15.00	100	14	25	£32.90	£49.39	£35.91
SP1.5-10	XP1.5-10	1.5	10	16.50	100	14	25	£33.36	£50.10	£36.37
SP1.5-11	XP1.5-11	1.5	11	18.00	100	14	25	£33.64	£50.57	£36.73
SP1.5-12	XP1.5-12	1.5	12	19.50	100	14	25	£34.03	£51.12	£37.15
SP1.5-13	XP1.5-13	1.5	13	21.00	100	14	25	£35.26	£52.88	£38.46
SP2-8	XP2-8	2.0	8	18.00	125	22	25	£36.06	£54.20	£44.45
SP2-9	XP2-9	2.0	9	20.00	125	22	25	£36.85	£55.32	£45.43

Pinions & Shafts

MOD 0.5-2

'Never Knowingly Outpriced'



**SP
XP
DSP**

Pinion Shafts

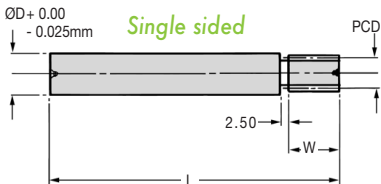
Materials

STD : Stainless Steel 303S21/3 (En58)

20° P.A.

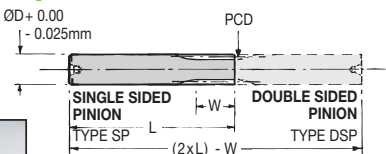


XP Single



SP Single

Single sided **Double sided**



DSP Double

Shafts DP 96,64

*Other numbers of teeth available,
please see gear section.*

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Pinions &

PART NUMBER		PITCH DP	TEETH	CORRECTED PCD	L (ins)	W (ins)	ØD (ins)	PRICE EACH 1 - 5		
STAINLESS	STAINLESS							STAINLESS		
SP	XP	DP					SP	DSP	XP	
SP 96-8	XP 96-8	96	8	0.0937	2.500	0.156	0.1875	£15.36	£23.06	£16.72
SP 96-10	XP 96-10	96	10	0.1146	2.500	0.156	0.1875	£15.42	£23.22	£16.85
SP 96-12	XP 96-12	96	12	0.1354	2.500	0.156	0.1875	£15.57	£23.45	£16.99
SP 80-9	XP 80-9	80	9	0.1250	2.500	0.156	0.1875	£15.42	£23.22	£16.85
SP 80-11	XP 80-11	80	11	0.1500	2.500	0.156	0.1875	£15.57	£23.45	£16.99
SP 72-8	XP 72-8	72	8	0.1250	2.500	0.187	0.2500	£16.22	£24.40	£17.73
SP 72-12	XP 72-12	72	12	0.1806	2.500	0.187	0.2500	£16.25	£24.51	£17.80
SP 72-15	XP 72-15	72	15	0.2220	2.500	0.187	0.2500	£16.44	£24.67	£17.89
SP 64-9	XP 64-9	64	9	0.1562	2.500	0.187	0.2500	£16.25	£24.46	£17.80
SP 64-11	XP 64-11	64	11	0.1875	2.500	0.187	0.2500	£16.53	£24.85	£18.05
SP 64-13	XP 64-13	64	13	0.2188	2.500	0.187	0.2500	£16.68	£25.07	£18.23

20.12



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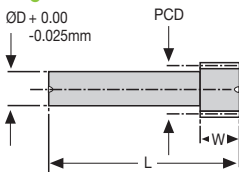
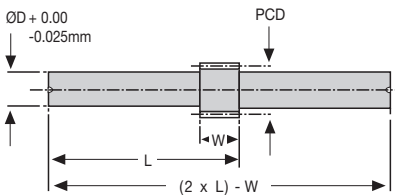
PART NUMBER		PITCH DP	TEETH	CORRECTED PCD	L (ins)	W (ins)	ØD (ins)	PRICE EACH 1 - 5		
STAINLESS	STAINLESS							SP	DSP	STAINLESS XP
SP 48-8	XP 48-8	48	8	0.1875	3.000	0.250	0.3125	£16.32	£24.58	£17.87
SP 48-10	XP 48-10	48	10	0.2292	3.000	0.250	0.3125	£16.77	£25.21	£18.30
SP 48-12	XP 48-12	48	12	0.2708	3.000	0.250	0.3125	£16.95	£25.44	£18.50
SP 32-9	XP 32-9	32	9	0.3125	3.000	0.312	0.5000	£16.90	£25.34	£18.43
SP 32-10	XP 32-10	32	10	0.3438	3.000	0.312	0.5000	£16.94	£25.42	£18.48
SP 32-11	XP 32-11	32	11	0.3750	3.000	0.312	0.5000	£17.13	£25.74	£18.68
SP 32-12	XP 32-12	32	12	0.4063	3.000	0.312	0.5000	£17.48	£26.27	£19.06
SP 32-13	XP 32-13	32	13	0.4375	3.000	0.312	0.5000	£17.87	£26.82	£19.44
SP 24-8	XP 24-8	24	8	0.3750	4.000	0.375	0.6250	£21.61	£32.43	£23.56
SP 24-9	XP 24-9	24	9	0.4167	4.000	0.375	0.6250	£22.30	£33.50	£24.37
SP 24-10	XP 24-10	24	10	0.4583	4.000	0.375	0.6250	£22.43	£33.66	£24.46
SP 24-11	XP 24-11	24	11	0.5000	4.000	0.375	0.6250	£22.51	£33.88	£24.61
SP 24-12	XP 24-12	24	12	0.5417	4.000	0.375	0.6250	£22.79	£34.27	£24.89
SP 20-8	XP 20-8	20	8	0.4500	4.000	0.437	0.7500	£22.74	£34.15	£24.81
SP 20-9	XP 20-9	20	9	0.5000	4.000	0.437	0.7500	£23.25	£34.95	£25.36
SP 20-10	XP 20-10	20	10	0.5500	4.000	0.437	0.7500	£24.07	£36.19	£26.27
SP 20-11	XP 20-11	20	11	0.6000	4.000	0.437	0.7500	£24.37	£36.55	£26.56
SP 20-12	XP 20-12	20	12	0.6500	4.000	0.437	0.7500	£24.58	£36.95	£26.85
SP 16-8	XP 16-8	16	8	0.5625	5.000	0.562	1.0000	£32.63	£48.98	£35.59
SP 16-9	XP 16-9	16	9	0.6250	5.000	0.562	1.0000	£32.90	£49.39	£35.91
SP 16-10	XP 16-10	16	10	0.6875	5.000	0.562	1.0000	£33.36	£50.10	£36.37
SP 16-11	XP 16-11	16	11	0.7500	5.000	0.562	1.0000	£33.64	£50.57	£36.73
SP 16-12	XP 16-12	16	12	0.8125	5.000	0.562	1.0000	£33.88	£50.88	£36.98
SP 16-13	XP 16-13	16	13	0.8750	5.000	0.562	1.0000	£34.04	£51.20	£37.20
SP 12-8	XP 12-8	12	8	0.7500	5.000	0.562	1.0000	£36.06	£54.20	£44.45
SP 12-9	XP 12-9	12	9	0.8333	5.000	0.562	1.0000	£36.85	£55.32	£45.43

'Never Knowingly Outpriced'

**STC
DSTC****Pinion Shafts - CP****Materials**

20° P.A.

STD : Stainless Steel 303S21/3 (En58)

**STC** Single**Single sided****DSTC** Double**Double sided**

*Other numbers of teeth available,
please see gear section.*

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

*** CORRECTED**

PART NUMBER	PITCH CP (ins)	TEETH	PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
							STC	DSTC
STC20-10	0.050"	10 *	4.45	30	6	4	£20.16	£30.34
STC20-12	0.050"	12 *	5.26	30	6	4	£22.30	£33.50
STC20-15	0.050"	15 *	6.47	30	6	4	£23.92	£35.96
STC20-20	0.050"	20	8.09	40	6	6	£24.96	£37.44
STC20-25	0.050"	25	10.11	40	6	6	£26.47	£39.73
STC20-30	0.050"	30	12.13	50	6	6	£29.07	£43.66
STC20-50	0.050"	50	20.21	50	6	6	£40.39	£60.72
STC10-10	0.100"	10 *	8.89	50	8	8	£26.70	£40.17
STC10-12	0.100"	12 *	10.51	50	8	8	£30.50	£45.80
STC10-15	0.100"	15 *	12.94	50	8	8	£32.02	£48.10
STC10-20	0.100"	20	16.17	60	8	10	£34.72	£52.09
STC10-25	0.100"	25	20.21	70	8	10	£43.59	£65.46
STC10-30	0.100"	30	24.26	70	8	10	£53.67	£80.63
STC10-50	0.100"	50	40.43	70	8	10	£78.47	£117.74

20.14

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Materials

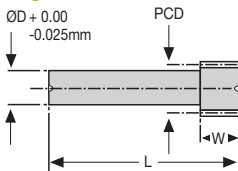
Pinion Shafts - CP

STC DSTC

STD : Stainless Steel 303S21/3 (En58)

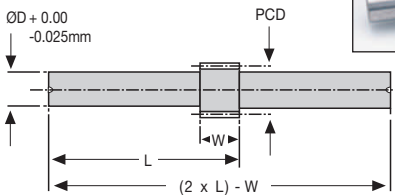
20° P.A.

Single sided



STC Single

Double sided



DSTC Double

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

*Other numbers of teeth available,
please see gear section.*

*** CORRECTED**

PART NUMBER	PITCH CP (mm)	TEETH	PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
							STC	DSTC
STC1-10	1	10 *	3.50	25	6	3	£20.16	£30.34
STC1-12	1	12 *	4.14	25	6	3	£22.30	£33.50
STC1-15	1	15 *	5.09	25	6	3	£23.92	£35.96
STC1-20	1	20	6.37	30	6	5	£24.96	£37.44
STC1-25	1	25	7.96	40	6	5	£26.47	£39.73
STC1-30	1	30	9.55	40	6	5	£29.07	£43.66
STC1-50	1	50	15.92	40	6	5	£40.39	£60.72
STC2-10	2	10 *	7.00	50	8	6	£26.70	£40.17
STC2-12	2	12 *	8.28	50	8	6	£30.50	£45.80
STC2-15	2	15 *	10.19	50	8	6	£32.02	£48.10
STC2-20	2	20	12.73	60	8	8	£34.72	£52.09
STC2-25	2	25	15.92	60	8	8	£43.59	£65.46
STC2-30	2	30	19.10	60	8	8	£53.67	£80.63
STC2-50	2	50	31.83	60	8	8	£78.47	£117.74

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20.15

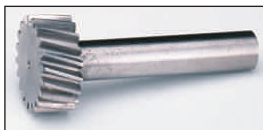
Pinions & Shafts
PITCH 1,2mm

STH Helical Pinion Shafts - CP Materials

DSTH

17° 45' H.A.
20° P.A.

STD : Stainless Steel 303S21/3 (En58)

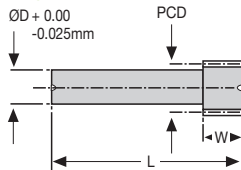


STH Single

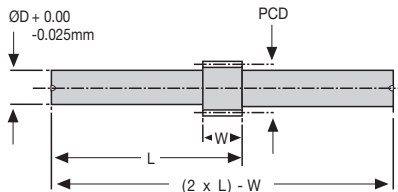


DSTH Double

Single sided



Double sided



Right Hand as standard.

Other numbers of teeth available,
please see gear section.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

* CORRECTED

PART NUMBER	PITCH CP (ins)	TEETH	PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
							STH	DSTH
STH20-10	0.050	10 *	4.67	30	6	4	£20.47	£30.77
STH20-12	0.050	12 *	5.52	30	6	4	£22.29	£33.44
STH20-15	0.050	15 *	6.79	30	6	4	£24.37	£36.55
STH20-20	0.050	20	8.49	40	6	6	£25.36	£38.09
STH20-25	0.050	25	10.61	40	6	6	£26.70	£40.17
STH20-30	0.050	30	12.73	50	6	6	£29.10	£43.73
STH20-50	0.050	50	21.22	50	6	6	£40.78	£61.25
STH10-10	0.100	10 *	9.34	50	8	8	£27.13	£40.75
STH10-12	0.100	12 *	11.04	50	8	8	£30.86	£46.36
STH10-15	0.100	15 *	13.58	50	8	8	£32.75	£49.21
STH10-20	0.100	20	16.98	60	8	10	£35.36	£53.14
STH10-25	0.100	25	21.22	70	8	10	£42.65	£64.06
STH10-30	0.100	30	25.47	70	8	10	£54.24	£81.43
STH10-50	0.100	50	42.45	70	8	10	£81.38	£122.15

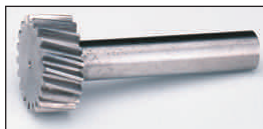
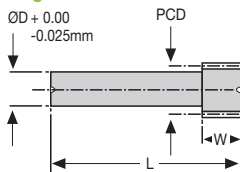
Materials Helical Pinion Shafts - CP STH

STD : Stainless Steel 303S21/3 (En58)

17° 45' H.A.
20° P.A.

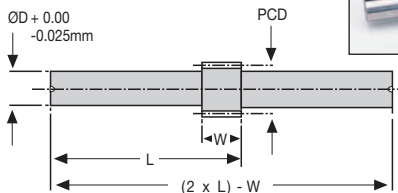
DSTH

Single sided



STH Single

Double sided



DSTH Double

Right Hand as standard.

DISCOUNTS

	List Price
1 - 5	- 12%
6 - 19	- 25%
20 - 39	- 33%
40 - 59	- 37%
60 - 99	- 42%
100 - 200	- 42%

Other numbers of teeth available, please see gear section.

* CORRECTED

PART NUMBER	PITCH CP (mm)	TEETH	PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
							STH	DSTH
STH1-10	1	10 *	3.68	25	6	3	£20.47	£30.77
STH1-12	1	12 *	4.34	25	6	3	£22.29	£33.44
STH1-15	1	15 *	5.35	25	6	3	£24.37	£36.55
STH1-20	1	20	6.68	30	6	5	£25.36	£38.09
STH1-25	1	25	8.36	40	6	5	£26.70	£40.17
STH1-30	1	30	10.03	40	6	5	£29.10	£43.73
STH1-50	1	50	16.71	40	6	5	£40.78	£61.25
STH2-10	2	10 *	7.35	50	8	6	£27.13	£40.75
STH2-12	2	12 *	8.69	50	8	6	£30.86	£46.36
STH2-15	2	15 *	10.70	50	8	6	£32.75	£49.21
STH2-20	2	20	13.37	60	8	8	£35.36	£53.14
STH2-25	2	25	16.71	60	8	8	£42.65	£64.06
STH2-30	2	30	20.05	60	8	8	£54.24	£81.43
STH2-50	2	50	33.42	60	8	8	£81.38	£122.15

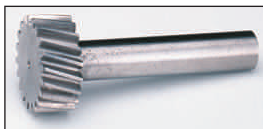


TH Helical Pinion Shafts Materials

DTH

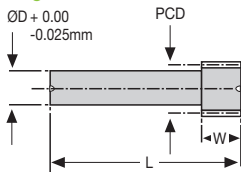
17° 45' H.A.
20° P.A.

STD : Steel 214M15/045M10



TH Single

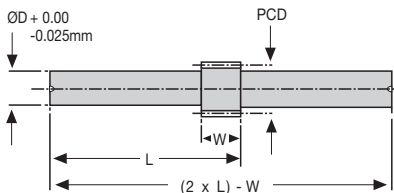
Single sided



DTH Double

Right Hand as
standard.

Double sided



Other numbers of teeth available,
please see gear section.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

* CORRECTED

PART NUMBER	PITCH		PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
	MOD	TEETH					TH	DTH
TH0.4-9	0.4	9 *	4.20	20	5	3	£16.83	£25.32
TH0.4-10	0.4	10 *	4.62	20	5	3	£17.67	£26.57
TH0.4-11	0.4	11 *	5.04	20	5	3	£18.45	£27.74
TH0.4-12	0.4	12 *	5.46	25	5	4	£19.01	£28.60
TH0.4-13	0.4	13 *	5.88	25	5	4	£19.77	£29.72
TH0.4-15	0.4	15 *	6.72	25	5	5	£20.20	£30.38
TH0.4-20	0.4	20	8.40	25	5	5	£21.48	£32.29
TH0.5-9	0.5	9 *	5.25	25	6	4	£19.93	£29.89
TH0.5-10	0.5	10 *	5.78	25	6	4	£20.73	£31.17
TH0.5-11	0.5	11 *	6.30	25	6	4	£21.68	£32.61
TH0.5-12	0.5	12 *	6.83	30	6	5	£22.49	£33.85
TH0.5-13	0.5	13 *	7.35	30	6	5	£22.71	£34.06
TH0.5-15	0.5	15 *	8.40	30	6	6	£22.81	£34.33
TH0.5-20	0.5	20	10.50	30	6	6	£22.85	£34.35

PART NUMBER	PITCH		PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
	MOD	TEETH					TH	DTH
TH0.7-9	0.7	9 *	7.35	35	10	5	£21.42	£32.27
TH0.7-10	0.7	10 *	8.09	35	10	5	£21.84	£32.75
TH0.7-11	0.7	11 *	8.82	35	10	5	£22.29	£33.44
TH0.7-12	0.7	12 *	9.56	40	10	6	£22.99	£34.52
TH0.7-13	0.7	13 *	10.29	40	10	6	£23.81	£35.72
TH0.7-15	0.7	15 *	11.76	40	10	8	£24.40	£36.63
TH0.7-20	0.7	20	14.70	40	10	8	£25.44	£38.30
TH0.8-9	0.8	9 *	8.40	40	10	6	£21.68	£32.61
TH0.8-10	0.8	10 *	9.24	40	10	6	£22.45	£33.75
TH0.8-11	0.8	11 *	10.08	40	10	6	£23.74	£35.65
TH0.8-12	0.8	12 *	10.92	50	10	8	£24.58	£36.95
TH0.8-13	0.8	13 *	11.76	50	10	8	£25.79	£38.80
TH0.8-15	0.8	15 *	13.44	50	10	10	£27.31	£43.20
TH0.8-20	0.8	20	16.80	50	10	10	£28.13	£47.44
TH1-9	1.0	9 *	10.50	60	12	8	£29.37	£44.12
TH1-10	1.0	10 *	11.55	60	12	8	£30.81	£46.34
TH1-11	1.0	11 *	12.60	60	12	8	£32.02	£48.10
TH1-12	1.0	12 *	13.65	70	12	10	£32.32	£48.61
TH1-13	1.0	13 *	14.70	70	12	10	£33.43	£50.23
TH1-15	1.0	15 *	16.80	70	12	10	£34.13	£51.23
TH1-20	1.0	20	21.00	70	12	10	£35.28	£52.96
TH1.25-9	1.25	9 *	13.13	70	12	10	£36.06	£54.20
TH1.25-10	1.25	10 *	14.44	70	12	10	£37.40	£56.13
TH1.25-11	1.25	11 *	15.75	70	12	10	£39.15	£58.75
TH1.25-12	1.25	12 *	17.06	70	12	12	£40.39	£60.72
TH1.25-13	1.25	13 *	18.38	70	12	12	£41.91	£62.95
TH1.25-15	1.25	15 *	21.00	70	12	12	£43.30	£65.03
TH1.25-20	1.25	20	26.25	70	12	12	£45.27	£68.04
TH1.5-9	1.5	9 *	15.75	80	16	12	£44.30	£66.45
TH1.5-10	1.5	10 *	17.33	80	16	12	£45.68	£68.54
TH1.5-11	1.5	11 *	18.90	80	16	12	£47.31	£71.04
TH1.5-12	1.5	12 *	20.48	80	16	15	£48.61	£72.95
TH1.5-13	1.5	13 *	22.05	80	16	15	£49.51	£74.33
TH1.5-15	1.5	15 *	25.20	80	16	15	£51.45	£77.22
TH1.5-20	1.5	20	31.50	80	16	15	£53.20	£79.90
TH2-9	2.0	9 *	21.00	100	24	15	£51.06	£76.64
TH2-10	2.0	10 *	23.10	100	24	15	£52.59	£78.94
TH2-11	2.0	11 *	25.20	100	24	15	£54.51	£82.91
TH2-12	2.0	12 *	27.30	100	24	20	£56.12	£84.23
TH2-13	2.0	13 *	29.40	100	24	20	£57.94	£86.99
TH2-15	2.0	15 *	33.60	100	24	20	£61.13	£91.70
TH2-20	2.0	20	42.00	100	24	20	£66.56	£99.89

'Never Knowingly Outpriced'

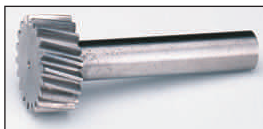


TH Helical Pinion Shafts Materials

DTH

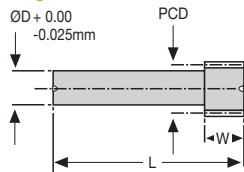
17° 45' H.A.
20° P.A.

STD : Steel 214M15/045M10



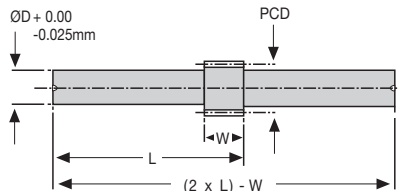
TH Single

Single sided



DTH Double
Right Hand as standard.

Double sided



Other numbers of teeth available,
please see gear section.

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

* CORRECTED

PART NUMBER	PITCH		PCD	L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
	DP	TEETH					TH	DTH
TH64-9	64	9 *	4.17	20	5	3	£16.83	£25.32
TH64-10	64	10 *	4.58	20	5	3	£17.67	£26.57
TH64-11	64	11 *	5.00	20	5	3	£18.45	£27.74
TH64-12	64	12	5.00	25	5	4	£19.01	£28.60
TH64-13	64	13	5.42	25	5	4	£19.77	£29.72
TH64-15	64	15	6.25	25	5	4	£20.20	£30.38
TH64-20	64	20	8.33	25	5	4	£21.48	£32.29
TH48-9	48	9 *	5.56	25	6	4	£19.93	£29.89
TH48-10	48	10 *	6.11	25	6	4	£20.73	£31.17
TH48-11	48	11 *	6.67	25	6	4	£21.68	£32.61
TH48-12	48	12	6.67	30	6	5	£22.49	£33.85
TH48-13	48	13	7.22	30	6	5	£22.71	£34.06
TH48-15	48	15	8.33	30	6	6	£22.81	£34.33
TH48-20	48	20	11.11	30	6	6	£23.50	£35.31

20.20



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PART NUMBER	PITCH			L (mm)	W (mm)	ØD (mm)	PRICE EACH 1 - 5	
	DP	TEETH	PCD				TH	DTH
TH40-9	40	9 *	6.67	35	10	5	£21.42	£32.27
TH40-10	40	10 *	7.33	35	10	5	£21.84	£32.78
TH40-11	40	11 *	8.00	35	10	5	£22.29	£33.44
TH40-12	40	12	8.00	40	10	6	£22.99	£34.52
TH40-13	40	13	8.67	40	10	8	£23.81	£35.72
TH40-15	40	15	10.00	40	10	8	£24.40	£36.63
TH40-20	40	20	13.33	40	10	8	£25.44	£38.30
TH32-9	32	9 *	8.33	40	10	6	£21.68	£32.61
TH32-10	32	10 *	9.17	40	10	6	£22.45	£33.75
TH32-11	32	11 *	10.00	40	10	6	£23.74	£35.65
TH32-12	32	12	10.00	50	10	8	£24.58	£36.95
TH32-13	32	13	10.83	50	10	8	£25.13	£37.77
TH32-15	32	15	12.50	50	10	10	£25.60	£38.47
TH32-20	32	20	16.67	50	10	10	£26.33	£39.58
TH24-9	24	9 *	11.11	60	12	8	£29.37	£44.12
TH24-10	24	10 *	12.22	60	12	8	£30.85	£46.34
TH24-11	24	11 *	13.33	60	12	8	£32.02	£48.10
TH24-12	24	12	13.33	70	12	10	£32.35	£48.56
TH24-13	24	13	14.45	70	12	10	£33.43	£50.23
TH24-15	24	15	16.67	70	12	10	£34.13	£51.23
TH24-20	24	20	22.22	70	12	10	£35.28	£52.96
TH20-9	20	9 *	13.33	70	12	10	£36.06	£54.20
TH20-10	20	10 *	14.67	70	12	10	£37.40	£56.13
TH20-11	20	11 *	16.00	70	12	10	£39.15	£58.75
TH20-12	20	12	16.00	70	12	12	£40.39	£60.72
TH20-13	20	13	17.34	70	12	12	£41.91	£62.95
TH20-15	20	15	20.00	70	12	12	£43.30	£65.03
TH20-20	20	20	26.67	70	12	12	£45.27	£68.04
TH16-9	16	9 *	16.67	80	16	12	£44.30	£66.45
TH16-10	16	10 *	18.34	80	16	12	£45.68	£68.54
TH16-11	16	11 *	20.00	80	16	12	£47.31	£71.04
TH16-12	16	12	20.00	80	16	15	£48.61	£72.95
TH16-13	16	13	21.67	80	16	15	£49.51	£74.33
TH16-15	16	15	25.00	80	16	15	£51.45	£77.22
TH16-20	16	20	33.34	80	16	15	£53.20	£79.90
TH12-9	12	9 *	22.22	100	24	15	£51.06	£76.64
TH12-10	12	10 *	24.45	100	24	15	£52.59	£78.94
TH12-11	12	11 *	26.67	100	24	15	£54.51	£81.75
TH12-12	12	12 *	28.89	100	24	20	£56.12	£84.23
TH12-13	12	13 *	31.12	100	24	20	£57.94	£86.99
TH12-15	12	15 *	35.56	100	24	20	£61.13	£91.70
TH12-20	12	20	44.45	100	24	20	£66.56	£99.89

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Budget Range

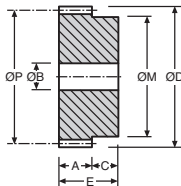
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BUDGET Steel Spur Gears Materials

1, 1.5 MOD

20° P.A. STD : Steel C45/080 M40/En8
Stainless Steel 303S21/304S31 (En58)



BUDGET Spur Gears ESGG

Spur Gears 1 mod - Steel (Chemically Blackened)

PART NUMBER	MOD	Teeth	OP	OD	OM	OB	A	C	E	1+	5+	10+	25+
ESG1-12	1	12	12	14	14	6	10	15	25	£6.39	£6.03	£5.71	£5.43
ESG1-15	1	15	15	17	17	8	10	20	30	£6.61	£6.24	£5.91	£5.61
ESG1-16	1	16	16	18	18	8	10	20	30	£6.95	£6.56	£6.21	£5.90
ESG1-18	1	18	18	20	20	8	10	20	30	£7.10	£6.71	£6.35	£6.02
ESG1-20	1	20	20	22	22	8	10	10	20	£7.32	£6.91	£6.54	£6.21
ESG1-22	1	22	22	24	24	8	10	10	20	£7.45	£7.04	£6.66	£6.32
ESG1-24	1	24	24	26	26	8	10	10	20	£7.83	£7.40	£7.00	£6.65
ESG1-25	1	25	25	27	27	8	10	10	20	£8.06	£7.61	£7.20	£6.84
ESG1-26	1	26	26	28	28	8	10	10	20	£8.38	£7.92	£7.49	£7.11
ESG1-28	1	28	28	30	30	8	10	10	20	£8.73	£8.25	£7.80	£7.41
ESG1-30	1	30	30	32	32	10	10	10	20	£9.08	£8.58	£8.12	£7.71
ESG1-32	1	32	32	34	34	10	10	10	20	£9.65	£9.11	£8.62	£8.18
ESG1-36	1	36	36	38	38	10	10	10	20	£10.94	£10.32	£9.77	£9.29
ESG1-40	1	40	40	42	42	10	10	10	20	£11.84	£11.18	£10.59	£10.05
ESG1-44	1	44	44	46	46	10	10	10	20	£12.69	£11.98	£11.34	£10.77
ESG1-50	1	50	50	52	52	10	10	10	20	£14.47	£13.66	£12.93	£12.27
ESG1-60	1	60	60	62	62	10	10	10	20	£18.12	£17.10	£16.19	£15.37
ESG1-80	1	80	80	82	82	10	10	10	20	£26.97	£25.46	£24.09	£22.87

Spur Gears 1 mod - Stainless (NOT Chemically Blackened)

PART NUMBER	MOD	Teeth	OP	OD	OM	OB	A	C	E	1+	5+	10+	25+
SG1-15	1	15	15	17	17	8	10	20	30	£14.51	£13.70	£12.96	£12.31
SG1-18	1	18	18	20	20	8	10	20	30	£15.47	£14.60	£13.82	£13.12
SG1-22	1	22	22	24	24	8	10	10	20	£15.86	£14.97	£14.17	£13.45
SG1-24	1	24	24	26	26	8	10	10	20	£18.12	£17.10	£16.19	£15.37
SG1-25	1	25	25	27	27	8	10	10	20	£19.13	£18.06	£17.10	£16.23
SG1-30	1	30	30	32	32	8	10	10	20	£19.89	£18.77	£17.77	£16.88

21.2



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Materials **BUDGET** Steel Spur Gears

STD : Steel C45/080 M40/En8

Stainless Steel 303S21/304S31 (En58) 20° P.A.

1.5, 2 MOD

Spur Gears 1 mod cont. - Stainless (NOT Chemically Blackened)

PART NUMBER	MOD	Teeth	ØP	ØD	ØM	ØB	A	C	E	1+	5+	10+	25+
SG1-40	1	40	40	42	35	10	10	10	20	£25.58	£24.15	£22.85	£21.70
SG1-50	1	50	50	52	35	10	10	10	20	£31.05	£29.31	£27.74	£26.34
SG1-56	1	56	56	58	40	10	10	10	20	£40.21	£37.96	£35.92	£34.11
SG1-100	1	100	100	102	60	12	10	10	20	£85.97	£81.16	£76.82	£72.94
SG1-120	1	120	120	122	60	12	10	10	20	£93.28	£88.06	£83.36	£79.14

Spur Gears 1.5 mod - Steel (Chemically Blackened)

PART NUMBER	MOD	Teeth	ØP	ØD	ØM	ØB	A	C	E	1+	5+	10+	25+
ESG1.5-12	1.5	12	18	21	21	8	15	15	30	£7.32	£6.91	£6.54	£6.21
ESG1.5-15	1.5	15	22.5	25.5	18	8	15	10	25	£8.06	£7.61	£7.20	£6.84
ESG1.5-16	1.5	16	24	27	20	8	15	10	25	£8.38	£7.92	£7.49	£7.11
ESG1.5-18	1.5	18	27	30	22	8	15	10	25	£9.47	£8.94	£8.46	£8.03
ESG1.5-20	1.5	20	30	33	24	8	15	10	25	£10.02	£9.46	£8.95	£8.50
ESG1.5-22	1.5	22	33	36	26	8	15	10	25	£11.11	£10.48	£9.92	£9.42
ESG1.5-24	1.5	24	36	39	28	8	15	10	25	£11.65	£11.00	£10.41	£9.88
ESG1.5-30	1.5	30	45	48	38	10	15	10	25	£14.69	£13.88	£13.13	£12.47
ESG1.5-32	1.5	32	48	51	40	10	15	10	25	£15.82	£14.94	£14.13	£13.42
ESG1.5-36	1.5	36	54	57	45	10	15	10	25	£18.12	£17.10	£16.19	£15.37
ESG1.5-40	1.5	40	60	63	45	12	15	10	25	£21.92	£20.69	£19.59	£18.59
ESG1.5-44	1.5	44	66	69	45	12	15	10	25	£24.20	£22.84	£21.62	£20.53
ESG1.5-50	1.5	50	75	78	45	12	15	10	25	£27.30	£25.77	£24.39	£23.16
ESG1.5-60	1.5	60	90	93	50	12	15	10	25	£33.55	£31.67	£29.98	£28.46
ESG1.5-80	1.5	80	120	123	60	12	15	10	25	£48.61	£45.90	£43.44	£41.24

Spur Gears 2 mod - Steel (Chemically Blackened)

PART NUMBER	MOD	Teeth	ØP	ØD	ØM	ØB	A	C	E	1+	5+	10+	25+
ESG2-12	2	12	24	28	18	10	20	10	30	£9.47	£8.94	£8.46	£8.03
ESG2-15	2	15	30	34	24	12	20	10	30	£11.11	£10.48	£9.92	£9.42
ESG2-16	2	16	32	36	26	12	20	10	30	£11.84	£11.18	£10.58	£10.05
ESG2-18	2	18	36	40	30	12	20	10	30	£13.40	£12.65	£11.98	£11.36
ESG2-20	2	20	40	44	32	12	20	10	30	£14.35	£13.55	£12.83	£12.18
ESG2-22	2	22	44	48	36	12	20	10	30	£16.17	£15.26	£14.45	£13.72
ESG2-24	2	24	48	52	38	12	20	10	30	£17.78	£16.78	£15.89	£15.08
ESG2-30	2	30	60	64	50	12	20	10	30	£23.22	£21.93	£20.75	£19.71
ESG2-32	2	32	64	68	50	12	20	10	30	£23.89	£22.56	£21.35	£20.27
ESG2-36	2	36	72	76	55	12	20	10	30	£27.89	£26.33	£24.92	£23.66
ESG2-40	2	40	80	84	55	15	20	10	30	£34.98	£33.03	£31.26	£29.68
ESG2-44	2	44	88	92	55	15	20	10	30	£37.52	£35.43	£33.53	£31.83
ESG2-50	2	50	100	104	55	15	20	10	30	£45.92	£43.35	£41.03	£38.96
ESG2-60	2	60	120	124	60	15	20	10	30	£65.84	£62.16	£58.83	£55.85
ESG2-80	2	80	160	164	60	15	20	10	30	£94.88	£89.58	£84.79	£80.50

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21.3

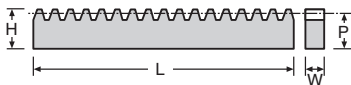
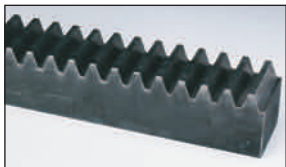
BUDGET Spur Gears ESGG



BUDGET Steel Spur Racks Materials

1, 1.5, 2 MOD 20° P.A.

STD : Steel C45/080 M40/En8



Chemically Blackened
Other sizes available

BUDGET Spur Racks ER



Spur Racks 1, 1.5 & 2 mod

PART NUMBER	MOD	Teeth	L	W	H	P	1+	5+	10+	25+
ER1-500	1	159	500	10	12	11	£35.97	£34.58	£32.69	£30.99
ER1-1000	1	318	1000	10	12	11	£54.00	£51.92	£49.08	£46.53
ER1-1500	1	477	1500	10	12	11	£72.05	£69.27	£65.49	£62.09
ER1-2000	1	636	2000	10	12	11	£90.09	£86.62	£81.89	£77.63
ER1.5-500	1.5	106	500	15	20	18.5	£51.79	£49.80	£47.07	£44.64
ER1.5-1000	1.5	212	1000	15	20	18.5	£77.74	£74.75	£70.66	£66.99
ER1.5-1500	1.5	318	1500	15	20	18.5	£103.68	£99.68	£94.23	£89.35
ER1.5-2000	1.5	424	2000	15	20	18.5	£129.64	£124.65	£117.83	£111.72
ER2-500	2	79	500	20	25	23	£56.59	£54.41	£51.44	£48.77
ER2-1000	2	158	1000	20	25	23	£99.03	£95.21	£90.00	£85.34
ER2-1500	2	237	1500	20	25	23	£132.08	£126.99	£120.05	£113.82
ER2-2000	2	316	2000	20	25	23	£165.11	£158.75	£150.06	£142.28

21.4



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Materials **BUDGET Worms & Wheels**

STD : Phosphor Bronze PB2
and Steel 080 M40 (En8)

20° P.A.

1 MOD, 3.142mm Pitch



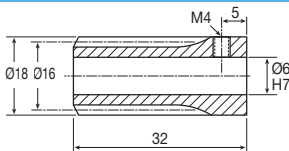
**LEAD
ANGLE
RIGHT
HAND
STANDARD**



BUDGET Worms & Wheels EW EM

Note: When ordering the wormwheel, the number of starts on the mating worm must be specified.

Worm STEEL 080 M40 (En8)

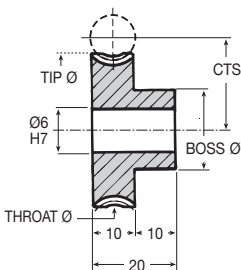


UNHARDENED

PART NUMBER	No. of Starts	Lead Angle	PRICE EACH			
			1+	5+	10+	25+
EW1-1	1	3°35'	£9.99	£9.58	£9.38	£8.99
EW1-2	2	7°11'	£10.19	£9.78	£9.57	£9.17

Used to produce high reduction ratios in low loading applications. The worm is manufactured from BS 80 M40 (En8) Steel and the Wormwheels from PB2 (Phosphor Bronze). The worm comes complete with grub screw fixing.

Wheel PHOSPHOR BRONZE - PB2



UNHARDENED

PART NUMBER	Teeth	Ratio Reduction	PCD mm	CTS mm	Throat Ø mm
EM1-20/2	20	1/10	20	18	22
EM1-30/1	30	1/30	30	23	32
EM1-30/2	30	1/15	30	23	32
EM1-40/1	40	1/40	40	28	42
EM1-50/1	50	1/50	50	33	52

PART NUMBER	Tip Ø mm	Boss Ø mm	PRICE EACH			
			1-4	5-9	10-24	25+
EM1-20/1	23	16	£12.48	£11.85	£11.61	£11.23
EM1-20/2	23	16	£12.48	£11.85	£11.61	£11.23
EM1-30/1	33	20	£18.66	£17.72	£17.35	£16.79
EM1-30/2	33	20	£18.66	£17.72	£17.35	£16.79
EM1-40/1	43	26	£26.32	£25.01	£24.48	£23.69
EM1-50/1	53	30	£33.85	£32.15	£31.47	£30.46



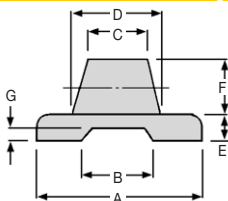
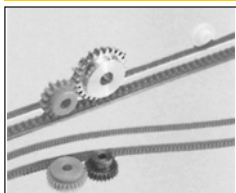
Moulded Flexible Racks

Materials

0.8-2.0 MOD

20° P.A.

STD : Duracon
overall length: 2000mm



Moulded Duracon racking can be used with various spur gears. The racking can be mounted directly onto the application surface by using an aluminium fixing rail which the racking slides into. Available in 2 metre lengths and can be easily cut to the application requirements. The aluminium fixing rail is sold in 1 metre lengths and a **FIXING KIT** containing retaining clips and screws is also available as listed below.

DISCOUNTS

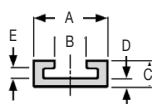
1 - 4	List Price
5 - 9	- 5%
10 - 19	- 10%

PART NUMBER	MOD	A	B	C	D	E	F	G	Allowable Force For Bending (Kg)	(N)	PRICE EACH
DR0.8-2000	0.8	8	3.7	3	3.8	1.5	1.80	0.7	11.40	111.8	£51.79
DR1-2000	1.0	10	4.9	4	5.0	2	2.25	0.9	16.41	160.9	£70.23
DR1.5-2000	1.5	12	8.0	5	6.5	2.3	3.38	1.0	16.46	161.4	£85.58
DR2-2000	2.0	15	10.1	6	8.0	2.5	4.50	1.1	27.01	264.9	£97.41

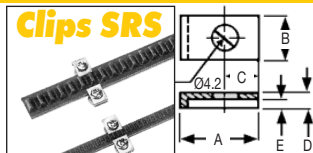
Rack Fixings

Materials

STD : Aluminium A6063S



Clips SRS



PART NUMBER	Dimensions for Screw Fixings					To Suit Rack	PRICE PER PACK OF 10
	A	B	C	D	E		
SRS1	10.2	8	4.5	2.7	1.2	DR0.8 and DR1.0	£17.36
SRS2	11.4	8	5.6	3.9	1.4	DR1.5 and DR2.0	£17.36

Various aluminium fixings specifically for the Moulded Flexible Racks as described above.

PART NUMBER	Dimensions for Rail Fixings					PRICE EACH
	A	B	C	D	E	
ARL-0.8	10.3	4.4	4.7	2.0	1.7	£17.09
ARL-1.0	12.3	5.6	5.2	2.0	2.2	£19.29
ARL-1.5	14.3	7.2	5.5	2.0	2.5	£22.98
ARL-2.0	17.3	8.8	6.2	2.5	2.7	£29.01

22.0



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Racks

Pages 22.2 - 22.11

TECHNICAL

Page 22.2



For non-standard Racks send a drawing or sample for a free, no-obligation quote.

Rack Information

Approximate Metric Module Tooth Sizes

Commercial Racks : Max. Pitch Error 0.1mm/300mm



0.25 MOD
Similar to 96DP



0.3 MOD
Similar to 80DP



0.35 MOD
Similar to 72DP



0.4 MOD
Similar to 64DP



0.5 MOD
Similar to 48DP



0.6 MOD
Similar to 40DP



0.8 MOD
Similar to 32DP



1 MOD
Similar to 24DP



1.25 MOD
Similar to 20DP



1.5 MOD
Similar to 16DP



2 MOD
Similar to 12DP



2.5 MOD
Similar to 10DP

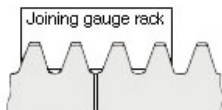


3 MOD
Similar to 8DP



4 MOD
Similar to 6DP

Racks can be supplied end-buttet, to any length and with a joining gauge.



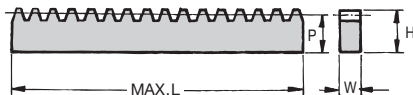
Materials

STD : Steel C45
(En8)

Spur Racks

CR

20° P.A.



Allowable Load on Rack Teeth with Pinion 30 Teeth 10 RPM 12 hour day

CR32	34 KG	CR0.8	34 KG
CR24	56 KG	CR1.0	56 KG
CR20	65 KG	CR1.25	65 KG
CR16	113 KG	CR1.5	111 KG
CR12	158 KG	CR1.75	127 KG
CR10	226 KG	CR2.0	136 KG
CR8	353 KG	CR2.5	226 KG
CR6	544 KG	CR3.0	326 KG
CRR4	1240 KG	CR4.0	500 KG
		CR5.0	877 KG
		CCR6.0	1180 KG
		CCR8.0	1475 KG

For Torque Check, refer to
relevant pinions to be used

Available Lengths

1828 mm	(Price x 3.34)
1500 mm	(Price x 2.78)
1200 mm	(Price x 2.22)
1000 mm	(Price x 2.06)
900 mm	(Price x 1.67)
600 mm	(Price x 1.11)
400 mm	(List Price)
300 mm	(Price x 0.86)

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	PITCH	P (mm)	W (mm)	H (mm)	L (max) (mm)	PRICE EACH 1-5 PER 400 mm
CR32	32 DP	8.73	9.52	9.52	1828	£36.45
CR24	24 DP	11.64	12.70	12.70	1828	£37.68
CR20	20 DP	11.43	12.70	12.70	1828	£40.56
CR16	16 DP	17.46	19.05	19.05	1828	£43.52
CR12	12 DP	16.93	19.05	19.05	1828	£45.80
CR10	10 DP	22.86	25.40	25.40	1828	£56.12
CR8	8 DP	28.58	31.75	31.75	1828	£69.15
CR6	6 DP	33.87	38.10	38.10	1828	£81.32
CRR4	4 DP	31.75	50.80	38.10	1828	£78.92
CR0.8	0.8 MOD	8.72	9.52	9.52	1828	£36.45
CR1	1.0 MOD	11.70	12.70	12.70	1828	£37.68
CR1.25	1.25 MOD	11.45	12.70	12.70	1828	£40.56
CR1.5	1.5 MOD	17.55	19.05	19.05	1828	£43.52
CR1.75	1.75 MOD	17.30	19.05	19.05	1828	£44.38
CR2	2.0 MOD	17.05	19.05	19.05	1828	£45.80
CR2.5	2.5 MOD	22.90	25.40	25.40	1828	£56.12
CR3	3.0 MOD	28.75	31.75	31.75	1828	£58.22
CR4	4.0 MOD	34.10	38.10	38.10	1828	£81.32
CR5	5.0 MOD	45.80	50.80	50.80	1828	£104.57
CCR6	6.0 MOD	34.00	60.00	40.00	1828	£109.18
CCR8	8.0 MOD	52.00	60.00	60.00	1828	£120.73



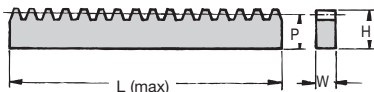
R SR

Spur Racks

Materials

20° P.A.

STD : Steel (En8)
or Stainless Steel 303S21 (En58)



Available Lengths

Lengths for Steel	Lengths for Stainless Steel
1828 mm (Price x 3.34)	
1500 mm (Price x 2.78)	
1200 mm (Price x 2.22)	
1000 mm (Price x 2.06)	
900 mm (Price x 1.67)	
600 mm (Price x 1.11)	
400 mm (List Price)	
300 mm (Price x 0.86)	
190 mm (Price x 0.66)	

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER		PITCH	P (mm)	W (mm)	H (mm)	L Max. (mm)	PRICE EACH 1-5		
R	SR						R per 400mm SR	STD	STAINLESS
STD STEEL	STAINLESS					STD	STAINLESS		
R96	SR96	96 DP	8.71	4.70	9	400	400	£32.03	£83.49
R80	SR80	80 DP	8.66	4.70	9	400	400	£32.85	£85.62
R72	SR72	72 DP	8.64	4.70	9	400	400	£33.64	£87.74
R64	SR64	64 DP	11.58	6.00	12	1828	400	£34.51	£89.87
R48	SR48	48 DP	11.47	6.00	12	1828	400	£35.30	£92.00
R40	SR40	40 DP	11.37	6.00	12	400	400	£36.11	£94.14
R32	SR32	32 DP	11.20	6.00	12	1828	400	£36.97	£96.28
R24	SR24	24 DP	13.94	7.95	15	1828	400	£37.68	£98.11
R20	SR20	20 DP	13.72	7.95	15	1828	400	£40.56	£105.66
RR16	SR16	16 DP	16.41	18.00	18	1828	400	£43.52	£126.80
R12	SR12	12 DP	15.88	18.00	18	1828	400	£44.38	£129.33
RC20	SRC20	1/20" CP	11.58	6.00	12	400	400	£32.03	£83.49
RC10	SRC10	1/10" CP	11.20	6.00	12	400	400	£33.86	£88.16
R0.25	SR0.25	0.25 MOD	8.75	4.00	9	400	400	£32.03	£83.49
R0.4	SR0.4	0.4 MOD	11.60	6.00	12	400	400	£33.11	£86.36
R0.5	SR0.5	0.5 MOD	11.50	6.00	12	1828	400	£34.27	£89.31
R0.7	SR0.7	0.7 MOD	11.30	6.00	12	400	400	£35.33	£92.18
R0.75	SR0.75	0.75 MOD	11.25	6.00	12	400	400	£36.43	£93.09
R0.8	SR0.8	0.8 MOD	11.20	6.00	12	1828	400	£36.45	£95.00
R1	SR1	1 MOD	14.00	8.00	15	1828	400	£37.68	£98.11
R1.25	SR1.25	1.25 MOD	13.75	8.00	15	1828	400	£40.56	£105.66
RR1.5	SR1.5	1.5 MOD	16.50	18.00	18	1828	400	£43.52	£113.34
RR1.75	SR1.75	1.75 MOD	16.25	18.00	18	1828	400	£44.38	£129.33
RR2	SR2	2 MOD	16.00	18.00	18	1828	400	£45.80	£133.44
RC1	SRC1	1mm CP	11.67	6.00	12	1828	400	£32.03	£83.49
RC2	SRC2	2mm CP	11.36	6.00	12	1828	400	£33.86	£88.16

Racks R SR

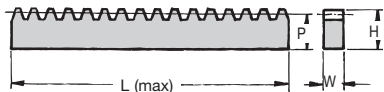
22.4



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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

STD : White Delrin

20° P.A.

**Available Lengths**

400 mm	(List Price)
300 mm	(Price x 0.86)
190 mm	(Price x 0.66)
100 mm	(Price x 0.46)

For Torque Check, refer to relevant pinions to be used

DISCOUNTS

1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	PITCH	P (mm)	W (mm)	H (mm)	L Max. (mm)	PRICE EACH 1-5 per 400mm
ZR64	64 DP	11.58	6	12	400	£27.24
ZR48	48 DP	11.47	6	12	400	£27.75
ZR40	40 DP	11.37	6	12	400	£29.27
ZR32	32 DP	11.20	6	12	400	£29.61
ZR24	24 DP	13.94	8	15	400	£30.58
ZR20	20 DP	13.72	10	15	400	£32.88
ZRR16	16 DP	16.41	12	18	400	£34.53
ZR12	12 DP	17.88	15	20	400	£38.52
ZRC20	1/20" CP	11.58	6	12	400	£23.87
ZRC10	1/10" CP	11.20	6	12	400	£27.75
ZR0.4	0.4 MOD	11.60	6	12	400	£27.24
ZR0.5	0.5 MOD	11.50	6	12	400	£27.75
ZR0.7	0.7 MOD	11.30	6	12	400	£29.27
ZR0.75	0.75 MOD	11.25	6	12	400	£29.31
ZR0.8	0.8 MOD	11.20	6	12	400	£29.61
ZR1	1 MOD	14.00	8	15	400	£30.58
ZR1.25	1.25 MOD	13.75	10	15	400	£32.88
ZRR1.5	1.5 MOD	16.50	12	18	400	£34.53
ZRR2	2 MOD	18.00	15	20	400	£38.52
ZRC1	1mm CP	11.67	6	12	400	£23.87
ZRC2	2mm CP	11.36	6	12	400	£27.75



TR

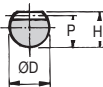
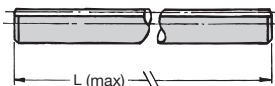
Spur Round Racks

Materials

20° P.A.

STD : Stainless Steel (En58)

Ground Bar

**Available Lengths**

400 mm	(List Price)
300 mm	(Price x 0.86)
190 mm	(Price x 0.66)
100 mm	(Price x 0.46)

For Torque Check, refer to
relevant pinions to be used

Imperial Ø tolerance ± 0.03 mm

Metric Ø tolerance all h8

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Racks TR

PART NUMBER	PITCH	P (mm)	ØD (mm)	H (mm)	L Max. (mm)	PRICE EACH 1-5 per 400mm
TR96	96 DP	5.56	6.35	5.84	400	£43.69
TR80	80 DP	5.52	6.35	5.84	400	£44.65
TR72	72 DP	5.49	6.35	5.84	400	£45.64
TR64	64 DP	8.24	9.53	8.64	400	£46.60
TR48	48 DP	8.10	9.53	8.64	400	£47.66
TR40	40 DP	10.54	12.70	11.18	400	£48.63
TR32	32 DP	10.38	12.70	11.18	400	£49.71
TR24	24 DP	10.11	12.70	11.18	400	£54.58
TR20	20 DP	13.00	15.88	14.27	400	£59.48
TR16	16 DP	15.88	19.05	17.47	400	£135.37
TRC20	1/20° CP	8.23	9.53	8.64	400	£43.69
TRC10	1/10° CP	7.82	9.53	8.64	400	£44.65
TR0.25	0.25 MOD	5.30	6.00	5.55	400	£43.69
TR0.4	0.4 MOD	8.80	10.00	9.20	400	£38.86
TR0.5	0.5 MOD	8.70	10.00	9.20	400	£46.89
TR0.7	0.7 MOD	9.80	12.00	10.50	400	£48.21
TR0.8	0.8 MOD	9.70	12.00	10.50	400	£49.71
TR1	1 MOD	9.50	12.00	10.50	400	£54.58
TR1.25	1.25 MOD	11.75	15.00	13.00	400	£59.48
TR1.5	1.5 MOD	16.00	20.00	17.50	400	£135.37
TRC1	1mm CP	8.88	10.00	9.20	400	£43.69
TRC2	2mm CP	8.56	10.00	9.20	400	£44.65

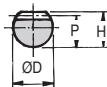
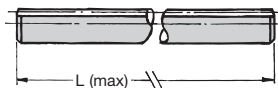
22.6
 Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
 Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials Plastic Spur Round Racks ZTR

STD : White Delrin

Special Ground Diameter

20° P.A.



Available Lengths

400 mm	(List Price)
300 mm	(Price x 0.86)
190 mm	(Price x 0.66)
100 mm	(Price x 0.46)

For Torque Check, refer to relevant pinions to be used

DISCOUNTS

1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	PITCH	P (mm)	ØD (mm)	H (mm)	L Max. (mm)	PRICE EACH 1-5 per 400mm
ZTR64	64 DP	8.80	10	9.20	400	£32.98
ZTR48	48 DP	8.67	10	9.20	400	£33.24
ZTR40	40 DP	10.01	12	10.65	400	£34.53
ZTR32	32 DP	9.70	12	10.50	400	£37.05
ZTR24	24 DP	11.94	15	13.00	400	£39.85
ZTR20	20 DP	14.75	18	16.00	400	£45.71
ZTR16	16 DP	15.90	20	17.50	400	£50.33
ZTR12	12 DP	19.88	25	22.00	400	£56.66
ZTR0.4	0.4 MOD	8.80	10	9.20	400	£32.98
ZTR0.5	0.5 MOD	8.70	10	9.20	400	£33.24
ZTR0.7	0.7 MOD	9.80	12	10.50	400	£34.53
ZTR0.8	0.8 MOD	9.70	12	10.50	400	£37.05
ZTR1	1 MOD	12.00	15	13.00	400	£39.85
ZTR1.25	1.25 MOD	14.75	18	16.00	400	£45.71
ZTR1.5	1.5 MOD	16.00	20	17.50	400	£50.33
ZTR2	2 MOD	20.00	25	22.00	400	£56.66

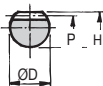
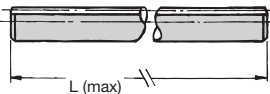
Racks ZTR



HTR Helical Round Racks Materials

17° - 45' H.A.
20° P.A.

STD : Stainless Steel 303S21
(En58) Ground Bar



Left Hand

Available Lengths	
400 mm	(List Price)
300 mm	(Price x 0.86)
190 mm	(Price x 0.66)
100 mm	(Price x 0.46)

For Torque Check, refer to
relevant pinions to be used

Imperial Ø tolerance $\pm 0.03\text{mm}$
Metric Ø tolerance all h8
Mates with parallel axis gear RH

DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Racks HTR

PART NUMBER	PITCH	P (mm)	ØD (mm)	H (mm)	L Max. (mm)	PRICE EACH 1-5 per 400mm
HTR64	64 DP	8.24	9.53	8.64	400	£51.94
HTR48	48 DP	8.10	9.53	8.64	400	£52.96
HTR40	40 DP	10.55	12.70	11.18	400	£54.00
HTR32	32 DP	10.38	12.70	11.18	400	£55.15
HTR24	24 DP	10.11	12.70	11.18	400	£60.36
HTR20	20 DP	13.00	15.88	14.27	400	£65.49
HTR16	16 DP	15.88	19.05	17.47	400	£182.97
HTRC20	1/20" CP	8.23	9.53	8.64	400	£48.79
HTRC10	1/10" CP	7.82	9.53	8.64	400	£49.80
HTR0.4	0.4 MOD	8.80	10.00	9.20	400	£50.34
HTR0.5	0.5 MOD	8.70	10.00	9.20	400	£51.97
HTR0.7	0.7 MOD	8.80	12.00	9.50	400	£53.61
HTR0.8	0.8 MOD	9.70	12.00	10.50	400	£55.15
HTR1	1 MOD	9.50	12.00	10.50	400	£60.36
HTR1.25	1.25 MOD	11.75	15.00	13.00	400	£65.49
HTR1.5	1.5 MOD	16.00	20.00	17.50	400	£182.97
HTRC1	1mm CP	8.88	10.00	9.20	400	£48.79
HTRC2	2mm CP	8.56	10.00	9.20	400	£49.80



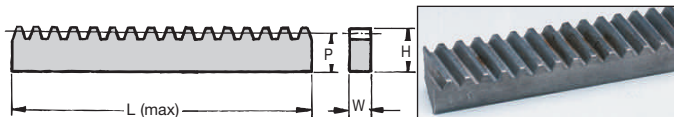
Materials

STD : Steel or Stainless Steel
303S21 (En58)

Helical Racks

17° - 45° H.A.
20° P.A.

HR SHR



Left Hand

Available Lengths

400 mm	(List Price)
300 mm	(Price x 0.86)
190 mm	(Price x 0.66)
100 mm	(Price x 0.46)

DISCOUNTS

1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Mates with parallel axis gear RH

PART NUMBER		PITCH	P (mm)	W (mm)	H (mm)	L Max. (mm)	PRICE EACH 1-5	
HR	SHR						HR per 400mm	SHR
STD STEEL	STAINLESS						STD	STAINLESS
HR64	SHR64	64 DP	11.58	6	12	400	£68.94	£148.47
HR48	SHR48	48 DP	11.46	6	12	400	£69.88	£150.48
HR40	SHR40	40 DP	11.37	12	12	400	£70.80	£152.49
HR32	SHR32	32 DP	11.20	12	12	400	£71.69	£154.47
HR24	SHR24	24 DP	13.94	15	15	400	£72.56	£156.28
HR20	SHR20	20 DP	13.72	15	15	400	£75.86	£163.40
HR16	SHR16	16 DP	16.41	18	18	400	£79.24	£228.05
HR12	SHR12	12 DP	15.88	18	18	400	£80.31	£231.03
HRC20	SHRC20	1/20" CP	11.58	6	12	400	£66.09	£142.36
HRC10	SHRC10	1/10" CP	11.20	12	12	400	£68.15	£146.84
HR0.4	SHR0.4	0.4 MOD	11.60	6	12	400	£67.33	£145.08
HR0.5	SHR0.5	0.5 MOD	11.50	6	12	400	£68.67	£147.90
HR0.7	SHR0.7	0.7 MOD	11.30	12	12	400	£69.93	£150.63
HR0.8	SHR0.8	0.8 MOD	11.20	12	12	400	£71.20	£153.45
HR1	SHR1	1 MOD	14.00	15	15	400	£72.56	£156.28
HR1.25	SHR1.25	1.25 MOD	13.75	15	15	400	£75.86	£163.40
HR1.50	SHR1.5	1.5 MOD	16.50	18	18	400	£79.24	£228.05
HR2	SHR2	2 MOD	16.00	18	18	400	£82.00	£235.88
HRC1	SHRC1	1mm CP	11.67	6	12	400	£66.09	£142.36
HRC2	SHRC2	2mm CP	11.36	12	12	400	£68.15	£146.84

Racks
HR SHR

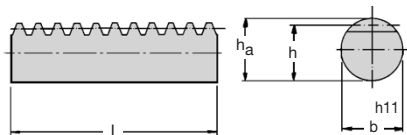


Round Racks

Materials

1 - 5 MOD 20° P.A.

STD : Steel 1.0503 (C45)



Straight Teeth

Recommended Bore G7 Oilite® Bronze with MOS2 for guide.

Round Racks MOD 1-5

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 20%
60 - 100	- 25%

PART NUMBER	MOD	h_a	h	b	l	Weight (kg)	PRICE EACH 1 - 5
141-010-025	1.0	9.80-0.10	8.80-0.10	10	250	0.14	£61.16
141-010-050	1.0	9.80-0.10	8.80-0.10	10	500	0.27	£121.76
141-015-025	1.5	14.80-0.10	13.30-0.10	15	250	0.31	£78.40
141-015-050	1.5	14.80-0.10	13.30-0.10	15	500	0.61	£153.41
141-015-100	1.5	14.80-0.15	13.30-0.15	15	1000	1.22	£293.27
141-020-025	2.0	19.75-0.10	17.75-0.10	20	250	0.55	£79.80
141-020-050	2.0	19.75-0.10	17.75-0.10	20	500	1.10	£155.60
141-020-100	2.0	19.75-0.15	17.75-0.15	20	1000	2.20	£296.16
141-025-025	2.5	24.75-0.10	22.25-0.10	25	250	0.83	£81.44
141-025-050	2.5	24.75-0.10	22.25-0.10	25	500	1.65	£159.30
141-025-100	2.5	24.75-0.15	22.25-0.15	25	1000	3.30	£304.61
141-030-025	3.0	29.75-0.10	26.75-0.10	30	250	1.22	£91.63
141-030-050	3.0	29.75-0.10	26.75-0.10	30	500	2.44	£183.26
141-030-100	3.0	29.75-0.20	26.75-0.20	30	1000	4.80	£300.85
141-040-025	4.0	39.70-0.10	35.70-0.10	40	250	2.16	£107.97
141-040-050	4.0	39.70-0.10	35.70-0.10	40	500	4.32	£205.84
141-040-100	4.0	39.70-0.20	35.70-0.20	40	1000	8.64	£409.00
141-050-025	5.0	49.70-0.10	44.70-0.10	50	250	3.38	£153.90
141-050-050	5.0	49.70-0.10	44.70-0.10	50	500	6.75	£298.97
141-050-100	5.0	49.70-0.20	44.70-0.20	50	1000	13.50	£583.91

22.10



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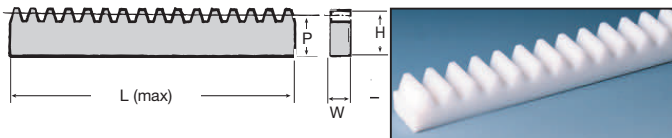
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

Moulded Racks ZRM

STD : Hostaform

20° P.A.



Straight Teeth

SPECIFICATIONS

Max. tensile strength	at 20°C 62 N/mm ²
	at 70°C 35 N/mm ²
Tensile elongation at breach	at 20°C 30%
	at 70°C 110%
Melting point	190°
Vicat softening temp	151°
Co-efficient of linear expansion between 20°C and 100°C	1.1 x 10 ⁻⁴
Auto ignition temp	427°C

DISCOUNTS

1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	MOD	P (mm)	W (mm)	H (mm)	L Max. (mm)	PRICE EACH 1 - 9
ZRM0.5-A250	0.50	4.00	4.00	4.50	250	£2.90
ZRM0.5-B250	0.50	5.50	4.00	6.00	250	£3.33
ZRM0.7-250	0.70	6.00	6.00	6.70	250	£5.87
ZRM1-250	1.00	8.00	9.00	9.00	250	£8.51
ZRM1.5-250	1.50	10.50	12.00	12.00	250	£13.31
ZRM2-250	2.00	9.00	15.40	11.00	250	£17.36
ZRM3-250	3.00	12.00	19.40	15.00	250	£26.47

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22.11

TECHNICAL REQUEST

Non-Standard Spur Gears

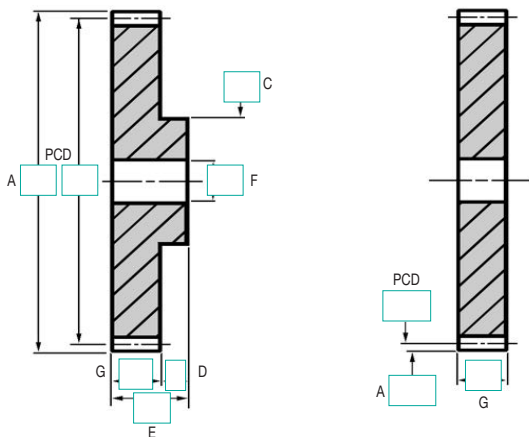
photocopy double

size and fax on

+44 (0)1246 260003

QUANTITY	_____	OVERALL WIDTH (E)	_____
MATERIAL	_____	BORE DIAMETER (F)	_____
NUMBER OF TEETH	_____	FACE WIDTH (G)	_____
PITCH CIRCLE DIAMETER (PCD)	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	FIXING SCREW LOCATION	_____
PITCH (B)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS DIAMETER (C)	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS WIDTH (D)	_____		

SPECIAL FEATURES



Spur Gears

Pages 23.2 - 23.162

When running small number of teeth gears with a corrected PCD, you may encounter a large amount of backlash. To rectify this the centre distance may be moved closer together.

TECHNICAL

Pages 27.48 – 27.53



For non-standard Spur Gears use form on opposite page or send a drawing or sample for a free, no-obligation quote.

Spur Gears

Materials

Standard duty

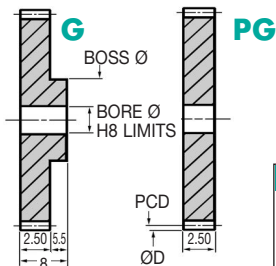
STD : *Stainless Steel 303S21 (En58)*

ALTERNATIVE : *Brass, Tufnol or Delrin*

0.25 MOD 20° P.A.

SPECIAL TEETH : *between 20 - 400*

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	0.050	0.230	0.024	0.019
K.W.	0.005	0.024	0.002	0.002



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.25-20	20	5.00	5.50	5.50	2	0.0004	0.0003	£12.22	£8.60
G0.25-21	21	5.25	5.75	5.75	2	0.0004	0.0004	£12.33	£8.73
G0.25-22	22	5.50	6.00	6.00	2	0.0005	0.0004	£12.40	£8.83
G0.25-23	23	5.75	6.25	6.25	2	0.0005	0.0004	£12.51	£8.87
G0.25-24	24	6.00	6.50	6.50	2	0.0005	0.0005	£12.66	£8.96
G0.25-25	25	6.25	6.75	6.75	2	0.0006	0.0005	£12.75	£9.04
G0.25-26	26	6.50	7.00	7.00	2	0.0006	0.0006	£12.83	£9.22
G0.25-27	27	6.75	7.25	7.25	2	0.0007	0.0006	£12.95	£9.28
G0.25-28	28	7.00	7.50	7.50	2	0.0007	0.0007	£13.03	£9.37
G0.25-29	29	7.25	7.75	7.75	2	0.0008	0.0007	£13.14	£9.47
G0.25-30	30	7.50	8.00	8.00	3	0.0008	0.0007	£13.27	£9.55
G0.25-31	31	7.75	8.25	8.00	3	0.0009	0.0008	£13.37	£9.67
G0.25-32	32	8.00	8.50	8.00	3	0.0010	0.0008	£13.46	£9.76
G0.25-33	33	8.25	8.75	8.00	3	0.0010	0.0009	£13.59	£9.84
G0.25-34	34	8.50	9.00	8.00	3	0.0011	0.0010	£13.68	£9.96
G0.25-35	35	8.75	9.25	8.00	3	0.0012	0.0010	£13.82	£10.01
G0.25-36	36	9.00	9.50	8.00	3	0.0012	0.0011	£13.96	£10.19
G0.25-37	37	9.25	9.75	8.00	3	0.0013	0.0012	£14.05	£10.24
G0.25-38	38	9.50	10.00	8.00	3	0.0014	0.0012	£14.15	£10.35
G0.25-39	39	9.75	10.25	8.00	3	0.0014	0.0013	£14.27	£10.46
G0.25-40	40	10.00	10.50	8.00	3	0.0015	0.0014	£14.36	£10.57
G0.25-41	41	10.25	10.75	8.00	3	0.0016	0.0014	£14.46	£10.72
G0.25-42	42	10.50	11.00	8.00	3	0.0017	0.0015	£14.64	£10.80

Spur Gears Stainless Steel - Standard MOD 0.25



PART NUMBER	TEETH	PCD (mm)	OD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.25-43	43	10.75	11.25	8	3	0.0017	0.0016	£14.68	£10.94
G0.25-44	44	11.00	11.50	8	3	0.0018	0.0017	£14.77	£10.99
G0.25-45	45	11.25	11.75	8	3	0.0019	0.0018	£14.90	£11.20
G0.25-46	46	11.50	12.00	8	3	0.0020	0.0019	£15.00	£11.28
G0.25-47	47	11.75	12.25	8	3	0.0021	0.0019	£15.12	£11.35
G0.25-48	48	12.00	12.50	10	3	0.0022	0.0020	£15.19	£11.49
G0.25-49	49	12.25	12.75	10	3	0.0023	0.0021	£15.36	£11.65
G0.25-50	50	12.50	13.00	10	3	0.0023	0.0022	£15.41	£11.73
G0.25-52	52	13.00	13.50	10	3	0.0025	0.0024	£15.49	£11.84
G0.25-54	54	13.50	14.00	10	3	0.0027	0.0026	£15.65	£11.93
G0.25-55	55	13.75	14.25	10	3	0.0028	0.0027	£15.83	£12.09
G0.25-58	58	14.50	15.00	10	3	0.0032	0.0030	£16.05	£12.15
G0.25-60	60	15.00	15.50	12	4	0.0034	0.0031	£16.13	£12.16
G0.25-62	62	15.50	16.00	12	4	0.0036	0.0034	£16.24	£12.29
G0.25-63	63	15.75	16.25	12	4	0.0037	0.0035	£16.38	£12.34
G0.25-64	64	16.00	16.50	12	4	0.0038	0.0036	£16.49	£12.39
G0.25-65	65	16.25	16.75	12	4	0.0040	0.0037	£16.68	£12.44
G0.25-68	68	17.00	17.50	12	4	0.0043	0.0041	£16.81	£12.50
G0.25-70	70	17.50	18.00	12	4	0.0046	0.0044	£16.94	£12.56
G0.25-72	72	18.00	18.50	12	4	0.0049	0.0046	£17.13	£12.65
G0.25-75	75	18.75	19.25	12	4	0.0053	0.0050	£17.26	£12.66
G0.25-76	76	19.00	19.50	12	4	0.0054	0.0052	£17.37	£12.68
G0.25-80	80	20.00	20.50	12	4	0.0060	0.0058	£17.59	£12.69
G0.25-84	84	21.00	21.50	12	4	0.0066	0.0064	£17.65	£12.84
G0.25-86	86	21.50	22.00	12	4	0.0069	0.0067	£17.76	£13.03
G0.25-88	88	22.00	22.50	12	4	0.0073	0.0070	£17.81	£13.26
G0.25-90	90	22.50	23.00	12	4	0.0076	0.0074	£17.87	£13.40
G0.25-93	93	23.25	23.75	12	4	0.0081	0.0079	£17.98	£13.59
G0.25-95	95	23.75	24.25	12	4	0.0085	0.0082	£18.12	£13.77
G0.25-96	96	24.00	24.50	12	4	0.0087	0.0084	£18.18	£13.96
G0.25-97	97	24.25	24.75	12	4	0.0088	0.0086	£18.29	£14.13
G0.25-99	99	24.75	25.25	12	4	0.0092	0.0090	£18.37	£14.32
G0.25-100	100	25.00	25.50	12	4	0.0094	0.0092	£18.45	£14.46
G0.25-108	108	27.00	27.50	12	4	0.0110	0.0107	£18.61	£14.67
G0.25-110	110	27.50	28.00	12	4	0.0114	0.0111	£18.69	£14.83
G0.25-115	115	28.75	29.25	12	4	0.0124	0.0122	£18.88	£15.12
G0.25-120	120	30.00	30.50	12	4	0.0135	0.0133	£19.21	£15.36
G0.25-124	124	31.00	31.50	12	4	0.0144	0.0142	£19.46	£15.49
G0.25-127	127	31.75	32.25	12	4	0.0151	0.0149	£19.72	£15.76
G0.25-130	130	32.50	33.00	12	4	0.0159	0.0156	£20.08	£15.95
G0.25-132	132	33.00	33.50	12	4	0.0164	0.0161	£20.42	£16.19
G0.25-136	136	34.00	34.50	12	4	0.0174	0.0171	£21.33	£16.92
G0.25-140	140	35.00	35.50	12	4	0.0184	0.0182	£22.21	£17.62
G0.25-148	148	37.00	37.50	12	4	0.0206	0.0203	£23.71	£19.00
G0.25-150	150	37.50	38.00	12	4	0.0211	0.0209	£25.68	£20.84
G0.25-156	156	39.00	39.50	12	4	0.0229	0.0226	£27.68	£22.71
G0.25-180	180	45.00	45.50	12	4	0.0304	0.0302	£29.62	£27.68
G0.25-200	200	50.00	50.50	12	4	0.0376	0.0373	£34.75	£29.01
G0.25-250	250	62.50	63.00	20	6	0.0587	0.0585	£37.47	£31.21

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : *Stainless Steel 303S21 (En58)*

ALTERNATIVE : *Brass, Tufnol or Delrin*

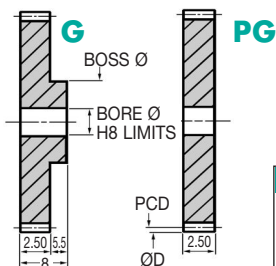
0.3 MOD

20° P.A.

SPECIAL TEETH : *between 20 - 300*

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	0.070	0.320	0.034	0.027
K.W.	0.008	0.031	0.003	0.003

Spur Gears Stainless Steel - Standard MOD 0.3



Popular sizes in stock.

Any two part numbers of this pitch will run together.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.3-20	20	6.00	6.60	6.60	2	0.0018	0.0005	£9.51	£8.60
G0.3-21	21	6.30	6.90	6.90	2	0.0020	0.0005	£9.70	£8.66
G0.3-22	22	6.60	7.20	7.20	2	0.0022	0.0006	£9.83	£8.77
G0.3-23	23	6.90	7.50	7.50	2	0.0024	0.0007	£9.94	£8.81
G0.3-24	24	7.20	7.80	7.80	2	0.0026	0.0007	£10.01	£8.86
G0.3-25	25	7.50	8.10	8.10	2	0.0028	0.0008	£10.19	£8.91
G0.3-26	26	7.80	8.40	8.40	3	0.0028	0.0008	£10.30	£8.96
G0.3-27	27	8.10	8.70	8.70	3	0.0031	0.0009	£10.43	£9.08
G0.3-28	28	8.40	9.00	9.00	3	0.0033	0.0009	£10.47	£9.09
G0.3-29	29	8.70	9.30	9.30	3	0.0036	0.0010	£10.70	£9.18
G0.3-30	30	9.00	9.60	8.00	3	0.0038	0.0011	£10.80	£9.26
G0.3-31	31	9.30	9.90	8.00	3	0.0039	0.0012	£10.95	£9.31
G0.3-32	32	9.60	10.20	8.00	3	0.0041	0.0012	£10.99	£9.37
G0.3-33	33	9.90	10.50	8.00	3	0.0042	0.0013	£11.18	£9.47
G0.3-34	34	10.20	10.80	8.00	3	0.0043	0.0014	£11.28	£9.47
G0.3-35	35	10.50	11.10	8.00	3	0.0044	0.0015	£11.33	£9.51
G0.3-36	36	10.80	11.40	10.00	3	0.0046	0.0016	£11.36	£9.61
G0.3-37	37	11.10	11.70	10.00	3	0.0047	0.0017	£11.49	£9.67
G0.3-38	38	11.40	12.00	10.00	3	0.0048	0.0018	£11.66	£9.72
G0.3-39	39	11.70	12.30	10.00	3	0.0049	0.0019	£11.77	£9.82
G0.3-40	40	12.00	12.60	10.00	3	0.0050	0.0020	£11.85	£9.83
G0.3-41	41	12.30	12.90	10.00	3	0.0051	0.0021	£11.93	£9.84
G0.3-42	42	12.60	13.20	10.00	3	0.0053	0.0023	£12.09	£9.93



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.3-43	43	12.90	13.50	10	3	0.0054	0.0024	£12.16	£9.94
G0.3-44	44	13.20	13.80	10	3	0.0055	0.0025	£12.29	£9.96
G0.3-45	45	13.50	14.10	10	3	0.0056	0.0026	£12.39	£10.01
G0.3-46	46	13.80	14.40	10	3	0.0057	0.0027	£12.50	£10.02
G0.3-47	47	14.10	14.70	10	3	0.0059	0.0029	£12.65	£10.09
G0.3-48	48	14.40	15.00	10	3	0.0060	0.0030	£12.69	£10.19
G0.3-49	49	14.70	15.30	10	3	0.0061	0.0031	£12.78	£10.19
G0.3-50	50	15.00	15.60	10	3	0.0063	0.0032	£12.93	£10.24
G0.3-52	52	15.60	16.20	10	3	0.0065	0.0035	£13.02	£10.28
G0.3-54	54	16.20	16.80	10	3	0.0068	0.0038	£13.13	£10.30
G0.3-55	55	16.50	17.10	12	4	0.0081	0.0039	£13.19	£10.35
G0.3-58	58	17.40	18.00	12	4	0.0085	0.0043	£13.37	£10.43
G0.3-60	60	18.00	18.60	12	4	0.0089	0.0046	£13.54	£10.47
G0.3-62	62	18.60	19.20	12	4	0.0092	0.0050	£13.70	£10.54
G0.3-63	63	18.90	19.50	12	4	0.0094	0.0051	£13.93	£10.57
G0.3-64	64	19.20	19.80	12	4	0.0095	0.0053	£14.05	£10.70
G0.3-65	65	19.50	20.10	12	4	0.0097	0.0055	£14.25	£10.72
G0.3-68	68	20.40	21.00	12	4	0.0102	0.0060	£14.38	£10.76
G0.3-70	70	21.00	21.60	12	4	0.0106	0.0064	£14.64	£10.79
G0.3-72	72	21.60	22.20	12	4	0.0110	0.0068	£14.73	£10.82
G0.3-75	75	22.50	23.10	12	4	0.0116	0.0074	£14.95	£10.87
G0.3-76	76	22.80	23.40	12	4	0.0118	0.0076	£15.07	£10.95
G0.3-80	80	24.00	24.60	12	4	0.0126	0.0084	£15.19	£10.97
G0.3-84	84	25.20	25.80	12	4	0.0135	0.0093	£15.36	£11.15
G0.3-86	86	25.80	26.40	12	4	0.0140	0.0098	£15.41	£11.21
G0.3-88	88	26.40	27.00	12	4	0.0145	0.0102	£15.49	£11.30
G0.3-90	90	27.00	27.60	12	4	0.0149	0.0107	£15.61	£11.35
G0.3-93	93	27.90	28.50	12	4	0.0157	0.0115	£15.76	£11.49
G0.3-95	95	28.50	29.10	12	4	0.0162	0.0120	£15.83	£11.59
G0.3-96	96	28.80	29.40	12	4	0.0165	0.0122	£15.93	£11.70
G0.3-97	97	29.10	29.70	12	4	0.0167	0.0125	£16.04	£11.81
G0.3-99	99	29.70	30.30	12	4	0.0172	0.0130	£16.19	£11.85
G0.3-100	100	30.00	30.60	12	4	0.0175	0.0133	£16.27	£11.93
G0.3-108	108	32.40	33.00	12	4	0.0198	0.0155	£16.44	£12.09
G0.3-110	110	33.00	33.60	12	4	0.0204	0.0161	£16.48	£12.29
G0.3-115	115	34.50	35.10	12	4	0.0219	0.0176	£16.56	£12.51
G0.3-120	120	36.00	36.60	12	4	0.0235	0.0192	£16.65	£12.75
G0.3-124	124	37.20	37.80	12	4	0.0248	0.0206	£16.72	£12.95
G0.3-127	127	38.10	38.70	12	4	0.0258	0.0216	£16.77	£13.14
G0.3-130	130	39.00	39.60	12	4	0.0268	0.0226	£16.83	£13.40
G0.3-132	132	39.60	40.20	12	4	0.0276	0.0233	£16.92	£13.61
G0.3-136	136	40.80	41.40	12	4	0.0290	0.0248	£17.43	£13.74
G0.3-140	140	42.00	42.60	12	4	0.0305	0.0263	£17.81	£14.36
G0.3-148	148	44.40	45.00	12	4	0.0336	0.0294	£19.25	£15.49
G0.3-150	150	45.00	45.60	12	4	0.0344	0.0302	£19.77	£15.95
G0.3-156	156	46.80	47.40	12	4	0.0369	0.0327	£20.95	£16.42
G0.3-160	160	48.00	48.60	12	4	0.0386	0.0344	£26.70	£19.03
G0.3-180	180	54.00	54.60	12	5	0.0478	0.0436	£30.85	£23.09
G0.3-200	200	60.00	60.60	20	5	0.0581	0.0538	£31.61	£26.10
G0.3-240	240	72.00	72.60	20	8	0.0819	0.0776	£34.24	£28.50

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

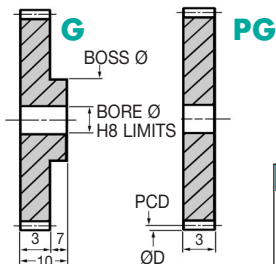
ALTERNATIVE : Brass, Tufnol or Delrin

0.4 MOD

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	0.147	0.698	0.073	0.058
K.W.	0.014	0.075	0.008	0.006



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.4-10	10	4.40	5.20	5.20	2	0.0012	0.0003	£9.55	£9.04
G0.4-11	11	4.80	5.60	5.60	2	0.0015	0.0003	£9.57	£9.08
G0.4-12	12	4.80	5.60	5.60	2	0.0015	0.0003	£9.60	£9.08
G0.4-13	13	5.20	6.00	6.00	2	0.0018	0.0004	£9.61	£9.09
G0.4-14	14	5.60	6.40	6.40	2	0.0020	0.0005	£9.62	£9.15
G0.4-15	15	6.00	6.80	6.80	2	0.0024	0.0006	£9.65	£9.16
G0.4-16	16	6.40	7.20	7.20	2	0.0027	0.0007	£9.67	£9.18
G0.4-17	17	6.80	7.60	7.60	2	0.0030	0.0008	£9.68	£9.20
G0.4-18	18	7.20	8.00	8.00	3	0.0031	0.0008	£9.70	£9.21
G0.4-19	19	7.60	8.40	8.40	3	0.0035	0.0009	£9.72	£9.22
G0.4-20	20	8.00	8.80	8.80	3	0.0039	0.0010	£9.74	£9.24
G0.4-21	21	8.40	9.20	9.20	3	0.0043	0.0011	£9.76	£9.28
G0.4-22	22	8.80	9.60	9.60	3	0.0047	0.0012	£9.77	£9.30
G0.4-23	23	9.20	10.00	10.00	3	0.0052	0.0014	£9.82	£9.32
G0.4-24	24	9.60	10.40	10.40	3	0.0057	0.0015	£9.82	£9.35
G0.4-25	25	10.00	10.80	10.80	3	0.0062	0.0016	£9.83	£9.37
G0.4-26	26	10.40	11.20	8.00	3	0.0041	0.0018	£9.84	£9.38
G0.4-27	27	10.80	11.60	8.00	3	0.0043	0.0019	£9.86	£9.47
G0.4-28	28	11.20	12.00	8.00	3	0.0044	0.0021	£9.93	£9.48
G0.4-29	29	11.60	12.40	8.00	3	0.0046	0.0023	£9.94	£9.51
G0.4-30	30	12.00	12.80	8.00	3	0.0047	0.0024	£9.96	£9.55
G0.4-31	31	12.40	13.20	8.00	3	0.0049	0.0026	£9.97	£9.70
G0.4-32	32	12.80	13.60	8.00	3	0.0051	0.0028	£10.01	£9.82

Spur Gears Steel - Standard MOD 0.4

23.6



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.4-33	33	13.20	14.00	8	3	0.0053	0.0030	£10.02	£9.84
G0.4-34	34	13.60	14.40	8	3	0.0055	0.0032	£10.09	£9.96
G0.4-35	35	14.00	14.80	8	3	0.0057	0.0034	£10.19	£9.99
G0.4-36	36	14.40	15.20	8	3	0.0059	0.0036	£10.19	£10.02
G0.4-37	37	14.80	15.60	8	3	0.0061	0.0038	£10.22	£10.22
G0.4-38	38	15.20	16.00	8	3	0.0063	0.0040	£10.28	£10.24
G0.4-39	39	15.60	16.40	8	3	0.0065	0.0042	£10.32	£10.30
G0.4-40	40	16.00	16.80	12	4	0.0097	0.0043	£10.42	£10.35
G0.4-41	41	16.40	17.20	12	4	0.0099	0.0046	£10.46	£10.43
G0.4-42	42	16.80	17.60	12	4	0.0102	0.0048	£10.54	£10.46
G0.4-43	43	17.20	18.00	12	4	0.0104	0.0050	£10.65	£10.54
G0.4-44	44	17.60	18.40	12	4	0.0107	0.0053	£10.72	£10.65
G0.4-45	45	18.00	18.80	12	4	0.0109	0.0056	£10.76	£10.70
G0.4-46	46	18.40	19.20	12	4	0.0112	0.0058	£10.80	£10.75
G0.4-47	47	18.80	19.60	12	4	0.0115	0.0061	£10.87	£10.79
G0.4-48	48	19.20	20.00	12	4	0.0117	0.0064	£10.95	£10.80
G0.4-49	49	19.60	20.40	12	4	0.0120	0.0066	£10.99	£10.87
G0.4-50	50	20.00	20.80	12	4	0.0123	0.0069	£11.15	£10.95
G0.4-51	51	20.40	21.20	12	4	0.0126	0.0072	£11.20	£10.99
G0.4-52	52	20.80	21.60	12	4	0.0129	0.0075	£11.28	£11.06
G0.4-53	53	21.20	22.00	12	4	0.0132	0.0078	£11.30	£11.18
G0.4-54	54	21.60	22.40	12	4	0.0135	0.0081	£11.35	£11.21
G0.4-55	55	22.00	22.80	12	4	0.0138	0.0084	£11.36	£11.30
G0.4-56	56	22.40	23.20	12	4	0.0141	0.0088	£11.50	£11.35
G0.4-57	57	22.80	23.60	12	4	0.0145	0.0091	£11.65	£11.49
G0.4-58	58	23.20	24.00	12	4	0.0148	0.0094	£11.73	£11.65
G0.4-59	59	23.60	24.40	12	4	0.0151	0.0098	£11.84	£11.73
G0.4-60	60	24.00	24.80	12	4	0.0155	0.0101	£11.91	£11.84
G0.4-61	61	24.40	25.20	12	4	0.0158	0.0104	£12.06	£11.91
G0.4-62	62	24.80	25.60	12	4	0.0162	0.0108	£12.15	£12.06
G0.4-63	63	25.20	26.00	12	4	0.0165	0.0112	£12.23	£12.15
G0.4-64	64	25.60	26.40	12	4	0.0169	0.0115	£12.34	£12.23
G0.4-65	65	26.00	26.80	12	4	0.0173	0.0119	£12.50	£12.39
G0.4-68	68	27.20	28.00	12	4	0.0184	0.0131	£12.65	£12.50
G0.4-70	70	28.00	28.80	12	4	0.0192	0.0138	£12.69	£12.65
G0.4-72	72	28.80	29.60	12	4	0.0201	0.0147	£12.77	£12.69
G0.4-75	75	30.00	30.80	12	4	0.0213	0.0159	£12.83	£12.78
G0.4-77	77	30.80	31.60	12	4	0.0222	0.0168	£12.93	£12.93
G0.4-80	80	32.00	32.80	12	5	0.0230	0.0180	£12.95	£13.03
G0.4-84	84	33.60	34.40	12	5	0.0249	0.0199	£13.09	£13.30
G0.4-86	86	34.40	35.20	12	5	0.0259	0.0209	£13.27	£13.54
G0.4-88	88	35.20	36.00	12	5	0.0269	0.0219	£13.46	£13.77
G0.4-90	90	36.00	36.80	12	5	0.0279	0.0229	£13.68	£14.05
G0.4-96	96	38.40	39.20	12	5	0.0311	0.0261	£13.95	£14.32
G0.4-100	100	40.00	40.80	12	5	0.0334	0.0284	£14.15	£14.61
G0.4-120	120	48.00	48.80	12	5	0.0461	0.0411	£14.36	£14.77
G0.4-140	140	56.00	56.80	12	5	0.0611	0.0561	£15.83	£16.12
G0.4-150	150	60.00	60.80	12	5	0.0695	0.0645	£19.07	£16.56
G0.4-180	180	72.00	72.80	15	6	0.1008	0.0928	£23.31	£20.25
G0.4-200	200	80.00	80.80	15	6	0.1227	0.1147	£26.27	£22.79
G0.4-220	220	88.00	88.80	15	6	0.1469	0.1390	£30.22	£26.27
G0.4-250	250	100.00	100.80	15	6	0.1876	0.1797	£34.34	£29.85

Spur Gears Steel - Standard MOD 0.4

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

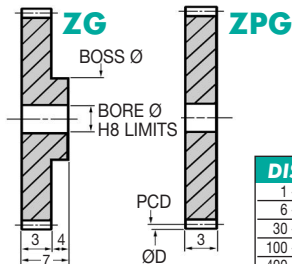
STD : **White Delrin**

0.4 MOD

20° P.A.

SPECIAL TEETH : *between 10 - 180*

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.04



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							ZG	ZPG	
ZG0.4-10	10	4.40	5.20	5.20	1.50	0.0002	0.0001	£4.74	£3.66
ZG0.4-11	11	4.80	5.60	5.60	1.50	0.0002	0.0001	£4.75	£3.66
ZG0.4-12	12	4.80	5.60	5.60	1.50	0.0002	0.0001	£4.76	£3.66
ZG0.4-13	13	5.20	6.00	6.00	1.50	0.0002	0.0001	£4.78	£3.66
ZG0.4-14	14	5.60	6.40	6.40	2.00	0.0002	0.0001	£4.79	£3.71
ZG0.4-15	15	6.00	6.80	6.80	2.00	0.0002	0.0001	£4.81	£3.71
ZG0.4-16	16	6.40	7.20	7.00	2.00	0.0002	0.0001	£4.83	£3.71
ZG0.4-17	17	6.80	7.60	7.00	2.00	0.0002	0.0001	£4.84	£3.71
ZG0.4-18	18	7.20	8.00	7.00	2.00	0.0003	0.0001	£4.85	£3.71
ZG0.4-19	19	7.60	8.40	7.00	2.00	0.0003	0.0002	£4.85	£3.71
ZG0.4-20	20	8.00	8.80	7.00	2.00	0.0004	0.0002	£4.85	£3.71
ZG0.4-21	21	8.40	9.20	7.00	2.00	0.0004	0.0002	£4.85	£3.71
ZG0.4-22	22	8.80	9.60	7.00	2.00	0.0004	0.0002	£4.85	£3.71
ZG0.4-23	23	9.20	10.00	9.00	2.00	0.0006	0.0002	£4.85	£3.71
ZG0.4-24	24	9.60	10.40	9.00	2.00	0.0006	0.0003	£4.85	£3.71
ZG0.4-25	25	10.00	10.80	9.00	2.00	0.0006	0.0003	£4.85	£3.71
ZG0.4-26	26	10.40	11.20	9.00	2.00	0.0006	0.0003	£4.85	£3.71
ZG0.4-27	27	10.80	11.60	9.00	2.00	0.0007	0.0003	£4.85	£3.78
ZG0.4-28	28	11.20	12.00	11.00	3.00	0.0008	0.0004	£4.90	£3.78
ZG0.4-29	29	11.60	12.40	11.00	3.00	0.0008	0.0004	£4.95	£3.78
ZG0.4-30	30	12.00	12.80	11.00	3.00	0.0009	0.0004	£4.96	£3.78
ZG0.4-31	31	12.40	13.20	11.00	3.00	0.0009	0.0004	£4.97	£3.78
ZG0.4-32	32	12.80	13.60	11.00	3.00	0.0009	0.0005	£4.98	£3.78

Spur Gears Plastic MOD 0.4

23.8



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG0.4-33	33	13.20	14.00	11	3	0.0010	0.0005	£4.99	£3.83
ZG0.4-34	34	13.60	14.40	11	3	0.0010	0.0005	£5.01	£3.84
ZG0.4-35	35	14.00	14.80	11	3	0.0010	0.0006	£5.06	£3.85
ZG0.4-36	36	14.40	15.20	11	3	0.0011	0.0006	£5.06	£3.88
ZG0.4-37	37	14.80	15.60	11	3	0.0011	0.0006	£5.09	£3.89
ZG0.4-38	38	15.20	16.00	11	3	0.0011	0.0007	£5.19	£3.90
ZG0.4-39	39	15.60	16.40	11	3	0.0012	0.0007	£5.20	£3.96
ZG0.4-40	40	16.00	16.80	11	3	0.0012	0.0007	£5.22	£3.96
ZG0.4-41	41	16.40	17.20	11	3	0.0012	0.0008	£5.23	£3.99
ZG0.4-42	42	16.80	17.60	11	3	0.0013	0.0008	£5.25	£4.01
ZG0.4-43	43	17.20	18.00	11	3	0.0013	0.0009	£5.32	£4.03
ZG0.4-44	44	17.60	18.40	11	3	0.0014	0.0009	£5.33	£4.07
ZG0.4-45	45	18.00	18.80	11	3	0.0014	0.0010	£5.34	£4.08
ZG0.4-46	46	18.40	19.20	11	3	0.0015	0.0010	£5.46	£4.09
ZG0.4-47	47	18.80	19.60	11	3	0.0015	0.0010	£5.47	£4.14
ZG0.4-48	48	19.20	20.00	11	3	0.0015	0.0011	£5.48	£4.20
ZG0.4-49	49	19.60	20.40	14	4	0.0018	0.0011	£5.52	£4.21
ZG0.4-50	50	20.00	20.80	14	4	0.0019	0.0012	£5.54	£4.24
ZG0.4-51	51	20.40	21.20	14	4	0.0019	0.0012	£5.55	£4.27
ZG0.4-52	52	20.80	21.60	14	4	0.0020	0.0013	£5.58	£4.28
ZG0.4-53	53	21.20	22.00	14	4	0.0020	0.0013	£5.67	£4.32
ZG0.4-54	54	21.60	22.40	14	4	0.0021	0.0014	£5.72	£4.32
ZG0.4-55	55	22.00	22.80	14	4	0.0021	0.0014	£5.73	£4.35
ZG0.4-56	56	22.40	23.20	14	4	0.0022	0.0015	£5.79	£4.38
ZG0.4-57	57	22.80	23.60	14	4	0.0023	0.0015	£5.81	£4.42
ZG0.4-58	58	23.20	24.00	14	4	0.0023	0.0016	£5.85	£4.44
ZG0.4-59	59	23.60	24.40	14	4	0.0024	0.0016	£5.90	£4.49
ZG0.4-60	60	24.00	24.80	14	4	0.0024	0.0017	£5.95	£4.57
ZG0.4-61	61	24.40	25.20	14	4	0.0025	0.0018	£6.04	£4.61
ZG0.4-62	62	24.80	25.60	14	4	0.0025	0.0018	£6.06	£4.62
ZG0.4-63	63	25.20	26.00	14	4	0.0026	0.0019	£6.14	£4.72
ZG0.4-64	64	25.60	26.40	14	4	0.0027	0.0019	£6.15	£4.73
ZG0.4-65	65	26.00	26.80	14	4	0.0027	0.0020	£6.30	£4.76
ZG0.4-68	68	27.20	28.00	14	4	0.0029	0.0022	£6.32	£4.79
ZG0.4-70	70	28.00	28.80	14	4	0.0031	0.0023	£6.38	£4.83
ZG0.4-72	72	28.80	29.60	14	4	0.0032	0.0025	£6.70	£4.85
ZG0.4-75	75	30.00	30.80	14	4	0.0034	0.0027	£7.04	£5.46
ZG0.4-77	77	30.80	31.60	14	4	0.0036	0.0028	£7.09	£5.47
ZG0.4-80	80	32.00	32.80	14	4	0.0038	0.0031	£7.14	£5.48
ZG0.4-84	84	33.60	34.40	14	4	0.0041	0.0034	£7.27	£5.52
ZG0.4-86	86	34.40	35.20	14	4	0.0043	0.0035	£7.36	£5.58
ZG0.4-88	88	35.20	36.00	14	4	0.0044	0.0037	£7.40	£5.67
ZG0.4-90	90	36.00	36.80	14	4	0.0046	0.0039	£7.49	£5.79
ZG0.4-96	96	38.40	39.20	14	4	0.0051	0.0044	£7.70	£5.85
ZG0.4-100	100	40.00	40.80	14	4	0.0055	0.0048	£8.88	£6.77
ZG0.4-120	120	48.00	48.80	14	4	0.0077	0.0069	£9.04	£6.95
ZG0.4-140	140	56.00	56.80	14	4	0.0102	0.0095	£10.04	£7.94
ZG0.4-150	150	60.00	60.80	20	6	0.0116	0.0109	£11.28	£9.08
ZG0.4-180	180	72.00	72.80	20	6	0.0164	0.0157	£12.43	£10.25

Spur Gears Plastic MOD 0.4

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

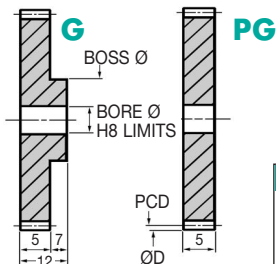
ALTERNATIVE : Brass, Tufnol or Delrin

0.5 MOD

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 1.850 0.194	Brass 0.195 0.021	Tufnol 0.156 0.016
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.5-10	10	5.50	6.50	6.50	3	0.0020	0.0006	£10.12	£8.46
G0.5-11	11	6.00	7.00	7.00	3	0.0025	0.0008	£10.15	£8.47
G0.5-12	12	6.00	7.00	7.00	3	0.0025	0.0008	£10.19	£8.50
G0.5-13	13	6.50	7.50	7.50	3	0.0030	0.0010	£10.28	£8.66
G0.5-14	14	7.00	8.00	8.00	3	0.0035	0.0012	£10.42	£8.86
G0.5-15	15	7.50	8.50	8.50	3	0.0037	0.0014	£10.54	£8.97
G0.5-16	16	8.00	9.00	8.50	4	0.0038	0.0014	£10.72	£9.22
G0.5-17	17	8.50	9.50	8.50	4	0.0041	0.0017	£10.79	£9.37
G0.5-18	18	9.00	10.00	8.50	4	0.0043	0.0020	£10.87	£9.51
G0.5-19	19	9.50	10.50	8.50	4	0.0046	0.0022	£10.99	£9.61
G0.5-20	20	10.00	11.00	8.50	4	0.0049	0.0025	£11.20	£9.70
G0.5-21	21	10.50	11.50	8.50	4	0.0052	0.0028	£11.30	£9.76
G0.5-22	22	11.00	12.00	8.50	4	0.0055	0.0032	£11.47	£9.83
G0.5-23	23	11.50	12.50	8.50	4	0.0059	0.0035	£11.59	£9.93
G0.5-24	24	12.00	13.00	10.00	5	0.0067	0.0036	£11.73	£9.96
G0.5-25	25	12.50	13.50	10.00	5	0.0071	0.0039	£11.85	£10.01
G0.5-26	26	13.00	14.00	10.00	5	0.0075	0.0043	£12.04	£10.09
G0.5-27	27	13.50	14.50	10.00	5	0.0079	0.0047	£12.15	£10.19
G0.5-28	28	14.00	15.00	10.00	5	0.0083	0.0051	£12.29	£10.22
G0.5-29	29	14.50	15.50	10.00	5	0.0087	0.0056	£12.34	£10.24
G0.5-30	30	15.00	16.00	10.00	5	0.0092	0.0060	£12.40	£10.30
G0.5-31	31	15.50	16.50	10.00	5	0.0096	0.0065	£12.56	£10.42
G0.5-32	32	16.00	17.00	10.00	5	0.0101	0.0069	£12.69	£10.47

Spur Gears Steel - Standard MOD 0.5

23.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.5-33	33	16.50	17.50	10	5	0.0106	0.0074	£12.83	£10.57
G0.5-34	34	17.00	18.00	10	5	0.0111	0.0079	£12.95	£10.72
G0.5-35	35	17.50	18.50	10	5	0.0116	0.0085	£13.13	£10.79
G0.5-36	36	18.00	19.00	10	5	0.0121	0.0090	£13.27	£10.87
G0.5-37	37	18.50	19.50	10	5	0.0127	0.0095	£13.40	£10.95
G0.5-38	38	19.00	20.00	10	5	0.0133	0.0101	£13.54	£11.06
G0.5-39	39	19.50	20.50	10	5	0.0138	0.0107	£13.68	£11.20
G0.5-40	40	20.00	21.00	10	5	0.0144	0.0113	£13.82	£11.28
G0.5-41	41	20.50	21.50	10	5	0.0150	0.0119	£13.96	£11.33
G0.5-42	42	21.00	22.00	10	5	0.0157	0.0125	£14.08	£11.47
G0.5-43	43	21.50	22.50	10	5	0.0163	0.0131	£14.25	£11.53
G0.5-44	44	22.00	23.00	10	5	0.0169	0.0138	£14.36	£11.66
G0.5-45	45	22.50	23.50	10	5	0.0176	0.0145	£14.50	£11.73
G0.5-46	46	23.00	24.00	10	5	0.0183	0.0151	£14.67	£11.84
G0.5-47	47	23.50	24.50	10	5	0.0190	0.0158	£14.77	£11.91
G0.5-48	48	24.00	25.00	10	5	0.0197	0.0166	£15.07	£12.06
G0.5-49	49	24.50	25.50	10	5	0.0204	0.0173	£15.15	£12.11
G0.5-50	50	25.00	26.00	12	6	0.0222	0.0177	£15.23	£12.22
G0.5-51	51	25.50	26.50	12	6	0.0230	0.0185	£15.38	£12.33
G0.5-52	52	26.00	27.00	12	6	0.0238	0.0192	£15.45	£12.44
G0.5-53	53	26.50	27.50	12	6	0.0246	0.0200	£15.55	£12.56
G0.5-54	54	27.00	28.00	12	6	0.0254	0.0208	£15.65	£12.68
G0.5-55	55	27.50	28.50	12	6	0.0262	0.0216	£15.77	£12.77
G0.5-56	56	28.00	29.00	12	6	0.0270	0.0225	£15.87	£25.87
G0.5-57	57	28.50	29.50	12	6	0.0279	0.0233	£15.95	£13.02
G0.5-58	58	29.00	30.00	12	6	0.0287	0.0242	£16.12	£13.13
G0.5-59	59	29.50	30.50	12	6	0.0296	0.0251	£16.19	£13.27
G0.5-60	60	30.00	31.00	12	6	0.0305	0.0260	£16.27	£13.37
G0.5-61	61	30.50	31.50	12	6	0.0314	0.0269	£24.72	£13.46
G0.5-62	62	31.00	32.00	12	6	0.0323	0.0278	£16.48	£13.59
G0.5-63	63	31.50	32.50	12	6	0.0333	0.0287	£16.60	£13.70
G0.5-64	64	32.00	33.00	12	6	0.0342	0.0297	£16.72	£13.82
G0.5-65	65	32.50	33.50	12	6	0.0352	0.0307	£16.83	£13.95
G0.5-68	68	34.00	35.00	12	6	0.0382	0.0337	£16.95	£13.99
G0.5-70	70	35.00	36.00	12	6	0.0403	0.0357	£17.13	£14.15
G0.5-72	72	36.00	37.00	12	6	0.0424	0.0379	£17.29	£14.27
G0.5-75	75	37.50	38.50	12	6	0.0457	0.0412	£17.44	£14.33
G0.5-77	77	38.50	39.50	12	6	0.0480	0.0435	£17.65	£14.38
G0.5-80	80	40.00	41.00	12	6	0.0515	0.0470	£17.81	£14.46
G0.5-84	84	42.00	43.00	12	6	0.0565	0.0519	£17.98	£14.64
G0.5-86	86	43.00	44.00	12	6	0.0590	0.0545	£18.17	£14.67
G0.5-88	88	44.00	45.00	12	6	0.0616	0.0571	£18.30	£14.73
G0.5-90	90	45.00	46.00	12	6	0.0643	0.0598	£18.50	£14.82
G0.5-96	96	48.00	49.00	12	6	0.0727	0.0682	£18.69	£15.23
G0.5-100	100	50.00	51.00	12	6	0.0786	0.0740	£18.77	£16.19
G0.5-120	120	60.00	61.00	18	6	0.1116	0.1071	£22.74	£20.42
G0.5-140	140	70.00	71.00	18	6	0.1507	0.1462	£27.18	£24.45
G0.5-150	150	75.00	76.00	18	6	0.1725	0.1679	£29.60	£27.05
G0.5-180	180	90.00	91.00	20	8	0.2469	0.2423	£33.41	£30.10
G0.5-200	200	100.00	101.00	20	8	0.3040	0.2994	£36.49	£32.85
G0.5-220	220	110.00	111.00	20	10	0.3671	0.3625	£39.79	£35.88
G0.5-250	250	125.00	126.00	20	10	0.4730	0.4684	£43.77	£39.47

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

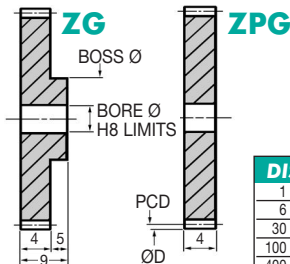
Plastic Delrin (fully machined)

STD : **White Delrin**

0.5 MOD

20° P.A.

SPECIAL TEETH : *between 10 - 250*



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.10

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

Spur Gears Plastic MOD 0.5

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							ZG	ZPG	
ZG0.5-10	10	5.50	6.50	6.50	2	0.0003	0.0001	£5.12	£3.89
ZG0.5-11	11	6.00	7.00	7.00	2	0.0003	0.0001	£5.13	£3.90
ZG0.5-12	12	6.00	7.00	7.00	2	0.0003	0.0001	£5.19	£3.99
ZG0.5-13	13	6.50	7.50	7.00	2	0.0004	0.0002	£5.20	£3.96
ZG0.5-14	14	7.00	8.00	7.00	2	0.0004	0.0002	£5.23	£3.99
ZG0.5-15	15	7.50	8.50	7.00	2	0.0004	0.0002	£5.25	£4.01
ZG0.5-16	16	8.00	9.00	7.00	2	0.0005	0.0002	£5.33	£4.03
ZG0.5-17	17	8.50	9.50	8.00	2	0.0006	0.0003	£5.46	£4.08
ZG0.5-18	18	9.00	10.00	8.00	2	0.0006	0.0003	£5.48	£4.14
ZG0.5-19	19	9.50	10.50	9.00	3	0.0007	0.0003	£5.52	£4.21
ZG0.5-20	20	10.00	11.00	9.00	3	0.0007	0.0004	£5.58	£4.24
ZG0.5-21	21	10.50	11.50	9.00	3	0.0008	0.0004	£5.67	£4.27
ZG0.5-22	22	11.00	12.00	9.00	3	0.0008	0.0005	£5.72	£4.35
ZG0.5-23	23	11.50	12.50	10.00	3	0.0010	0.0005	£5.81	£4.42
ZG0.5-24	24	12.00	13.00	10.00	3	0.0010	0.0005	£5.85	£4.49
ZG0.5-25	25	12.50	13.50	10.00	3	0.0011	0.0006	£5.90	£4.57
ZG0.5-26	26	13.00	14.00	10.00	3	0.0011	0.0006	£6.04	£4.61
ZG0.5-27	27	13.50	14.50	10.00	3	0.0012	0.0007	£6.06	£4.62
ZG0.5-28	28	14.00	15.00	10.00	3	0.0012	0.0008	£6.14	£4.72
ZG0.5-29	29	14.50	15.50	10.00	3	0.0013	0.0008	£6.15	£4.73
ZG0.5-30	30	15.00	16.00	12.00	4	0.0015	0.0008	£6.20	£4.75
ZG0.5-31	31	15.50	16.50	12.00	4	0.0016	0.0009	£6.30	£4.79
ZG0.5-32	32	16.00	17.00	12.00	4	0.0016	0.0010	£6.38	£4.83

23.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG0.5-33	33	16.50	17.50	12	4	0.0017	0.0010	£6.39	£4.85
ZG0.5-34	34	17.00	18.00	12	4	0.0017	0.0011	£6.43	£4.97
ZG0.5-35	35	17.50	18.50	12	4	0.0018	0.0012	£6.61	£4.98
ZG0.5-36	36	18.00	19.00	12	4	0.0019	0.0012	£6.65	£5.06
ZG0.5-40	40	20.00	21.00	12	4	0.0022	0.0016	£6.95	£5.32
ZG0.5-41	41	20.50	21.50	12	4	0.0023	0.0016	£6.99	£5.33
ZG0.5-42	42	21.00	22.00	12	4	0.0024	0.0017	£7.04	£5.46
ZG0.5-43	43	21.50	22.50	12	4	0.0024	0.0018	£7.09	£5.48
ZG0.5-44	44	22.00	23.00	12	4	0.0025	0.0019	£7.27	£5.52
ZG0.5-45	45	22.50	23.50	12	4	0.0026	0.0020	£7.31	£5.54
ZG0.5-46	46	23.00	24.00	12	4	0.0027	0.0021	£7.36	£5.58
ZG0.5-47	47	23.50	24.50	12	4	0.0028	0.0022	£7.40	£5.67
ZG0.5-48	48	24.00	25.00	12	4	0.0029	0.0023	£7.53	£5.76
ZG0.5-49	49	24.50	25.50	12	4	0.0030	0.0024	£7.63	£5.79
ZG0.5-50	50	25.00	26.00	12	4	0.0031	0.0025	£7.64	£5.82
ZG0.5-51	51	25.50	26.50	12	4	0.0032	0.0026	£7.70	£5.85
ZG0.5-52	52	26.00	27.00	12	4	0.0033	0.0027	£7.73	£5.90
ZG0.5-53	53	26.50	27.50	12	4	0.0034	0.0028	£7.75	£5.95
ZG0.5-54	54	27.00	28.00	14	4	0.0038	0.0029	£7.82	£6.04
ZG0.5-55	55	27.50	28.50	14	4	0.0039	0.0030	£7.87	£6.06
ZG0.5-56	56	28.00	29.00	14	4	0.0040	0.0031	£7.94	£6.07
ZG0.5-57	57	28.50	29.50	14	4	0.0041	0.0032	£8.01	£6.14
ZG0.5-58	58	29.00	30.00	14	4	0.0042	0.0033	£8.88	£6.75
ZG0.5-59	59	29.50	30.50	14	4	0.0044	0.0035	£8.93	£6.77
ZG0.5-60	60	30.00	31.00	14	4	0.0045	0.0036	£8.96	£6.87
ZG0.5-61	61	30.50	31.50	14	4	0.0046	0.0037	£9.04	£6.95
ZG0.5-62	62	31.00	32.00	14	4	0.0047	0.0038	£9.08	£6.99
ZG0.5-63	63	31.50	32.50	14	4	0.0049	0.0039	£9.18	£7.02
ZG0.5-64	64	32.00	33.00	14	4	0.0050	0.0041	£9.26	£7.04
ZG0.5-65	65	32.50	33.50	14	4	0.0051	0.0042	£9.30	£7.09
ZG0.5-68	68	34.00	35.00	14	4	0.0055	0.0046	£9.32	£7.14
ZG0.5-70	70	35.00	36.00	14	4	0.0058	0.0049	£9.47	£7.27
ZG0.5-72	72	36.00	37.00	14	4	0.0061	0.0052	£9.55	£7.36
ZG0.5-75	75	37.50	38.50	14	4	0.0065	0.0056	£9.65	£7.38
ZG0.5-77	77	38.50	39.50	14	4	0.0068	0.0059	£9.77	£7.45
ZG0.5-80	80	40.00	41.00	16	5	0.0075	0.0064	£11.15	£8.59
ZG0.5-84	84	42.00	43.00	16	5	0.0082	0.0070	£11.28	£8.62
ZG0.5-86	86	43.00	44.00	16	5	0.0085	0.0074	£11.47	£8.73
ZG0.5-88	88	44.00	45.00	16	5	0.0089	0.0077	£11.51	£8.81
ZG0.5-90	90	45.00	46.00	16	5	0.0092	0.0081	£11.59	£8.88
ZG0.5-96	96	48.00	49.00	16	5	0.0104	0.0092	£11.73	£8.96
ZG0.5-100	100	50.00	51.00	16	5	0.0112	0.0100	£14.25	£10.82
ZG0.5-120	120	60.00	61.00	16	5	0.0156	0.0144	£19.42	£14.90
ZG0.5-150	150	75.00	76.00	20	8	0.0238	0.0226	£26.85	£20.57
ZG0.5-180	180	90.00	91.00	20	8	0.0338	0.0326	£33.69	£25.81
ZG0.5-200	200	100.00	101.00	30	10	0.0460	0.0430	£40.48	£31.11
ZG0.5-220	220	110.00	111.00	30	10	0.5700	0.0520	£47.91	£39.34
ZG0.5-250	250	125.00	126.00	30	10	0.7100	0.0630	£63.57	£48.92

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

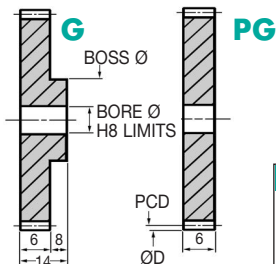
ALTERNATIVE : Brass, Tufnol or Delrin

0.6 MOD

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	0.630	2.910	0.315	0.240
K.W.	0.067	0.306	0.033	0.022



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.6-10	10	6.60	7.80	7.80	3	0.004	0.001	£10.70	£8.87
G0.6-11	11	7.20	8.40	8.40	3	0.005	0.002	£10.72	£8.88
G0.6-12	12	7.80	9.00	9.00	3	0.005	0.002	£10.73	£8.91
G0.6-13	13	7.80	9.00	9.00	3	0.005	0.002	£10.75	£8.93
G0.6-14	14	8.40	9.60	9.60	4	0.006	0.002	£10.76	£8.94
G0.6-15	15	9.00	10.20	10.20	4	0.007	0.002	£10.77	£9.08
G0.6-16	16	9.60	10.80	10.80	4	0.008	0.003	£10.94	£9.18
G0.6-17	17	10.20	11.40	11.40	4	0.009	0.003	£11.18	£9.28
G0.6-18	18	10.80	12.00	12.00	4	0.010	0.004	£11.36	£9.61
G0.6-19	19	11.40	12.60	12.00	4	0.010	0.004	£11.70	£9.76
G0.6-20	20	12.00	13.20	12.00	4	0.011	0.005	£12.07	£10.02
G0.6-21	21	12.60	13.80	12.00	4	0.011	0.005	£12.33	£10.24
G0.6-22	22	13.20	14.40	12.00	4	0.012	0.006	£12.44	£10.35
G0.6-23	23	13.80	15.00	12.00	4	0.012	0.006	£12.51	£10.46
G0.6-24	24	14.40	15.60	12.00	4	0.013	0.007	£12.62	£10.54
G0.6-25	25	15.00	16.20	12.00	4	0.014	0.008	£12.69	£10.57
G0.6-26	26	15.60	16.80	12.00	4	0.014	0.008	£12.83	£10.72
G0.6-27	27	16.20	17.40	12.00	4	0.015	0.009	£13.00	£10.79
G0.6-28	28	16.80	18.00	12.00	4	0.016	0.010	£13.09	£10.87
G0.6-29	29	17.40	18.60	12.00	4	0.016	0.010	£13.26	£10.99
G0.6-30	30	18.00	19.20	15.00	5	0.020	0.011	£13.30	£11.06
G0.6-31	31	18.60	19.80	15.00	5	0.021	0.012	£13.37	£11.15
G0.6-32	32	19.20	20.40	15.00	5	0.022	0.012	£13.48	£11.21

Spur Gears Steel - Standard MOD 0.6



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.6-33	33	19.80	21.00	15	5	0.023	0.013	£13.57	£11.28
G0.6-34	34	20.40	21.60	15	5	0.024	0.014	£13.64	£11.35
G0.6-35	35	21.00	22.20	15	5	0.025	0.015	£13.75	£11.47
G0.6-36	36	21.60	22.80	15	5	0.026	0.016	£13.77	£11.49
G0.6-37	37	22.20	23.40	15	5	0.026	0.017	£13.82	£11.50
G0.6-38	38	22.80	24.00	15	5	0.027	0.018	£13.92	£11.52
G0.6-39	39	23.40	24.60	15	5	0.028	0.019	£13.93	£11.53
G0.6-40	40	24.00	25.20	15	5	0.029	0.020	£13.94	£11.56
G0.6-41	41	24.60	25.80	15	5	0.031	0.021	£13.95	£11.58
G0.6-42	42	25.20	26.40	15	5	0.032	0.022	£13.96	£11.59
G0.6-43	43	25.80	27.00	15	5	0.033	0.023	£13.98	£11.65
G0.6-44	44	26.40	27.60	15	5	0.034	0.024	£13.99	£11.66
G0.6-45	45	27.00	28.20	15	5	0.035	0.025	£14.02	£11.67
G0.6-46	46	27.60	28.80	15	5	0.036	0.027	£14.05	£11.70
G0.6-47	47	28.20	29.40	15	5	0.037	0.028	£14.06	£11.73
G0.6-48	48	28.80	30.00	20	6	0.046	0.029	£14.08	£11.74
G0.6-49	49	29.40	30.60	20	6	0.047	0.030	£14.13	£11.77
G0.6-50	50	30.00	31.20	20	6	0.049	0.031	£14.15	£11.81
G0.6-51	51	30.60	31.80	20	6	0.050	0.032	£14.20	£11.84
G0.6-52	52	31.20	32.40	20	6	0.051	0.034	£14.25	£11.85
G0.6-53	53	31.80	33.00	20	6	0.053	0.035	£14.27	£11.86
G0.6-54	54	32.40	33.60	20	6	0.054	0.037	£14.32	£11.89
G0.6-55	55	33.00	34.20	20	6	0.055	0.038	£14.33	£11.91
G0.6-56	56	33.60	34.80	20	6	0.057	0.039	£14.36	£11.93
G0.6-57	57	34.20	35.40	20	6	0.058	0.041	£14.38	£12.06
G0.6-58	58	34.80	36.00	20	6	0.060	0.042	£14.46	£12.09
G0.6-59	59	35.40	36.60	20	6	0.061	0.044	£14.61	£12.11
G0.6-60	60	36.00	37.20	20	6	0.063	0.045	£14.64	£12.15
G0.6-61	61	36.60	37.80	20	6	0.065	0.047	£14.67	£12.16
G0.6-62	62	37.20	38.40	20	6	0.066	0.049	£14.72	£12.23
G0.6-63	63	37.80	39.00	20	6	0.068	0.050	£14.77	£12.33
G0.6-64	64	38.40	39.60	20	6	0.069	0.052	£14.83	£12.34
G0.6-65	65	39.00	40.20	20	6	0.071	0.054	£14.95	£12.40
G0.6-68	68	40.80	42.00	20	6	0.076	0.059	£15.04	£12.51
G0.6-70	70	42.00	43.20	20	6	0.080	0.062	£15.18	£12.66
G0.6-72	72	43.20	44.40	20	6	0.083	0.066	£15.36	£12.68
G0.6-75	75	45.00	46.20	20	6	0.089	0.072	£15.45	£12.83
G0.6-77	77	46.20	47.40	20	6	0.093	0.076	£15.49	£12.93
G0.6-80	80	48.00	49.20	20	6	0.099	0.082	£15.61	£13.02
G0.6-84	84	50.40	51.60	30	8	0.129	0.089	£16.04	£13.27
G0.6-86	86	51.40	52.80	30	8	0.133	0.093	£16.17	£13.40
G0.6-88	88	52.80	54.00	30	8	0.138	0.098	£16.65	£13.75
G0.6-90	90	54.00	55.20	30	8	0.143	0.103	£16.77	£13.98
G0.6-96	96	57.60	58.80	30	8	0.158	0.117	£16.83	£14.06
G0.6-100	100	60.00	61.20	30	8	0.168	0.128	£17.25	£14.65
G0.6-120	120	72.00	73.20	30	8	0.225	0.185	£24.39	£19.41
G0.6-140	140	84.00	85.20	30	8	0.292	0.252	£31.01	£25.81
G0.6-150	150	90.00	91.20	30	8	0.330	0.290	£32.43	£27.02
G0.6-180	180	108.00	109.20	30	10	0.458	0.418	£38.31	£31.91
G0.6-200	200	120.00	121.20	30	10	0.557	0.517	£44.16	£38.40
G0.6-220	220	132.00	133.20	30	12	0.666	0.626	£47.19	£41.31
G0.6-250	250	150.00	151.20	40	15	0.849	0.809	£58.28	£44.26

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

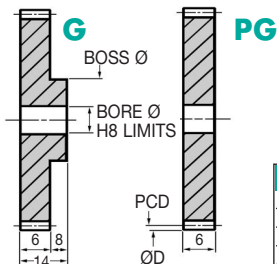
ALTERNATIVE : Brass, Tufnol or Delrin

0.7 MOD

20° P.A.

SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.692	3.200	0.320	0.250
	K.W.	0.072	0.336	0.030	0.030



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.7-9	9	7.00	8.40	8.40	4	0.004	0.003	£11.36	£9.49
G0.7-10	10	7.70	9.10	9.10	4	0.005	0.003	£11.48	£9.51
G0.7-11	11	8.40	9.80	9.80	4	0.006	0.004	£11.52	£9.55
G0.7-12	12	8.40	9.80	9.80	5	0.006	0.005	£11.58	£9.60
G0.7-13	13	9.10	10.50	10.50	5	0.007	0.005	£11.70	£9.76
G0.7-14	14	9.80	11.20	11.20	5	0.007	0.006	£11.91	£9.94
G0.7-15	15	10.50	11.90	11.90	5	0.009	0.006	£12.22	£10.19
G0.7-16	16	11.20	12.60	12.00	5	0.009	0.007	£12.51	£10.43
G0.7-17	17	11.90	13.30	12.00	5	0.010	0.007	£12.93	£10.76
G0.7-18	18	12.60	14.00	12.00	5	0.011	0.008	£13.19	£10.95
G0.7-19	19	13.30	14.70	12.00	5	0.011	0.008	£13.41	£11.15
G0.7-20	20	14.00	15.40	12.00	5	0.012	0.009	£13.46	£11.21
G0.7-21	21	14.70	16.10	12.00	5	0.013	0.010	£13.61	£11.30
G0.7-22	22	15.40	16.80	12.00	5	0.013	0.011	£13.75	£11.47
G0.7-23	23	16.10	17.50	12.00	5	0.014	0.011	£13.93	£11.53
G0.7-24	24	16.80	18.20	12.00	5	0.015	0.012	£13.99	£11.66
G0.7-25	25	17.50	18.90	12.00	5	0.016	0.013	£14.15	£11.81
G0.7-26	26	18.20	19.60	12.00	5	0.017	0.014	£14.32	£11.89
G0.7-27	27	18.90	20.30	12.00	5	0.018	0.015	£14.44	£12.04
G0.7-28	28	19.60	21.00	12.00	5	0.019	0.016	£14.50	£12.09
G0.7-29	29	20.30	21.70	12.00	5	0.020	0.017	£14.65	£12.16
G0.7-30	30	21.00	22.40	12.00	5	0.021	0.018	£14.72	£12.23
G0.7-31	31	21.70	23.10	12.00	5	0.022	0.019	£14.73	£12.29

Spur Gears Steel - Standard MOD 0.7



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.7-32	32	22.40	23.80	12	5	0.023	0.020	£14.77	£12.33
G0.7-33	33	23.10	24.50	12	5	0.024	0.021	£14.82	£12.34
G0.7-34	34	23.80	25.20	16	6	0.030	0.023	£14.83	£12.39
G0.7-35	35	24.50	25.90	16	6	0.031	0.025	£14.90	£12.39
G0.7-36	36	25.20	26.60	16	6	0.032	0.026	£14.95	£12.40
G0.7-37	37	25.90	27.30	16	6	0.033	0.027	£14.96	£12.44
G0.7-38	38	26.60	28.00	16	6	0.035	0.029	£15.00	£12.50
G0.7-39	39	27.30	28.70	16	6	0.036	0.030	£15.02	£12.51
G0.7-40	40	28.00	29.40	16	6	0.038	0.031	£15.04	£12.52
G0.7-41	41	28.70	30.10	16	6	0.039	0.033	£15.07	£12.56
G0.7-42	42	29.40	30.80	16	6	0.040	0.034	£15.12	£12.65
G0.7-43	43	30.10	31.50	16	6	0.042	0.036	£15.14	£12.66
G0.7-44	44	30.80	32.20	16	6	0.043	0.037	£15.19	£12.68
G0.7-45	45	31.50	32.90	16	6	0.045	0.039	£15.23	£12.69
G0.7-46	46	32.20	33.60	16	6	0.047	0.040	£15.36	£12.75
G0.7-47	47	32.90	34.30	16	6	0.048	0.042	£15.38	£12.77
G0.7-48	48	33.60	35.00	16	6	0.050	0.044	£15.41	£12.83
G0.7-49	49	34.30	35.70	16	6	0.052	0.045	£15.47	£12.84
G0.7-50	50	35.00	36.40	16	6	0.053	0.047	£15.55	£12.95
G0.7-51	51	35.70	37.10	16	6	0.055	0.049	£15.61	£13.02
G0.7-52	52	36.40	37.80	16	6	0.057	0.051	£15.70	£13.03
G0.7-53	53	37.10	38.50	16	6	0.059	0.053	£15.77	£13.13
G0.7-54	54	37.80	39.20	16	6	0.061	0.055	£15.83	£13.19
G0.7-55	55	38.50	39.90	16	6	0.063	0.056	£15.90	£13.26
G0.7-56	56	39.20	40.60	16	6	0.065	0.058	£15.95	£13.30
G0.7-57	57	39.90	41.30	16	6	0.067	0.060	£16.04	£13.37
G0.7-58	58	40.60	42.00	16	6	0.069	0.062	£16.13	£13.40
G0.7-59	59	41.30	42.70	16	6	0.071	0.065	£16.19	£13.46
G0.7-60	60	42.00	43.40	16	6	0.073	0.067	£16.24	£13.54
G0.7-61	61	42.70	44.10	16	6	0.075	0.069	£16.29	£13.59
G0.7-62	62	43.40	44.80	16	6	0.077	0.071	£16.35	£13.64
G0.7-63	63	44.10	45.50	16	6	0.079	0.073	£16.38	£13.70
G0.7-64	64	44.80	46.20	16	6	0.082	0.075	£16.45	£13.75
G0.7-66	66	46.20	47.60	16	6	0.086	0.080	£16.60	£13.82
G0.7-68	68	47.60	49.00	16	6	0.091	0.085	£16.72	£13.95
G0.7-70	70	49.00	50.40	16	8	0.094	0.092	£16.94	£14.08
G0.7-75	75	52.50	53.90	16	8	0.106	0.105	£17.31	£14.44
G0.7-76	76	53.20	54.60	16	8	0.109	0.107	£17.81	£14.82
G0.7-80	80	56.00	57.40	16	8	0.120	0.118	£18.12	£15.04
G0.7-86	86	60.20	61.60	16	8	0.138	0.136	£18.40	£15.07
G0.7-88	88	61.60	63.00	16	8	0.144	0.142	£18.77	£15.65
G0.7-90	90	63.00	64.40	16	8	0.150	0.149	£19.07	£15.87
G0.7-96	96	67.20	68.60	16	8	0.170	0.168	£20.92	£17.38
G0.7-100	100	70.00	71.40	16	8	0.184	0.182	£24.24	£20.20
G0.7-112	112	78.40	79.80	20	8	0.235	0.227	£27.63	£22.99
G0.7-120	120	84.00	85.40	20	8	0.268	0.260	£33.19	£27.64
G0.7-127	127	88.90	90.30	20	8	0.299	0.290	£34.03	£28.37
G0.7-128	128	89.60	91.00	20	8	0.303	0.295	£34.72	£28.90
G0.7-140	140	98.00	99.40	20	10	0.360	0.352	£37.79	£31.50
G0.7-150	150	105.00	106.40	25	10	0.422	0.403	£40.99	£34.17
G0.7-175	175	122.50	123.90	25	12	0.566	0.547	£47.24	£39.34

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

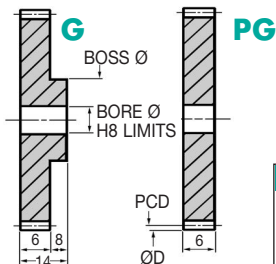
STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

0.75 MOD 20° P.A.

SPECIAL TEETH : between 10-250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.990	4.570	0.480	0.380
	K.W.	0.104	0.477	0.052	0.037



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.75-10	10	8.25	9.75	9.75	4	0.006	0.002	£10.70	£8.87
G0.75-11	11	9.00	10.50	10.50	4	0.007	0.002	£10.94	£9.08
G0.75-12	12	9.75	11.25	11.25	4	0.008	0.003	£11.12	£9.22
G0.75-13	13	9.75	11.25	11.25	5	0.008	0.003	£11.18	£9.28
G0.75-14	14	10.50	12.00	12.00	5	0.009	0.003	£11.36	£9.49
G0.75-15	15	11.25	12.75	12.00	5	0.009	0.004	£11.70	£9.76
G0.75-16	16	12.00	13.50	12.00	5	0.010	0.004	£12.07	£10.02
G0.75-17	17	12.75	14.25	12.00	5	0.011	0.005	£12.33	£10.24
G0.75-18	18	13.50	15.00	12.00	5	0.011	0.006	£12.62	£10.46
G0.75-19	19	14.25	15.75	12.00	5	0.012	0.006	£12.69	£10.57
G0.75-20	20	15.00	16.50	12.00	5	0.013	0.007	£12.83	£10.72
G0.75-21	21	15.75	17.25	12.00	5	0.014	0.008	£13.00	£10.79
G0.75-22	22	16.50	18.00	12.00	5	0.015	0.009	£13.09	£10.87
G0.75-23	23	17.25	18.75	12.00	5	0.016	0.010	£13.26	£10.99
G0.75-24	24	18.00	19.50	12.00	5	0.017	0.011	£13.37	£11.15
G0.75-25	25	18.75	20.25	12.00	5	0.017	0.012	£13.48	£11.21
G0.75-26	26	19.50	21.00	12.00	5	0.019	0.013	£13.57	£11.28
G0.75-27	27	20.25	21.75	12.00	5	0.020	0.014	£13.64	£11.35
G0.75-28	28	21.00	22.50	12.00	5	0.021	0.015	£13.75	£11.47
G0.75-29	29	21.75	23.25	12.00	5	0.022	0.016	£13.82	£11.49
G0.75-30	30	22.50	24.00	12.00	5	0.023	0.017	£13.92	£11.51
G0.75-31	31	23.25	24.70	12.00	5	0.024	0.019	£13.93	£11.53
G0.75-32	32	24.00	25.50	16.00	6	0.030	0.019	£13.95	£11.58

Spur Gears Steel - Standard MOD 0.75



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.75-33	33	24.70	26.25	16	6	0.031	0.021	£13.96	£11.59
G0.75-34	34	25.50	27.00	16	6	0.033	0.022	£13.98	£11.65
G0.75-35	35	26.25	27.75	16	6	0.034	0.024	£13.99	£11.66
G0.75-36	36	27.00	28.50	16	6	0.036	0.025	£14.05	£11.67
G0.75-37	37	27.75	29.25	16	6	0.037	0.026	£14.06	£11.70
G0.75-38	38	28.50	30.00	16	6	0.039	0.028	£14.08	£11.73
G0.75-39	39	29.25	30.75	16	6	0.040	0.030	£14.12	£11.77
G0.75-40	40	30.00	31.50	16	6	0.042	0.031	£14.15	£11.81
G0.75-41	41	30.75	32.25	16	6	0.043	0.033	£14.20	£11.84
G0.75-42	42	31.50	33.00	16	6	0.045	0.034	£14.25	£11.85
G0.75-43	43	32.25	33.75	16	6	0.047	0.036	£14.32	£11.89
G0.75-44	44	33.00	34.50	16	6	0.049	0.038	£14.33	£11.91
G0.75-45	45	33.75	35.25	16	6	0.050	0.040	£14.38	£12.04
G0.75-46	46	34.50	36.00	16	6	0.052	0.042	£14.61	£12.09
G0.75-47	47	35.25	36.75	16	6	0.054	0.044	£14.64	£12.11
G0.75-48	48	36.00	37.50	16	6	0.056	0.045	£14.67	£12.16
G0.75-49	49	36.75	38.25	16	6	0.058	0.047	£14.72	£12.23
G0.75-50	50	37.50	39.00	16	6	0.060	0.049	£14.77	£12.33
G0.75-51	51	38.25	39.75	16	6	0.062	0.051	£14.83	£12.34
G0.75-52	52	39.00	40.50	16	6	0.064	0.054	£14.95	£12.40
G0.75-53	53	39.75	41.25	16	6	0.066	0.056	£15.00	£12.50
G0.75-54	54	40.50	42.00	16	6	0.068	0.058	£15.04	£12.51
G0.75-55	55	41.25	42.75	16	6	0.071	0.060	£15.12	£12.62
G0.75-56	56	42.00	43.50	16	6	0.073	0.062	£15.18	£12.66
G0.75-57	57	42.75	44.25	16	6	0.075	0.065	£15.23	£12.68
G0.75-58	58	43.50	45.00	16	6	0.078	0.067	£15.39	£12.77
G0.75-59	59	44.25	45.75	16	6	0.080	0.069	£15.41	£12.78
G0.75-60	60	45.00	46.50	16	6	0.082	0.072	£15.45	£12.83
G0.75-61	61	45.75	47.25	16	6	0.085	0.074	£15.49	£12.84
G0.75-62	62	46.50	48.00	16	6	0.087	0.077	£15.50	£12.93
G0.75-63	63	47.25	48.75	16	6	0.090	0.079	£15.55	£12.95
G0.75-64	64	48.00	49.50	16	6	0.092	0.082	£15.65	£13.03
G0.75-65	65	48.75	50.25	16	8	0.093	0.083	£15.83	£13.14
G0.75-68	68	51.00	52.50	16	8	0.101	0.091	£16.04	£13.26
G0.75-70	70	52.50	54.00	16	8	0.106	0.097	£16.19	£13.64
G0.75-72	72	54.00	55.50	16	8	0.112	0.103	£16.65	£13.96
G0.75-75	75	56.25	57.75	16	8	0.121	0.112	£16.92	£14.06
G0.75-77	77	57.75	59.25	16	8	0.127	0.118	£16.99	£14.13
G0.75-80	80	60.00	61.50	16	8	0.137	0.128	£17.25	£14.38
G0.75-84	84	63.00	64.50	16	8	0.150	0.141	£17.81	£14.82
G0.75-86	86	64.50	66.00	16	8	0.157	0.148	£18.88	£15.33
G0.75-88	88	66.00	67.50	16	8	0.164	0.155	£20.09	£15.90
G0.75-90	90	67.50	69.00	16	8	0.171	0.162	£21.42	£16.48
G0.75-96	96	72.00	73.50	16	8	0.194	0.185	£22.71	£19.27
G0.75-100	100	75.00	76.50	16	8	0.210	0.201	£27.40	£21.06
G0.75-120	120	90.00	91.50	20	8	0.306	0.290	£32.43	£27.02
G0.75-140	140	105.00	106.50	20	10	0.411	0.395	£38.31	£31.91
G0.75-150	150	112.50	114.00	20	10	0.470	0.454	£44.85	£33.19
G0.75-180	180	135.00	136.50	30	12	0.671	0.655	£61.13	£41.03

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

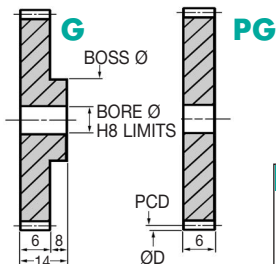
ALTERNATIVE : Brass, Tufnol or Delrin

0.8 MOD

20° P.A.

SPECIAL TEETH : between 9 - 360

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	1.000	5.000	0.540	0.450
K.W.	0.104	0.522	0.060	0.045



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							G	PG	
G0.8-9	9	8.00	9.60	9.60	5	0.006	0.002	£11.36	£9.51
G0.8-10	10	8.80	10.40	10.40	5	0.007	0.003	£11.47	£9.55
G0.8-11	11	9.60	11.20	11.20	5	0.009	0.004	£11.49	£9.61
G0.8-12	12	9.60	11.20	11.20	5	0.009	0.004	£11.56	£9.65
G0.8-13	13	10.40	12.00	12.00	5	0.011	0.005	£11.70	£9.70
G0.8-14	14	11.20	12.80	12.00	5	0.012	0.006	£11.91	£9.82
G0.8-15	15	12.00	13.60	12.00	5	0.013	0.007	£12.22	£9.94
G0.8-16	16	12.80	14.40	12.00	5	0.014	0.008	£12.51	£10.02
G0.8-17	17	13.60	15.20	12.00	5	0.015	0.010	£12.93	£10.19
G0.8-18	18	14.40	16.00	12.00	5	0.017	0.011	£13.19	£10.30
G0.8-19	19	15.20	16.80	12.00	5	0.018	0.012	£13.41	£10.42
G0.8-20	20	16.00	17.60	12.00	5	0.020	0.014	£13.46	£10.47
G0.8-21	21	16.80	18.40	12.00	5	0.021	0.015	£13.61	£10.57
G0.8-22	22	17.60	19.20	12.00	5	0.023	0.017	£13.75	£10.72
G0.8-23	23	18.40	20.00	12.00	5	0.025	0.019	£13.93	£10.79
G0.8-24	24	19.20	20.80	12.00	5	0.026	0.021	£13.99	£10.87
G0.8-25	25	20.00	21.60	12.00	5	0.028	0.023	£14.15	£10.97
G0.8-26	26	20.80	22.40	12.00	5	0.030	0.024	£14.32	£11.15
G0.8-27	27	21.60	23.20	12.00	5	0.032	0.027	£14.44	£11.20
G0.8-28	28	22.40	24.00	12.00	5	0.034	0.029	£14.50	£11.28
G0.8-29	29	23.20	24.80	12.00	5	0.037	0.031	£14.65	£11.35
G0.8-30	30	24.00	25.60	16.00	6	0.043	0.032	£14.72	£11.49
G0.8-31	31	24.80	26.40	16.00	6	0.045	0.035	£14.73	£11.65

Spur Gears Steel - Standard MOD 0.8

23.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.8-32	32	25.60	27.20	16	6	0.048	0.037	£14.77	£11.73
G0.8-33	33	26.40	28.00	16	6	0.050	0.040	£14.82	£11.85
G0.8-34	34	27.20	28.80	16	6	0.053	0.042	£14.83	£12.04
G0.8-35	35	28.00	29.60	16	6	0.056	0.045	£14.90	£12.15
G0.8-36	36	28.80	30.40	16	6	0.058	0.048	£14.95	£12.23
G0.8-37	37	29.60	31.20	16	6	0.061	0.050	£14.96	£12.39
G0.8-38	38	30.40	32.00	16	6	0.064	0.053	£15.00	£12.51
G0.8-39	39	31.20	32.80	16	6	0.067	0.056	£15.02	£12.66
G0.8-40	40	32.00	33.60	16	6	0.070	0.059	£15.07	£12.77
G0.8-41	41	32.80	34.40	16	6	0.073	0.062	£15.12	£12.93
G0.8-42	42	33.60	35.20	16	6	0.076	0.066	£15.14	£13.02
G0.8-43	43	34.40	36.00	16	6	0.080	0.069	£15.18	£13.14
G0.8-44	44	35.20	36.80	16	6	0.083	0.072	£15.19	£13.30
G0.8-45	45	36.00	37.60	16	6	0.086	0.076	£15.23	£13.41
G0.8-46	46	36.80	38.40	16	6	0.090	0.079	£15.36	£13.54
G0.8-47	47	37.60	39.20	16	6	0.093	0.083	£15.38	£13.68
G0.8-48	48	38.40	40.00	16	6	0.097	0.086	£15.41	£13.82
G0.8-49	49	39.20	40.80	16	6	0.101	0.090	£15.45	£13.95
G0.8-50	50	40.00	41.60	16	6	0.105	0.094	£15.47	£14.05
G0.8-51	51	40.80	42.40	16	6	0.108	0.098	£15.55	£14.15
G0.8-52	52	41.60	43.20	16	6	0.112	0.102	£15.65	£14.27
G0.8-53	53	42.40	44.00	16	6	0.116	0.106	£15.70	£14.36
G0.8-54	54	43.20	44.80	16	6	0.121	0.110	£15.77	£14.46
G0.8-55	55	44.00	45.60	16	6	0.125	0.114	£15.83	£14.64
G0.8-56	56	44.80	46.40	16	6	0.129	0.118	£15.90	£14.68
G0.8-57	57	45.60	47.20	16	6	0.133	0.123	£15.95	£14.77
G0.8-58	58	46.40	48.00	16	6	0.138	0.127	£16.04	£14.90
G0.8-59	59	47.20	48.80	16	6	0.142	0.132	£16.13	£15.00
G0.8-60	60	48.00	49.60	16	8	0.144	0.135	£16.19	£15.12
G0.8-61	61	48.80	50.40	16	8	0.149	0.139	£16.24	£15.19
G0.8-62	62	49.60	51.20	16	8	0.153	0.144	£16.29	£15.36
G0.8-63	63	50.40	52.00	16	8	0.158	0.149	£16.38	£15.41
G0.8-64	64	51.20	52.80	16	8	0.163	0.154	£16.45	£15.49
G0.8-66	66	52.80	54.40	16	8	0.173	0.164	£16.49	£15.61
G0.8-68	68	54.40	56.00	16	8	0.183	0.174	£16.60	£15.76
G0.8-70	70	56.00	57.60	16	8	0.194	0.185	£16.72	£15.83
G0.8-75	75	60.00	61.60	16	8	0.222	0.213	£16.94	£16.24
G0.8-76	76	60.80	62.40	16	8	0.228	0.218	£17.31	£16.72
G0.8-80	80	64.00	65.60	16	8	0.252	0.242	£17.81	£17.13
G0.8-86	86	68.80	70.40	16	8	0.290	0.281	£18.12	£17.51
G0.8-88	88	70.40	72.00	16	8	0.303	0.294	£18.40	£17.98
G0.8-90	90	72.00	73.60	20	8	0.324	0.308	£18.77	£18.40
G0.8-96	96	76.80	78.40	20	8	0.367	0.351	£19.07	£18.79
G0.8-100	100	80.00	81.60	20	8	0.397	0.381	£20.92	£19.25
G0.8-112	112	89.60	91.20	20	8	0.495	0.479	£24.24	£20.73
G0.8-120	120	96.00	97.60	20	8	0.566	0.550	£27.63	£23.99
G0.8-127	127	101.60	103.20	25	10	0.633	0.617	£33.19	£24.89
G0.8-128	128	102.40	104.00	25	10	0.653	0.626	£34.24	£28.55
G0.8-140	140	112.00	113.60	25	10	0.777	0.750	£36.19	£30.11
G0.8-150	150	120.00	121.60	25	12	0.889	0.862	£41.87	£34.84

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

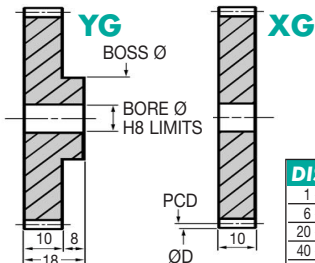
STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

0.8 MOD

20° P.A.

SPECIAL TEETH : between 9 - 360

TORQUE CHECK	655M13	655M13 Cse/HD	817M40	817M40
50 teeth x 1000 rpm				Ind/HD
variations TORQUE Nm.	4.000	11.000	4.000	5.820
at back K.W.	0.418	1.119	0.418	0.612



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG0.8-9	9	8.00	9.60	9.60	5	0.008	0.002	£14.25	£10.70
YG0.8-10	10	8.80	10.40	10.40	5	0.010	0.003	£14.29	£10.73
YG0.8-11	11	9.60	11.20	11.20	5	0.011	0.004	£14.32	£10.82
YG0.8-12	12	9.60	11.20	11.20	5	0.011	0.004	£14.36	£10.87
YG0.8-13	13	10.40	12.00	12.40	5	0.014	0.005	£14.64	£10.94
YG0.8-14	14	11.20	12.80	12.80	5	0.015	0.006	£14.90	£11.18
YG0.8-15	15	12.00	13.60	13.60	5	0.017	0.007	£15.23	£11.36
YG0.8-16	16	12.80	14.40	14.00	5	0.019	0.008	£15.61	£11.70
YG0.8-17	17	13.60	15.20	14.00	5	0.020	0.010	£16.13	£12.07
YG0.8-18	18	14.40	16.00	14.00	5	0.022	0.011	£16.45	£12.33
YG0.8-19	19	15.20	16.80	14.00	5	0.023	0.012	£16.65	£12.44
YG0.8-20	20	16.00	17.60	14.00	5	0.025	0.014	£16.81	£12.62
YG0.8-21	21	16.80	18.40	14.00	5	0.026	0.015	£16.95	£12.69
YG0.8-22	22	17.60	19.20	14.00	5	0.028	0.017	£17.18	£12.83
YG0.8-23	23	18.40	20.00	14.00	5	0.030	0.019	£17.31	£13.00
YG0.8-24	24	19.20	20.80	14.00	5	0.031	0.021	£17.48	£13.09
YG0.8-25	25	20.00	21.60	14.00	5	0.033	0.023	£17.67	£13.26
YG0.8-26	26	20.80	22.40	14.00	5	0.035	0.024	£17.87	£13.37
YG0.8-27	27	21.60	23.20	14.00	5	0.037	0.027	£17.99	£13.48
YG0.8-28	28	22.40	24.00	14.00	5	0.039	0.029	£18.12	£13.57
YG0.8-29	29	23.20	24.80	14.00	5	0.042	0.031	£18.23	£13.64
YG0.8-30	30	24.00	25.60	20.00	6	0.054	0.032	£18.37	£13.75
YG0.8-31	31	24.80	26.40	20.00	6	0.056	0.035	£18.40	£13.77

Spur Gears Steel - Heavy Duty MOD 0.8

23.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	OD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG0.8-32	32	25.60	27.20	20	6	0.058	0.037	£18.45	£13.82
YG0.8-33	33	26.40	28.00	20	6	0.061	0.040	£18.50	£13.92
YG0.8-34	34	27.20	28.80	20	6	0.063	0.042	£18.52	£13.93
YG0.8-35	35	28.00	29.60	20	6	0.066	0.045	£18.61	£13.95
YG0.8-36	36	28.80	30.40	20	6	0.069	0.048	£18.66	£13.96
YG0.8-37	37	29.60	31.20	20	6	0.072	0.050	£18.67	£13.98
YG0.8-38	38	30.40	32.00	20	6	0.075	0.053	£18.71	£13.99
YG0.8-39	39	31.20	32.80	20	6	0.078	0.056	£18.76	£14.05
YG0.8-40	40	32.00	33.60	20	6	0.081	0.059	£18.77	£14.06
YG0.8-41	41	32.80	34.40	20	6	0.084	0.062	£18.83	£14.08
YG0.8-42	42	33.60	35.20	20	6	0.087	0.066	£18.87	£14.13
YG0.8-43	43	34.40	36.00	20	6	0.090	0.069	£18.88	£14.15
YG0.8-44	44	35.20	36.80	20	6	0.093	0.072	£19.00	£14.20
YG0.8-45	45	36.00	37.60	20	6	0.097	0.076	£19.03	£14.25
YG0.8-46	46	36.80	38.40	20	6	0.100	0.079	£19.13	£14.32
YG0.8-47	47	37.60	39.20	20	6	0.104	0.083	£19.15	£14.33
YG0.8-48	48	38.40	40.00	20	6	0.108	0.086	£19.25	£14.38
YG0.8-49	49	39.20	40.80	20	6	0.111	0.090	£19.27	£14.44
YG0.8-50	50	40.00	41.60	20	6	0.115	0.094	£19.29	£14.46
YG0.8-51	51	40.80	42.40	20	6	0.119	0.098	£19.41	£14.61
YG0.8-52	52	41.60	43.20	20	6	0.123	0.102	£19.50	£14.64
YG0.8-53	53	42.40	44.00	20	6	0.127	0.106	£19.59	£14.67
YG0.8-54	54	43.20	44.80	20	6	0.131	0.110	£19.66	£14.72
YG0.8-55	55	44.00	45.60	20	6	0.135	0.114	£19.73	£14.77
YG0.8-56	56	44.80	46.40	20	6	0.140	0.118	£19.81	£14.83
YG0.8-57	57	45.60	47.20	20	6	0.144	0.123	£19.95	£14.95
YG0.8-58	58	46.40	48.00	20	6	0.148	0.127	£20.00	£15.00
YG0.8-59	59	47.20	48.80	20	6	0.153	0.132	£20.09	£15.04
YG0.8-60	60	48.00	49.60	20	6	0.157	0.136	£20.16	£15.12
YG0.8-61	61	48.80	50.40	20	6	0.162	0.141	£20.25	£15.18
YG0.8-62	62	49.60	51.20	20	6	0.167	0.146	£20.36	£15.23
YG0.8-63	63	50.40	52.00	20	6	0.172	0.151	£20.46	£15.36
YG0.8-64	64	51.20	52.80	20	6	0.177	0.155	£20.56	£15.39
YG0.8-66	66	52.80	54.40	30	8	0.210	0.164	£20.61	£15.45
YG0.8-68	68	54.40	56.00	40	8	0.254	0.174	£20.68	£15.49
YG0.8-70	70	56.00	57.60	40	8	0.265	0.185	£20.87	£15.57
YG0.8-75	75	60.00	61.60	40	8	0.293	0.213	£21.10	£15.83
YG0.8-76	76	60.80	62.40	40	8	0.299	0.218	£21.61	£16.19
YG0.8-80	80	64.00	65.60	40	8	0.323	0.242	£22.26	£16.65
YG0.8-86	86	68.80	70.40	40	8	0.361	0.281	£22.55	£16.92
YG0.8-88	88	70.40	72.00	40	8	0.374	0.294	£22.94	£17.25
YG0.8-90	90	72.00	73.60	40	8	0.388	0.308	£23.43	£17.55
YG0.8-96	96	76.80	78.40	40	8	0.431	0.351	£23.81	£17.81
YG0.8-100	100	80.00	81.60	40	8	0.461	0.381	£26.12	£19.59
YG0.8-112	112	89.60	91.20	40	8	0.559	0.479	£30.32	£22.71
YG0.8-120	120	96.00	97.60	40	8	0.630	0.550	£34.47	£25.80
YG0.8-127	127	101.60	103.20	40	10	0.697	0.617	£41.36	£31.01
YG0.8-128	128	102.40	104.00	50	10	0.750	0.624	£42.68	£32.02
YG0.8-140	140	112.00	113.60	50	10	0.873	0.748	£45.11	£34.34
YG0.8-150	150	120.00	121.60	50	12	0.985	0.859	£52.15	£39.12
YG0.8-175	175	140.00	141.60	50	12	1.298	1.172	£66.27	£49.71
YG0.8-200	200	160.00	161.60	50	15	1.658	1.533	£74.37	£55.77

Spur Gears Steel - Heavy Duty MOD 0.8

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Plastic Delrin (fully machined)

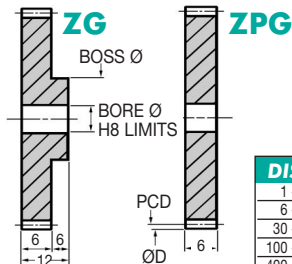
Materials

STD : White Delrin

0.8 MOD

20° P.A.

SPECIAL TEETH : between 9 - 360



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.30

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5	
							ZG	ZPG
ZG0.8-9	9	8.00	9.60	9.60	3	0.0008	£5.72	£4.35
ZG0.8-10	10	8.80	10.40	10.40	3	0.0010	£5.75	£4.36
ZG0.8-11	11	9.60	11.20	11.20	3	0.0012	£5.79	£4.38
ZG0.8-12	12	9.60	11.20	11.20	3	0.0012	£5.81	£4.40
ZG0.8-13	13	10.40	12.00	12.00	3	0.0014	£5.85	£4.42
ZG0.8-14	14	11.20	12.80	12.80	3	0.0016	£5.95	£4.57
ZG0.8-15	15	12.00	13.60	13.60	3	0.0019	£6.14	£4.62
ZG0.8-16	16	12.80	14.40	14.40	3	0.0021	£6.30	£4.79
ZG0.8-17	17	13.60	15.20	15.20	3	0.0024	£6.43	£4.97
ZG0.8-18	18	14.40	16.00	14.00	4	0.0023	£6.65	£5.06
ZG0.8-19	19	15.20	16.80	14.00	4	0.0024	£6.68	£5.09
ZG0.8-20	20	16.00	17.60	14.00	4	0.0025	£6.72	£5.19
ZG0.8-21	21	16.80	18.40	14.00	4	0.0027	£6.77	£5.22
ZG0.8-22	22	17.60	19.20	14.00	4	0.0029	£6.87	£5.25
ZG0.8-23	23	18.40	20.00	14.00	4	0.0030	£6.99	£5.33
ZG0.8-24	24	19.20	20.80	14.00	4	0.0032	£7.02	£5.36
ZG0.8-25	25	20.00	21.60	14.00	4	0.0034	£7.04	£5.46
ZG0.8-26	26	20.80	22.40	14.00	4	0.0036	£7.14	£5.48
ZG0.8-27	27	21.60	23.20	14.00	4	0.0038	£7.27	£5.52
ZG0.8-28	28	22.40	24.00	14.00	4	0.0040	£7.31	£5.54
ZG0.8-29	29	23.20	24.80	14.00	4	0.0043	£7.36	£5.58
ZG0.8-30	30	24.00	25.60	15.00	5	0.0046	£7.38	£5.59
ZG0.8-31	31	24.80	26.40	15.00	5	0.0048	£7.40	£5.60

Spur Gears Plastic MOD 0.8

23.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG0.8-32	32	25.60	27.20	15	5	0.0050	0.0038	£7.40	£5.67
ZG0.8-33	33	26.40	28.00	15	5	0.0053	0.0041	£7.43	£5.72
ZG0.8-34	34	27.20	28.80	15	5	0.0055	0.0043	£7.44	£5.73
ZG0.8-35	35	28.00	29.60	15	5	0.0058	0.0046	£7.45	£5.85
ZG0.8-36	36	28.80	30.40	15	5	0.0061	0.0049	£8.20	£6.03
ZG0.8-38	38	30.40	32.00	15	5	0.0067	0.0054	£8.27	£6.08
ZG0.8-39	39	31.20	32.80	15	5	0.0070	0.0057	£8.29	£6.32
ZG0.8-40	40	32.00	33.60	15	5	0.0073	0.0061	£8.32	£6.34
ZG0.8-41	41	32.80	34.40	15	5	0.0076	0.0064	£8.35	£6.38
ZG0.8-42	42	33.60	35.20	15	5	0.0079	0.0067	£8.36	£6.39
ZG0.8-43	43	34.40	36.00	15	5	0.0082	0.0070	£8.38	£6.40
ZG0.8-44	44	35.20	36.80	15	5	0.0086	0.0074	£8.41	£6.46
ZG0.8-45	45	36.00	37.60	15	5	0.0089	0.0077	£8.43	£6.54
ZG0.8-46	46	36.80	38.40	15	5	0.0093	0.0081	£8.45	£6.65
ZG0.8-47	47	37.60	39.20	15	5	0.0096	0.0084	£8.50	£6.71
ZG0.8-48	48	38.40	40.00	15	5	0.0100	0.0088	£9.15	£6.99
ZG0.8-49	49	39.20	40.80	15	5	0.0104	0.0092	£9.49	£7.08
ZG0.8-50	50	40.00	41.60	15	5	0.0108	0.0095	£9.68	£7.28
ZG0.8-51	51	40.80	42.40	15	5	0.0111	0.0099	£9.77	£7.37
ZG0.8-52	52	41.60	43.20	15	5	0.0115	0.0103	£9.82	£7.45
ZG0.8-53	53	42.40	44.00	15	5	0.0120	0.0107	£9.86	£7.49
ZG0.8-54	54	43.20	44.80	15	5	0.0124	0.0112	£9.94	£7.63
ZG0.8-55	55	44.00	45.60	15	5	0.0128	0.0116	£9.96	£7.63
ZG0.8-56	56	44.80	46.40	18	6	0.0137	0.0119	£9.97	£7.64
ZG0.8-57	57	45.60	47.20	18	6	0.0141	0.0124	£10.01	£7.70
ZG0.8-58	58	46.40	48.00	18	6	0.0146	0.0128	£10.04	£7.72
ZG0.8-59	59	47.20	48.80	18	6	0.0150	0.0133	£10.12	£7.73
ZG0.8-60	60	48.00	49.60	18	6	0.0155	0.0137	£10.15	£7.75
ZG0.8-61	61	48.80	50.40	18	6	0.0160	0.0142	£12.29	£9.40
ZG0.8-62	62	49.60	51.20	18	6	0.0164	0.0147	£12.33	£9.47
ZG0.8-63	63	50.40	52.00	18	6	0.0169	0.0152	£12.39	£9.48
ZG0.8-64	64	51.20	52.80	18	6	0.0174	0.0157	£12.43	£9.51
ZG0.8-66	66	52.80	54.40	18	6	0.0184	0.0167	£12.44	£9.55
ZG0.8-68	68	54.40	56.00	18	6	0.0195	0.0177	£12.52	£9.60
ZG0.8-70	70	56.00	57.60	18	6	0.0205	0.0188	£12.66	£9.65
ZG0.8-75	75	60.00	61.60	18	6	0.0233	0.0216	£14.50	£11.12
ZG0.8-76	76	60.80	62.40	18	6	0.0239	0.0222	£15.23	£11.67
ZG0.8-80	80	64.00	65.60	18	6	0.0263	0.0246	£15.48	£11.86
ZG0.8-86	86	68.80	70.40	18	6	0.0302	0.0285	£15.78	£12.08
ZG0.8-88	88	70.40	72.00	18	6	0.0316	0.0298	£15.94	£12.33
ZG0.8-90	90	72.00	73.60	22	6	0.0339	0.0312	£16.09	£12.79
ZG0.8-96	96	76.80	78.40	22	6	0.0382	0.0355	£17.34	£13.30
ZG0.8-100	100	80.00	81.60	22	8	0.0413	0.0386	£19.00	£14.63
ZG0.8-112	112	89.60	91.20	22	8	0.0511	0.0484	£24.54	£20.07
ZG0.8-120	120	96.00	97.60	30	10	0.0583	0.0556	£27.88	£21.37
ZG0.8-140	140	112.00	113.60	30	10	0.0785	0.0758	£40.21	£30.78
ZG0.8-150	150	120.00	121.60	30	12	0.0898	0.0870	£49.47	£38.85

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

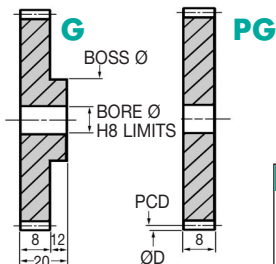
ALTERNATIVE : Brass, Tufnol or Delrin

0.9 MOD

20° P.A.

SPECIAL TEETH : between 10 - 200

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	1.910	8.820	0.920	0.730
K.W.	0.201	0.925	0.097	0.075



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.9-10	10	9.90	11.70	11.70	5	0.012	0.004	£9.47	£8.87
G0.9-11	11	10.80	12.60	12.60	5	0.014	0.004	£9.48	£8.88
G0.9-12	12	11.70	13.50	13.50	5	0.017	0.005	£9.49	£8.93
G0.9-13	13	11.70	13.50	13.50	5	0.017	0.005	£9.51	£8.94
G0.9-14	14	12.60	14.40	14.40	5	0.020	0.006	£9.55	£8.97
G0.9-15	15	13.50	15.30	15.30	5	0.023	0.008	£9.61	£9.08
G0.9-16	16	14.40	16.20	15.00	5	0.023	0.009	£9.83	£9.31
G0.9-17	17	15.30	17.10	15.00	5	0.024	0.010	£9.97	£9.51
G0.9-18	18	16.20	18.00	15.00	6	0.025	0.011	£10.19	£9.72
G0.9-19	19	17.10	18.90	15.00	6	0.026	0.012	£10.28	£9.83
G0.9-20	20	18.00	19.80	15.00	6	0.027	0.014	£10.32	£9.96
G0.9-21	21	18.90	20.70	15.00	6	0.029	0.015	£10.57	£10.19
G0.9-22	22	19.80	21.60	15.00	6	0.031	0.017	£10.75	£10.35
G0.9-23	23	20.70	22.50	15.00	6	0.033	0.019	£11.10	£10.62
G0.9-24	24	21.60	23.40	18.00	6	0.041	0.021	£11.20	£10.79
G0.9-25	25	22.50	24.30	18.00	6	0.043	0.023	£11.28	£10.97
G0.9-26	26	23.40	25.20	18.00	6	0.045	0.025	£11.33	£11.20
G0.9-27	27	24.30	26.10	18.00	6	0.047	0.027	£11.47	£11.36
G0.9-28	28	25.20	27.00	18.00	6	0.050	0.029	£11.89	£11.59
G0.9-29	29	26.10	27.90	18.00	6	0.052	0.031	£12.09	£11.70
G0.9-30	30	27.00	28.80	18.00	6	0.054	0.033	£12.33	£11.81
G0.9-31	31	27.90	29.70	18.00	6	0.056	0.036	£12.62	£12.04
G0.9-32	32	28.80	30.60	25.00	8	0.077	0.037	£12.84	£12.22

Spur Gears Steel - Standard MOD 0.9



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G0.9-33	33	29.70	31.50	25	8	0.080	0.039	£13.19	£12.40
G0.9-34	34	30.60	32.40	25	8	0.082	0.042	£13.41	£12.65
G0.9-35	35	31.50	33.30	25	8	0.085	0.045	£13.59	£12.75
G0.9-36	36	32.40	34.20	25	8	0.088	0.047	£13.75	£12.84
G0.9-37	37	33.30	35.10	25	8	0.091	0.050	£13.95	£13.02
G0.9-38	38	34.20	36.00	25	8	0.094	0.053	£14.06	£13.13
G0.9-39	39	35.10	36.90	25	8	0.097	0.056	£14.15	£13.26
G0.9-40	40	36.00	37.80	25	8	0.100	0.059	£14.25	£13.30
G0.9-41	41	36.90	38.70	25	8	0.103	0.062	£14.38	£13.41
G0.9-42	42	37.80	39.60	25	8	0.106	0.066	£14.61	£13.57
G0.9-43	43	38.70	40.50	30	8	0.129	0.069	£14.82	£13.68
G0.9-44	44	39.60	41.40	30	8	0.133	0.072	£15.07	£13.82
G0.9-45	45	40.50	42.30	30	8	0.136	0.076	£15.38	£13.98
G0.9-46	46	41.40	43.20	30	8	0.140	0.079	£15.41	£14.08
G0.9-47	47	42.30	44.10	30	8	0.143	0.083	£15.47	£14.25
G0.9-48	48	43.20	45.00	30	8	0.147	0.087	£15.50	£14.36
G0.9-49	49	44.10	45.90	30	8	0.151	0.090	£15.57	£14.44
G0.9-50	50	45.00	46.80	30	8	0.155	0.094	£15.61	£14.50
G0.9-51	51	45.90	47.70	30	8	0.159	0.098	£15.65	£14.67
G0.9-52	52	46.80	48.60	30	8	0.163	0.102	£15.76	£14.77
G0.9-53	53	47.70	49.50	30	8	0.167	0.106	£15.82	£14.95
G0.9-54	54	48.60	50.40	30	8	0.171	0.110	£15.83	£15.04
G0.9-55	55	49.50	51.30	30	8	0.175	0.115	£16.65	£15.18
G0.9-56	56	50.40	52.20	30	8	0.179	0.119	£17.44	£15.38
G0.9-57	57	51.30	53.10	30	8	0.184	0.123	£17.76	£15.49
G0.9-58	58	52.20	54.00	30	8	0.188	0.128	£17.98	£15.70
G0.9-59	59	53.10	54.90	30	8	0.193	0.132	£18.12	£15.83
G0.9-60	60	54.00	55.80	30	8	0.197	0.137	£18.18	£15.87
G0.9-61	61	54.90	56.70	30	8	0.202	0.142	£18.43	£15.95
G0.9-62	62	55.80	57.60	30	8	0.207	0.147	£18.71	£16.22
G0.9-63	63	56.70	58.50	30	8	0.212	0.151	£18.76	£16.38
G0.9-64	64	57.60	59.40	30	8	0.217	0.156	£19.04	£16.56
G0.9-65	65	58.50	60.30	40	10	0.268	0.160	£19.29	£16.77
G0.9-68	68	61.20	63.00	40	10	0.283	0.175	£20.08	£17.28
G0.9-70	70	63.00	64.80	40	10	0.294	0.186	£20.42	£17.44
G0.9-72	72	64.80	66.60	40	10	0.305	0.197	£21.38	£17.81
G0.9-75	75	67.50	69.30	40	10	0.322	0.214	£22.69	£18.30
G0.9-77	77	69.30	71.10	40	10	0.334	0.226	£23.25	£18.50
G0.9-80	80	72.00	73.80	50	10	0.418	0.244	£23.74	£18.71
G0.9-84	84	75.60	77.40	50	10	0.443	0.270	£25.40	£19.41
G0.9-86	86	77.40	79.20	50	10	0.456	0.283	£25.86	£19.66
G0.9-88	88	79.20	81.00	50	10	0.470	0.297	£26.00	£19.85
G0.9-90	90	81.00	82.80	50	10	0.484	0.311	£26.53	£19.93
G0.9-96	96	86.40	88.20	50	10	0.527	0.354	£27.40	£20.66
G0.9-100	100	90.00	91.80	50	10	0.558	0.385	£27.96	£21.77
G0.9-120	120	108.00	109.80	50	10	0.729	0.556	£39.79	£30.11
G0.9-140	140	126.00	127.80	50	12	0.932	0.759	£48.76	£38.77
G0.9-150	150	135.00	136.80	50	12	1.045	0.871	£57.59	£44.65
G0.9-180	180	162.00	163.80	50	15	1.430	1.257	£61.87	£51.60
G0.9-200	200	180.00	181.80	50	15	1.726	1.553	£79.91	£68.07

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

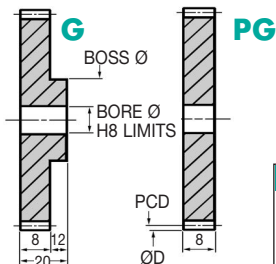
ALTERNATIVE : Brass, Tufnol or Delrin

1 MOD

20° P.A.

SPECIAL TEETH : between 9 - 448

TORQUE CHECK 50 teeth x 1000 rpm variations of back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	2.600	12.000	1.250	1.000
K.W.	0.254	1.261	0.134	0.104



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1-9	9	10	12	12	6	0.011	0.003	£10.19	£9.49
G1-10	10	11	13	13	6	0.014	0.004	£10.19	£9.51
G1-11	11	12	14	14	6	0.017	0.005	£10.22	£9.57
G1-12	12	12	14	14	6	0.017	0.005	£10.25	£9.62
G1-13	13	13	15	15	6	0.020	0.006	£10.30	£9.76
G1-14	14	14	16	15	6	0.021	0.008	£10.47	£9.96
G1-15	15	15	17	12	8	0.014	0.008	£10.72	£10.28
G1-16	16	16	18	12	8	0.015	0.009	£10.87	£10.42
G1-17	17	17	19	12	8	0.017	0.011	£11.06	£10.70
G1-18	18	18	20	15	8	0.024	0.013	£11.30	£10.87
G1-19	19	19	21	15	8	0.026	0.014	£11.49	£11.15
G1-20	20	20	22	15	8	0.028	0.016	£11.85	£11.33
G1-21	21	21	23	15	8	0.030	0.018	£11.93	£11.53
G1-22	22	22	24	15	8	0.032	0.020	£12.09	£11.77
G1-23	23	23	25	15	8	0.034	0.022	£12.15	£11.93
G1-24	24	24	26	15	8	0.036	0.025	£12.23	£12.22
G1-25	25	25	27	15	8	0.039	0.027	£12.75	£12.40
G1-26	26	26	28	15	8	0.041	0.029	£13.19	£12.66
G1-27	27	27	29	15	8	0.044	0.032	£13.46	£12.83
G1-28	28	28	30	15	8	0.046	0.035	£13.77	£13.09
G1-29	29	29	31	15	8	0.049	0.037	£14.13	£13.30
G1-30	30	30	32	20	8	0.064	0.040	£14.36	£13.48
G1-31	31	31	33	20	8	0.067	0.043	£14.61	£13.64

Spur Gears Steel - Standard MOD 1

23.28



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS ø (mm)	BORE ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1-32	32	32	34	20	8	0.070	0.046	£14.72	£13.77
G1-33	33	33	35	20	8	0.074	0.049	£14.90	£13.95
G1-34	34	34	36	20	8	0.077	0.053	£15.07	£14.05
G1-35	35	35	37	20	8	0.080	0.056	£15.23	£14.25
G1-36	36	36	38	20	8	0.083	0.059	£15.41	£14.36
G1-37	37	37	39	20	8	0.087	0.063	£15.57	£14.50
G1-38	38	38	40	20	8	0.091	0.066	£15.87	£14.67
G1-39	39	39	41	20	8	0.094	0.070	£16.17	£14.77
G1-40	40	40	42	20	8	0.098	0.074	£16.44	£14.96
G1-41	41	41	43	20	8	0.102	0.078	£16.48	£15.12
G1-42	42	42	44	20	8	0.106	0.082	£16.56	£15.23
G1-43	43	43	45	20	8	0.110	0.086	£16.65	£15.39
G1-44	44	44	46	20	8	0.114	0.090	£16.72	£15.49
G1-45	45	45	47	20	8	0.119	0.094	£16.77	£15.70
G1-46	46	46	48	20	8	0.123	0.099	£16.83	£15.83
G1-47	47	47	49	20	8	0.127	0.103	£16.92	£15.95
G1-48	48	48	50	20	8	0.132	0.108	£16.94	£16.13
G1-49	49	49	51	20	8	0.137	0.112	£17.81	£16.24
G1-50	50	50	52	30	10	0.173	0.115	£18.69	£16.44
G1-51	51	51	53	30	10	0.178	0.120	£18.98	£16.60
G1-52	52	52	54	30	10	0.183	0.125	£19.25	£16.81
G1-53	53	53	55	30	10	0.188	0.130	£19.46	£16.95
G1-54	54	54	56	30	10	0.193	0.135	£19.72	£17.25
G1-55	55	55	57	30	10	0.198	0.141	£20.08	£17.34
G1-56	56	56	58	30	10	0.204	0.146	£20.09	£17.51
G1-57	57	57	59	30	10	0.209	0.151	£20.42	£17.77
G1-58	58	58	60	30	10	0.215	0.157	£20.66	£17.89
G1-59	59	59	61	30	10	0.220	0.163	£20.91	£18.13
G1-60	60	60	62	30	10	0.226	0.168	£21.15	£18.37
G1-61	61	61	63	30	10	0.232	0.174	£21.42	£18.45
G1-62	62	62	64	30	10	0.238	0.180	£21.85	£18.69
G1-63	63	63	65	30	10	0.244	0.186	£22.45	£18.83
G1-64	64	64	66	30	10	0.250	0.192	£22.85	£19.07
G1-65	65	65	67	30	10	0.256	0.198	£23.42	£19.25
G1-66	66	66	68	30	10	0.262	0.205	£23.88	£19.41
G1-68	68	68	70	30	10	0.275	0.218	£24.61	£19.62
G1-70	70	70	72	30	10	0.288	0.231	£25.12	£19.77
G1-72	72	72	74	30	10	0.302	0.244	£25.66	£20.08
G1-73	73	73	75	30	10	0.309	0.251	£26.33	£20.25
G1-74	74	74	76	30	10	0.316	0.258	£27.02	£20.56
G1-76	76	76	78	30	10	0.331	0.273	£27.39	£20.73
G1-78	78	78	80	30	10	0.345	0.288	£27.79	£21.07
G1-80	80	80	82	30	10	0.361	0.303	£28.37	£21.32
G1-84	84	84	86	30	10	0.392	0.334	£28.76	£21.58
G1-88	88	88	90	30	10	0.425	0.368	£29.38	£22.45
G1-90	90	90	92	30	10	0.442	0.385	£30.32	£23.87
G1-96	96	96	98	30	10	0.496	0.438	£33.58	£25.22
G1-100	100	100	102	30	10	0.534	0.476	£34.02	£28.37
G1-112	112	112	114	30	10	0.656	0.598	£42.58	£32.40
G1-120	120	120	122	30	12	0.745	0.688	£48.18	£40.15
G1-130	130	130	132	30	12	0.865	0.808	£54.62	£45.58
G1-150	150	150	152	40	15	1.135	1.077	£64.10	£53.42

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

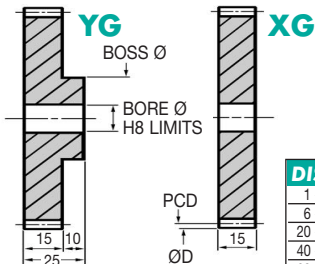
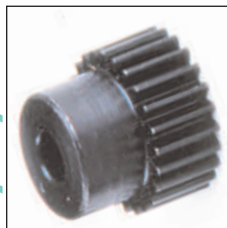
STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

1 MOD

20° P.A.

SPECIAL TEETH : between 9 - 448

TORQUE CHECK	655M13	655M13 Cse/HD	817M40	817M40
50 teeth x 1000 rpm				
variations TORQUE Nm.	10.600	29.300	10.600	15.520
at back K.W.	1.119	3.074	1.119	1.626



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1-9	9	10.00	12.00	12	6	0.017	0.006	£12.66	£9.47
YG1-10	10	11.00	13.00	13	6	0.020	0.008	£12.68	£9.48
YG1-11	11	12.00	14.00	14	6	0.024	0.010	£12.75	£9.51
YG1-12	12	12.00	14.00	14	6	0.024	0.010	£12.77	£9.55
YG1-13	13	13.00	15.00	15	6	0.028	0.012	£12.84	£9.61
YG1-14	14	14.00	16.00	16	6	0.032	0.014	£13.13	£9.83
YG1-15	15	15.00	17.00	17	6	0.037	0.017	£13.31	£9.97
YG1-16	16	16.00	18.00	18	8	0.041	0.017	£13.59	£10.19
YG1-17	17	17.00	19.00	18	8	0.044	0.020	£13.82	£10.32
YG1-18	18	18.00	20.00	18	8	0.047	0.023	£14.08	£10.57
YG1-19	19	19.00	21.00	18	8	0.051	0.027	£14.33	£10.75
YG1-20	20	20.00	22.00	20	8	0.059	0.030	£14.82	£11.10
YG1-21	21	21.00	23.00	20	8	0.063	0.034	£14.96	£11.20
YG1-22	22	22.00	24.00	20	8	0.066	0.038	£15.07	£11.28
YG1-23	23	23.00	25.00	20	8	0.071	0.042	£15.14	£11.33
YG1-24	24	24.00	26.00	20	8	0.075	0.046	£15.33	£11.47
YG1-25	25	25.00	27.00	20	8	0.079	0.051	£15.90	£11.89
YG1-26	26	26.00	28.00	25	8	0.097	0.055	£16.45	£12.33
YG1-27	27	27.00	29.00	25	8	0.102	0.060	£16.81	£12.62
YG1-28	28	28.00	30.00	25	8	0.107	0.065	£17.25	£12.84
YG1-29	29	29.00	31.00	25	8	0.112	0.070	£17.62	£13.19
YG1-30	30	30.00	32.00	25	8	0.117	0.075	£17.90	£13.41
YG1-31	31	31.00	33.00	25	8	0.123	0.081	£18.13	£13.59

Spur Gears Steel - Heavy Duty MOD 1

23.30



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1-32	32	32.00	34.00	25	8	0.129	0.087	£18.37	£13.75
YG1-33	33	33.00	35.00	25	8	0.135	0.092	£18.61	£13.95
YG1-34	34	34.00	36.00	25	8	0.141	0.098	£18.77	£14.06
YG1-35	35	35.00	37.00	25	8	0.147	0.105	£19.03	£14.25
YG1-36	36	36.00	38.00	30	8	0.170	0.111	£19.25	£14.38
YG1-37	37	37.00	39.00	30	8	0.176	0.118	£19.42	£14.61
YG1-38	38	38.00	40.00	30	8	0.183	0.124	£19.77	£14.82
YG1-39	39	39.00	41.00	30	8	0.190	0.131	£20.12	£15.07
YG1-40	40	40.00	42.00	30	8	0.197	0.138	£20.47	£15.38
YG1-41	41	41.00	43.00	30	8	0.204	0.146	£20.59	£15.41
YG1-42	42	42.00	44.00	30	8	0.212	0.153	£20.66	£15.47
YG1-43	43	43.00	45.00	30	8	0.220	0.161	£20.70	£15.50
YG1-44	44	44.00	46.00	30	8	0.227	0.169	£20.87	£15.57
YG1-45	45	45.00	47.00	30	8	0.235	0.177	£20.92	£15.65
YG1-46	46	46.00	48.00	30	8	0.244	0.185	£20.96	£15.76
YG1-47	47	47.00	49.00	30	8	0.252	0.193	£21.09	£15.82
YG1-48	48	48.00	50.00	30	8	0.261	0.202	£21.10	£15.83
YG1-49	49	49.00	51.00	30	8	0.269	0.211	£22.26	£16.65
YG1-50	50	50.00	52.00	35	10	0.297	0.216	£23.30	£17.44
YG1-51	51	51.00	53.00	35	10	0.307	0.225	£23.67	£17.76
YG1-52	52	52.00	54.00	35	10	0.316	0.235	£23.95	£17.98
YG1-53	53	53.00	55.00	35	10	0.325	0.244	£24.32	£18.18
YG1-54	54	54.00	56.00	35	10	0.335	0.254	£24.61	£18.43
YG1-55	55	55.00	57.00	35	10	0.345	0.264	£25.03	£18.71
YG1-56	56	56.00	58.00	35	10	0.355	0.274	£25.05	£18.76
YG1-57	57	57.00	59.00	35	10	0.365	0.284	£25.40	£19.04
YG1-58	58	58.00	60.00	35	10	0.375	0.294	£25.77	£19.29
YG1-59	59	59.00	61.00	35	10	0.386	0.305	£26.09	£19.58
YG1-60	60	60.00	62.00	35	10	0.397	0.316	£26.37	£19.73
YG1-61	61	61.00	63.00	35	10	0.408	0.326	£26.74	£20.08
YG1-62	62	62.00	64.00	35	10	0.419	0.338	£27.24	£20.42
YG1-63	63	63.00	65.00	35	10	0.430	0.349	£28.01	£20.96
YG1-64	64	64.00	66.00	35	10	0.441	0.360	£28.55	£21.38
YG1-65	65	65.00	67.00	35	10	0.453	0.372	£29.26	£21.91
YG1-66	66	66.00	68.00	35	10	0.465	0.384	£29.81	£22.36
YG1-68	68	68.00	70.00	35	10	0.489	0.408	£30.73	£22.99
YG1-70	70	70.00	72.00	35	10	0.514	0.433	£31.32	£23.47
YG1-72	72	72.00	74.00	35	10	0.539	0.458	£31.99	£23.92
YG1-73	73	73.00	75.00	35	10	0.553	0.471	£33.31	£24.63
YG1-74	74	74.00	76.00	45	10	0.614	0.485	£33.64	£25.22
YG1-76	76	76.00	78.00	45	10	0.641	0.512	£34.13	£25.59
YG1-78	78	78.00	80.00	45	10	0.669	0.539	£34.61	£25.97
YG1-80	80	80.00	82.00	45	10	0.697	0.568	£35.33	£26.53
YG1-84	84	84.00	86.00	45	10	0.756	0.627	£35.89	£26.89
YG1-88	88	88.00	90.00	45	10	0.818	0.689	£36.72	£27.51
YG1-90	90	90.00	92.00	45	10	0.850	0.721	£37.76	£28.31
YG1-96	96	96.00	98.00	45	10	0.951	0.822	£41.88	£31.33
YG1-100	100	100.00	102.00	45	10	1.022	0.892	£42.40	£31.77
YG1-112	112	112.00	114.00	45	10	1.251	1.122	£48.80	£36.55
YG1-120	120	120.00	122.00	45	12	1.418	1.289	£60.07	£45.02
YG1-130	130	130.00	132.00	45	12	1.644	1.515	£68.15	£51.09
YG1-150	150	150.00	152.00	45	15	2.149	2.019	£79.88	£59.90

Spur Gears Steel - Heavy Duty MOD 1

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

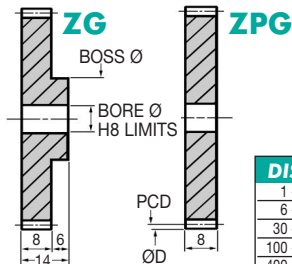
1 MOD

20° P.A.

SPECIAL TEETH : between 9 - 448



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.70



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

Spur Gears Plastic MOD 1

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							ZG	ZPG	
ZG1-9	9	10.00	12.00	12	4	0.001	0.001	£5.06	£3.89
ZG1-10	10	11.00	13.00	12	4	0.002	0.001	£5.08	£3.90
ZG1-11	11	12.00	14.00	12	4	0.002	0.001	£5.10	£3.96
ZG1-12	12	12.00	14.00	12	4	0.002	0.001	£5.12	£3.96
ZG1-13	13	13.00	15.00	12	4	0.002	0.001	£5.19	£3.99
ZG1-14	14	14.00	16.00	12	4	0.002	0.001	£5.25	£4.01
ZG1-15	15	15.00	17.00	12	4	0.002	0.002	£5.33	£4.08
ZG1-16	16	16.00	18.00	15	6	0.003	0.002	£5.48	£4.14
ZG1-17	17	17.00	19.00	15	6	0.003	0.002	£5.54	£4.24
ZG1-18	18	18.00	20.00	15	6	0.003	0.002	£5.67	£4.27
ZG1-19	19	19.00	21.00	15	6	0.004	0.003	£5.72	£4.38
ZG1-20	20	20.00	22.00	15	6	0.004	0.003	£5.90	£4.53
ZG1-21	21	21.00	23.00	18	6	0.005	0.003	£5.95	£4.57
ZG1-22	22	22.00	24.00	18	6	0.005	0.004	£6.03	£4.61
ZG1-23	23	23.00	25.00	18	6	0.006	0.004	£6.06	£4.62
ZG1-24	24	24.00	26.00	18	6	0.006	0.004	£6.14	£4.73
ZG1-25	25	25.00	27.00	18	6	0.007	0.005	£6.38	£4.83
ZG1-26	26	26.00	28.00	18	6	0.007	0.005	£6.65	£5.06
ZG1-27	27	27.00	29.00	18	6	0.007	0.006	£6.72	£5.19
ZG1-28	28	28.00	30.00	18	6	0.008	0.006	£6.87	£5.25
ZG1-29	29	29.00	31.00	18	6	0.008	0.007	£7.04	£5.46
ZG1-30	30	30.00	32.00	18	6	0.009	0.007	£7.27	£5.52
ZG1-31	31	31.00	33.00	18	6	0.009	0.007	£8.02	£6.14

23.32



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG1-32	32	32.00	34.00	18	6	0.010	0.008	£8.12	£6.20
ZG1-33	33	33.00	35.00	18	6	0.010	0.009	£8.20	£6.32
ZG1-34	34	34.00	36.00	18	6	0.011	0.009	£8.35	£6.38
ZG1-35	35	35.00	37.00	18	6	0.011	0.010	£8.45	£6.39
ZG1-36	36	36.00	38.00	18	6	0.012	0.010	£8.50	£6.51
ZG1-38	38	38.00	40.00	18	6	0.013	0.011	£8.73	£6.72
ZG1-39	39	39.00	41.00	18	6	0.014	0.012	£10.15	£7.75
ZG1-40	40	40.00	42.00	18	6	0.014	0.013	£10.30	£7.87
ZG1-42	42	42.00	44.00	18	6	0.016	0.014	£10.42	£7.94
ZG1-43	43	43.00	45.00	18	6	0.016	0.015	£10.47	£8.01
ZG1-44	44	44.00	46.00	18	6	0.017	0.015	£10.50	£8.02
ZG1-45	45	45.00	47.00	18	6	0.018	0.016	£10.54	£8.10
ZG1-46	46	46.00	48.00	18	6	0.019	0.017	£10.58	£8.11
ZG1-47	47	47.00	49.00	18	6	0.019	0.018	£10.62	£8.12
ZG1-48	48	48.00	50.00	18	6	0.020	0.018	£12.78	£9.82
ZG1-50	50	50.00	52.00	22	8	0.022	0.020	£14.08	£10.79
ZG1-51	51	51.00	53.00	22	8	0.023	0.020	£14.29	£10.97
ZG1-52	52	52.00	54.00	22	8	0.024	0.021	£14.63	£11.12
ZG1-53	53	53.00	55.00	22	8	0.025	0.022	£14.72	£11.28
ZG1-54	54	54.00	56.00	22	8	0.026	0.023	£14.90	£11.47
ZG1-55	55	55.00	57.00	22	8	0.026	0.024	£15.14	£11.56
ZG1-56	56	56.00	58.00	22	8	0.027	0.025	£15.18	£11.59
ZG1-58	58	58.00	60.00	22	8	0.029	0.027	£15.57	£11.96
ZG1-59	59	59.00	61.00	22	8	0.030	0.028	£17.88	£13.75
ZG1-60	60	60.00	62.00	22	8	0.031	0.029	£18.13	£13.95
ZG1-61	61	61.00	63.00	22	8	0.032	0.030	£18.40	£14.08
ZG1-62	62	62.00	64.00	22	8	0.033	0.031	£18.69	£14.35
ZG1-63	63	63.00	65.00	22	8	0.034	0.032	£19.25	£14.74
ZG1-64	64	64.00	66.00	22	8	0.035	0.033	£19.60	£15.00
ZG1-65	65	65.00	67.00	22	8	0.036	0.034	£20.08	£15.38
ZG1-66	66	66.00	68.00	22	8	0.037	0.035	£20.47	£15.68
ZG1-68	68	68.00	70.00	22	8	0.039	0.037	£21.09	£16.18
ZG1-70	70	70.00	72.00	22	8	0.042	0.039	£21.52	£16.55
ZG1-72	72	72.00	74.00	22	8	0.044	0.041	£21.98	£16.81
ZG1-73	73	73.00	75.00	22	8	0.045	0.043	£22.66	£17.28
ZG1-74	74	74.00	76.00	22	8	0.046	0.044	£24.54	£18.79
ZG1-76	76	76.00	78.00	22	8	0.049	0.046	£24.86	£19.04
ZG1-78	78	78.00	80.00	22	8	0.051	0.049	£25.22	£19.36
ZG1-80	80	80.00	82.00	22	8	0.054	0.051	£25.74	£19.71
ZG1-84	84	84.00	86.00	22	8	0.059	0.056	£26.11	£20.00
ZG1-88	88	88.00	90.00	22	8	0.065	0.062	£26.68	£20.47
ZG1-90	90	90.00	92.00	26	8	0.069	0.065	£30.55	£23.45
ZG1-96	96	96.00	98.00	26	8	0.078	0.074	£33.88	£25.97
ZG1-100	100	100.00	102.00	30	10	0.084	0.080	£37.76	£28.98
ZG1-112	112	112.00	114.00	30	10	0.105	0.101	£47.29	£36.24
ZG1-120	120	120.00	122.00	40	12	0.120	0.116	£58.32	£44.73
ZG1-130	130	130.00	132.00	40	12	0.140	0.136	£71.69	£53.01
ZG1-140	140	140.00	142.00	40	12	0.162	0.158	£88.35	£70.69

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

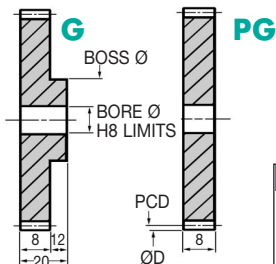
ALTERNATIVE : Brass, Tufnol or Delrin

1.25 MOD 20° P.A.

SPECIAL TEETH : between 9 - 350



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations of back	TORQUE Nm. 3.800	18.000	1.900	1.520
	K.W.	0.400	1.890	0.190



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1.25-9	9	12.50	15.00	15.00	6	0.019	0.006	£13.13	£11.18
G1.25-10	10	13.75	16.25	16.25	6	0.024	0.007	£13.19	£11.25
G1.25-11	11	15.00	17.50	17.50	6	0.029	0.009	£13.28	£11.30
G1.25-12	12	15.00	17.50	17.50	6	0.029	0.009	£13.32	£11.40
G1.25-13	13	16.25	18.75	18.25	6	0.032	0.011	£13.75	£12.09
G1.25-14	14	17.50	20.00	20.00	6	0.039	0.013	£13.99	£12.40
G1.25-15	15	18.75	21.25	12.00	6	0.023	0.015	£14.27	£12.75
G1.25-16	16	20.00	22.50	12.00	8	0.022	0.016	£14.72	£13.26
G1.25-17	17	21.25	23.75	12.00	8	0.024	0.019	£15.12	£13.48
G1.25-18	18	22.50	25.00	15.00	8	0.033	0.021	£15.49	£13.75
G1.25-19	19	23.75	26.25	15.00	8	0.036	0.024	£16.13	£13.95
G1.25-20	20	25.00	27.50	15.00	8	0.039	0.027	£16.29	£14.05
G1.25-21	21	26.25	28.75	15.00	8	0.042	0.030	£16.56	£14.13
G1.25-22	22	27.50	30.00	15.00	8	0.045	0.033	£16.72	£14.15
G1.25-23	23	28.75	31.25	15.00	8	0.048	0.037	£16.94	£14.25
G1.25-24	24	30.00	32.50	15.00	8	0.052	0.040	£17.25	£14.27
G1.25-25	25	31.25	33.75	15.00	8	0.055	0.044	£17.59	£14.50
G1.25-26	26	32.50	35.00	15.00	8	0.059	0.048	£17.80	£14.72
G1.25-27	27	33.75	36.25	15.00	8	0.063	0.052	£18.18	£14.83
G1.25-28	28	35.00	37.50	15.00	8	0.067	0.056	£19.00	£15.00
G1.25-29	29	36.25	38.75	15.00	8	0.072	0.060	£19.46	£15.12
G1.25-30	30	37.50	40.00	20.00	8	0.089	0.065	£20.11	£15.23
G1.25-31	31	38.75	41.25	20.00	8	0.093	0.069	£20.56	£15.36

Spur Gears Steel - Standard MOD 1.25



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1.25-32	32	40.00	42.50	20	8	0.098	0.074	£20.95	£15.39
G1.25-33	33	41.25	43.75	20	8	0.103	0.079	£21.37	£15.45
G1.25-34	34	42.50	45.00	20	8	0.108	0.084	£21.65	£15.49
G1.25-35	35	43.75	46.25	20	8	0.113	0.089	£22.12	£15.57
G1.25-36	36	45.00	47.50	20	8	0.119	0.094	£22.42	£15.65
G1.25-37	37	46.25	48.75	20	8	0.124	0.100	£22.66	£15.77
G1.25-38	38	47.50	50.00	20	8	0.130	0.105	£22.81	£15.90
G1.25-39	39	48.75	51.25	20	8	0.135	0.111	£23.15	£15.97
G1.25-40	40	50.00	52.50	30	10	0.173	0.115	£23.31	£16.13
G1.25-41	41	51.25	53.75	30	10	0.179	0.121	£23.43	£16.24
G1.25-42	42	52.50	55.00	30	10	0.185	0.128	£23.54	£16.38
G1.25-43	43	53.75	56.25	30	10	0.192	0.134	£23.67	£16.49
G1.25-44	44	55.00	57.50	30	10	0.198	0.141	£23.80	£16.72
G1.25-45	45	56.25	58.75	30	10	0.205	0.147	£23.87	£16.83
G1.25-46	46	57.50	60.00	30	10	0.212	0.154	£23.92	£16.95
G1.25-47	47	58.75	61.25	30	10	0.219	0.161	£24.10	£17.13
G1.25-48	48	60.00	62.50	30	10	0.226	0.168	£24.19	£17.28
G1.25-49	49	61.25	63.75	30	10	0.233	0.176	£24.70	£17.67
G1.25-50	50	62.50	65.00	30	10	0.241	0.183	£24.89	£18.12
G1.25-51	51	63.75	66.25	30	10	0.248	0.191	£25.18	£18.43
G1.25-52	52	65.00	67.50	30	10	0.256	0.198	£25.40	£18.77
G1.25-53	53	66.25	68.75	30	10	0.264	0.206	£25.62	£19.13
G1.25-54	54	67.50	70.00	30	10	0.272	0.214	£25.80	£19.42
G1.25-55	55	68.75	71.25	30	10	0.280	0.222	£26.00	£19.77
G1.25-56	56	70.00	72.50	30	10	0.288	0.231	£27.13	£20.11
G1.25-57	57	71.25	73.75	30	10	0.297	0.239	£28.39	£20.42
G1.25-58	58	72.50	75.00	30	10	0.306	0.248	£28.76	£20.70
G1.25-59	59	73.75	76.25	30	10	0.314	0.257	£29.38	£21.07
G1.25-60	60	75.00	77.50	30	10	0.323	0.266	£30.05	£21.37
G1.25-61	61	76.25	78.75	30	10	0.332	0.275	£30.34	£21.70
G1.25-62	62	77.50	80.00	30	10	0.342	0.284	£30.77	£22.11
G1.25-63	63	78.75	81.25	30	10	0.351	0.293	£31.09	£22.43
G1.25-64	64	80.00	82.50	30	10	0.361	0.303	£31.42	£22.79
G1.25-65	65	81.25	83.75	30	10	0.370	0.313	£31.85	£23.20
G1.25-66	66	82.50	85.00	30	10	0.380	0.322	£32.29	£23.84
G1.25-68	68	85.00	87.50	30	10	0.400	0.343	£33.06	£24.45
G1.25-70	70	87.50	90.00	30	10	0.421	0.363	£33.63	£25.12
G1.25-72	72	90.00	92.50	30	10	0.442	0.385	£33.85	£25.52
G1.25-73	73	91.25	93.75	30	10	0.453	0.396	£33.99	£26.10
G1.25-74	74	92.50	95.00	30	10	0.464	0.407	£34.19	£26.60
G1.25-76	76	95.00	97.50	30	10	0.487	0.429	£34.77	£27.07
G1.25-78	78	97.50	100.00	30	10	0.510	0.452	£35.98	£27.57
G1.25-80	80	100.00	102.50	30	10	0.534	0.476	£38.36	£30.79
G1.25-84	84	105.00	107.50	30	10	0.583	0.525	£38.64	£31.68
G1.25-88	88	110.00	112.50	30	10	0.635	0.577	£42.56	£35.31
G1.25-90	90	112.50	115.00	30	10	0.661	0.604	£42.92	£35.54
G1.25-96	96	120.00	122.50	30	12	0.745	0.688	£49.39	£37.52
G1.25-100	100	125.00	127.50	30	12	0.804	0.746	£50.19	£38.31
G1.25-112	112	140.00	142.50	30	12	0.995	0.938	£55.52	£46.22
G1.25-120	120	150.00	152.50	40	15	1.135	1.077	£59.41	£49.49
G1.25-130	130	162.50	165.00	40	15	1.323	1.265	£66.24	£55.20
G1.25-140	140	175.00	177.50	40	15	1.525	1.468	£71.56	£59.40

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

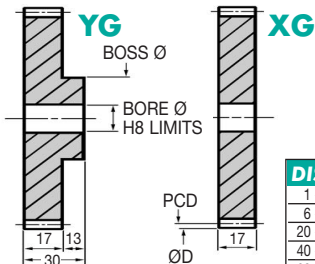
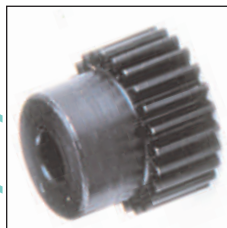
Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

1.25 MOD 20° P.A.

SPECIAL TEETH : between 9 - 350

TORQUE CHECK 50 teeth x 1000 rpm variations of back	TORQUE Nm. K.W.	655M13 Cse/HD	817M40	817M40 Ind/HD
		17.000	17.000	24.000
		1.790	1.790	2.604



DISCOUNTS	
Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1.25-9	9	12.50	15.00	15.00	6	0.027	0.012	£16.38	£12.23
YG1.25-10	10	13.75	16.25	16.25	6	0.033	0.016	£16.44	£12.34
YG1.25-11	11	15.00	17.50	17.50	6	0.040	0.019	£16.53	£12.43
YG1.25-12	12	15.00	17.50	17.50	6	0.040	0.019	£16.61	£12.56
YG1.25-13	13	16.25	18.75	18.75	6	0.048	0.023	£17.18	£12.83
YG1.25-14	14	17.50	20.00	20.00	6	0.056	0.028	£17.48	£13.09
YG1.25-15	15	18.75	21.25	20.00	6	0.061	0.032	£17.81	£13.31
YG1.25-16	16	20.00	22.50	20.00	8	0.061	0.034	£18.37	£13.75
YG1.25-17	17	21.25	23.75	20.00	8	0.066	0.040	£18.83	£14.08
YG1.25-18	18	22.50	25.00	25.00	8	0.089	0.045	£19.36	£14.50
YG1.25-19	19	23.75	26.25	25.00	8	0.095	0.051	£20.09	£15.04
YG1.25-20	20	25.00	27.50	25.00	8	0.101	0.057	£20.36	£15.23
YG1.25-21	21	26.25	28.75	25.00	8	0.108	0.064	£20.66	£15.47
YG1.25-22	22	27.50	30.00	25.00	8	0.115	0.071	£20.87	£15.57
YG1.25-23	23	28.75	31.25	25.00	8	0.122	0.078	£21.10	£15.83
YG1.25-24	24	30.00	32.50	25.00	8	0.129	0.085	£21.42	£16.05
YG1.25-25	25	31.25	33.75	25.00	8	0.137	0.093	£21.92	£16.44
YG1.25-26	26	32.50	35.00	25.00	8	0.145	0.101	£22.14	£16.60
YG1.25-27	27	33.75	36.25	25.00	8	0.154	0.110	£22.71	£16.98
YG1.25-28	28	35.00	37.50	25.00	8	0.162	0.119	£23.71	£17.77
YG1.25-29	29	36.25	38.75	25.00	8	0.172	0.128	£24.32	£18.18
YG1.25-30	30	37.50	40.00	35.00	8	0.228	0.137	£25.08	£18.77
YG1.25-31	31	38.75	41.25	35.00	8	0.238	0.147	£25.62	£19.16

Spur Gears Steel - Heavy Duty MOD 1.25

23.36



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1.25-32	32	40.00	42.50	35	8	0.248	0.157	£26.13	£19.61
YG1.25-33	33	41.25	43.75	35	8	0.258	0.167	£26.66	£19.96
YG1.25-34	34	42.50	45.00	35	8	0.269	0.178	£27.02	£20.20
YG1.25-35	35	43.75	46.25	35	8	0.280	0.189	£27.60	£20.66
YG1.25-36	36	45.00	47.50	35	8	0.291	0.200	£27.96	£20.92
YG1.25-37	37	46.25	48.75	35	8	0.303	0.212	£28.20	£21.10
YG1.25-38	38	47.50	50.00	35	8	0.315	0.224	£28.50	£21.37
YG1.25-39	39	48.75	51.25	35	8	0.327	0.236	£28.89	£21.61
YG1.25-40	40	50.00	52.50	45	10	0.396	0.245	£29.10	£21.84
YG1.25-41	41	51.25	53.75	45	10	0.409	0.258	£29.29	£21.92
YG1.25-42	42	52.50	55.00	45	10	0.422	0.271	£29.37	£22.00
YG1.25-43	43	53.75	56.25	45	10	0.435	0.285	£29.52	£22.11
YG1.25-44	44	55.00	57.50	45	10	0.449	0.299	£29.67	£22.21
YG1.25-45	45	56.25	58.75	45	10	0.463	0.313	£29.79	£22.30
YG1.25-46	46	57.50	60.00	45	10	0.478	0.328	£29.89	£22.42
YG1.25-47	47	58.75	61.25	45	10	0.493	0.342	£30.03	£22.47
YG1.25-48	48	60.00	62.50	45	10	0.508	0.358	£30.17	£22.57
YG1.25-49	49	61.25	63.75	45	10	0.523	0.373	£30.79	£23.08
YG1.25-50	50	62.50	65.00	45	10	0.539	0.389	£31.11	£23.30
YG1.25-51	51	63.75	66.25	45	10	0.555	0.405	£31.33	£23.49
YG1.25-52	52	65.00	67.50	45	10	0.572	0.421	£31.73	£23.80
YG1.25-53	53	66.25	68.75	45	10	0.589	0.438	£31.91	£23.91
YG1.25-54	54	67.50	70.00	45	10	0.606	0.455	£32.15	£24.13
YG1.25-55	55	68.75	71.25	45	10	0.623	0.473	£32.40	£24.24
YG1.25-56	56	70.00	72.50	45	10	0.641	0.490	£33.86	£25.34
YG1.25-57	57	71.25	73.75	45	10	0.659	0.508	£35.39	£26.55
YG1.25-58	58	72.50	75.00	45	10	0.677	0.527	£35.89	£26.89
YG1.25-59	59	73.75	76.25	45	10	0.696	0.545	£36.72	£27.51
YG1.25-60	60	75.00	77.50	45	10	0.715	0.564	£37.44	£28.04
YG1.25-61	61	76.25	78.75	45	10	0.734	0.584	£38.68	£28.37
YG1.25-62	62	77.50	80.00	60	10	0.877	0.603	£38.83	£28.76
YG1.25-63	63	78.75	81.25	60	10	0.897	0.623	£38.92	£29.01
YG1.25-64	64	80.00	82.50	60	10	0.917	0.644	£39.20	£29.37
YG1.25-65	65	81.25	83.75	60	10	0.938	0.664	£39.69	£29.79
YG1.25-66	66	82.50	85.00	60	10	0.959	0.685	£40.22	£30.17
YG1.25-68	68	85.00	87.50	60	10	1.001	0.728	£41.18	£30.85
YG1.25-70	70	87.50	90.00	60	10	1.045	0.772	£41.91	£31.42
YG1.25-72	72	90.00	92.50	60	10	1.091	0.817	£42.20	£31.61
YG1.25-73	73	91.25	93.75	60	10	1.114	0.841	£42.39	£31.74
YG1.25-74	74	92.50	95.00	60	10	1.137	0.864	£42.64	£31.96
YG1.25-76	76	95.00	97.50	60	10	1.185	0.912	£43.35	£32.53
YG1.25-78	78	97.50	100.00	60	10	1.234	0.961	£44.88	£33.63
YG1.25-80	80	100.00	102.50	60	10	1.285	1.011	£47.90	£35.89
YG1.25-84	84	105.00	107.50	60	10	1.390	1.116	£48.27	£36.23
YG1.25-88	88	110.00	112.50	60	10	1.499	1.226	£53.10	£39.74
YG1.25-90	90	112.50	115.00	60	10	1.556	1.283	£61.53	£40.06
YG1.25-96	96	120.00	122.50	60	12	1.734	1.461	£62.05	£44.16
YG1.25-100	100	125.00	127.50	60	12	1.860	1.586	£62.53	£46.89
YG1.25-112	112	140.00	142.50	60	12	2.266	1.992	£69.24	£51.93
YG1.25-120	120	150.00	152.50	60	15	2.562	2.289	£74.02	£55.50
YG1.25-130	130	162.50	165.00	60	15	2.961	2.688	£82.61	£61.87
YG1.25-140	140	175.00	177.50	60	15	3.392	3.119	£89.22	£66.93

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

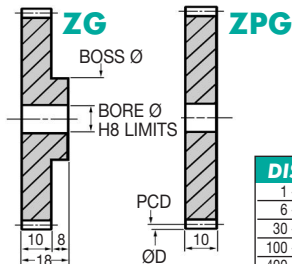
STD : White Delrin

1.25 MOD 20° P.A.

SPECIAL TEETH : between 9 - 350



TORQUE CHECK		
50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	1.00



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

Spur Gears Plastic MOD 1.25

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							ZG	ZPG	
ZG1.25-9	9	12.50	15.00	15	5	0.003	0.001	£6.61	£4.98
ZG1.25-10	10	13.75	16.25	15	5	0.003	0.002	£6.65	£5.01
ZG1.25-11	11	15.00	17.50	15	5	0.004	0.002	£6.68	£5.06
ZG1.25-12	12	15.00	17.50	15	5	0.004	0.002	£6.72	£5.10
ZG1.25-13	13	16.25	18.75	15	5	0.004	0.002	£6.87	£5.25
ZG1.25-14	14	17.50	20.00	15	5	0.004	0.003	£7.02	£5.33
ZG1.25-15	15	18.75	21.25	15	5	0.005	0.003	£7.09	£5.48
ZG1.25-16	16	20.00	22.50	16	6	0.005	0.004	£7.38	£5.58
ZG1.25-17	17	21.25	23.75	16	6	0.006	0.004	£7.63	£5.81
ZG1.25-18	18	22.50	25.00	16	6	0.007	0.005	£7.75	£5.95
ZG1.25-19	19	23.75	26.25	16	6	0.007	0.005	£8.10	£6.15
ZG1.25-20	20	25.00	27.50	16	6	0.008	0.006	£8.18	£6.30
ZG1.25-21	21	26.25	28.75	18	6	0.009	0.007	£8.29	£6.38
ZG1.25-22	22	27.50	30.00	18	6	0.010	0.007	£8.36	£6.39
ZG1.25-23	23	28.75	31.25	18	6	0.010	0.008	£9.32	£7.14
ZG1.25-24	24	30.00	32.50	18	6	0.011	0.009	£9.51	£7.31
ZG1.25-25	25	31.25	33.75	18	6	0.012	0.009	£9.68	£7.40
ZG1.25-26	26	32.50	35.00	18	6	0.013	0.010	£9.82	£7.49
ZG1.25-27	27	33.75	36.25	18	6	0.013	0.011	£10.04	£7.70
ZG1.25-28	28	35.00	37.50	18	6	0.014	0.012	£10.50	£8.02
ZG1.25-29	29	36.25	38.75	18	6	0.015	0.013	£10.76	£8.20
ZG1.25-30	30	37.50	40.00	18	6	0.016	0.014	£11.12	£8.50
ZG1.25-31	31	38.75	41.25	18	6	0.017	0.015	£12.94	£9.94

23.38



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

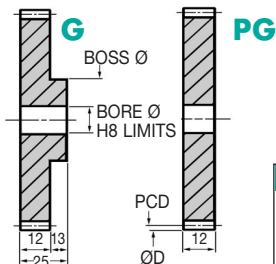
ALTERNATIVE : Brass, Tufnol or Delrin

1.5 MOD

20° P.A.

SPECIAL TEETH : between 9 - 290

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	8.88	41.500	4.440	3.550
K.W.	0.930	4.230	0.460	0.370



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1.5-9	9	15.00	18.00	18	8	0.032	0.012	£13.14	£12.16
G1.5-10	10	16.50	19.50	18	8	0.035	0.015	£13.25	£12.23
G1.5-11	11	18.00	21.00	18	8	0.039	0.019	£13.31	£12.33
G1.5-12	12	18.00	21.00	14	8	0.029	0.019	£13.37	£12.40
G1.5-13	13	19.50	22.50	15	8	0.035	0.023	£13.64	£12.65
G1.5-14	14	21.00	24.00	15	8	0.040	0.027	£13.74	£13.02
G1.5-15	15	22.50	25.50	18	8	0.052	0.032	£13.82	£13.40
G1.5-16	16	24.00	27.00	20	10	0.058	0.034	£13.96	£13.82
G1.5-17	17	25.50	28.50	20	10	0.063	0.040	£14.36	£14.25
G1.5-18	18	27.00	30.00	20	10	0.069	0.045	£14.82	£14.67
G1.5-19	19	28.50	31.50	20	10	0.075	0.051	£15.39	£14.72
G1.5-20	20	30.00	33.00	20	10	0.081	0.058	£16.17	£14.73
G1.5-21	21	31.50	34.50	20	10	0.088	0.064	£16.29	£14.83
G1.5-22	22	33.00	36.00	20	10	0.095	0.071	£16.48	£14.95
G1.5-23	23	34.50	37.50	20	10	0.102	0.079	£16.77	£15.07
G1.5-24	24	36.00	39.00	25	10	0.127	0.086	£16.94	£15.19
G1.5-25	25	37.50	40.50	25	10	0.135	0.094	£17.81	£15.23
G1.5-26	26	39.00	42.00	25	10	0.144	0.102	£18.67	£15.33
G1.5-27	27	40.50	43.50	25	10	0.152	0.111	£19.25	£15.55
G1.5-28	28	42.00	45.00	25	10	0.161	0.120	£19.81	£15.82
G1.5-29	29	43.50	46.50	25	10	0.170	0.129	£20.12	£16.12
G1.5-30	30	45.00	48.00	25	10	0.180	0.139	£20.70	£16.29
G1.5-31	31	46.50	49.50	25	10	0.190	0.149	£21.07	£16.81

Spur Gears Steel - Standard MOD 1.5

23.40



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1.5-32	32	48.00	51.00	25	10	0.200	0.159	£21.42	£16.94
G1.5-33	33	49.50	52.50	25	10	0.211	0.170	£21.65	£17.38
G1.5-34	34	51.00	54.00	25	10	0.221	0.180	£21.85	£17.59
G1.5-35	35	52.50	55.50	30	15	0.235	0.183	£22.11	£17.76
G1.5-36	36	54.00	57.00	30	15	0.247	0.194	£23.22	£17.98
G1.5-37	37	55.50	58.50	30	15	0.259	0.206	£23.74	£18.18
G1.5-38	38	57.00	60.00	30	15	0.271	0.218	£24.22	£18.45
G1.5-39	39	58.50	61.50	30	15	0.283	0.231	£24.77	£18.98
G1.5-40	40	60.00	63.00	40	15	0.351	0.243	£25.18	£19.42
G1.5-41	41	61.50	64.50	40	15	0.364	0.257	£25.31	£20.09
G1.5-42	42	63.00	66.00	40	15	0.377	0.270	£25.32	£20.66
G1.5-43	43	64.50	67.50	40	15	0.391	0.284	£25.34	£21.32
G1.5-44	44	66.00	69.00	40	15	0.405	0.298	£25.60	£21.91
G1.5-45	45	67.50	70.50	40	15	0.420	0.312	£25.86	£22.49
G1.5-46	46	69.00	72.00	40	15	0.435	0.327	£26.44	£23.15
G1.5-47	47	70.50	73.50	40	15	0.450	0.342	£27.05	£23.74
G1.5-48	48	72.00	75.00	40	15	0.465	0.358	£27.63	£24.37
G1.5-49	49	73.50	76.50	40	15	0.481	0.373	£28.89	£24.89
G1.5-50	50	75.00	78.00	40	15	0.497	0.389	£30.86	£25.59
G1.5-51	51	76.50	79.50	40	15	0.513	0.406	£31.82	£26.20
G1.5-52	52	78.00	81.00	40	15	0.530	0.423	£32.45	£26.74
G1.5-53	53	79.50	82.50	40	15	0.547	0.440	£32.98	£27.40
G1.5-54	54	81.00	84.00	40	15	0.564	0.457	£33.10	£28.02
G1.5-55	55	82.50	85.50	40	15	0.582	0.475	£33.26	£28.43
G1.5-56	56	84.00	87.00	40	15	0.600	0.493	£33.56	£28.89
G1.5-57	57	85.50	88.50	40	15	0.618	0.511	£33.86	£29.30
G1.5-58	58	87.00	90.00	40	15	0.637	0.530	£34.02	£29.72
G1.5-59	59	88.50	91.50	40	15	0.656	0.549	£34.19	£30.11
G1.5-60	60	90.00	93.00	40	15	0.675	0.568	£34.34	£30.51
G1.5-62	62	93.00	96.00	40	15	0.715	0.608	£35.02	£30.86
G1.5-64	64	96.00	99.00	40	15	0.756	0.648	£35.47	£31.32
G1.5-65	65	97.50	100.50	40	15	0.777	0.669	£36.34	£31.74
G1.5-66	66	99.00	102.00	40	15	0.798	0.691	£37.70	£32.40
G1.5-68	68	102.00	105.00	40	15	0.842	0.734	£38.54	£32.85
G1.5-70	70	105.00	108.00	40	15	0.886	0.779	£39.93	£33.20
G1.5-71	71	106.50	109.50	50	15	0.980	0.802	£40.99	£34.17
G1.5-72	72	108.00	111.00	50	15	1.003	0.825	£42.21	£35.11
G1.5-73	73	109.50	112.50	50	15	1.026	0.849	£43.22	£35.98
G1.5-74	74	111.00	114.00	50	15	1.050	0.872	£44.70	£37.29
G1.5-75	75	112.50	115.50	50	15	1.074	0.897	£45.00	£37.44
G1.5-76	76	114.00	117.00	50	15	1.099	0.921	£45.15	£37.65
G1.5-78	78	117.00	120.00	50	15	1.149	0.971	£47.44	£39.53
G1.5-80	80	120.00	123.00	50	15	1.200	1.022	£49.18	£40.98
G1.5-86	86	129.00	132.00	50	15	1.362	1.184	£52.86	£43.99
G1.5-90	90	135.00	138.00	50	15	1.476	1.298	£56.60	£47.15
G1.5-96	96	144.00	147.00	50	15	1.657	1.479	£60.38	£50.29
G1.5-98	98	147.00	150.00	50	15	1.720	1.542	£64.10	£53.42
G1.5-100	100	150.00	153.00	50	15	1.784	1.606	£68.27	£56.88
G1.5-105	105	157.50	160.50	50	15	1.951	1.773	£72.76	£60.59
G1.5-110	110	165.00	168.00	50	15	2.125	1.947	£78.49	£65.46
G1.5-115	115	172.50	175.50	50	15	2.308	2.130	£87.46	£72.88
G1.5-120	120	180.00	183.00	50	15	2.498	2.320	£97.71	£81.41

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

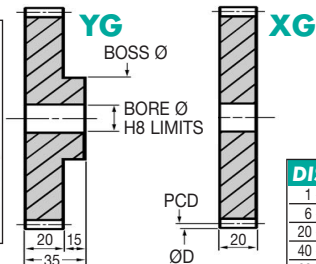
STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

1.5 MOD

20° P.A.

SPECIAL TEETH : between 9 - 290

TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
TORQUE Nm.	32.000	88.000	32.000	46.000
K.W.	3.342	8.952	3.342	4.879



DISCOUNTS	
Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1.5-9	9	15.00	18.00	18.00	8	0.043	0.019	£16.44	£12.29
YG1.5-10	10	16.50	19.50	19.50	8	0.054	0.025	£16.46	£12.33
YG1.5-11	11	18.00	21.00	21.00	8	0.065	0.031	£16.49	£12.39
YG1.5-12	12	18.00	21.00	21.00	8	0.065	0.031	£16.70	£12.44
YG1.5-13	13	19.50	22.50	20.00	8	0.068	0.038	£16.81	£12.51
YG1.5-14	14	21.00	24.00	20.00	8	0.076	0.045	£16.90	£12.62
YG1.5-15	15	22.50	25.50	20.00	8	0.083	0.053	£16.95	£12.69
YG1.5-16	16	24.00	27.00	25.00	10	0.105	0.057	£17.38	£13.03
YG1.5-17	17	25.50	28.50	25.00	10	0.113	0.066	£17.90	£13.41
YG1.5-18	18	27.00	30.00	25.00	10	0.123	0.076	£18.50	£13.92
YG1.5-19	19	28.50	31.50	25.00	10	0.133	0.086	£19.36	£14.50
YG1.5-20	20	30.00	33.00	25.00	10	0.143	0.096	£20.12	£15.07
YG1.5-21	21	31.50	34.50	25.00	10	0.155	0.107	£20.36	£15.23
YG1.5-22	22	33.00	36.00	30.00	10	0.191	0.119	£20.59	£15.41
YG1.5-23	23	34.50	37.50	30.00	10	0.203	0.131	£20.88	£15.61
YG1.5-24	24	36.00	39.00	30.00	10	0.216	0.144	£21.10	£15.83
YG1.5-25	25	37.50	40.50	30.00	10	0.229	0.157	£22.26	£16.65
YG1.5-26	26	39.00	42.00	30.00	10	0.243	0.171	£23.26	£17.38
YG1.5-27	27	40.50	43.50	30.00	10	0.257	0.185	£23.95	£17.98
YG1.5-28	28	42.00	45.00	30.00	10	0.272	0.200	£24.73	£18.52
YG1.5-29	29	43.50	46.50	30.00	10	0.288	0.215	£25.12	£18.79
YG1.5-30	30	45.00	48.00	30.00	10	0.304	0.231	£25.86	£19.36
YG1.5-31	31	46.50	49.50	30.00	10	0.320	0.248	£26.27	£19.66

Spur Gears Steel - Heavy Duty MOD 1.5

23.42



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	OD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT kg		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1.5-32	32	48.00	51.00	30	10	0.337	0.265	£26.74	£20.08
YG1.5-33	33	49.50	52.50	30	10	0.355	0.283	£27.02	£20.20
YG1.5-34	34	51.00	54.00	30	10	0.373	0.301	£27.24	£20.42
YG1.5-35	35	52.50	55.50	50	15	0.509	0.304	£27.57	£20.64
YG1.5-36	36	54.00	57.00	50	15	0.529	0.323	£28.95	£21.67
YG1.5-37	37	55.50	58.50	50	15	0.548	0.343	£29.60	£22.14
YG1.5-38	38	57.00	60.00	50	15	0.569	0.363	£30.22	£22.69
YG1.5-39	39	58.50	61.50	50	15	0.589	0.384	£30.85	£23.15
YG1.5-40	40	60.00	63.00	50	15	0.611	0.406	£31.54	£23.47
YG1.5-41	41	61.50	64.50	50	15	0.633	0.428	£31.58	£23.55
YG1.5-42	42	63.00	66.00	50	15	0.655	0.450	£31.61	£23.67
YG1.5-43	43	64.50	67.50	50	15	0.678	0.473	£31.62	£23.71
YG1.5-44	44	66.00	69.00	50	15	0.702	0.497	£31.67	£23.79
YG1.5-45	45	67.50	70.50	50	15	0.726	0.521	£32.29	£24.19
YG1.5-46	46	69.00	72.00	50	15	0.750	0.545	£32.98	£24.70
YG1.5-47	47	70.50	73.50	50	15	0.775	0.570	£33.69	£25.28
YG1.5-48	48	72.00	75.00	50	15	0.801	0.596	£34.47	£25.80
YG1.5-49	49	73.50	76.50	50	15	0.827	0.622	£35.98	£27.02
YG1.5-50	50	75.00	78.00	50	15	0.854	0.649	£39.19	£28.90
YG1.5-51	51	76.50	79.50	50	15	0.881	0.676	£39.68	£29.73
YG1.5-52	52	78.00	81.00	50	15	0.909	0.704	£40.48	£30.34
YG1.5-53	53	79.50	82.50	60	15	1.037	0.733	£41.09	£30.77
YG1.5-54	54	81.00	84.00	60	15	1.066	0.762	£41.30	£30.91
YG1.5-55	55	82.50	85.50	60	15	1.095	0.791	£41.52	£31.11
YG1.5-56	56	84.00	87.00	60	15	1.125	0.821	£41.82	£31.32
YG1.5-57	57	85.50	88.50	60	15	1.156	0.852	£42.21	£31.62
YG1.5-58	58	87.00	90.00	60	15	1.187	0.883	£42.40	£31.77
YG1.5-59	59	88.50	91.50	60	15	1.219	0.914	£42.64	£31.96
YG1.5-60	60	90.00	93.00	60	15	1.251	0.947	£42.82	£32.10
YG1.5-62	62	93.00	96.00	60	15	1.317	1.013	£43.69	£32.71
YG1.5-64	64	96.00	99.00	60	15	1.385	1.081	£44.27	£33.16
YG1.5-65	65	97.50	100.50	60	15	1.420	1.116	£45.35	£33.97
YG1.5-66	66	99.00	102.00	60	15	1.455	1.151	£46.96	£35.22
YG1.5-68	68	102.00	105.00	60	15	1.528	1.224	£47.98	£35.97
YG1.5-70	70	105.00	108.00	60	15	1.602	1.298	£49.72	£37.31
YG1.5-71	71	106.50	109.50	60	15	1.641	1.336	£51.10	£38.31
YG1.5-72	72	108.00	111.00	60	15	1.679	1.375	£52.58	£39.42
YG1.5-73	73	109.50	112.50	60	15	1.718	1.414	£53.89	£40.42
YG1.5-74	74	111.00	114.00	60	15	1.758	1.454	£55.78	£41.82
YG1.5-75	75	112.50	115.50	60	15	1.798	1.494	£56.07	£42.02
YG1.5-76	76	114.00	117.00	60	15	1.839	1.535	£56.31	£42.21
YG1.5-78	78	117.00	120.00	75	15	2.105	1.618	£59.07	£44.30
YG1.5-80	80	120.00	123.00	75	15	2.191	1.704	£61.29	£45.93
YG1.5-86	86	129.00	132.00	75	15	2.460	1.973	£65.85	£49.35
YG1.5-90	90	135.00	138.00	75	15	2.650	2.164	£70.61	£52.89
YG1.5-96	96	144.00	147.00	75	15	2.952	2.465	£75.19	£56.35
YG1.5-98	98	147.00	150.00	75	15	3.057	2.570	£79.88	£59.90
YG1.5-100	100	150.00	153.00	75	15	3.164	2.677	£85.09	£63.78
YG1.5-105	105	157.50	160.50	75	15	3.441	2.955	£90.68	£68.04
YG1.5-110	110	165.00	168.00	75	15	3.732	3.245	£97.87	£73.39
YG1.5-115	115	172.50	175.50	75	15	4.036	3.550	£108.95	£81.75
YG1.5-120	120	180.00	183.00	75	15	4.354	3.867	£121.83	£91.31

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Plastic Delrin (fully machined)

Materials

STD : White Delrin

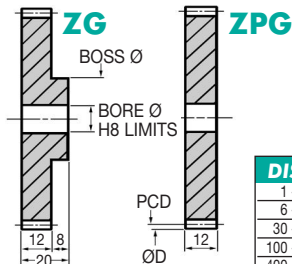
1.5 MOD

20° P.A.

SPECIAL TEETH : between 9 - 290



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 2.40



DISCOUNTS	
	List Price
1 - 5	- 22%
6 - 29	- 44%
30 - 99	- 47%
100 - 399	- 50%
400 - 999	- 53%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							ZG	ZPG	
ZG1.5-9	9	15.00	18.00	18	6	0.005	0.002	£6.20	£4.75
ZG1.5-10	10	16.50	19.50	18	6	0.005	0.003	£6.21	£4.76
ZG1.5-11	11	18.00	21.00	18	6	0.006	0.003	£6.24	£4.78
ZG1.5-12	12	18.00	21.00	18	6	0.006	0.003	£6.30	£4.79
ZG1.5-13	13	19.50	22.50	18	6	0.006	0.004	£6.44	£4.97
ZG1.5-14	14	21.00	24.00	20	8	0.007	0.005	£6.65	£5.06
ZG1.5-15	15	22.50	25.50	20	8	0.008	0.005	£6.77	£5.22
ZG1.5-16	16	24.00	27.00	20	8	0.009	0.006	£6.99	£5.33
ZG1.5-17	17	25.50	28.50	20	8	0.010	0.007	£7.27	£5.52
ZG1.5-18	18	27.00	30.00	24	8	0.012	0.008	£7.40	£5.67
ZG1.5-19	19	28.50	31.50	25	8	0.014	0.009	£8.47	£6.44
ZG1.5-20	20	30.00	33.00	25	8	0.015	0.010	£8.93	£6.77
ZG1.5-21	21	31.50	34.50	25	8	0.016	0.011	£8.96	£6.87
ZG1.5-22	22	33.00	36.00	25	8	0.017	0.012	£9.08	£6.99
ZG1.5-23	23	34.50	37.50	25	8	0.018	0.014	£9.26	£7.04
ZG1.5-24	24	36.00	39.00	25	8	0.019	0.015	£9.32	£7.14
ZG1.5-25	25	37.50	40.50	25	8	0.021	0.016	£9.86	£7.49
ZG1.5-26	26	39.00	42.00	25	8	0.022	0.017	£10.30	£7.87
ZG1.5-27	27	40.50	43.50	25	8	0.024	0.019	£12.08	£9.26
ZG1.5-28	28	42.00	45.00	25	8	0.025	0.020	£12.42	£9.55
ZG1.5-29	29	43.50	46.50	25	8	0.027	0.022	£12.68	£9.68
ZG1.5-30	30	45.00	48.00	25	8	0.028	0.024	£13.04	£9.95
ZG1.5-31	31	46.50	49.50	28	10	0.031	0.025	£13.27	£10.15

Spur Gears Plastic MOD 1.5

23.44



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG1.5-32	32	48.00	51.00	28	10	0.032	0.026	£13.49	£10.30
ZG1.5-33	33	49.50	52.50	28	10	0.034	0.028	£13.61	£10.42
ZG1.5-34	34	51.00	54.00	28	10	0.036	0.030	£16.53	£12.66
ZG1.5-35	35	52.50	55.50	28	10	0.038	0.032	£16.68	£12.78
ZG1.5-36	36	54.00	57.00	28	10	0.040	0.034	£17.52	£13.41
ZG1.5-37	37	55.50	58.50	28	10	0.042	0.036	£17.94	£13.75
ZG1.5-38	38	57.00	60.00	28	10	0.044	0.038	£20.81	£15.93
ZG1.5-39	39	58.50	61.50	28	10	0.046	0.040	£21.24	£16.25
ZG1.5-40	40	60.00	63.00	30	12	0.048	0.041	£21.62	£16.55
ZG1.5-41	41	61.50	64.50	30	12	0.050	0.044	£21.66	£16.60
ZG1.5-42	42	63.00	66.00	30	12	0.052	0.046	£21.68	£16.64
ZG1.5-43	43	64.50	67.50	30	12	0.055	0.048	£21.70	£16.65
ZG1.5-44	44	66.00	69.00	30	12	0.057	0.051	£21.71	£16.68
ZG1.5-45	45	67.50	70.50	30	12	0.060	0.053	£22.12	£16.98
ZG1.5-46	46	69.00	72.00	30	12	0.062	0.055	£22.56	£17.28
ZG1.5-47	47	70.50	73.50	30	12	0.065	0.058	£23.20	£17.76
ZG1.5-48	48	72.00	75.00	30	12	0.067	0.060	£23.64	£18.13
ZG1.5-49	49	73.50	76.50	30	12	0.070	0.063	£26.20	£20.08
ZG1.5-50	50	75.00	78.00	30	12	0.073	0.066	£28.02	£21.48
ZG1.5-51	51	76.50	79.50	36	12	0.078	0.068	£28.89	£22.12
ZG1.5-52	52	78.00	81.00	36	12	0.081	0.071	£29.43	£22.57
ZG1.5-53	53	79.50	82.50	36	12	0.084	0.074	£29.93	£22.94
ZG1.5-54	54	81.00	84.00	36	12	0.087	0.077	£30.17	£23.15
ZG1.5-55	55	82.50	85.50	36	12	0.090	0.080	£30.39	£23.28
ZG1.5-56	56	84.00	87.00	36	12	0.093	0.083	£30.43	£23.31
ZG1.5-57	57	85.50	88.50	36	12	0.096	0.086	£30.76	£23.55
ZG1.5-58	58	87.00	90.00	36	12	0.099	0.089	£30.86	£23.68
ZG1.5-59	59	88.50	91.50	36	12	0.102	0.092	£34.51	£26.44
ZG1.5-60	60	90.00	93.00	36	12	0.106	0.095	£34.63	£26.57
ZG1.5-62	62	93.00	96.00	36	12	0.112	0.102	£35.32	£27.07
ZG1.5-64	64	96.00	99.00	36	12	0.119	0.109	£35.73	£27.42
ZG1.5-65	65	97.50	100.50	36	12	0.123	0.112	£40.32	£30.88
ZG1.5-66	66	99.00	102.00	48	12	0.134	0.116	£41.82	£32.03
ZG1.5-68	68	102.00	105.00	48	12	0.142	0.123	£42.76	£32.83
ZG1.5-70	70	105.00	108.00	48	12	0.149	0.131	£44.31	£33.97
ZG1.5-71	71	106.50	109.50	48	12	0.153	0.134	£45.52	£34.93
ZG1.5-72	72	108.00	111.00	48	12	0.157	0.138	£46.86	£35.96
ZG1.5-73	73	109.50	112.50	48	12	0.161	0.142	£47.97	£36.80
ZG1.5-74	74	111.00	114.00	48	12	0.165	0.146	£49.63	£38.05
ZG1.5-75	75	112.50	115.50	48	12	0.169	0.150	£49.96	£38.30
ZG1.5-76	76	114.00	117.00	48	12	0.173	0.154	£52.59	£38.41
ZG1.5-78	78	117.00	120.00	48	12	0.182	0.163	£52.64	£40.39
ZG1.5-80	80	120.00	123.00	48	12	0.190	0.171	£59.52	£45.71
ZG1.5-86	86	129.00	132.00	48	12	0.217	0.198	£63.99	£49.12
ZG1.5-90	90	135.00	138.00	48	12	0.237	0.217	£68.57	£52.64
ZG1.5-96	96	144.00	147.00	48	12	0.267	0.247	£79.21	£60.75
ZG1.5-100	100	150.00	153.00	48	15	0.288	0.268	£91.39	£70.67

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

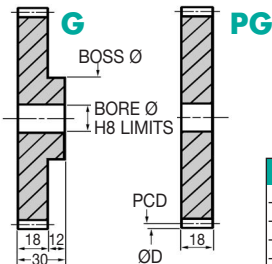
1.75 MOD 20° P.A.

SPECIAL TEETH : between 9 - 250



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations	16.000	75.000	8.000	6.400
at back	K.W.	1.720	0.860	0.670

Spur Gears Steel - Standard MOD 1.75



Popular sizes in stock.

Any two part numbers of this pitch will run together.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH	
						G	PG	G	PG
G1.75-9	9	17.50	21.00	21.00	10	0.047	0.022	£13.65	£11.12
G1.75-10	10	19.25	22.75	22.75	10	0.059	0.029	£13.70	£11.36
G1.75-11	11	21.00	24.50	24.50	10	0.073	0.037	£13.74	£11.65
G1.75-12	12	21.00	24.50	24.50	10	0.073	0.037	£13.77	£11.70
G1.75-13	13	22.75	26.25	25.00	10	0.083	0.045	£14.13	£12.04
G1.75-14	14	24.50	28.00	25.00	10	0.092	0.054	£14.95	£12.68
G1.75-15	15	26.25	29.75	25.00	10	0.102	0.064	£15.55	£13.26
G1.75-16	16	28.00	31.50	25.00	12	0.104	0.069	£15.87	£13.46
G1.75-17	17	29.75	33.25	25.00	12	0.115	0.080	£16.27	£13.82
G1.75-18	18	31.50	35.00	25.00	12	0.126	0.092	£16.98	£14.44
G1.75-19	19	33.25	36.75	25.00	12	0.139	0.104	£17.67	£15.02
G1.75-20	20	35.00	38.50	30.00	12	0.171	0.117	£18.88	£16.05
G1.75-21	21	36.75	40.25	30.00	12	0.185	0.131	£19.33	£16.44
G1.75-22	22	38.50	42.00	30.00	12	0.199	0.145	£19.62	£16.68
G1.75-23	23	40.25	43.75	30.00	12	0.214	0.160	£20.64	£17.51
G1.75-24	24	42.00	45.50	30.00	12	0.230	0.175	£21.58	£18.29
G1.75-25	25	43.75	47.25	30.00	12	0.246	0.191	£21.70	£18.43
G1.75-26	26	45.50	49.00	30.00	12	0.263	0.208	£21.85	£18.61
G1.75-27	27	47.25	50.75	30.00	12	0.280	0.226	£22.21	£18.83
G1.75-28	28	49.00	52.50	40.00	15	0.335	0.235	£22.30	£19.07
G1.75-29	29	50.75	54.25	40.00	15	0.353	0.254	£22.49	£19.15
G1.75-30	30	52.50	56.00	40.00	15	0.373	0.274	£23.15	£19.66
G1.75-31	31	54.25	57.75	40.00	15	0.393	0.294	£23.64	£20.09

23.46



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G1.75-32	32	56.00	59.50	40	15	0.414	0.315	£23.88	£20.25
G1.75-33	33	57.75	61.25	40	15	0.436	0.336	£23.99	£20.42
G1.75-34	34	59.50	63.00	40	15	0.458	0.359	£24.40	£20.70
G1.75-35	35	61.25	64.75	40	15	0.481	0.382	£24.45	£20.82
G1.75-36	36	63.00	66.50	50	15	0.569	0.405	£25.31	£21.48
G1.75-37	37	64.75	68.25	50	15	0.593	0.429	£26.44	£22.45
G1.75-38	38	66.50	70.00	50	15	0.618	0.454	£27.02	£22.94
G1.75-39	39	68.25	71.75	50	15	0.644	0.480	£27.79	£23.60
G1.75-40	40	70.00	73.50	50	15	0.670	0.506	£28.42	£24.10
G1.75-41	41	71.75	75.25	50	15	0.697	0.533	£28.84	£24.51
G1.75-42	42	73.50	77.00	50	15	0.724	0.560	£29.43	£25.07
G1.75-43	43	75.25	78.75	50	15	0.752	0.588	£30.57	£25.97
G1.75-44	44	77.00	80.50	50	15	0.781	0.617	£31.01	£26.32
G1.75-45	45	78.75	82.25	60	20	0.858	0.628	£31.43	£26.69
G1.75-46	46	80.50	84.00	60	20	0.889	0.658	£32.04	£27.24
G1.75-47	47	82.25	85.75	60	20	0.919	0.689	£32.63	£27.69
G1.75-48	48	84.00	87.50	60	20	0.951	0.720	£33.50	£28.48
G1.75-49	49	85.75	89.25	60	20	0.983	0.752	£34.75	£29.52
G1.75-50	50	87.50	91.00	60	20	1.016	0.785	£35.15	£29.85
G1.75-51	51	89.25	92.75	60	20	1.049	0.818	£36.03	£30.57
G1.75-52	52	91.00	94.50	60	20	1.083	0.853	£36.93	£31.33
G1.75-53	53	92.75	96.25	60	20	1.118	0.887	£37.84	£32.15
G1.75-54	54	94.50	98.00	80	20	1.356	0.923	£40.87	£34.63
G1.75-55	55	96.25	99.75	80	20	1.392	0.959	£42.07	£35.82
G1.75-56	56	98.00	101.50	80	20	1.428	0.996	£43.91	£37.32
G1.75-57	57	99.75	103.25	80	20	1.466	1.033	£45.35	£38.50
G1.75-58	58	101.50	105.00	80	20	1.504	1.071	£46.69	£39.68
G1.75-59	59	103.25	106.75	80	20	1.543	1.110	£48.21	£40.95
G1.75-60	60	105.00	108.50	80	20	1.582	1.149	£50.15	£42.58
G1.75-62	62	108.50	112.00	80	20	1.663	1.230	£51.37	£43.66
G1.75-64	64	112.00	115.50	80	20	1.746	1.314	£52.87	£44.97
G1.75-65	65	113.75	117.25	80	20	1.789	1.356	£54.56	£46.36
G1.75-66	66	115.50	119.00	80	20	1.833	1.400	£56.21	£47.78
G1.75-68	68	119.00	122.50	80	20	1.921	1.489	£57.87	£49.18
G1.75-70	70	122.50	126.00	100	20	2.272	1.580	£59.46	£50.49
G1.75-71	71	124.25	127.75	100	20	2.319	1.627	£60.31	£51.23
G1.75-72	72	126.00	129.50	100	20	2.367	1.674	£61.46	£52.19
G1.75-73	73	127.75	131.25	100	20	2.415	1.722	£62.32	£53.01
G1.75-74	74	129.50	133.00	100	20	2.463	1.771	£63.27	£53.81
G1.75-75	75	131.25	134.75	100	20	2.513	1.820	£64.19	£54.54
G1.75-76	76	133.00	136.50	100	20	2.563	1.870	£65.17	£55.40
G1.75-78	78	136.50	140.00	100	20	2.665	1.972	£70.23	£59.65
G1.75-80	80	140.00	143.50	100	20	2.769	2.077	£74.37	£63.14
G1.75-86	86	150.50	154.00	100	20	3.099	2.407	£83.61	£71.07
G1.75-90	90	157.50	161.00	100	20	3.333	2.640	£91.52	£76.36
G1.75-96	96	168.00	171.50	100	20	3.702	3.010	£101.27	£86.36
G1.75-98	98	171.50	175.00	100	20	3.831	3.139	£105.39	£89.57
G1.75-100	100	175.00	178.50	100	20	3.962	3.270	£110.00	£93.49
G1.75-105	105	183.75	187.25	100	20	4.302	3.609	£115.73	£95.16
G1.75-110	110	192.50	196.00	100	20	4.658	3.965	£120.77	£97.09
G1.75-115	115	201.25	204.75	100	20	5.031	4.338	£127.84	£108.68
G1.75-120	120	210.00	213.50	100	20	5.420	4.727	£134.43	£114.30

Spur Gears Steel - Standard MOD 1.75

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) and torque x
0.47 of 655M13(En36)

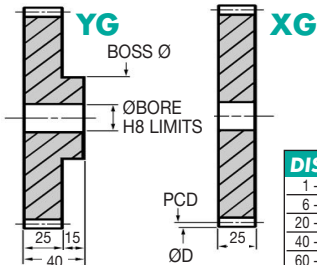
1.75 MOD 20° P.A.

SPECIAL TEETH : between 9 - 250



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations	48.000	132.000	48.000	69.000
at back	K.W.	4.998	13.801	4.998
			4.998	7.162

Spur Gears Steel - Heavy Duty MOD 1.75



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1.75-9	9	17.50	21.00	21.00	10	0.062	0.031	£17.28	£14.67
YG1.75-10	10	19.25	22.75	22.75	10	0.078	0.041	£17.30	£14.69
YG1.75-11	11	21.00	24.50	24.50	10	0.096	0.051	£17.34	£14.73
YG1.75-12	12	21.00	24.50	24.50	10	0.096	0.051	£17.38	£14.77
YG1.75-13	13	22.75	26.25	25.00	10	0.110	0.063	£17.76	£15.04
YG1.75-14	14	24.50	28.00	25.00	10	0.122	0.075	£18.69	£15.87
YG1.75-15	15	26.25	29.75	25.00	10	0.136	0.089	£19.50	£16.56
YG1.75-16	16	28.00	31.50	25.00	12	0.140	0.096	£19.85	£16.90
YG1.75-17	17	29.75	33.25	25.00	12	0.155	0.111	£20.42	£17.31
YG1.75-18	18	31.50	35.00	25.00	12	0.171	0.127	£21.32	£18.09
YG1.75-19	19	33.25	36.75	25.00	12	0.188	0.144	£22.14	£18.79
YG1.75-20	20	35.00	38.50	30.00	12	0.231	0.162	£23.67	£20.09
YG1.75-21	21	36.75	40.25	30.00	12	0.249	0.181	£24.21	£20.59
YG1.75-22	22	38.50	42.00	30.00	12	0.269	0.201	£24.58	£20.88
YG1.75-23	23	40.25	43.75	30.00	12	0.290	0.222	£25.81	£21.96
YG1.75-24	24	42.00	45.50	30.00	12	0.312	0.243	£27.02	£22.90
YG1.75-25	25	43.75	47.25	30.00	12	0.334	0.266	£27.18	£23.08
YG1.75-26	26	45.50	49.00	30.00	12	0.358	0.289	£27.33	£23.22
YG1.75-27	27	47.25	50.75	30.00	12	0.382	0.314	£27.79	£23.60
YG1.75-28	28	49.00	52.50	40.00	15	0.451	0.327	£27.91	£23.71
YG1.75-29	29	50.75	54.25	40.00	15	0.477	0.353	£28.15	£23.92
YG1.75-30	30	52.50	56.00	40.00	15	0.504	0.380	£28.97	£24.61
YG1.75-31	31	54.25	57.75	40.00	15	0.532	0.408	£29.60	£25.12

23.48



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG1.75-32	32	56.00	59.50	40	15	0.561	0.437	£29.89	£25.40
YG1.75-33	33	57.75	61.25	40	15	0.591	0.467	£30.05	£25.58
YG1.75-34	34	59.50	63.00	40	15	0.622	0.498	£30.55	£25.97
YG1.75-35	35	61.25	64.75	40	15	0.654	0.530	£30.61	£26.00
YG1.75-36	36	63.00	66.50	50	15	0.768	0.563	£31.62	£26.89
YG1.75-37	37	64.75	68.25	50	15	0.801	0.596	£33.06	£28.04
YG1.75-38	38	66.50	70.00	50	15	0.836	0.631	£33.85	£28.37
YG1.75-39	39	68.25	71.75	50	15	0.871	0.666	£34.77	£29.53
YG1.75-40	40	70.00	73.50	50	15	0.908	0.702	£35.54	£30.18
YG1.75-41	41	71.75	75.25	50	15	0.945	0.740	£36.04	£30.72
YG1.75-42	42	73.50	77.00	50	15	0.983	0.778	£36.91	£31.32
YG1.75-43	43	75.25	78.75	50	15	1.022	0.817	£38.27	£32.53
YG1.75-44	44	77.00	80.50	50	15	1.062	0.857	£38.80	£32.98
YG1.75-45	45	78.75	82.25	60	20	1.160	0.872	£39.34	£33.43
YG1.75-46	46	80.50	84.00	60	20	1.202	0.914	£40.05	£34.03
YG1.75-47	47	82.25	85.75	60	20	1.245	0.956	£40.84	£34.63
YG1.75-48	48	84.00	87.50	60	20	1.289	1.000	£41.91	£35.59
YG1.75-49	49	85.75	89.25	60	20	1.333	1.045	£43.46	£36.93
YG1.75-50	50	87.50	91.00	60	20	1.379	1.090	£43.97	£37.35
YG1.75-51	51	89.25	92.75	60	20	1.425	1.137	£45.08	£38.31
YG1.75-52	52	91.00	94.50	60	20	1.473	1.184	£46.18	£39.22
YG1.75-53	53	92.75	96.25	60	20	1.521	1.232	£47.35	£40.22
YG1.75-54	54	94.50	98.00	80	20	1.823	1.282	£51.09	£43.21
YG1.75-55	55	96.25	99.75	80	20	1.873	1.332	£52.69	£44.72
YG1.75-56	56	98.00	101.50	80	20	1.924	1.383	£54.92	£46.65
YG1.75-57	57	99.75	103.25	80	20	1.976	1.435	£56.66	£48.13
YG1.75-58	58	101.50	105.00	80	20	2.029	1.488	£58.43	£49.67
YG1.75-59	59	103.25	106.75	80	20	2.083	1.542	£60.31	£51.23
YG1.75-60	60	105.00	108.50	80	20	2.137	1.596	£62.72	£53.29
YG1.75-62	62	108.50	112.00	80	20	2.250	1.709	£64.26	£54.57
YG1.75-64	64	112.00	115.50	80	20	2.366	1.825	£66.12	£56.20
YG1.75-65	65	113.75	117.25	80	20	2.425	1.884	£68.23	£58.01
YG1.75-66	66	115.50	119.00	80	20	2.485	1.944	£70.28	£59.72
YG1.75-68	68	119.00	122.50	80	20	2.608	2.068	£72.38	£61.49
YG1.75-70	70	122.50	126.00	100	20	3.060	2.195	£74.33	£63.14
YG1.75-71	71	124.25	127.75	100	20	3.125	2.259	£75.40	£64.10
YG1.75-72	72	126.00	129.50	100	20	3.191	2.325	£76.82	£65.25
YG1.75-73	73	127.75	131.25	100	20	3.257	2.392	£77.93	£66.23
YG1.75-74	74	129.50	133.00	100	20	3.325	2.460	£79.14	£67.28
YG1.75-75	75	131.25	134.75	100	20	3.394	2.528	£80.28	£68.20
YG1.75-76	76	133.00	136.50	100	20	3.463	2.598	£81.46	£69.25
YG1.75-78	78	136.50	140.00	100	20	3.605	2.739	£87.79	£74.61
YG1.75-80	80	140.00	143.50	100	20	3.750	2.885	£92.99	£78.99
YG1.75-86	86	150.50	154.00	100	20	4.209	3.343	£104.55	£88.84
YG1.75-90	90	157.50	161.00	100	20	4.532	3.667	£114.47	£97.28
YG1.75-96	96	168.00	171.50	100	20	5.046	4.181	£126.95	£107.92
YG1.75-98	98	171.50	175.00	100	20	5.225	4.359	£131.77	£112.00
YG1.75-100	100	175.00	178.50	100	20	5.407	4.541	£137.51	£116.91
YG1.75-105	105	183.75	187.25	100	20	5.878	5.013	£144.66	£122.97
YG1.75-110	110	192.50	196.00	100	20	6.373	5.508	£150.97	£128.30
YG1.75-115	115	201.25	204.75	100	20	6.891	6.025	£159.88	£135.86
YG1.75-120	120	210.00	213.50	100	20	7.431	6.566	£168.09	£142.91

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

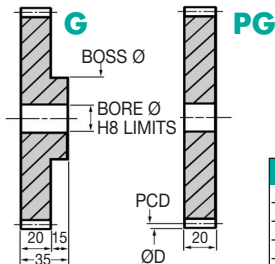
2 MOD

20° P.A.

SPECIAL TEETH : between 9 - 220



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm. K.W.	25.000	119.000	12.500	10.000
		2.610	12.510	1.320	1.040



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G2-9	9	20	24	24	12	0.070	0.031	£17.13	£14.25
G2-10	10	22	26	26	12	0.089	0.041	£17.18	£14.27
G2-11	11	24	28	28	12	0.110	0.052	£17.26	£14.31
G2-12	12	24	28	28	12	0.110	0.052	£17.30	£14.33
G2-13	13	26	30	20	12	0.087	0.064	£18.13	£15.19
G2-14	14	28	32	20	12	0.100	0.077	£19.16	£16.13
G2-15	15	30	34	25	15	0.117	0.081	£20.20	£17.13
G2-16	16	32	36	25	15	0.132	0.096	£21.15	£17.99
G2-17	17	34	38	25	15	0.148	0.112	£21.65	£18.50
G2-18	18	36	40	30	15	0.190	0.129	£22.26	£19.00
G2-19	19	38	42	30	15	0.207	0.147	£22.78	£19.42
G2-20	20	40	44	30	15	0.226	0.165	£23.26	£19.93
G2-21	21	42	46	30	15	0.246	0.185	£23.87	£20.42
G2-22	22	44	48	35	15	0.296	0.206	£24.24	£20.88
G2-23	23	46	50	35	15	0.317	0.227	£24.77	£21.37
G2-24	24	48	52	35	15	0.340	0.250	£25.31	£21.84
G2-25	25	50	54	35	15	0.364	0.273	£26.70	£23.71
G2-26	26	52	56	35	15	0.388	0.298	£27.57	£24.63
G2-27	27	54	58	40	20	0.411	0.302	£28.55	£25.58
G2-28	28	56	60	40	20	0.437	0.329	£29.16	£26.13
G2-29	29	58	62	40	20	0.464	0.356	£29.89	£26.74
G2-30	30	60	64	40	20	0.493	0.385	£30.55	£27.40
G2-31	31	62	66	40	20	0.522	0.414	£31.74	£28.37

Spur Gears Steel - Standard MOD 2

23.50



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G2-32	32	64	68	40	20	0.552	0.444	£33.19	£29.30
G2-33	33	66	70	40	20	0.584	0.476	£33.85	£29.89
G2-34	34	68	72	40	20	0.616	0.508	£35.47	£30.55
G2-35	35	70	74	50	20	0.730	0.541	£36.62	£31.16
G2-36	36	72	76	50	20	0.764	0.575	£38.68	£33.09
G2-37	37	74	78	50	20	0.799	0.610	£39.20	£33.76
G2-38	38	76	80	50	20	0.836	0.646	£40.21	£34.52
G2-39	39	78	82	50	20	0.873	0.683	£41.16	£35.22
G2-40	40	80	84	50	20	0.911	0.721	£41.91	£35.89
G2-41	41	82	86	50	20	0.949	0.760	£42.67	£36.45
G2-42	42	84	88	50	20	0.989	0.800	£43.21	£37.06
G2-43	43	86	90	50	20	1.030	0.841	£43.73	£37.65
G2-44	44	88	92	50	20	1.072	0.883	£44.39	£38.17
G2-45	45	90	94	50	20	1.115	0.926	£45.08	£38.72
G2-46	46	92	96	50	20	1.159	0.969	£46.15	£39.68
G2-47	47	94	98	50	20	1.203	1.014	£47.19	£40.59
G2-48	48	96	100	50	20	1.249	1.060	£48.53	£41.57
G2-49	49	98	102	50	20	1.296	1.106	£50.09	£42.99
G2-50	50	100	104	50	20	1.343	1.154	£51.96	£44.38
G2-51	51	102	106	50	20	1.392	1.202	£53.01	£45.19
G2-52	52	104	108	50	20	1.441	1.252	£53.90	£46.05
G2-53	53	106	110	50	20	1.492	1.302	£54.54	£46.88
G2-54	54	108	112	50	20	1.543	1.354	£55.46	£47.66
G2-55	55	110	114	50	20	1.596	1.406	£60.88	£51.04
G2-56	56	112	116	50	20	1.649	1.460	£62.15	£51.61
G2-57	57	114	118	50	20	1.703	1.514	£63.41	£52.23
G2-58	58	116	120	50	20	1.759	1.569	£64.54	£52.87
G2-59	59	118	122	50	20	1.815	1.626	£65.27	£53.46
G2-60	60	120	124	50	20	1.872	1.683	£66.19	£54.07
G2-62	62	124	128	50	20	1.989	1.800	£67.80	£56.12
G2-64	64	128	132	50	20	2.111	1.921	£69.42	£58.18
G2-65	65	130	134	50	20	2.173	1.983	£72.76	£60.21
G2-66	66	132	136	50	20	2.236	2.046	£73.96	£61.22
G2-68	68	136	140	50	20	2.364	2.175	£75.07	£62.26
G2-70	70	140	144	50	20	2.497	2.308	£76.99	£63.27
G2-71	71	142	146	70	20	2.781	2.376	£81.25	£67.66
G2-72	72	144	148	70	20	2.850	2.444	£86.18	£71.82
G2-73	73	146	150	70	20	2.920	2.514	£89.65	£74.72
G2-74	74	148	152	70	20	2.990	2.585	£92.19	£76.84
G2-75	75	150	154	70	20	3.062	2.656	£95.27	£79.36
G2-76	76	152	156	70	20	3.135	2.729	£99.95	£83.29
G2-78	78	156	160	70	20	3.283	2.877	£105.11	£87.60
G2-80	80	160	164	70	20	3.435	3.029	£115.33	£96.13
G2-86	86	172	176	70	20	3.914	3.508	£124.13	£103.39
G2-90	90	180	184	70	20	4.252	3.846	£137.69	£114.77
G2-96	96	192	196	70	20	4.789	4.383	£147.41	£122.83
G2-98	98	196	200	70	20	4.975	4.570	£160.44	£133.69
G2-100	100	200	204	70	20	5.166	4.760	£171.24	£142.67
G2-105	105	210	214	70	20	5.658	5.253	£177.58	£147.97
G2-110	110	220	224	70	20	6.175	5.770	£189.73	£158.11
G2-115	115	230	234	70	20	6.716	6.311	£202.95	£169.12
G2-120	120	240	244	70	20	7.281	6.875	£220.52	£183.76

Spur Gears Steel - Standard MOD 2

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) and torque x
0.47 of 655M13(En36)

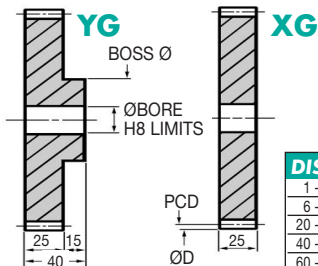
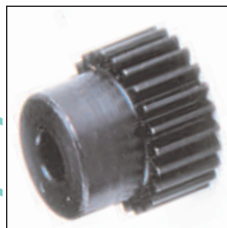
2 MOD

20° P.A.

SPECIAL TEETH : between 9 - 220



TORQUE CHECK 50 teeth x 1000 rpm variations at back	TORQUE Nm. K.W.	655M13 Cse/HD	817M40	817M40 Ind/HD
		70.000	70.000	103.000
		7.430	7.430	10.854



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5	
							YG	XG
YG2-9	9	20	24	24	12	0.077	£21.37	£15.97
YG2-10	10	22	26	26	12	0.099	£21.39	£16.04
YG2-11	11	24	28	28	12	0.123	£21.42	£16.09
YG2-12	12	24	28	28	12	0.123	£21.52	£16.14
YG2-13	13	26	30	30	12	0.148	£22.66	£16.94
YG2-14	14	28	32	30	12	0.164	£23.91	£17.89
YG2-15	15	30	34	30	15	0.170	£25.18	£18.83
YG2-16	16	32	36	30	15	0.181	£26.37	£19.73
YG2-17	17	34	38	35	15	0.230	£27.02	£20.20
YG2-18	18	36	40	35	15	0.251	£27.69	£20.73
YG2-19	19	38	42	35	15	0.273	£28.42	£21.32
YG2-20	20	40	44	35	15	0.297	£28.99	£21.70
YG2-21	21	42	46	35	15	0.321	£29.79	£22.30
YG2-22	22	44	48	35	15	0.347	£30.32	£22.71
YG2-23	23	46	50	35	15	0.374	£30.85	£23.15
YG2-24	24	48	52	35	15	0.403	£31.54	£23.64
YG2-25	25	50	54	35	15	0.432	£33.36	£25.03
YG2-26	26	52	56	35	15	0.463	£34.34	£25.76
YG2-27	27	54	58	50	20	0.567	£35.55	£26.66
YG2-28	28	56	60	50	20	0.600	£36.34	£27.24
YG2-29	29	58	62	50	20	0.635	£37.32	£29.26
YG2-30	30	60	64	50	20	0.670	£38.08	£29.43
YG2-31	31	62	66	50	20	0.707	£39.59	£29.68

Spur Gears Steel - Heavy Duty MOD 2

23.52



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG2-32	32	64	68	50	20	0.745	0.555	£41.36	£31.01
YG2-33	33	66	70	50	20	0.784	0.594	£42.20	£31.61
YG2-34	34	68	72	50	20	0.824	0.635	£44.27	£33.16
YG2-35	35	70	74	50	20	0.865	0.676	£45.68	£34.23
YG2-36	36	72	76	50	20	0.908	0.719	£48.25	£36.19
YG2-37	37	74	78	50	20	0.952	0.763	£48.90	£36.62
YG2-38	38	76	80	50	20	0.997	0.808	£50.13	£37.60
YG2-39	39	78	82	50	20	1.043	0.854	£51.34	£38.50
YG2-40	40	80	84	50	20	1.091	0.902	£52.29	£39.19
YG2-41	41	82	86	50	20	1.139	0.950	£53.17	£39.92
YG2-42	42	84	88	50	20	1.189	1.000	£53.85	£40.38
YG2-43	43	86	90	60	20	1.340	1.051	£54.53	£40.87
YG2-44	44	88	92	60	20	1.392	1.103	£55.40	£41.52
YG2-45	45	90	94	60	20	1.445	1.157	£56.20	£42.07
YG2-46	46	92	96	60	20	1.500	1.212	£57.52	£43.13
YG2-47	47	94	98	60	20	1.556	1.268	£58.82	£44.12
YG2-48	48	96	100	60	20	1.613	1.325	£60.50	£45.37
YG2-49	49	98	102	60	20	1.671	1.383	£62.39	£46.74
YG2-50	50	100	104	60	20	1.731	1.442	£64.76	£48.53
YG2-51	51	102	106	60	20	1.792	1.503	£66.08	£49.51
YG2-52	52	104	108	60	20	1.853	1.565	£67.19	£50.35
YG2-53	53	106	110	60	20	1.917	1.628	£68.14	£50.92
YG2-54	54	108	112	60	20	1.981	1.692	£69.13	£51.79
YG2-55	55	110	114	60	20	2.046	1.758	£75.85	£56.88
YG2-56	56	112	116	60	20	2.113	1.825	£77.46	£58.09
YG2-57	57	114	118	60	20	2.181	1.893	£79.01	£59.23
YG2-58	58	116	120	60	20	2.250	1.962	£80.46	£60.31
YG2-59	59	118	122	60	20	2.320	2.032	£81.34	£60.98
YG2-60	60	120	124	60	20	2.392	2.104	£82.58	£61.85
YG2-62	62	124	128	75	20	2.721	2.250	£84.50	£63.32
YG2-64	64	128	132	75	20	2.873	2.402	£86.54	£65.06
YG2-65	65	130	134	75	20	2.950	2.479	£90.68	£68.04
YG2-66	66	132	136	75	20	3.029	2.558	£92.19	£69.14
YG2-68	68	136	140	75	20	3.190	2.719	£93.65	£70.23
YG2-70	70	140	144	75	20	3.356	2.885	£95.94	£71.96
YG2-71	71	142	146	75	20	3.441	2.970	£101.25	£75.89
YG2-72	72	144	148	75	20	3.527	3.055	£107.40	£80.54
YG2-73	73	146	150	75	20	3.614	3.143	£111.70	£83.80
YG2-74	74	148	152	75	20	3.702	3.231	£114.88	£86.15
YG2-75	75	150	154	75	20	3.792	3.321	£118.71	£89.01
YG2-76	76	152	156	75	20	3.882	3.411	£124.55	£93.41
YG2-78	78	156	160	100	20	4.462	3.596	£131.03	£97.94
YG2-80	80	160	164	100	20	4.652	3.786	£143.78	£107.78
YG2-86	86	172	176	100	20	5.250	4.385	£154.66	£115.97
YG2-90	90	180	184	100	20	5.673	4.808	£171.62	£128.71
YG2-96	96	192	196	100	20	6.344	5.479	£183.73	£137.79
YG2-98	98	196	200	100	20	6.577	5.712	£198.54	£149.97
YG2-100	100	200	204	100	20	6.815	5.950	£213.37	£160.02
YG2-105	105	210	214	100	20	7.431	6.566	£221.26	£165.96
YG2-110	110	220	224	100	20	8.077	7.212	£236.48	£177.31
YG2-115	115	230	234	100	20	8.754	7.888	£252.85	£189.63
YG2-120	120	240	244	100	20	9.460	8.594	£274.83	£206.09

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

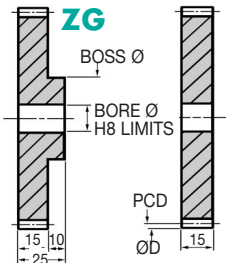
2 MOD

20° P.A.

SPECIAL TEETH : between 9 - 220



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 6.00



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG2-9	9	20	24	24	10	0.009	0.005	£8.59	£6.61
ZG2-10	10	22	26	24	10	0.011	0.006	£8.62	£6.64
ZG2-11	11	24	28	24	10	0.012	0.007	£8.66	£6.66
ZG2-12	12	24	28	24	10	0.012	0.007	£8.73	£6.70
ZG2-13	13	26	30	24	10	0.014	0.009	£9.08	£6.99
ZG2-14	14	28	32	24	10	0.015	0.010	£9.60	£7.16
ZG2-15	15	30	34	25	12	0.016	0.011	£10.12	£7.38
ZG2-16	16	32	36	27	12	0.019	0.013	£10.94	£7.43
ZG2-17	17	34	38	30	12	0.023	0.015	£11.28	£7.45
ZG2-18	18	36	40	30	12	0.025	0.017	£11.76	£7.88
ZG2-19	19	38	42	30	12	0.027	0.020	£12.16	£8.12
ZG2-20	20	40	44	30	12	0.030	0.022	£12.52	£8.36
ZG2-21	21	42	46	30	12	0.032	0.025	£15.00	£11.49
ZG2-22	22	44	48	35	12	0.038	0.027	£15.23	£11.67
ZG2-23	23	46	50	35	12	0.041	0.030	£15.55	£11.91
ZG2-24	24	48	52	35	12	0.044	0.033	£15.93	£12.16
ZG2-25	25	50	54	35	12	0.047	0.036	£20.20	£15.47
ZG2-26	26	52	56	35	12	0.050	0.039	£20.82	£15.95
ZG2-27	27	54	58	35	12	0.053	0.042	£21.60	£16.53
ZG2-28	28	56	60	35	12	0.056	0.045	£22.05	£16.92
ZG2-29	29	58	62	35	12	0.060	0.049	£22.66	£18.13
ZG2-30	30	60	64	35	12	0.063	0.052	£26.16	£20.08
ZG2-31	31	62	66	35	12	0.067	0.056	£27.21	£20.88

Spur Gears Plastic MOD 2

23.54



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG2-32	32	64	68	35	12	0.071	0.060	£28.48	£21.74
ZG2-33	33	66	70	35	12	0.075	0.064	£28.98	£22.26
ZG2-34	34	68	72	35	12	0.079	0.068	£30.44	£23.30
ZG2-35	35	70	74	35	12	0.083	0.072	£31.35	£24.03
ZG2-36	36	72	76	45	15	0.093	0.075	£33.17	£25.42
ZG2-37	37	74	78	45	15	0.098	0.080	£35.59	£27.30
ZG2-38	38	76	80	45	15	0.102	0.084	£36.49	£27.96
ZG2-39	39	78	82	45	15	0.107	0.089	£37.34	£28.66
ZG2-40	40	80	84	45	15	0.112	0.094	£38.05	£29.26
ZG2-41	41	82	86	45	15	0.117	0.098	£38.80	£29.72
ZG2-42	42	84	88	45	15	0.122	0.103	£39.22	£30.08
ZG2-43	43	86	90	45	15	0.127	0.109	£39.69	£30.44
ZG2-44	44	88	92	45	15	0.132	0.114	£44.79	£34.35
ZG2-45	45	90	94	45	15	0.137	0.119	£45.51	£34.90
ZG2-46	46	92	96	45	15	0.143	0.125	£46.50	£35.70
ZG2-47	47	94	98	45	15	0.149	0.130	£47.64	£36.49
ZG2-48	48	96	100	45	15	0.154	0.136	£53.89	£41.36
ZG2-49	49	98	102	45	15	0.160	0.142	£55.55	£42.60
ZG2-50	50	100	104	45	15	0.166	0.148	£57.66	£44.26
ZG2-51	51	102	106	45	15	0.172	0.154	£58.87	£45.15
ZG2-52	52	104	108	45	15	0.179	0.160	£59.85	£45.90
ZG2-53	53	106	110	45	15	0.185	0.167	£60.52	£46.36
ZG2-54	54	108	112	45	15	0.191	0.173	£61.52	£47.20
ZG2-55	55	110	114	45	15	0.198	0.180	£67.56	£51.81
ZG2-56	56	112	116	45	15	0.205	0.187	£69.02	£52.88
ZG2-57	57	114	118	45	15	0.212	0.193	£70.37	£53.96
ZG2-58	58	116	120	45	15	0.219	0.200	£78.16	£59.99
ZG2-59	59	118	122	60	15	0.242	0.208	£79.10	£60.72
ZG2-60	60	120	124	60	15	0.249	0.215	£80.16	£61.48
ZG2-62	62	124	128	60	15	0.264	0.230	£82.08	£63.00
ZG2-64	64	128	132	60	15	0.279	0.245	£84.09	£64.52
ZG2-65	65	130	134	60	15	0.287	0.253	£88.13	£67.56
ZG2-66	66	132	136	60	15	0.295	0.261	£89.61	£68.71
ZG2-68	68	136	140	60	15	0.311	0.277	£98.65	£75.72
ZG2-70	70	140	144	60	15	0.328	0.294	£101.01	£77.46
ZG2-71	71	142	146	60	15	0.336	0.302	£106.61	£81.79
ZG2-72	72	144	148	60	15	0.345	0.311	£113.09	£86.77
ZG2-73	73	146	150	60	15	0.354	0.320	£117.64	£90.27
ZG2-74	74	148	152	60	15	0.363	0.328	£120.91	£92.79
ZG2-75	75	150	154	60	15	0.372	0.337	£124.98	£95.92
ZG2-76	76	152	156	60	15	0.381	0.347	£131.12	£100.66
ZG2-78	78	156	160	60	15	0.399	0.365	£159.16	£122.08
ZG2-80	80	160	164	60	15	0.419	0.384	£174.60	£133.95
ZG2-86	86	172	176	60	15	0.479	0.445	£187.92	£144.14
ZG2-90	90	180	184	60	15	0.522	0.487	£208.44	£159.99
ZG2-96	96	192	196	60	15	0.589	0.555	£223.17	£171.24

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

2.5 MOD

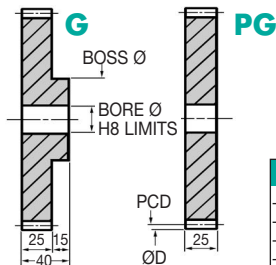
20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations	48.000	228.000	24.000	19.000
at back	TORQUE Nm.			
	K.W.	5.000	23.870	2.540
			2.540	2.020



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH	
						G	PG	G	PG
G2.5-9	9	25.00	30.00	20	12	0.095	0.072	£23.54	£15.57
G2.5-10	10	27.50	32.50	20	12	0.115	0.092	£23.56	£15.61
G2.5-11	11	30.00	35.00	20	12	0.137	0.114	£23.62	£15.69
G2.5-12	12	30.00	35.00	22	15	0.125	0.101	£23.68	£15.74
G2.5-13	13	32.50	37.50	22	15	0.148	0.125	£24.10	£16.48
G2.5-14	14	35.00	40.00	25	15	0.186	0.150	£25.18	£17.34
G2.5-15	15	37.50	42.50	30	15	0.238	0.177	£26.80	£19.07
G2.5-16	16	40.00	45.00	30	15	0.267	0.207	£28.39	£20.87
G2.5-17	17	42.50	47.50	30	15	0.298	0.238	£28.95	£21.70
G2.5-18	18	45.00	50.00	30	15	0.331	0.270	£30.00	£22.57
G2.5-19	19	47.50	52.50	30	15	0.366	0.305	£30.79	£23.53
G2.5-20	20	50.00	55.00	40	20	0.424	0.316	£31.91	£24.45
G2.5-21	21	52.50	57.50	40	20	0.462	0.354	£32.67	£25.40
G2.5-22	22	55.00	60.00	40	20	0.503	0.394	£33.86	£26.32
G2.5-23	23	57.50	62.50	40	20	0.545	0.437	£34.72	£27.24
G2.5-24	24	60.00	65.00	40	20	0.589	0.481	£35.73	£28.14
G2.5-25	25	62.50	67.50	40	20	0.635	0.527	£37.67	£30.00
G2.5-26	26	65.00	70.00	45	20	0.721	0.575	£39.58	£31.90
G2.5-27	27	67.50	72.50	45	20	0.771	0.624	£40.42	£32.81
G2.5-28	28	70.00	75.00	45	20	0.823	0.676	£41.47	£33.72
G2.5-29	29	72.50	77.50	45	20	0.876	0.730	£42.81	£35.47
G2.5-30	30	75.00	80.00	45	20	0.932	0.785	£44.29	£37.21
G2.5-31	31	77.50	82.50	45	20	0.989	0.842	£45.43	£38.99

Spur Gears Steel - Standard MOD 2.5

23.56



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G2.5-32	32	80.00	85.00	45	20	1.048	0.902	£46.96	£40.70
G2.5-33	33	82.50	87.50	45	20	1.109	0.963	£47.51	£41.88
G2.5-34	34	85.00	90.00	45	20	1.172	1.025	£48.65	£43.03
G2.5-35	35	87.50	92.50	45	20	1.237	1.090	£49.75	£44.16
G2.5-36	36	90.00	95.00	45	20	1.303	1.157	£52.47	£47.66
G2.5-37	37	92.50	97.50	45	20	1.372	1.225	£53.17	£48.51
G2.5-38	38	95.00	100.00	45	20	1.442	1.296	£54.70	£49.35
G2.5-39	39	97.50	102.50	45	20	1.515	1.368	£55.49	£50.19
G2.5-40	40	100.00	105.00	50	20	1.632	1.442	£56.84	£51.04
G2.5-41	41	102.50	107.50	50	20	1.708	1.518	£58.22	£51.69
G2.5-42	42	105.00	110.00	50	20	1.786	1.596	£59.12	£52.33
G2.5-43	43	107.50	112.50	50	20	1.866	1.676	£59.72	£53.05
G2.5-44	44	110.00	115.00	50	20	1.964	1.774	£60.44	£53.66
G2.5-45	45	112.50	117.50	50	20	2.031	1.842	£61.22	£54.39
G2.5-46	46	115.00	120.00	50	20	2.116	1.927	£62.64	£55.49
G2.5-47	47	117.50	122.50	50	20	2.204	2.014	£63.83	£56.60
G2.5-48	48	120.00	125.00	50	20	2.293	2.104	£65.57	£57.69
G2.5-49	49	122.50	127.50	50	20	2.384	2.195	£67.37	£59.40
G2.5-50	50	125.00	130.00	50	20	2.477	2.288	£69.21	£60.98
G2.5-51	51	127.50	132.50	50	20	2.572	2.382	£69.75	£61.84
G2.5-52	52	130.00	135.00	50	20	2.668	2.479	£70.88	£62.71
G2.5-53	53	132.50	137.50	50	20	2.767	2.578	£71.47	£63.49
G2.5-54	54	135.00	140.00	50	20	2.868	2.678	£72.20	£64.34
G2.5-55	55	137.50	142.50	50	20	2.970	2.781	£79.19	£67.66
G2.5-56	56	140.00	145.00	50	20	3.074	2.885	£80.59	£68.32
G2.5-57	57	142.50	147.50	50	20	3.180	2.991	£82.08	£68.95
G2.5-58	58	145.00	150.00	50	20	3.288	3.099	£83.29	£69.61
G2.5-59	59	147.50	152.50	50	20	3.398	3.209	£84.50	£70.27
G2.5-60	60	150.00	155.00	50	20	3.510	3.321	£85.88	£70.88
G2.5-62	62	155.00	160.00	50	20	3.739	3.550	£97.24	£84.80
G2.5-64	64	160.00	165.00	50	20	3.976	3.786	£109.77	£98.76
G2.5-65	65	162.50	167.50	50	20	4.097	3.907	£117.63	£105.48
G2.5-66	66	165.00	170.00	50	20	4.220	4.030	£129.36	£108.95
G2.5-68	68	170.00	175.00	50	20	4.471	4.282	£135.07	£112.40
G2.5-70	70	175.00	180.00	50	20	4.731	4.541	£143.20	£119.10
G2.5-71	71	177.50	182.50	100	25	5.485	4.640	£151.98	£126.64
G2.5-72	72	180.00	185.00	100	25	5.619	4.774	£161.19	£134.32
G2.5-73	73	182.50	187.50	100	25	5.756	4.910	£167.15	£139.26
G2.5-74	74	185.00	190.00	100	25	5.894	5.048	£173.76	£144.77
G2.5-75	75	187.50	192.50	100	25	6.033	5.188	£180.41	£150.39
G2.5-76	76	190.00	195.00	100	25	6.175	5.330	£185.97	£155.81
G2.5-78	78	195.00	200.00	100	25	6.465	5.619	£190.43	£158.71
G2.5-80	80	200.00	205.00	100	25	6.761	5.916	£193.82	£161.49
G2.5-86	86	215.00	220.00	100	25	7.697	6.851	£197.53	£164.55
G2.5-90	90	225.00	230.00	100	25	8.358	7.513	£216.05	£180.05
G2.5-96	96	240.00	245.00	100	25	9.406	8.560	£232.60	£193.82
G2.5-98	98	245.00	250.00	100	25	9.770	8.925	£245.96	£204.94
G2.5-100	100	250.00	255.00	100	25	10.142	9.297	£276.00	£229.98
G2.5-105	105	262.50	267.50	100	25	11.104	10.259	£299.42	£249.48
G2.5-110	110	275.00	280.00	100	25	12.114	11.269	£317.80	£264.82
G2.5-115	115	287.50	292.50	100	25	13.170	12.325	£346.16	£288.50

Up to Ø750 mm

Please consult Technical for larger sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) and torque x
0.47 of 655M13(En36)

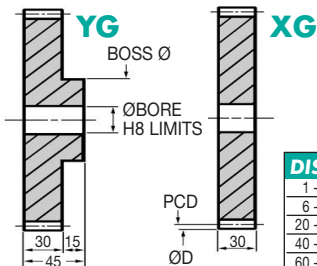
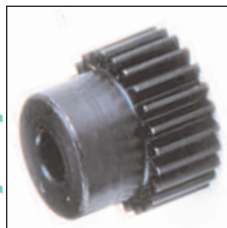
2.5 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
TORQUE Nm.	122.000	337.000	122.000	178.000
	12.682	35.062	12.682	18.650



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG2.5-9	9	25.00	30.00	30.00	12	0.155	0.087	£31.43	£23.54
YG2.5-10	10	27.50	32.50	32.50	12	0.193	0.110	£31.49	£23.56
YG2.5-11	11	30.00	35.00	35.00	12	0.234	0.136	£31.54	£23.62
YG2.5-12	12	30.00	35.00	35.00	15	0.212	0.122	£31.59	£23.68
YG2.5-13	13	32.50	37.50	35.00	15	0.240	0.150	£32.14	£24.10
YG2.5-14	14	35.00	40.00	35.00	15	0.270	0.180	£33.61	£25.18
YG2.5-15	15	37.50	42.50	35.00	15	0.303	0.213	£35.82	£26.80
YG2.5-16	16	40.00	45.00	35.00	15	0.338	0.248	£37.84	£28.39
YG2.5-17	17	42.50	47.50	35.00	15	0.375	0.285	£38.59	£28.95
YG2.5-18	18	45.00	50.00	35.00	15	0.415	0.325	£40.02	£30.00
YG2.5-19	19	47.50	52.50	35.00	15	0.456	0.366	£41.13	£30.79
YG2.5-20	20	50.00	55.00	45.00	20	0.525	0.379	£42.56	£31.91
YG2.5-21	21	52.50	57.50	45.00	20	0.571	0.425	£43.62	£32.67
YG2.5-22	22	55.00	60.00	45.00	20	0.620	0.473	£45.15	£33.86
YG2.5-23	23	57.50	62.50	45.00	20	0.670	0.524	£46.27	£34.72
YG2.5-24	24	60.00	65.00	45.00	20	0.723	0.577	£47.70	£35.73
YG2.5-25	25	62.50	67.50	45.00	20	0.779	0.632	£50.20	£37.67
YG2.5-26	26	65.00	70.00	45.00	20	0.836	0.690	£52.79	£39.58
YG2.5-27	27	67.50	72.50	45.00	20	0.896	0.749	£53.89	£41.10
YG2.5-28	28	70.00	75.00	45.00	20	0.958	0.811	£55.32	£41.47
YG2.5-29	29	72.50	77.50	60.00	20	1.164	0.876	£57.12	£42.81
YG2.5-30	30	75.00	80.00	60.00	20	1.231	0.942	£59.06	£44.29
YG2.5-31	31	77.50	82.50	60.00	20	1.299	1.011	£60.54	£45.43

Spur Gears Steel - Heavy Duty MOD 2.5

23.58



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG2.5-32	32	80.00	85.00	60	20	1.370	1.082	£62.65	£46.96
YG2.5-33	33	82.50	87.50	60	20	1.444	1.155	£63.39	£47.51
YG2.5-34	34	85.00	90.00	60	20	1.519	1.231	£64.91	£48.65
YG2.5-35	35	87.50	92.50	60	20	1.597	1.308	£66.37	£49.75
YG2.5-36	36	90.00	95.00	60	20	1.677	1.388	£69.97	£52.47
YG2.5-37	37	92.50	97.50	60	20	1.759	1.471	£70.95	£53.17
YG2.5-38	38	95.00	100.00	60	20	1.844	1.555	£72.95	£54.70
YG2.5-39	39	97.50	102.50	60	20	1.930	1.642	£74.01	£55.49
YG2.5-40	40	100.00	105.00	75	20	2.202	1.731	£75.81	£56.84
YG2.5-41	41	102.50	107.50	75	20	2.293	1.822	£77.63	£58.22
YG2.5-42	42	105.00	110.00	75	20	2.387	1.916	£78.85	£59.12
YG2.5-43	43	107.50	112.50	75	20	2.483	2.011	£79.66	£59.72
YG2.5-44	44	110.00	115.00	75	20	2.600	2.129	£80.63	£60.44
YG2.5-45	45	112.50	117.50	75	20	2.681	2.210	£81.68	£61.22
YG2.5-46	46	115.00	120.00	75	20	2.783	2.312	£83.53	£62.64
YG2.5-47	47	117.50	122.50	75	20	2.888	2.417	£85.14	£63.83
YG2.5-48	48	120.00	125.00	75	20	2.995	2.524	£87.48	£65.57
YG2.5-49	49	122.50	127.50	75	20	3.105	2.634	£89.80	£67.37
YG2.5-50	50	125.00	130.00	75	20	3.216	2.745	£92.35	£69.21
YG2.5-51	51	127.50	132.50	75	20	3.330	2.859	£93.06	£69.75
YG2.5-52	52	130.00	135.00	75	20	3.446	2.975	£94.30	£70.73
YG2.5-53	53	132.50	137.50	75	20	3.564	3.093	£95.33	£71.47
YG2.5-54	54	135.00	140.00	75	20	3.685	3.214	£96.30	£72.20
YG2.5-55	55	137.50	142.50	75	20	3.808	3.337	£105.63	£79.19
YG2.5-56	56	140.00	145.00	75	20	3.933	3.462	£107.40	£80.59
YG2.5-57	57	142.50	147.50	75	20	4.060	3.589	£109.52	£82.08
YG2.5-58	58	145.00	150.00	75	20	4.190	3.719	£111.07	£83.29
YG2.5-59	59	147.50	152.50	75	20	4.322	3.851	£112.68	£84.50
YG2.5-60	60	150.00	155.00	100	20	4.850	3.985	£114.54	£85.88
YG2.5-62	62	155.00	160.00	100	20	5.125	4.260	£129.66	£97.24
YG2.5-64	64	160.00	165.00	100	20	5.409	4.544	£146.42	£109.77
YG2.5-65	65	162.50	167.50	100	20	5.554	4.689	£156.90	£117.63
YG2.5-66	66	165.00	170.00	100	20	5.702	4.837	£172.53	£129.36
YG2.5-68	68	170.00	175.00	100	20	6.004	5.139	£180.10	£135.07
YG2.5-70	70	175.00	180.00	100	20	6.315	5.450	£191.03	£143.20
YG2.5-71	71	177.50	182.50	100	20	6.474	5.608	£202.68	£158.09
YG2.5-72	72	180.00	185.00	100	20	6.635	5.770	£215.00	£161.19
YG2.5-73	73	182.50	187.50	100	20	6.798	5.933	£222.90	£167.15
YG2.5-74	74	185.00	190.00	100	20	6.964	6.099	£231.72	£173.76
YG2.5-75	75	187.50	192.50	100	20	7.132	6.267	£240.54	£180.41
YG2.5-76	76	190.00	195.00	100	20	7.302	6.437	£249.40	£187.05
YG2.5-78	78	195.00	200.00	127	25	8.141	6.743	£253.91	£190.43
YG2.5-80	80	200.00	205.00	127	25	8.497	7.099	£258.46	£193.82
YG2.5-86	86	215.00	220.00	127	25	9.619	8.222	£263.40	£197.53
YG2.5-90	90	225.00	230.00	127	25	10.413	9.015	£288.07	£216.05
YG2.5-96	96	240.00	245.00	127	25	11.670	10.273	£310.19	£232.60
YG2.5-98	98	245.00	250.00	127	25	12.108	10.710	£327.99	£245.96
YG2.5-100	100	250.00	255.00	127	25	12.554	11.156	£368.04	£276.00
YG2.5-105	105	262.50	267.50	127	25	13.709	12.311	£399.20	£299.42
YG2.5-110	110	275.00	280.00	127	25	14.920	13.523	£423.77	£317.80
YG2.5-115	115	287.50	292.50	127	25	16.188	14.790	£461.64	£346.16

Up to Ø750 mm

Please consult Technical for larger sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



23.59

Spur Gears Steel - Heavy Duty MOD 2.5

Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

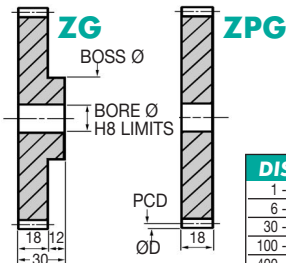
2.5 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 11.00



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG2.5-9	9	25.00	30.00	30	10	0.019	0.010	£11.84	£9.04
ZG2.5-10	10	27.50	32.50	30	10	0.022	0.012	£12.06	£9.96
ZG2.5-11	11	30.00	35.00	30	10	0.024	0.015	£12.33	£9.97
ZG2.5-12	12	30.00	35.00	30	12	0.023	0.014	£12.52	£10.01
ZG2.5-13	13	32.50	37.50	30	12	0.026	0.017	£12.78	£10.15
ZG2.5-14	14	35.00	40.00	30	12	0.029	0.020	£12.89	£10.19
ZG2.5-15	15	37.50	42.50	30	12	0.032	0.023	£13.03	£10.25
ZG2.5-16	16	40.00	45.00	30	12	0.036	0.026	£13.41	£10.30
ZG2.5-17	17	42.50	47.50	30	12	0.039	0.030	£15.71	£12.06
ZG2.5-18	18	45.00	50.00	36	12	0.048	0.034	£16.09	£12.29
ZG2.5-19	19	47.50	52.50	36	12	0.052	0.038	£16.56	£12.75
ZG2.5-20	20	50.00	55.00	36	12	0.057	0.043	£17.04	£13.03
ZG2.5-21	21	52.50	57.50	36	12	0.061	0.047	£20.08	£15.38
ZG2.5-22	22	55.00	60.00	36	12	0.066	0.052	£20.57	£15.78
ZG2.5-23	23	57.50	62.50	36	12	0.071	0.057	£22.31	£17.88
ZG2.5-24	24	60.00	65.00	36	12	0.077	0.063	£24.39	£19.54
ZG2.5-25	25	62.50	67.50	36	12	0.082	0.068	£27.05	£20.70
ZG2.5-26	26	65.00	70.00	36	12	0.088	0.074	£28.48	£21.85
ZG2.5-27	27	67.50	72.50	36	12	0.094	0.080	£29.93	£22.66
ZG2.5-28	28	70.00	75.00	45	15	0.107	0.085	£30.53	£23.42
ZG2.5-29	29	72.50	77.50	45	15	0.113	0.091	£31.33	£24.03
ZG2.5-30	30	75.00	80.00	45	15	0.120	0.098	£32.35	£24.81
ZG2.5-31	31	77.50	82.50	45	15	0.127	0.105	£37.92	£29.10

Spur Gears Plastic MOD 2.5

23.60



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG2.5-32	32	80.00	85.00	45	15	0.134	0.112	£38.90	£29.85
ZG2.5-33	33	82.50	87.50	45	15	0.141	0.120	£40.23	£30.87
ZG2.5-34	34	85.00	90.00	45	15	0.149	0.127	£40.78	£31.24
ZG2.5-35	35	87.50	92.50	45	15	0.157	0.135	£41.67	£31.99
ZG2.5-36	36	90.00	95.00	50	17	0.169	0.142	£47.64	£36.55
ZG2.5-37	37	92.50	97.50	50	17	0.177	0.150	£48.25	£37.05
ZG2.5-38	38	95.00	100.00	50	17	0.186	0.159	£55.04	£42.39
ZG2.5-39	39	97.50	102.50	50	17	0.194	0.168	£56.00	£42.92
ZG2.5-40	40	100.00	105.00	50	17	0.203	0.177	£57.35	£43.98
ZG2.5-41	41	102.50	107.50	50	17	0.213	0.186	£58.79	£44.88
ZG2.5-42	42	105.00	110.00	50	17	0.222	0.195	£59.65	£45.77
ZG2.5-43	43	107.50	112.50	50	17	0.232	0.205	£60.25	£46.21
ZG2.5-44	44	110.00	115.00	50	17	0.244	0.217	£60.95	£46.74
ZG2.5-45	45	112.50	117.50	50	17	0.252	0.225	£61.87	£47.44
ZG2.5-46	46	115.00	120.00	50	17	0.262	0.235	£69.53	£53.38
ZG2.5-47	47	117.50	122.50	50	17	0.273	0.246	£70.87	£54.31
ZG2.5-48	48	120.00	125.00	50	17	0.283	0.257	£72.78	£55.85
ZG2.5-49	49	122.50	127.50	50	17	0.294	0.268	£74.74	£57.35
ZG2.5-50	50	125.00	130.00	50	17	0.306	0.279	£76.82	£58.91
ZG2.5-51	51	127.50	132.50	50	17	0.317	0.290	£77.45	£59.40
ZG2.5-52	52	130.00	135.00	50	17	0.329	0.302	£78.48	£60.12
ZG2.5-53	53	132.50	137.50	50	17	0.341	0.314	£79.30	£60.84
ZG2.5-54	54	135.00	140.00	50	17	0.353	0.326	£87.48	£67.10
ZG2.5-55	55	137.50	142.50	50	17	0.365	0.338	£90.86	£73.53
ZG2.5-56	56	140.00	145.00	50	17	0.378	0.351	£97.58	£74.85
ZG2.5-57	57	142.50	147.50	65	20	0.408	0.362	£99.45	£76.30
ZG2.5-58	58	145.00	150.00	65	20	0.421	0.375	£101.00	£77.45
ZG2.5-59	59	147.50	152.50	65	20	0.435	0.388	£102.31	£78.48
ZG2.5-60	60	150.00	155.00	65	20	0.448	0.402	£104.01	£79.82
ZG2.5-62	62	155.00	160.00	65	20	0.476	0.430	£117.74	£90.37
ZG2.5-64	64	160.00	165.00	65	20	0.504	0.458	£144.01	£95.35
ZG2.5-65	65	162.50	167.50	65	20	0.519	0.473	£154.36	£118.39
ZG2.5-66	66	165.00	170.00	65	20	0.534	0.488	£169.72	£130.24
ZG2.5-68	68	170.00	175.00	65	20	0.564	0.518	£177.19	£135.92
ZG2.5-70	70	175.00	180.00	65	20	0.596	0.549	£187.92	£144.14
ZG2.5-71	71	177.50	182.50	65	20	0.612	0.566	£199.44	£156.62
ZG2.5-72	72	180.00	185.00	65	20	0.628	0.582	£211.46	£162.28
ZG2.5-73	73	182.50	187.50	65	20	0.645	0.598	£219.30	£168.24
ZG2.5-74	74	185.00	190.00	65	20	0.661	0.615	£224.49	£174.21
ZG2.5-75	75	187.50	192.50	65	20	0.678	0.632	£236.61	£181.63
ZG2.5-76	76	190.00	195.00	65	20	0.695	0.649	£245.41	£188.30
ZG2.5-78	78	195.00	200.00	65	20	0.730	0.684	£288.28	£221.41
ZG2.5-80	80	200.00	205.00	65	20	0.766	0.720	£293.36	£225.12

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

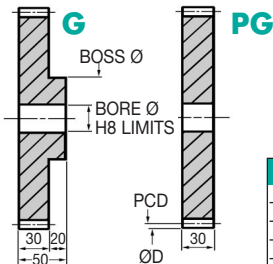
3 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations	88.000	421.000	44.000	35.000
at back	K.W.	8.950	46.60	3.730



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G3-9	9	30	36	28	15	0.189	0.122	£19.04	£13.97
G3-10	10	33	39	28	15	0.223	0.156	£19.07	£14.02
G3-11	11	36	42	28	15	0.260	0.193	£19.14	£14.06
G3-12	12	36	42	28	20	0.208	0.162	£19.16	£14.12
G3-13	13	39	45	28	20	0.248	0.202	£19.72	£16.13
G3-14	14	42	48	30	20	0.306	0.246	£20.59	£18.18
G3-15	15	45	51	30	20	0.353	0.293	£21.24	£19.81
G3-16	16	48	54	40	20	0.488	0.343	£22.55	£21.42
G3-17	17	51	57	40	20	0.541	0.397	£23.84	£22.21
G3-18	18	54	60	40	20	0.598	0.454	£25.07	£23.04
G3-19	19	57	63	40	20	0.658	0.514	£26.01	£23.86
G3-20	20	60	66	50	25	0.762	0.536	£26.86	£24.63
G3-21	21	63	69	50	25	0.828	0.603	£27.74	£25.39
G3-22	22	66	72	50	25	0.898	0.673	£28.69	£26.11
G3-23	23	69	75	50	25	0.971	0.746	£29.61	£26.85
G3-24	24	72	78	50	25	1.047	0.822	£30.46	£27.60
G3-25	25	75	81	50	25	1.127	0.902	£32.30	£29.07
G3-26	26	78	84	50	25	1.210	0.984	£34.15	£30.48
G3-27	27	81	87	50	25	1.296	1.070	£34.97	£32.26
G3-28	28	84	90	50	25	1.385	1.160	£35.96	£33.97
G3-29	29	87	93	50	25	1.477	1.252	£37.41	£34.51
G3-30	30	90	96	50	25	1.573	1.348	£38.77	£35.00
G3-31	31	93	99	50	25	1.672	1.447	£40.15	£36.58

Spur Gears Steel - Standard MOD 3

23.62



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS ø (mm)	BORE ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G3-32	32	96	102	50	25	1.774	1.549	£41.58	£38.06
G3-33	33	99	105	50	25	1.880	1.654	£43.86	£39.60
G3-34	34	102	108	50	25	1.989	1.763	£44.70	£41.14
G3-35	35	105	111	60	25	2.233	1.875	£48.19	£44.16
G3-36	36	108	114	60	25	2.348	1.990	£50.04	£47.82
G3-37	37	111	117	60	25	2.466	2.109	£50.99	£48.79
G3-38	38	114	120	60	25	2.588	2.230	£51.71	£49.65
G3-39	39	117	123	60	25	2.713	2.355	£52.42	£50.59
G3-40	40	120	126	60	25	2.841	2.484	£53.16	£51.51
G3-41	41	123	129	60	25	2.973	2.615	£54.12	£52.37
G3-42	42	126	132	60	25	3.107	2.750	£54.78	£53.28
G3-43	43	129	135	60	25	3.245	2.888	£59.67	£54.21
G3-44	44	132	138	60	25	3.386	3.029	£66.98	£57.26
G3-45	45	135	141	60	25	3.531	3.173	£78.59	£60.31
G3-46	46	138	144	60	25	3.679	3.321	£79.28	£61.24
G3-47	47	141	147	60	25	3.829	3.472	£79.89	£62.18
G3-48	48	144	150	60	25	3.984	3.626	£84.76	£63.09
G3-49	49	147	153	60	25	4.141	3.783	£86.49	£64.93
G3-50	50	150	156	60	25	4.302	3.944	£87.06	£66.73
G3-51	51	153	159	60	25	4.466	4.108	£90.14	£69.77
G3-52	52	156	162	60	25	4.633	4.275	£93.21	£77.18
G3-53	53	159	165	60	25	4.803	4.445	£96.34	£80.53
G3-54	54	162	168	60	25	4.977	4.619	£99.27	£82.35
G3-55	55	165	171	60	25	5.154	4.796	£103.95	£83.09
G3-56	56	168	174	60	25	5.334	4.976	£105.64	£83.97
G3-57	57	171	177	60	25	5.517	5.159	£107.33	£85.03
G3-58	58	174	180	60	25	5.704	5.346	£109.03	£87.16
G3-59	59	177	183	60	25	5.894	5.536	£112.13	£87.23
G3-60	60	180	186	60	25	6.087	5.729	£115.28	£87.30
G3-61	61	183	189	60	25	6.283	5.925	£118.37	£94.76
G3-62	62	186	192	60	25	6.483	6.125	£121.54	£100.11
G3-63	63	189	195	60	25	6.685	6.328	£124.66	£103.31
G3-64	64	192	198	120	30	8.107	6.484	£127.48	£106.83
G3-65	65	195	201	120	30	8.316	6.694	£128.20	£107.39
G3-68	68	204	210	120	30	8.964	7.341	£137.30	£115.06
G3-70	70	210	216	120	30	9.412	7.789	£148.34	£124.27
G3-72	72	216	222	120	30	9.873	8.250	£153.07	£128.30
G3-75	75	225	231	120	30	10.588	8.965	£164.88	£138.15
G3-76	76	228	234	120	30	10.833	9.210	£166.23	£139.28
G3-78	78	234	240	120	30	11.333	9.710	£175.08	£146.74
G3-80	80	240	246	120	30	11.846	10.223	£183.96	£154.18
G3-82	82	246	252	120	30	12.371	10.749	£194.21	£162.69
G3-84	84	252	258	120	30	12.910	11.288	£203.50	£170.51
G3-86	86	258	264	120	30	13.462	11.839	£219.93	£184.25
G3-88	88	264	270	120	30	14.027	12.404	£233.47	£195.63
G3-90	90	270	276	120	30	14.604	12.982	£242.15	£202.95
G3-92	92	276	282	120	30	15.195	13.572	£249.69	£209.22
G3-94	94	282	288	120	30	15.799	14.176	£266.05	£222.98
G3-95	95	285	291	120	30	16.105	14.483	£276.86	£231.99
G3-96	96	288	294	120	30	16.415	14.793	£286.57	£240.15

Up to Ø750 mm

Please consult Technical for larger sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) and torque x
0.47 of 655M13(En36)

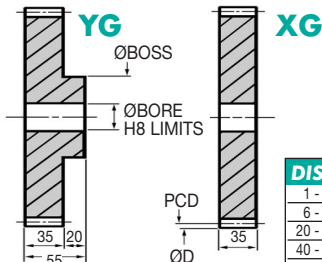
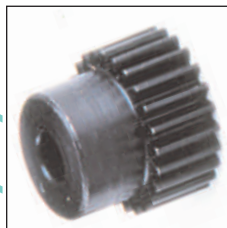
3 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm variations at back	655M13 TORQUE Nm. K.W.	655M13 Cse/HD 615.000 64.156	817M40 223.000 23.126	817M40 Ind/HD 325.000 33.570
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							YG	XG	
YG3-9	9	30	36	36	15	0.27	0.14	£25.60	£19.15
YG3-10	10	33	39	39	15	0.34	0.18	£25.62	£19.20
YG3-11	11	36	42	42	15	0.41	0.23	£25.68	£19.26
YG3-12	12	36	42	42	20	0.35	0.19	£25.76	£19.33
YG3-13	13	39	45	45	20	0.43	0.24	£26.48	£19.82
YG3-14	14	42	48	45	20	0.48	0.29	£27.61	£20.68
YG3-15	15	45	51	45	20	0.54	0.34	£28.48	£21.36
YG3-16	16	48	54	45	20	0.60	0.40	£30.26	£22.69
YG3-17	17	51	57	45	20	0.66	0.46	£31.96	£23.92
YG3-18	18	54	60	45	20	0.72	0.53	£33.66	£25.21
YG3-19	19	57	63	45	20	0.79	0.60	£34.97	£26.16
YG3-20	20	60	66	60	25	0.98	0.63	£36.00	£27.02
YG3-21	21	63	69	60	25	1.06	0.70	£37.29	£27.91
YG3-22	22	66	72	60	25	1.14	0.78	£38.54	£28.89
YG3-23	23	69	75	60	25	1.23	0.87	£39.69	£29.75
YG3-24	24	72	78	60	25	1.32	0.96	£40.88	£30.61
YG3-25	25	75	81	60	25	1.41	1.05	£43.34	£32.45
YG3-26	26	78	84	60	25	1.51	1.15	£45.77	£34.33
YG3-27	27	81	87	60	25	1.61	1.25	£46.88	£35.15
YG3-28	28	84	90	60	25	1.71	1.35	£48.24	£36.19
YG3-29	29	87	93	60	25	1.82	1.46	£50.16	£37.65
YG3-30	30	90	96	60	25	1.93	1.57	£52.01	£38.96
YG3-31	31	93	99	60	25	2.05	1.69	£53.84	£40.32

Spur Gears Steel - Heavy Duty MOD 3

23.64



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG3-32	32	96	102	60	25	2.16	1.81	£55.79	£41.84
YG3-33	33	99	105	60	25	2.29	1.93	£58.83	£44.04
YG3-34	34	102	108	75	25	2.66	2.06	£60.01	£44.97
YG3-35	35	105	111	75	25	2.79	2.19	£64.61	£48.46
YG3-36	36	108	114	75	25	2.92	2.32	£67.14	£50.32
YG3-37	37	111	117	75	25	3.06	2.46	£68.43	£51.28
YG3-38	38	114	120	75	25	3.20	2.60	£69.40	£52.01
YG3-39	39	117	123	75	25	3.35	2.75	£70.29	£52.70
YG3-40	40	120	126	75	25	3.50	2.90	£71.35	£53.46
YG3-41	41	123	129	75	25	3.65	3.05	£72.58	£54.38
YG3-42	42	126	132	75	25	3.81	3.21	£73.47	£55.09
YG3-43	43	129	135	75	25	3.97	3.37	£80.10	£60.04
YG3-44	44	132	138	100	25	4.66	3.53	£89.84	£67.37
YG3-45	45	135	141	100	25	4.83	3.70	£105.41	£79.01
YG3-46	46	138	144	100	25	5.00	3.87	£106.32	£79.72
YG3-47	47	141	147	100	25	5.18	4.05	£107.20	£80.35
YG3-48	48	144	150	100	25	5.36	4.23	£108.34	£81.23
YG3-49	49	147	153	100	25	5.54	4.41	£112.56	£84.39
YG3-50	50	150	156	100	25	5.73	4.60	£116.75	£87.56
YG3-51	51	153	159	100	25	5.92	4.79	£120.84	£90.62
YG3-52	52	156	162	100	25	6.11	4.99	£125.01	£93.76
YG3-53	53	159	165	100	25	6.31	5.19	£129.24	£96.86
YG3-54	54	162	168	100	25	6.52	5.39	£133.15	£99.85
YG3-55	55	165	171	100	25	6.72	5.60	£139.49	£104.55
YG3-56	56	168	174	100	25	6.93	5.81	£141.66	£106.23
YG3-57	57	171	177	127	25	7.88	6.02	£143.94	£107.94
YG3-58	58	174	180	127	25	8.10	6.24	£146.16	£109.61
YG3-59	59	177	183	127	25	8.32	6.46	£150.39	£112.75
YG3-60	60	180	186	127	25	8.55	6.68	£154.56	£115.88
YG3-61	61	183	189	127	25	8.78	6.91	£158.81	£119.04
YG3-62	62	186	192	127	25	9.01	7.15	£162.98	£122.20
YG3-63	63	189	195	127	25	9.25	7.38	£168.05	£125.38
YG3-64	64	192	198	127	25	9.49	7.62	£170.98	£128.20
YG3-65	65	195	201	127	25	9.73	7.87	£178.15	£128.93
YG3-68	68	204	210	127	25	10.49	8.62	£184.16	£138.09
YG3-70	70	210	216	150	30	11.68	9.09	£198.91	£149.17
YG3-72	72	216	222	150	30	12.22	9.62	£205.34	£153.91
YG3-75	75	225	231	150	30	13.06	10.46	£221.15	£165.82
YG3-76	76	228	234	150	30	13.34	10.75	£222.94	£167.15
YG3-78	78	234	240	150	30	13.92	11.33	£234.77	£176.08
YG3-80	80	240	246	150	30	14.52	11.93	£246.72	£185.02
YG3-82	82	246	252	150	30	15.14	12.54	£260.41	£195.28
YG3-84	84	252	258	150	30	15.77	13.17	£272.92	£204.65
YG3-86	86	258	264	150	30	16.41	13.81	£294.88	£221.15
YG3-88	88	264	270	150	30	17.07	14.47	£313.08	£234.77
YG3-90	90	270	276	150	30	17.74	15.15	£324.77	£243.54
YG3-92	92	276	282	150	30	18.43	15.83	£334.89	£251.12
YG3-94	94	282	288	150	30	19.13	16.54	£356.77	£267.58
YG3-95	95	285	291	150	30	19.49	16.90	£371.28	£278.39
YG3-96	96	288	294	150	30	19.85	17.26	£384.30	£288.18

Up to Ø750 mm

Please consult Technical for larger sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

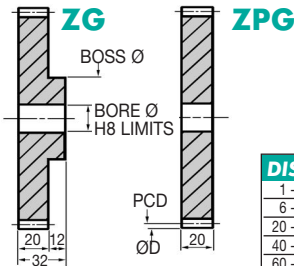
3 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 18.00



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG3-9	9	30	36	36	12	0.029	0.015	£10.43	£7.99
ZG3-10	10	33	39	36	12	0.033	0.019	£10.44	£8.02
ZG3-11	11	36	42	36	12	0.037	0.023	£10.46	£8.07
ZG3-12	12	36	42	36	15	0.035	0.022	£10.50	£8.10
ZG3-13	13	39	45	36	15	0.039	0.026	£10.79	£8.27
ZG3-14	14	42	48	36	15	0.044	0.031	£12.79	£9.82
ZG3-15	15	45	51	40	15	0.053	0.036	£13.26	£10.09
ZG3-16	16	48	54	40	15	0.059	0.042	£14.06	£10.77
ZG3-17	17	51	57	40	15	0.065	0.048	£14.83	£11.34
ZG3-18	18	54	60	48	15	0.080	0.054	£15.65	£11.93
ZG3-19	19	57	63	48	15	0.086	0.061	£16.22	£12.41
ZG3-20	20	60	66	48	15	0.093	0.068	£16.85	£12.79
ZG3-21	21	63	69	48	15	0.101	0.076	£23.60	£18.08
ZG3-22	22	66	72	48	15	0.109	0.083	£24.39	£18.69
ZG3-23	23	69	75	48	15	0.117	0.092	£25.13	£19.25
ZG3-24	24	72	78	48	15	0.125	0.100	£25.93	£19.82
ZG3-25	25	75	81	48	15	0.134	0.109	£27.42	£20.98
ZG3-26	26	78	84	60	20	0.154	0.115	£30.75	£23.53
ZG3-27	27	81	87	60	20	0.163	0.124	£31.49	£24.13
ZG3-28	28	84	90	60	20	0.173	0.134	£32.37	£24.81
ZG3-29	29	87	93	60	20	0.184	0.145	£33.64	£25.77
ZG3-30	30	90	96	60	20	0.194	0.156	£34.90	£26.70
ZG3-31	31	93	99	60	20	0.205	0.167	£40.17	£30.75

Spur Gears Plastic MOD 3

23.66



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS ø (mm)	BORE ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						ZG	ZPG	ZG	ZPG
ZG3-32	32	96	102	60	20	0.217	0.178	£41.63	£31.90
ZG3-33	33	99	105	60	20	0.229	0.190	£43.98	£33.61
ZG3-34	34	102	108	60	20	0.241	0.202	£49.23	£36.04
ZG3-35	35	105	111	60	20	0.253	0.215	£53.05	£40.65
ZG3-36	36	108	114	60	20	0.266	0.228	£55.11	£42.22
ZG3-37	37	111	117	60	20	0.280	0.241	£56.13	£43.00
ZG3-38	38	114	120	60	20	0.293	0.254	£56.99	£43.65
ZG3-39	39	117	123	60	20	0.307	0.268	£62.96	£48.21
ZG3-40	40	120	126	60	20	0.322	0.283	£63.91	£48.91
ZG3-41	41	123	129	60	20	0.336	0.298	£64.96	£49.76
ZG3-42	42	126	132	60	20	0.351	0.313	£65.84	£50.57
ZG3-43	43	129	135	60	20	0.367	0.328	£71.74	£54.92
ZG3-44	44	132	138	60	20	0.383	0.344	£80.48	£61.60
ZG3-45	45	135	141	60	20	0.399	0.360	£88.84	£66.30
ZG3-46	46	138	144	60	20	0.415	0.377	£97.42	£69.42
ZG3-47	47	141	147	60	20	0.432	0.394	£100.15	£75.81
ZG3-48	48	144	150	60	20	0.450	0.411	£105.15	£80.51
ZG3-49	49	147	153	60	20	0.467	0.428	£109.28	£83.63
ZG3-50	50	150	156	60	20	0.485	0.446	£113.34	£86.79
ZG3-51	51	153	159	60	20	0.504	0.465	£117.32	£89.84
ZG3-52	52	156	162	60	20	0.522	0.484	£140.13	£107.27
ZG3-53	53	159	165	60	20	0.541	0.503	£144.82	£110.88
ZG3-54	54	162	168	80	20	0.595	0.522	£149.17	£114.25
ZG3-55	55	165	171	80	20	0.615	0.542	£157.20	£119.68
ZG3-56	56	168	174	80	20	0.635	0.562	£158.75	£121.56
ZG3-57	57	171	177	80	20	0.655	0.583	£161.19	£123.47
ZG3-58	58	174	180	80	20	0.676	0.603	£163.70	£125.40
ZG3-59	59	177	183	80	20	0.697	0.625	£168.42	£125.69
ZG3-60	60	180	186	80	20	0.719	0.646	£173.12	£132.62
ZG3-61	61	183	189	80	20	0.741	0.668	£177.87	£136.18
ZG3-62	62	186	192	80	20	0.763	0.691	£182.59	£139.84
ZG3-63	63	189	195	80	20	0.786	0.713	£187.30	£143.46
ZG3-64	64	192	198	80	20	0.809	0.737	£191.53	£146.66
ZG3-65	65	195	201	80	20	0.833	0.760	£211.86	£162.33
ZG3-68	68	204	210	80	20	0.905	0.833	£226.90	£173.81
ZG3-70	70	210	216	80	20	0.955	0.883	£245.14	£187.73
ZG3-72	72	216	222	80	20	1.007	0.934	£253.01	£193.76

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

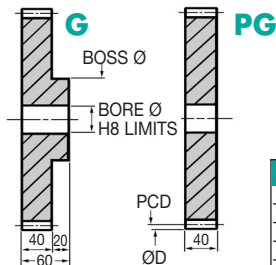
4 MOD

20° P.A.

SPECIALS : up to Ø750mm



TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	200.000	953.000	100.000	80.000
K.W.	20.888	99.964	10.444	8.206



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G4-9	9	40	48	30	20	0.349	0.288	£22.45	£19.77
G4-10	10	44	52	34	20	0.460	0.369	£22.48	£19.81
G4-11	11	48	56	38	25	0.502	0.404	£22.51	£19.85
G4-12	12	48	56	38	25	0.502	0.404	£22.57	£19.92
G4-13	13	52	60	38	25	0.598	0.500	£24.22	£21.27
G4-14	14	56	64	40	25	0.721	0.604	£25.96	£22.75
G4-15	15	60	68	40	25	0.832	0.715	£29.43	£25.59
G4-16	16	64	72	50	25	1.060	0.834	£32.66	£27.61
G4-17	17	68	76	50	25	1.187	0.961	£34.44	£29.75
G4-18	18	72	80	50	25	1.321	1.096	£36.19	£31.96
G4-19	19	76	84	50	25	1.464	1.238	£37.52	£32.05
G4-20	20	80	88	50	25	1.614	1.388	£39.20	£32.14
G4-21	21	84	92	50	25	1.771	1.546	£40.76	£35.08
G4-22	22	88	96	50	25	1.937	1.711	£42.87	£38.05
G4-23	23	92	100	50	25	2.110	1.884	£43.74	£38.74
G4-24	24	96	104	50	25	2.291	2.065	£44.63	£39.53
G4-25	25	100	108	80	30	2.849	2.188	£46.35	£40.96
G4-26	26	104	112	80	30	3.045	2.384	£48.25	£42.46
G4-27	27	108	116	80	30	3.249	2.588	£50.38	£43.88
G4-28	28	112	120	80	30	3.460	2.799	£52.31	£45.36
G4-29	29	116	124	80	30	3.680	3.018	£54.18	£46.83
G4-30	30	120	128	80	30	3.907	3.245	£56.12	£48.25
G4-31	31	124	132	80	30	4.141	3.480	£59.79	£50.82

Spur Gears Steel - Standard MOD 4

23.68



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						G	PG	G	PG
G4-32	32	128	136	80	30	4.383	3.722	£63.27	£53.38
G4-33	33	132	140	80	30	4.633	3.972	£67.33	£55.81
G4-34	34	136	144	80	30	4.891	4.230	£72.43	£58.53
G4-35	35	140	148	80	30	5.157	4.495	£77.79	£60.90
G4-36	36	144	152	80	30	5.430	4.769	£83.17	£67.06
G4-37	37	148	156	80	30	5.710	5.049	£88.21	£68.43
G4-38	38	152	160	80	30	5.999	5.338	£89.55	£69.75
G4-39	39	156	164	80	30	6.295	5.634	£94.57	£71.13
G4-40	40	160	168	80	30	6.599	5.938	£97.70	£72.43
G4-41	41	164	172	80	30	6.911	6.249	£101.40	£73.52
G4-42	42	168	176	80	30	7.230	6.569	£110.60	£76.42
G4-43	43	172	180	80	30	7.557	6.896	£112.47	£77.48
G4-44	44	176	184	80	30	7.891	7.230	£114.34	£80.39
G4-45	45	180	188	80	30	8.234	7.573	£116.23	£85.10
G4-46	46	184	192	80	30	8.584	7.923	£117.61	£88.73
G4-47	47	188	196	80	30	8.941	8.280	£118.95	£92.38
G4-48	48	192	200	80	30	9.307	8.646	£120.28	£95.95
G4-49	49	196	204	80	30	9.680	9.019	£122.96	£100.02
G4-50	50	200	208	80	30	10.061	9.400	£125.66	£104.00
G4-51	51	204	212	120	30	11.411	9.788	£128.71	£107.26
G4-52	52	208	216	120	30	11.807	10.184	£131.63	£109.65
G4-53	53	212	220	120	30	12.211	10.588	£135.44	£112.84
G4-54	54	216	224	120	30	12.622	11.000	£141.03	£117.50
G4-55	55	220	228	120	30	13.042	11.419	£153.14	£127.61
G4-56	56	224	232	120	30	13.469	11.846	£162.18	£135.10
G4-57	57	228	236	120	30	13.903	12.281	£165.89	£138.21
G4-58	58	232	240	120	30	14.346	12.723	£168.08	£140.02
G4-59	59	236	244	120	30	14.796	13.173	£174.96	£145.78
G4-60	60	240	248	120	30	15.253	13.631	£179.34	£149.45
G4-61	61	244	252	120	30	15.719	14.096	£217.25	£181.02
G4-62	62	248	256	120	30	16.192	14.569	£219.25	£182.68
G4-63	63	252	260	120	30	16.673	15.050	£223.17	£186.00
G4-64	64	256	264	120	30	17.161	15.538	£227.84	£189.86
G4-65	65	260	268	150	38	18.435	15.904	£237.50	£197.87
G4-66	66	264	272	150	38	18.939	16.408	£245.57	£204.63
G4-67	67	268	276	150	38	19.450	16.919	£254.28	£211.89
G4-68	68	272	280	150	38	19.970	17.439	£261.83	£218.23
G4-69	69	276	284	150	38	20.497	17.966	£268.67	£223.87
G4-70	70	280	288	150	38	21.031	18.500	£274.35	£228.60
G4-71	71	284	292	150	38	21.573	19.043	£290.02	£241.68
G4-72	72	288	296	150	38	22.124	19.593	£297.08	£246.68

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) and torque x
0.47 of 655M13(En36)

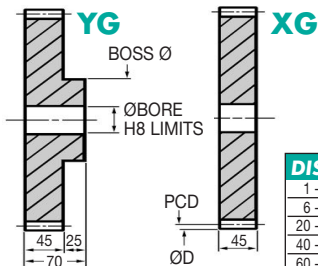
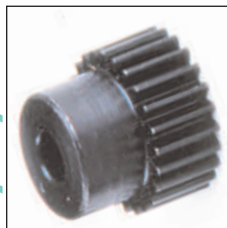
4 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations	510.000	1407.000	510.000	744.000
of back	TORQUE Nm.			
	K.W.	52.966	146.962	52.966
				77.584



DISCOUNTS

	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1-5		
							YG	XG	
YG4-9	9	40	48	48	20	0.61	0.32	£27.33	£22.45
YG4-10	10	44	52	52	20	0.76	0.42	£30.01	£22.50
YG4-11	11	48	56	56	25	0.83	0.45	£30.04	£22.51
YG4-12	12	48	56	56	25	0.83	0.45	£30.08	£22.66
YG4-13	13	52	60	60	25	1.01	0.56	£32.33	£24.22
YG4-14	14	56	64	60	25	1.13	0.68	£34.62	£25.96
YG4-15	15	60	68	60	25	1.25	0.80	£39.28	£29.43
YG4-16	16	64	72	60	25	1.39	0.94	£43.60	£32.66
YG4-17	17	68	76	60	25	1.53	1.08	£45.93	£34.44
YG4-18	18	72	80	60	25	1.68	1.23	£48.25	£36.19
YG4-19	19	76	84	60	25	1.84	1.39	£50.09	£37.52
YG4-20	20	80	88	60	25	2.01	1.56	£51.84	£38.88
YG4-21	21	84	92	60	25	2.19	1.74	£54.38	£40.76
YG4-22	22	88	96	75	25	2.68	1.93	£57.23	£42.87
YG4-23	23	92	100	75	25	2.87	2.12	£58.34	£43.74
YG4-24	24	96	104	75	25	3.07	2.32	£59.50	£44.63
YG4-25	25	100	108	75	30	3.17	2.46	£61.86	£46.35
YG4-26	26	104	112	75	30	3.39	2.68	£66.60	£48.25
YG4-27	27	108	116	75	30	3.62	2.91	£67.25	£50.38
YG4-28	28	112	120	75	30	3.86	3.15	£69.76	£52.31
YG4-29	29	116	124	100	30	4.76	3.40	£72.26	£54.18
YG4-30	30	120	128	100	30	5.02	3.65	£74.92	£56.12
YG4-31	31	124	132	100	30	5.28	3.92	£79.73	£59.79

Spur Gears Steel - Heavy Duty MOD 4

23.70



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS ø (mm)	BORE ø (mm)	WEIGHT (kg)		PRICE EACH 1-5	
						YG	XG	YG	XG
YG4-32	32	128	136	100	30	5.55	4.19	£84.41	£63.27
YG4-33	33	132	140	100	30	5.84	4.47	£89.49	£67.06
YG4-34	34	136	144	100	30	6.13	4.76	£96.64	£72.43
YG4-35	35	140	148	100	30	6.42	5.06	£103.73	£77.80
YG4-36	36	144	152	100	30	6.73	5.36	£110.96	£83.17
YG4-37	37	148	156	100	30	7.05	5.68	£117.63	£88.21
YG4-38	38	152	160	100	30	7.37	6.01	£120.90	£89.55
YG4-39	39	156	164	100	30	7.71	6.34	£126.07	£94.57
YG4-40	40	160	168	100	30	8.05	6.68	£130.34	£106.86
YG4-41	41	164	172	100	30	8.40	7.03	£135.23	£108.77
YG4-42	42	168	176	127	30	9.68	7.39	£147.53	£110.60
YG4-43	43	172	180	127	30	10.05	7.76	£150.02	£112.47
YG4-44	44	176	184	127	30	10.42	8.13	£152.51	£114.34
YG4-45	45	180	188	127	30	10.81	8.52	£155.03	£116.23
YG4-46	46	184	192	127	30	11.20	8.91	£156.82	£117.63
YG4-47	47	188	196	127	30	11.60	9.32	£158.60	£118.95
YG4-48	48	192	200	127	30	12.01	9.73	£160.40	£120.28
YG4-49	49	196	204	127	30	12.43	10.15	£163.96	£122.96
YG4-50	50	200	208	127	30	12.86	10.57	£167.58	£125.66
YG4-51	51	204	212	127	30	13.30	11.01	£171.65	£128.71
YG4-52	52	208	216	127	30	13.75	11.46	£175.55	£131.63
YG4-53	53	212	220	127	30	14.20	11.91	£180.66	£135.44
YG4-54	54	216	224	127	30	14.66	12.37	£188.08	£141.03
YG4-55	55	220	228	127	30	15.13	12.85	£204.21	£153.14
YG4-56	56	224	232	127	30	15.61	13.33	£216.27	£162.18
YG4-57	57	228	236	127	30	16.10	13.82	£221.20	£165.89
YG4-58	58	232	240	127	30	16.60	14.31	£224.09	£168.08
YG4-59	59	236	244	127	30	17.11	14.82	£233.26	£174.96
YG4-60	60	240	248	127	30	17.62	15.33	£239.17	£179.34
YG4-61	61	244	252	127	30	18.15	15.86	£289.71	£217.25
YG4-62	62	248	256	127	30	18.68	16.39	£292.35	£219.25
YG4-63	63	252	260	127	30	19.22	16.93	£297.63	£223.17
YG4-64	64	256	264	127	38	19.54	17.33	£303.86	£227.84
YG4-65	65	260	268	150	38	21.06	17.89	£316.68	£237.50
YG4-66	66	264	272	150	38	21.62	18.46	£327.43	£245.57
YG4-67	67	268	276	150	38	22.20	19.03	£339.07	£254.28
YG4-68	68	272	280	150	38	22.78	19.62	£349.15	£261.83
YG4-69	69	276	284	150	38	23.37	20.21	£358.29	£268.67
YG4-70	70	280	288	150	38	23.98	20.81	£365.81	£274.35
YG4-71	71	284	292	150	38	24.59	21.42	£386.69	£290.02
YG4-72	72	288	296	150	38	25.21	22.04	£396.10	£297.08

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

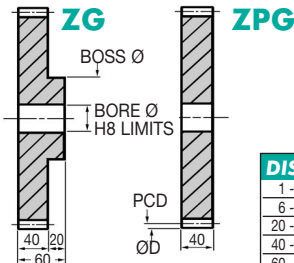
4 MOD

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 55



DISCOUNTS	
	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG4-9	9	40	48	30	20	£14.61	£12.79
ZG4-10	10	44	52	34	20	£14.65	£12.85
ZG4-11	11	48	56	38	25	£14.68	£12.94
ZG4-12	12	48	56	38	25	£14.73	£13.00
ZG4-13	13	52	60	38	25	£15.70	£13.77
ZG4-14	14	56	64	40	25	£16.83	£14.74
ZG4-15	15	60	68	40	25	£19.07	£16.57
ZG4-16	16	64	72	50	25	£21.21	£17.94
ZG4-17	17	68	76	50	25	£22.36	£19.33
ZG4-18	18	72	80	50	25	£23.49	£20.70
ZG4-19	19	76	84	50	25	£24.38	£20.82
ZG4-20	20	80	88	50	25	£25.08	£20.87
ZG4-21	21	84	92	50	25	£26.44	£22.76
ZG4-22	22	88	96	50	25	£27.87	£24.70
ZG4-23	23	92	100	50	25	£28.40	£25.12
ZG4-24	24	96	104	50	25	£28.97	£25.62
ZG4-25	25	100	108	80	30	£30.10	£26.60
ZG4-26	26	104	112	80	30	£31.33	£27.57
ZG4-27	27	108	116	80	30	£32.71	£28.48
ZG4-28	28	112	120	80	30	£33.97	£29.42
ZG4-29	29	116	124	80	30	£35.17	£30.39
ZG4-30	30	120	128	80	30	£36.45	£31.33
ZG4-31	31	124	132	80	30	£38.85	£32.98

Spur Gears Plastic MOD 4

23.72



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG4-32	32	128	136	80	30	£77.89	£65.69
ZG4-33	33	132	140	80	30	£83.44	£68.71
ZG4-34	34	136	144	80	30	£89.16	£71.97
ZG4-35	35	140	148	80	30	£96.69	£74.98
ZG4-36	36	144	152	80	30	£102.36	£82.60
ZG4-37	37	148	156	80	30	£108.55	£84.20
ZG4-38	38	152	160	80	30	£110.22	£85.85
ZG4-39	39	156	164	80	30	£116.41	£87.50
ZG4-40	40	160	168	80	30	£120.27	£89.16
ZG4-41	41	164	172	80	30	£124.83	£90.48
ZG4-42	42	168	176	80	30	£136.15	£94.09
ZG4-43	43	172	180	80	30	£138.46	£95.38
ZG4-44	44	176	184	80	30	£140.79	£98.97
ZG4-45	45	180	188	80	30	£143.11	£104.76
ZG4-46	46	184	192	80	30	£144.72	£109.26
ZG4-47	47	188	196	80	30	£146.42	£113.71
ZG4-48	48	192	200	80	30	£148.05	£118.11
ZG4-49	49	196	204	80	30	£151.34	£123.13
ZG4-50	50	200	208	80	30	£154.63	£128.05
ZG4-51	51	204	212	120	30	£158.45	£131.99
ZG4-52	52	208	216	120	30	£162.03	£135.02
ZG4-53	53	212	220	120	30	£166.71	£138.89
ZG4-54	54	216	224	120	30	£173.60	£144.62
ZG4-55	55	220	228	120	30	£188.48	£157.06
ZG4-56	56	224	232	120	30	£199.59	£166.29
ZG4-57	57	228	236	120	30	£204.21	£170.08
ZG4-58	58	232	240	120	30	£206.87	£172.37
ZG4-59	59	236	244	120	30	£215.31	£179.42
ZG4-60	60	240	248	120	30	£220.76	£183.92
ZG4-61	61	244	252	120	30	£267.39	£222.78
ZG4-62	62	248	256	120	30	£269.87	£224.86
ZG4-63	63	252	260	120	30	£274.70	£228.93
ZG4-64	64	256	264	120	30	£280.44	£233.69
ZG4-65	65	260	268	150	38	£292.25	£243.55
ZG4-66	66	264	272	150	38	£302.20	£251.86
ZG4-67	67	268	276	150	38	£312.97	£260.77
ZG4-68	68	272	280	150	38	£322.23	£268.57
ZG4-69	69	276	284	150	38	£330.68	£275.60
ZG4-70	70	280	288	150	38	£337.68	£281.36
ZG4-71	71	284	292	150	38	£356.98	£297.45
ZG4-72	72	288	296	150	38	£365.64	£303.59

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol

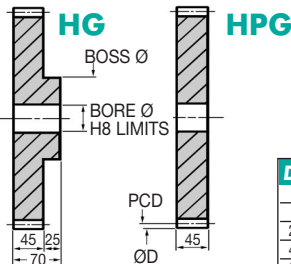
5 MOD

20° P.A.

Specials up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	294.00	1570	80.00	120.00
TORQUE Nm.				
K.W.	30.80	165	8.30	12.60



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						HG	HPG
HG5-12	12	60	70	40	20	£51.34	£38.56
HG5-14	14	70	80	50	25	£53.93	£40.56
HG5-15	15	75	85	50	25	£56.00	£42.04
HG5-18	18	90	100	70	30	£65.21	£49.00
HG5-19	19	95	105	70	30	£66.46	£49.96
HG5-20	20	100	110	80	30	£72.21	£54.26
HG5-21	21	105	115	80	30	£75.13	£56.48
HG5-22	22	110	120	80	30	£77.93	£58.59
HG5-23	23	115	125	85	30	£80.74	£60.72
HG5-24	24	120	130	85	30	£83.64	£62.89
HG5-25	25	125	135	85	30	£89.07	£66.95
HG5-30	30	150	160	100	30	£135.09	£101.53
HG5-35	35	175	185	100	30	£170.45	£128.12
HG5-38	38	190	200	100	38	£179.18	£134.69
HG5-40	40	200	210	150	38	£191.80	£144.16
HG5-42	42	210	220	150	38	£201.82	£151.70
HG5-45	45	225	235	150	38	£235.35	£176.92
HG5-50	50	250	260	150	38	£332.52	£250.01
HG5-52	52	260	270	150	38	£365.85	£275.04
HG5-55	55	275	285	150	38	£408.69	£307.24
HG5-60	60	300	310	150	38	£442.55	£332.72

Up to Ø750 mm

Please consult Technical for larger sizes.

23.74



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Spur Gears Steel-Standard MOD 5

Materials

STD : White Delrin

Plastic Delrin (fully machined)

Specials up to Ø750 mm

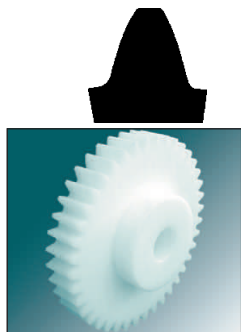
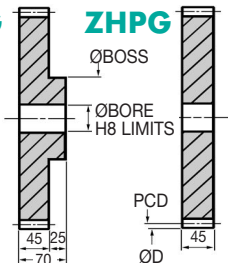
20° P.A.

5 MOD

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 90

ZHG

ZHPG



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZHG	ZHPG
ZHG5-12	12	60	70	40	20	£48.92	£36.75
ZHG5-14	14	70	80	50	25	£51.41	£38.64
ZHG5-15	15	75	85	50	25	£53.38	£40.06
ZHG5-18	18	90	100	70	30	£62.18	£46.69
ZHG5-19	19	95	105	70	30	£63.39	£47.63
ZHG5-20	20	100	110	80	30	£68.84	£51.71
ZHG5-21	21	105	115	80	30	£71.60	£53.82
ZHG5-22	22	110	120	80	30	£74.33	£55.83
ZHG5-23	23	115	125	85	30	£76.99	£57.87
ZHG5-24	24	120	130	85	30	£79.80	£59.97
ZHG5-25	25	125	135	85	30	£84.95	£63.82
ZHG5-30	30	150	160	100	30	£128.78	£96.78
ZHG5-35	35	175	185	100	30	£162.45	£122.13
ZHG5-38	38	190	200	100	38	£170.83	£128.41
ZHG5-40	40	200	210	150	38	£182.81	£137.43
ZHG5-42	42	210	220	150	38	£192.39	£144.62
ZHG5-45	45	225	235	150	38	£224.36	£168.68
ZHG5-50	50	250	260	150	38	£316.98	£238.31
ZHG5-52	52	260	270	150	38	£348.78	£262.21
ZHG5-55	55	275	285	150	38	£389.58	£292.92
ZHG5-60	60	300	310	150	38	£421.86	£317.19

Up to Ø750 mm

Please consult Technical for larger sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003



23.75

Spur Gears Plastic - Fully Machined MOD 5

Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

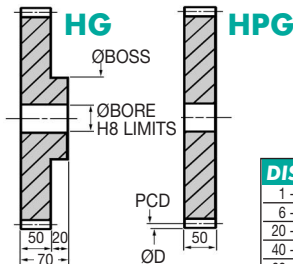
6 MOD

ALTERNATIVE : Brass, Tufnol

20° P.A.

Specials up to Ø750 mm

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	441	2350	120.00	180.00
	K.W.	46	246	12.60	18.80



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						HG	HPG
HG6-12	12	72	84	50	25	£61.60	£46.30
HG6-14	14	84	96	60	25	£64.76	£48.66
HG6-15	15	90	102	65	25	£67.18	£50.49
HG6-18	18	108	120	80	30	£78.29	£58.83
HG6-19	19	114	126	80	30	£79.82	£59.99
HG6-20	20	120	132	90	30	£86.71	£65.17
HG6-21	21	126	138	90	30	£90.17	£67.77
HG6-22	22	132	144	90	30	£93.55	£70.31
HG6-23	23	138	150	90	30	£96.95	£72.85
HG6-24	24	144	156	90	30	£100.44	£75.47
HG6-25	25	150	162	90	30	£106.95	£80.39
HG6-30	30	180	192	100	30	£162.14	£121.86
HG6-31	31	186	198	100	30	£204.51	£153.76
HG6-32	32	192	204	120	38	£215.05	£161.65
HG6-35	35	210	222	120	38	£230.18	£173.03
HG6-38	38	228	240	120	38	£242.20	£182.10
HG6-40	40	240	252	150	38	£282.45	£212.33
HG6-41	41	246	258	150	38	£399.07	£299.98
HG6-42	42	252	264	150	38	£439.03	£330.13
HG6-44	44	264	276	150	38	£490.46	£368.70
HG6-45	45	270	282	150	38	£531.07	£399.28

Up to Ø750 mm

Please consult Technical for larger sizes.

23.76



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Spur Gears Steel - Standard MOD 6

Materials

STD : White Delrin

Plastic Delrin (fully machined)

Specials up to Ø750 mm

20° P.A.

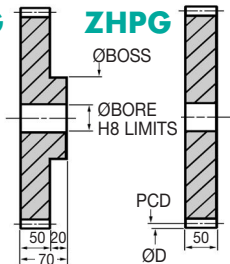
6 MOD

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 140



ZHG

ZHPG



Popular Sizes in Stock

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS ø (mm)	BORE ø (mm)	PRICE EACH 1-5	
						ZHG	ZHPG
ZHG6-12	12	72	84	50	25	£58.75	£44.14
ZHG6-14	14	84	96	60	25	£61.73	£46.36
ZHG6-15	15	90	102	65	25	£64.02	£48.13
ZHG6-18	18	108	120	80	30	£74.62	£56.08
ZHG6-19	19	114	126	80	30	£76.08	£57.19
ZHG6-20	20	120	132	90	30	£82.66	£62.09
ZHG6-21	21	126	138	90	30	£85.97	£64.59
ZHG6-22	22	132	144	90	30	£89.20	£67.02
ZHG6-23	23	138	150	90	30	£92.40	£69.42
ZHG6-24	24	144	156	90	30	£95.74	£71.96
ZHG6-25	25	150	162	90	30	£101.94	£76.61
ZHG6-30	30	180	192	100	30	£154.56	£116.17
ZHG6-31	31	186	198	100	30	£194.96	£146.55
ZHG6-32	32	192	204	120	38	£204.99	£154.12
ZHG6-35	35	210	222	120	38	£219.43	£164.93
ZHG6-38	38	228	240	120	38	£230.91	£173.56
ZHG6-40	40	240	252	150	38	£269.23	£202.41
ZHG6-41	41	246	258	150	38	£380.41	£286.00
ZHG6-42	42	252	264	150	38	£418.51	£314.65
ZHG6-44	44	264	276	150	38	£467.54	£351.47
ZHG6-45	45	270	282	150	38	£506.30	£380.65

Up to Ø750 mm

Please consult Technical for larger sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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23.77

Spur Gears Plastic - Fully Machined MOD 6

Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

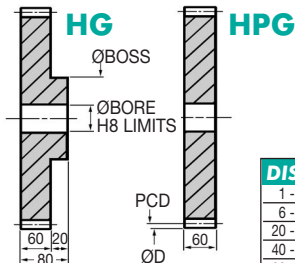
ALTERNATIVE : Brass, Tufnol

8 MOD

20° P.A.

Specials up to Ø750 mm

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	918	5360	460	364
	K.W.	96	560	48	38



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						HG	HPG
HG8-12	12	96	112	50	25	£73.89	£58.07
HG8-14	14	112	128	50	25	£87.79	£68.97
HG8-15	15	120	136	50	25	£95.36	£74.93
HG8-16	16	128	144	75	25	£102.93	£80.86
HG8-18	18	144	160	75	25	£117.63	£92.43
HG8-19	19	152	168	75	25	£141.15	£115.56
HG8-20	20	160	176	75	25	£176.50	£150.27
HG8-21	21	168	184	75	30	£229.49	£195.41
HG8-22	22	176	192	75	30	£275.39	£234.47
HG8-23	23	184	200	100	30	£330.50	£281.41
HG8-24	24	192	208	100	30	£396.59	£323.62
HG8-25	25	200	216	100	30	£473.99	£356.33
HG8-30	30	240	256	100	30	£557.61	£419.23
HG8-35	35	280	296	100	30	£585.49	£461.21
HG8-40	40	320	336	100	30	£614.77	£484.27

'Never Knowingly Outpriced'

Up to Ø750 mm

Please consult Technical for larger sizes.

23.78



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Materials

STD : White Delrin

Plastic Delrin (fully machined)

Specials up to Ø750mm

20° P.A.

8 MOD

TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 179

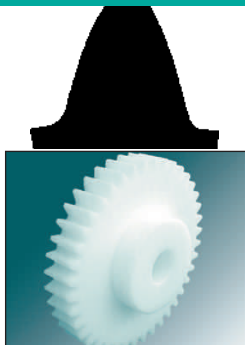
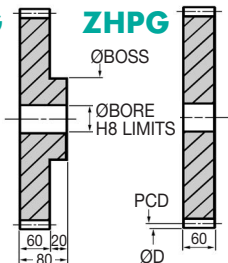
ZHG

ZHPG

Popular Sizes
in Stock

DISCOUNTS

1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%



Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZHG	ZHPG
ZHG8-12	12	96	112	50	25	£47.99	£37.71
ZHG8-14	14	112	128	50	25	£57.02	£44.79
ZHG8-15	15	120	136	50	25	£61.95	£48.66
ZHG8-16	16	128	144	75	25	£66.85	£52.53
ZHG8-18	18	144	160	75	25	£76.42	£60.07
ZHG8-19	19	152	168	75	25	£91.70	£75.10
ZHG8-20	20	160	176	75	25	£114.65	£97.68
ZHG8-21	21	168	184	75	30	£149.12	£126.97
ZHG8-22	22	176	192	75	30	£178.98	£152.39
ZHG8-23	23	184	200	100	30	£214.82	£182.87
ZHG8-24	24	192	208	100	30	£257.75	£210.31
ZHG8-25	25	200	216	100	30	£308.01	£231.57
ZHG8-30	30	240	256	100	30	£362.40	£272.44
ZHG8-35	35	280	296	100	30	£380.51	£299.78
ZHG8-40	40	320	336	100	30	£399.56	£314.77

'Never Knowingly Outpriced'

Up to Ø750 mm

Please consult Technical for larger sizes.

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23.79

Spur Gears Plastic - Fully Machined MOD 8

Spur Gears

Materials

Standard duty

STD : *Stainless Steel 303S21 (En58)*

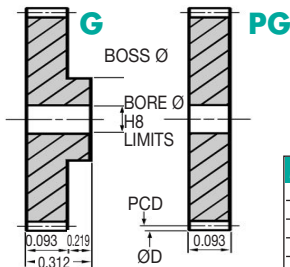
ALTERNATIVE : *Brass, Tufnol or Delrin*

96 DP

20° P.A.

SPECIAL TEETH : *between 20 - 400*

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	0.050	0.230	0.024	0.019
	K.W.	0.005	0.024	0.002	0.002



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G96-20	20	0.208	0.229	0.229	0.094	£12.22	£8.60
G96-21	21	0.219	0.240	0.240	0.094	£12.33	£8.66
G96-22	22	0.229	0.250	0.250	0.094	£12.40	£8.81
G96-23	23	0.240	0.260	0.260	0.094	£12.51	£8.87
G96-24	24	0.250	0.271	0.271	0.094	£12.66	£8.93
G96-25	25	0.260	0.281	0.281	0.094	£12.75	£9.03
G96-26	26	0.271	0.292	0.292	0.094	£12.83	£9.18
G96-27	27	0.281	0.302	0.302	0.094	£12.95	£9.28
G96-28	28	0.292	0.313	0.313	0.094	£13.03	£9.37
G96-29	29	0.302	0.323	0.323	0.094	£13.14	£9.47
G96-30	30	0.313	0.333	0.333	0.125	£13.27	£9.51
G96-31	31	0.323	0.344	0.344	0.125	£13.37	£9.67
G96-32	32	0.333	0.354	0.354	0.125	£13.46	£9.82
G96-33	33	0.344	0.365	0.365	0.125	£13.59	£9.84
G96-34	34	0.354	0.375	0.375	0.125	£13.68	£9.96
G96-35	35	0.365	0.385	0.385	0.125	£13.82	£10.01
G96-36	36	0.375	0.396	0.396	0.125	£13.96	£10.19
G96-37	37	0.385	0.406	0.406	0.125	£14.05	£10.22
G96-38	38	0.396	0.417	0.417	0.125	£14.15	£10.30
G96-39	39	0.406	0.427	0.427	0.125	£14.27	£10.32
G96-40	40	0.417	0.438	0.375	0.125	£14.36	£10.43
G96-41	41	0.427	0.448	0.375	0.125	£14.46	£10.47
G96-42	42	0.438	0.458	0.375	0.125	£14.64	£10.70

Spur Gears Steel - Standard DP 96

23.80



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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G96-43	43	0.448	0.469	0.375	0.125	£14.68	£10.80
G96-44	44	0.458	0.479	0.375	0.125	£14.77	£10.95
G96-45	45	0.469	0.490	0.375	0.125	£14.90	£11.15
G96-46	46	0.479	0.500	0.375	0.125	£15.00	£11.28
G96-47	47	0.490	0.510	0.375	0.125	£15.12	£11.33
G96-48	48	0.500	0.521	0.375	0.125	£15.55	£11.49
G96-49	49	0.510	0.531	0.375	0.125	£15.65	£11.59
G96-50	50	0.521	0.542	0.375	0.125	£15.76	£11.73
G96-52	52	0.542	0.563	0.375	0.125	£15.77	£11.89
G96-54	54	0.563	0.583	0.375	0.125	£15.82	£12.04
G96-55	55	0.573	0.594	0.375	0.125	£15.83	£12.09
G96-58	58	0.604	0.625	0.500	0.125	£15.95	£12.15
G96-60	60	0.625	0.646	0.500	0.125	£16.13	£12.16
G96-62	62	0.646	0.667	0.500	0.125	£16.24	£12.22
G96-63	63	0.656	0.677	0.500	0.125	£16.38	£12.23
G96-64	64	0.667	0.688	0.500	0.125	£16.49	£12.34
G96-65	65	0.677	0.698	0.500	0.187	£16.68	£12.40
G96-68	68	0.708	0.729	0.500	0.187	£16.81	£12.50
G96-70	70	0.729	0.750	0.500	0.187	£16.94	£12.51
G96-72	72	0.750	0.771	0.500	0.187	£17.13	£12.56
G96-75	75	0.781	0.802	0.500	0.187	£17.26	£12.65
G96-76	76	0.792	0.813	0.500	0.187	£17.37	£12.66
G96-80	80	0.833	0.854	0.500	0.187	£17.59	£12.68
G96-84	84	0.875	0.896	0.500	0.187	£17.65	£12.83
G96-86	86	0.896	0.917	0.500	0.187	£17.67	£13.03
G96-88	88	0.917	0.938	0.500	0.187	£17.80	£13.19
G96-90	90	0.938	0.958	0.500	0.187	£17.87	£13.31
G96-93	93	0.969	0.990	0.500	0.187	£17.98	£13.59
G96-95	95	0.990	1.010	0.500	0.187	£18.12	£13.77
G96-96	96	1.000	1.021	0.500	0.187	£18.18	£13.95
G96-97	97	1.010	1.031	0.500	0.187	£18.29	£14.13
G96-99	99	1.031	1.052	0.500	0.187	£18.40	£14.27
G96-100	100	1.042	1.063	0.500	0.187	£18.45	£14.46
G96-108	108	1.125	1.146	0.500	0.187	£18.61	£14.67
G96-110	110	1.146	1.157	0.500	0.187	£18.69	£14.83
G96-115	115	1.198	1.219	0.500	0.187	£18.83	£15.07
G96-120	120	1.250	1.271	0.500	0.187	£19.07	£15.39
G96-124	124	1.292	1.313	0.500	0.187	£19.33	£15.55
G96-127	127	1.323	1.344	0.500	0.187	£19.61	£15.77
G96-130	130	1.354	1.375	0.500	0.187	£19.98	£15.93
G96-132	132	1.375	1.396	0.500	0.187	£20.42	£16.19
G96-136	136	1.417	1.438	0.500	0.187	£21.33	£17.28
G96-140	140	1.458	1.479	0.500	0.187	£22.21	£17.90
G96-148	148	1.542	1.563	0.500	0.187	£23.71	£19.16
G96-150	150	1.563	1.583	0.500	0.187	£24.67	£20.88
G96-156	156	1.625	1.646	0.500	0.187	£27.68	£26.56
G96-180	180	1.875	1.896	0.625	0.250	£33.09	£28.13
G96-200	200	2.083	2.104	0.625	0.250	£34.75	£29.43
G96-250	250	2.604	2.625	0.625	0.250	£40.98	£31.68

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : *Stainless Steel 303S21 (En58)*

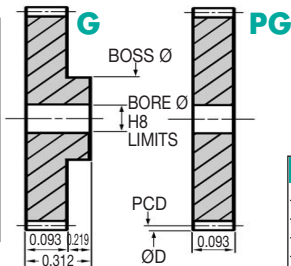
ALTERNATIVE : *Brass, Tufnol or Delrin*

80 DP

20° P.A.

SPECIAL TEETH : *between 20 - 300*

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 0.320 0.033	Brass 0.034 0.003	Tufnol 0.027 0.003
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G80-20	20	0.250	0.275	0.275	0.125	£9.51	£8.60
G80-21	21	0.263	0.288	0.288	0.125	£9.67	£8.63
G80-22	22	0.275	0.300	0.300	0.125	£9.76	£8.73
G80-23	23	0.288	0.313	0.313	0.125	£9.84	£8.81
G80-24	24	0.300	0.325	0.325	0.125	£9.96	£8.86
G80-25	25	0.313	0.338	0.338	0.125	£10.02	£8.91
G80-26	26	0.325	0.350	0.350	0.125	£10.19	£8.96
G80-27	27	0.338	0.363	0.363	0.125	£10.28	£9.03
G80-28	28	0.350	0.375	0.375	0.125	£10.35	£9.09
G80-29	29	0.363	0.388	0.388	0.125	£10.46	£9.22
G80-30	30	0.375	0.400	0.400	0.125	£10.57	£9.28
G80-31	31	0.388	0.413	0.413	0.125	£10.75	£9.32
G80-32	32	0.400	0.425	0.425	0.125	£10.80	£9.38
G80-33	33	0.413	0.438	0.438	0.125	£10.94	£9.47
G80-34	34	0.425	0.450	0.450	0.125	£10.99	£9.51
G80-35	35	0.438	0.463	0.463	0.125	£11.21	£9.55
G80-36	36	0.450	0.475	0.375	0.125	£11.36	£9.61
G80-37	37	0.463	0.488	0.375	0.125	£11.50	£9.67
G80-38	38	0.475	0.500	0.375	0.125	£11.65	£9.70
G80-39	39	0.488	0.513	0.375	0.125	£11.73	£9.72
G80-40	40	0.500	0.525	0.375	0.125	£11.84	£9.76
G80-41	41	0.513	0.538	0.375	0.125	£11.91	£9.82
G80-42	42	0.525	0.550	0.375	0.125	£12.06	£9.83

Spur Gears Steel - Standard DP 80

23.82



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G80-43	43	0.538	0.563	0.375	0.125	£12.15	£9.84
G80-44	44	0.550	0.575	0.375	0.125	£12.23	£9.93
G80-45	45	0.563	0.588	0.375	0.125	£12.34	£9.96
G80-46	46	0.575	0.600	0.375	0.125	£12.44	£10.01
G80-47	47	0.588	0.613	0.375	0.125	£12.56	£10.09
G80-48	48	0.600	0.625	0.375	0.125	£12.68	£10.19
G80-49	49	0.613	0.638	0.375	0.125	£12.77	£10.24
G80-50	50	0.625	0.650	0.375	0.125	£12.84	£10.28
G80-52	52	0.650	0.675	0.375	0.125	£13.00	£10.30
G80-54	54	0.675	0.700	0.375	0.125	£13.09	£10.32
G80-55	55	0.688	0.713	0.500	0.187	£13.19	£10.35
G80-58	58	0.725	0.750	0.500	0.187	£13.37	£10.43
G80-60	60	0.750	0.775	0.500	0.187	£13.54	£10.47
G80-62	62	0.775	0.800	0.500	0.187	£13.70	£10.57
G80-63	63	0.788	0.813	0.500	0.187	£13.93	£10.65
G80-64	64	0.800	0.825	0.500	0.187	£14.05	£10.70
G80-65	65	0.813	0.838	0.500	0.187	£14.25	£10.72
G80-68	68	0.850	0.875	0.500	0.187	£14.38	£10.75
G80-70	70	0.875	0.900	0.500	0.187	£14.64	£10.76
G80-72	72	0.900	0.925	0.500	0.187	£14.73	£10.79
G80-75	75	0.938	0.963	0.500	0.187	£14.95	£10.82
G80-76	76	0.950	0.975	0.500	0.187	£15.07	£10.94
G80-80	80	1.000	1.025	0.500	0.187	£15.19	£10.95
G80-84	84	1.050	1.075	0.500	0.187	£15.38	£11.06
G80-86	86	1.075	1.100	0.500	0.187	£15.47	£11.20
G80-88	88	1.100	1.125	0.500	0.187	£15.57	£11.28
G80-90	90	1.125	1.150	0.500	0.187	£15.70	£11.35
G80-93	93	1.163	1.188	0.500	0.187	£15.82	£11.50
G80-95	95	1.188	1.213	0.500	0.187	£15.90	£11.59
G80-96	96	1.200	1.225	0.500	0.187	£15.97	£11.66
G80-97	97	1.213	1.238	0.500	0.187	£16.13	£11.73
G80-99	99	1.238	1.263	0.500	0.187	£16.22	£11.81
G80-100	100	1.250	1.275	0.500	0.187	£16.38	£11.89
G80-108	108	1.350	1.375	0.500	0.187	£16.44	£12.09
G80-110	110	1.375	1.400	0.500	0.187	£16.45	£12.23
G80-115	115	1.438	1.463	0.500	0.187	£16.49	£12.51
G80-120	120	1.500	1.525	0.500	0.187	£16.60	£12.77
G80-124	124	1.550	1.575	0.500	0.187	£16.68	£12.95
G80-127	127	1.588	1.613	0.500	0.187	£16.72	£13.14
G80-130	130	1.625	1.650	0.500	0.187	£16.77	£13.37
G80-132	132	1.650	1.675	0.500	0.187	£16.83	£13.61
G80-136	136	1.700	1.725	0.500	0.187	£16.90	£13.64
G80-140	140	1.750	1.775	0.500	0.187	£16.92	£13.68
G80-148	148	1.850	1.875	0.500	0.187	£17.81	£14.38
G80-150	150	1.875	1.900	0.625	0.250	£19.25	£15.55
G80-156	156	1.950	1.975	0.625	0.250	£23.26	£15.97
G80-160	160	2.000	2.025	0.625	0.250	£27.92	£20.46
G80-180	180	2.250	2.275	0.625	0.250	£37.18	£25.77
G80-200	200	2.500	2.525	0.625	0.250	£38.55	£30.41

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

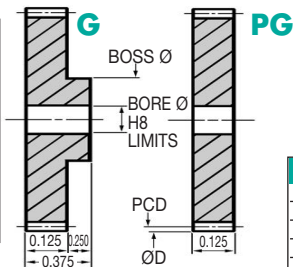
ALTERNATIVE : Brass, Tufnol or Delrin

72 DP

20° P.A.

SPECIAL TEETH : between 20 - 300

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 0.530 0.055	Brass 0.056 0.006	Tufnol 0.044 0.004
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G72-20	20	0.278	0.306	0.306	0.125	£9.51	£8.60
G72-21	21	0.292	0.319	0.319	0.125	£9.67	£8.63
G72-22	22	0.306	0.333	0.333	0.125	£9.76	£8.73
G72-23	23	0.319	0.347	0.347	0.125	£9.84	£8.81
G72-24	24	0.333	0.361	0.361	0.125	£9.96	£8.86
G72-25	25	0.347	0.375	0.375	0.125	£10.02	£8.91
G72-26	26	0.361	0.389	0.389	0.125	£10.19	£8.96
G72-27	27	0.375	0.403	0.403	0.125	£10.28	£9.03
G72-28	28	0.389	0.417	0.417	0.125	£10.35	£9.09
G72-29	29	0.403	0.431	0.431	0.125	£10.46	£9.22
G72-30	30	0.417	0.444	0.375	0.125	£10.57	£9.28
G72-31	31	0.431	0.458	0.375	0.125	£10.75	£9.32
G72-32	32	0.444	0.472	0.375	0.125	£10.80	£9.38
G72-33	33	0.458	0.486	0.375	0.125	£10.94	£9.47
G72-34	34	0.472	0.500	0.375	0.125	£10.99	£9.51
G72-35	35	0.486	0.514	0.375	0.125	£11.21	£9.55
G72-36	36	0.500	0.528	0.375	0.125	£11.36	£9.61
G72-37	37	0.514	0.542	0.375	0.125	£11.50	£9.67
G72-38	38	0.528	0.556	0.375	0.125	£11.65	£9.70
G72-39	39	0.542	0.569	0.375	0.125	£11.73	£9.72
G72-40	40	0.556	0.583	0.375	0.125	£11.84	£9.76
G72-41	41	0.569	0.597	0.375	0.125	£11.91	£9.82
G72-42	42	0.583	0.611	0.375	0.125	£12.06	£9.83

Spur Gears Steel - Standard DP 72

23.84



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G72-43	43	0.597	0.625	0.375	0.125	£12.15	£9.84
G72-44	44	0.611	0.639	0.375	0.125	£12.23	£9.93
G72-45	45	0.625	0.653	0.375	0.125	£12.34	£9.96
G72-46	46	0.639	0.667	0.375	0.125	£12.44	£10.01
G72-47	47	0.635	0.681	0.375	0.125	£12.56	£10.09
G72-48	48	0.667	0.694	0.375	0.125	£12.68	£10.19
G72-49	49	0.681	0.708	0.375	0.125	£12.77	£10.24
G72-50	50	0.694	0.722	0.500	0.187	£12.84	£10.28
G72-52	52	0.722	0.750	0.500	0.187	£13.00	£10.30
G72-54	54	0.750	0.778	0.500	0.187	£13.09	£10.32
G72-55	55	0.764	0.792	0.500	0.187	£13.19	£10.35
G72-58	58	0.806	0.833	0.500	0.187	£13.37	£10.43
G72-60	60	0.833	0.861	0.500	0.187	£13.54	£10.47
G72-62	62	0.861	0.889	0.500	0.187	£13.70	£10.57
G72-63	63	0.875	0.903	0.500	0.187	£13.93	£10.65
G72-64	64	0.889	0.917	0.500	0.187	£14.05	£10.70
G72-65	65	0.903	0.931	0.500	0.187	£14.25	£10.72
G72-68	68	0.944	0.972	0.500	0.187	£14.38	£10.75
G72-70	70	0.972	1.000	0.500	0.187	£14.64	£10.76
G72-72	72	1.000	1.028	0.500	0.187	£14.73	£10.79
G72-75	75	1.042	1.069	0.500	0.187	£14.95	£10.94
G72-76	76	1.056	1.083	0.500	0.187	£15.07	£10.94
G72-80	80	1.111	1.139	0.500	0.187	£15.19	£10.95
G72-84	84	1.167	1.194	0.500	0.187	£15.38	£11.06
G72-86	86	1.194	1.222	0.500	0.187	£15.47	£11.20
G72-88	88	1.222	1.250	0.500	0.187	£15.57	£11.28
G72-90	90	1.250	1.278	0.500	0.187	£15.70	£11.35
G72-93	93	1.292	1.319	0.500	0.187	£15.82	£11.50
G72-95	95	1.319	1.347	0.500	0.187	£15.90	£11.59
G72-96	96	1.333	1.361	0.500	0.187	£15.97	£11.66
G72-97	97	1.347	1.375	0.500	0.187	£16.13	£11.73
G72-99	99	1.375	1.403	0.500	0.187	£16.22	£11.81
G72-100	100	1.389	1.417	0.500	0.187	£16.29	£11.89
G72-108	108	1.500	1.528	0.500	0.187	£16.44	£12.09
G72-110	110	1.528	1.556	0.500	0.187	£16.45	£12.23
G72-115	115	1.597	1.625	0.500	0.187	£16.49	£12.51
G72-120	120	1.667	1.694	0.500	0.187	£16.60	£12.77
G72-124	124	1.722	1.750	0.500	0.187	£16.68	£12.95
G72-127	127	1.764	1.792	0.500	0.187	£16.72	£13.14
G72-130	130	1.806	1.833	0.500	0.187	£16.83	£13.37
G72-132	132	1.833	1.861	0.625	0.250	£16.92	£13.61
G72-136	136	1.889	1.917	0.625	0.250	£17.99	£14.38
G72-140	140	1.944	1.972	0.625	0.250	£20.59	£16.44
G72-148	148	2.056	2.083	0.625	0.250	£22.49	£17.98
G72-150	150	2.083	2.111	0.625	0.250	£24.24	£19.41
G72-156	156	2.167	2.194	0.625	0.250	£27.18	£21.70
G72-160	160	2.222	2.250	0.625	0.250	£29.37	£23.47
G72-180	180	2.500	2.528	0.625	0.250	£31.01	£24.77

Spur Gears Steel - Standard DP 72

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

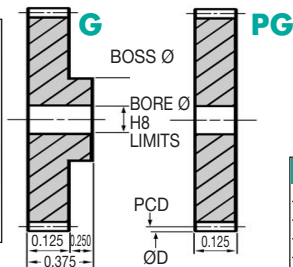
ALTERNATIVE : Brass, Tufnol or Delrin

64 DP

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 0.698 0.075	Brass 0.073 0.007	Tufnol 0.058 0.006
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G64-10	10	0.172	0.203	0.203	0.093	£9.53	£8.51
G64-11	11	0.188	0.219	0.219	0.093	£9.57	£8.52
G64-12	12	0.188	0.219	0.219	0.093	£9.61	£8.53
G64-13	13	0.203	0.234	0.234	0.093	£9.72	£8.77
G64-14	14	0.219	0.250	0.250	0.093	£9.83	£8.91
G64-15	15	0.234	0.266	0.266	0.093	£9.93	£9.09
G64-16	16	0.250	0.281	0.281	0.093	£9.97	£9.32
G64-17	17	0.266	0.297	0.297	0.093	£10.02	£9.67
G64-18	18	0.281	0.313	0.313	0.125	£10.19	£9.96
G64-19	19	0.297	0.328	0.328	0.125	£10.24	£10.02
G64-20	20	0.313	0.344	0.344	0.125	£10.42	£10.19
G64-21	21	0.328	0.359	0.359	0.125	£10.57	£10.28
G64-22	22	0.344	0.375	0.375	0.125	£10.76	£10.35
G64-23	23	0.359	0.391	0.391	0.125	£10.94	£10.46
G64-24	24	0.375	0.406	0.375	0.125	£11.06	£10.57
G64-25	25	0.391	0.422	0.375	0.125	£11.21	£10.70
G64-26	26	0.406	0.438	0.375	0.125	£11.36	£10.72
G64-27	27	0.422	0.453	0.375	0.125	£11.53	£10.82
G64-28	28	0.438	0.469	0.375	0.125	£11.73	£10.99
G64-29	29	0.453	0.484	0.375	0.125	£11.77	£11.21
G64-30	30	0.469	0.500	0.375	0.125	£11.89	£11.35
G64-31	31	0.484	0.516	0.375	0.125	£12.09	£11.53
G64-32	32	0.500	0.531	0.375	0.125	£12.23	£11.73

Spur Gears Steel - Standard DP 64

23.86



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G64-33	33	0.516	0.547	0.375	0.125	£12.40	£11.89
G64-34	34	0.531	0.563	0.375	0.125	£12.65	£12.09
G64-35	35	0.547	0.578	0.375	0.125	£12.77	£12.23
G64-36	36	0.563	0.594	0.375	0.125	£12.95	£12.44
G64-37	37	0.578	0.609	0.375	0.125	£13.00	£12.50
G64-38	38	0.594	0.625	0.375	0.125	£13.02	£12.51
G64-39	39	0.609	0.641	0.375	0.125	£13.03	£12.56
G64-40	40	0.625	0.656	0.500	0.187	£13.13	£12.65
G64-41	41	0.641	0.672	0.500	0.187	£13.19	£12.68
G64-42	42	0.656	0.688	0.500	0.187	£13.27	£12.75
G64-43	43	0.672	0.703	0.500	0.187	£13.31	£12.78
G64-44	44	0.688	0.719	0.500	0.187	£13.40	£12.84
G64-45	45	0.703	0.734	0.500	0.187	£13.46	£12.95
G64-46	46	0.719	0.750	0.500	0.187	£13.54	£13.02
G64-47	47	0.734	0.766	0.500	0.187	£13.61	£13.09
G64-48	48	0.750	0.781	0.500	0.187	£13.68	£13.14
G64-49	49	0.766	0.797	0.500	0.187	£13.75	£13.26
G64-50	50	0.781	0.813	0.500	0.187	£13.82	£13.30
G64-51	51	0.797	0.828	0.500	0.187	£13.95	£13.37
G64-52	52	0.813	0.844	0.500	0.187	£13.96	£13.41
G64-53	53	0.828	0.859	0.500	0.187	£13.99	£13.46
G64-54	54	0.844	0.875	0.500	0.187	£14.08	£13.48
G64-55	55	0.859	0.891	0.500	0.187	£14.15	£13.59
G64-56	56	0.875	0.906	0.500	0.187	£14.25	£13.64
G64-57	57	0.891	0.922	0.500	0.187	£14.27	£13.68
G64-58	58	0.906	0.938	0.500	0.187	£14.32	£13.70
G64-59	59	0.922	0.953	0.500	0.187	£14.33	£13.75
G64-60	60	0.938	0.969	0.500	0.187	£14.36	£13.77
G64-61	61	0.953	0.984	0.500	0.187	£14.46	£13.82
G64-62	62	0.969	1.000	0.500	0.187	£14.64	£13.95
G64-63	63	0.984	1.016	0.500	0.187	£14.68	£13.98
G64-64	64	1.000	1.031	0.500	0.187	£14.77	£14.05
G64-65	65	1.016	1.047	0.500	0.187	£14.90	£14.13
G64-68	68	1.063	1.094	0.500	0.187	£15.00	£14.20
G64-70	70	1.094	1.125	0.500	0.187	£15.12	£14.27
G64-72	72	1.125	1.156	0.500	0.187	£15.19	£14.33
G64-75	75	1.172	1.203	0.500	0.187	£15.36	£14.38
G64-77	77	1.203	1.234	0.500	0.187	£15.41	£14.46
G64-80	80	1.250	1.281	0.500	0.187	£15.61	£14.61
G64-84	84	1.313	1.344	0.500	0.187	£15.83	£14.67
G64-86	86	1.344	1.375	0.500	0.187	£16.83	£15.06
G64-88	88	1.375	1.406	0.500	0.187	£17.81	£15.47
G64-90	90	1.406	1.438	0.500	0.187	£19.46	£16.94
G64-96	96	1.500	1.531	0.500	0.187	£20.59	£17.98
G64-100	100	1.563	1.594	0.500	0.187	£21.85	£19.00
G64-120	120	1.875	1.906	0.500	0.187	£23.43	£20.24
G64-140	140	2.188	2.219	0.625	0.250	£24.73	£21.48
G64-150	150	2.344	2.375	0.625	0.250	£26.27	£22.79
G64-180	180	2.813	2.844	0.625	0.250	£27.91	£24.22
G64-200	200	3.125	3.156	0.625	0.250	£30.22	£26.30

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

64 DP

20° P.A.

SPECIAL TEETH : between 10 - 180



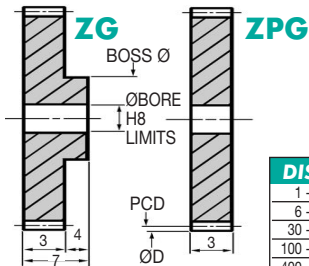
TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.04

Spur Gears Plastic - Fully Machined DP 64



Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	P.C.D. (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG64-10	10	0.172	0.203	5	1.50	£4.73	£3.60
ZG64-11	11	0.188	0.219	5	1.50	£4.75	£3.63
ZG64-12	12	0.188	0.219	5	1.50	£4.78	£3.64
ZG64-13	13	0.203	0.234	6	1.50	£4.81	£3.66
ZG64-14	14	0.219	0.250	6	2.00	£4.84	£3.71
ZG64-15	15	0.234	0.266	7	2.00	£4.90	£3.78
ZG64-16	16	0.250	0.281	7	2.00	£4.96	£3.82
ZG64-17	17	0.266	0.297	7	2.00	£4.98	£3.85
ZG64-18	18	0.281	0.313	7	2.00	£5.06	£3.88
ZG64-19	19	0.297	0.328	7	2.00	£5.09	£3.89
ZG64-20	20	0.313	0.344	7	2.00	£5.22	£4.01
ZG64-21	21	0.328	0.359	7	2.00	£5.25	£4.03
ZG64-22	22	0.344	0.375	7	2.00	£5.33	£4.08
ZG64-23	23	0.359	0.391	9	2.00	£5.48	£4.14
ZG64-24	24	0.375	0.406	9	2.00	£5.54	£4.24
ZG64-25	25	0.391	0.422	9	2.00	£5.58	£4.27
ZG64-26	26	0.406	0.438	9	2.00	£5.72	£4.35
ZG64-27	27	0.422	0.453	9	2.00	£5.79	£4.38
ZG64-28	28	0.438	0.469	11	3.00	£5.82	£4.42
ZG64-29	29	0.453	0.484	11	3.00	£5.85	£4.49
ZG64-30	30	0.469	0.500	11	3.00	£5.95	£4.57
ZG64-31	31	0.484	0.516	11	3.00	£6.06	£4.61
ZG64-32	32	0.500	0.531	11	3.00	£6.14	£4.73

23.88



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	P.C.D.	ØD	BOSS Ø	BORE Ø	PRICE EACH 1-5	
		(ins)	(ins)	(mm)	(mm)	ZG	ZPG
ZG64-33	33	0.516	0.547	11	3	£6.20	£4.75
ZG64-34	34	0.531	0.563	11	3	£6.32	£4.79
ZG64-35	35	0.547	0.578	11	3	£6.38	£4.85
ZG64-36	36	0.563	0.594	11	3	£6.43	£4.95
ZG64-37	37	0.578	0.609	11	3	£6.50	£4.96
ZG64-38	38	0.594	0.625	11	3	£6.51	£4.97
ZG64-39	39	0.609	0.641	11	3	£6.54	£4.98
ZG64-40	40	0.625	0.656	11	3	£6.61	£4.99
ZG64-41	41	0.641	0.672	11	3	£6.65	£5.06
ZG64-42	42	0.656	0.688	11	3	£6.66	£5.06
ZG64-43	43	0.672	0.703	11	3	£6.68	£5.08
ZG64-44	44	0.688	0.719	11	3	£6.69	£5.09
ZG64-45	45	0.703	0.734	11	3	£6.72	£5.19
ZG64-46	46	0.719	0.750	11	3	£6.75	£5.20
ZG64-47	47	0.734	0.766	11	3	£6.77	£5.22
ZG64-48	48	0.750	0.781	11	3	£6.87	£5.23
ZG64-49	49	0.766	0.797	14	4	£6.94	£5.25
ZG64-50	50	0.781	0.813	14	4	£6.95	£5.32
ZG64-51	51	0.797	0.828	14	4	£6.97	£5.33
ZG64-52	52	0.813	0.844	14	4	£6.99	£5.34
ZG64-53	53	0.828	0.859	14	4	£7.02	£5.36
ZG64-54	54	0.844	0.875	14	4	£7.03	£5.46
ZG64-55	55	0.859	0.891	14	4	£7.04	£5.46
ZG64-56	56	0.875	0.906	14	4	£7.08	£5.47
ZG64-57	57	0.891	0.922	14	4	£7.09	£5.48
ZG64-58	58	0.906	0.938	14	4	£7.12	£5.49
ZG64-59	59	0.922	0.953	14	4	£7.14	£5.52
ZG64-60	60	0.938	0.969	14	4	£7.27	£5.53
ZG64-61	61	0.953	0.984	14	4	£7.27	£5.54
ZG64-62	62	0.969	1.000	14	4	£7.36	£5.55
ZG64-63	63	0.984	1.016	14	4	£7.38	£5.58
ZG64-64	64	1.000	1.031	14	4	£7.40	£5.67
ZG64-65	65	1.016	1.047	14	4	£7.45	£5.72
ZG64-68	68	1.063	1.094	14	4	£7.49	£5.79
ZG64-70	70	1.094	1.125	14	4	£7.63	£5.79
ZG64-72	72	1.125	1.156	14	4	£7.64	£5.81
ZG64-75	75	1.172	1.203	14	4	£8.45	£6.43
ZG64-77	77	1.203	1.234	14	4	£8.50	£6.51
ZG64-80	80	1.250	1.281	14	4	£8.73	£6.72
ZG64-84	84	1.313	1.344	14	4	£8.96	£6.99
ZG64-86	86	1.344	1.375	14	4	£9.30	£7.27
ZG64-88	88	1.375	1.406	14	4	£9.86	£7.49
ZG64-90	90	1.406	1.438	14	4	£10.76	£8.20
ZG64-96	96	1.500	1.531	14	4	£11.35	£8.73
ZG64-100	100	1.563	1.594	14	4	£13.65	£10.43
ZG64-120	120	1.875	1.906	14	4	£13.75	£10.50
ZG64-140	140	2.188	2.219	14	5	£16.98	£13.27
ZG64-150	150	2.344	2.375	14	5	£18.18	£14.46
ZG64-180	180	2.813	2.844	14	6	£20.42	£16.81

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

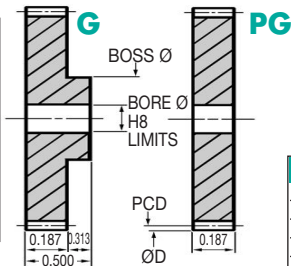
ALTERNATIVE : Brass, Tufnol or Delrin

48 DP

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 1.850 0.194	Brass 0.1956 0.020	Tufnol 0.156 0.016
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G48-10	10	0.229	0.271	0.271	0.093	£10.12	£8.46
G48-11	11	0.250	0.292	0.292	0.093	£10.15	£8.47
G48-12	12	0.250	0.292	0.292	0.093	£10.19	£8.50
G48-13	13	0.271	0.313	0.313	0.125	£10.28	£8.66
G48-14	14	0.292	0.333	0.333	0.125	£10.42	£8.83
G48-15	15	0.313	0.354	0.313	0.125	£10.54	£8.96
G48-16	16	0.333	0.375	0.313	0.125	£10.72	£9.18
G48-17	17	0.354	0.396	0.313	0.125	£10.76	£9.32
G48-18	18	0.375	0.417	0.313	0.125	£10.87	£9.51
G48-19	19	0.396	0.438	0.313	0.125	£10.97	£9.55
G48-20	20	0.417	0.458	0.375	0.187	£11.15	£9.61
G48-21	21	0.438	0.479	0.375	0.187	£11.21	£9.67
G48-22	22	0.458	0.500	0.375	0.187	£11.30	£9.72
G48-23	23	0.479	0.521	0.375	0.187	£11.36	£9.82
G48-24	24	0.500	0.542	0.375	0.187	£11.50	£9.84
G48-25	25	0.521	0.563	0.375	0.187	£11.65	£9.94
G48-26	26	0.542	0.583	0.375	0.187	£11.73	£9.97
G48-27	27	0.563	0.604	0.375	0.187	£11.84	£10.02
G48-28	28	0.583	0.625	0.375	0.187	£11.91	£10.19
G48-29	29	0.604	0.646	0.375	0.187	£12.06	£10.22
G48-30	30	0.625	0.667	0.375	0.187	£12.15	£10.24
G48-31	31	0.646	0.688	0.375	0.187	£12.29	£10.28
G48-32	32	0.667	0.708	0.375	0.187	£12.40	£10.30

Spur Gears Steel - Standard DP 48

23.90



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Spur Gears

Materials

Plastic Delrin (fully machined)

STD : **White Delrin**

48 DP

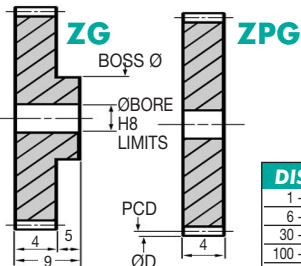
20° P.A.

SPECIAL TEETH : *between 10 - 200*



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.10

Spur Gears Plastic - Fully Machined DP 48



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	P.C.D. (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG48-10	10	0.229	0.271	6	2	£5.06	£3.85
ZG48-11	11	0.250	0.292	7	2	£5.09	£3.88
ZG48-12	12	0.250	0.292	7	2	£5.12	£3.89
ZG48-13	13	0.271	0.313	7	2	£5.19	£3.96
ZG48-14	14	0.292	0.333	7	2	£5.22	£3.96
ZG48-15	15	0.313	0.354	7	2	£5.25	£4.01
ZG48-16	16	0.333	0.375	7	2	£5.33	£4.08
ZG48-17	17	0.354	0.396	8	2	£5.36	£4.09
ZG48-18	18	0.375	0.417	8	2	£5.48	£4.14
ZG48-19	19	0.396	0.438	9	3	£5.52	£4.21
ZG48-20	20	0.417	0.458	9	3	£5.54	£4.24
ZG48-21	21	0.438	0.479	9	3	£5.58	£4.27
ZG48-22	22	0.458	0.500	9	3	£5.67	£4.28
ZG48-23	23	0.479	0.521	10	3	£5.72	£4.35
ZG48-24	24	0.500	0.542	10	3	£5.79	£4.38
ZG48-25	25	0.521	0.563	10	3	£5.81	£4.42
ZG48-26	26	0.542	0.583	10	3	£5.85	£4.44
ZG48-27	27	0.563	0.604	10	3	£5.90	£4.49
ZG48-28	28	0.583	0.625	10	3	£5.95	£4.57
ZG48-29	29	0.604	0.646	10	3	£6.04	£4.61
ZG48-30	30	0.625	0.667	12	4	£6.06	£4.62
ZG48-31	31	0.646	0.688	12	4	£6.15	£4.73
ZG48-32	32	0.667	0.708	12	4	£6.20	£4.75

23.92



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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG48-33	33	0.688	0.729	12	4	£6.30	£4.79
ZG48-34	34	0.708	0.750	12	4	£6.38	£4.83
ZG48-35	35	0.729	0.771	12	4	£6.39	£4.85
ZG48-36	36	0.750	0.792	12	4	£6.51	£4.97
ZG48-40	40	0.833	0.875	12	4	£6.95	£5.32
ZG48-41	41	0.854	0.896	12	4	£7.02	£5.33
ZG48-42	42	0.875	0.917	12	4	£7.04	£5.46
ZG48-43	43	0.896	0.938	12	4	£7.14	£5.52
ZG48-44	44	0.917	0.958	12	4	£7.36	£5.54
ZG48-45	45	0.938	0.979	12	4	£7.38	£5.58
ZG48-46	46	0.958	1.000	12	4	£7.40	£5.72
ZG48-47	47	0.979	1.021	12	4	£7.49	£5.79
ZG48-48	48	1.000	1.042	12	4	£7.64	£5.85
ZG48-49	49	1.021	1.063	12	4	£7.70	£5.90
ZG48-50	50	1.042	1.083	12	4	£7.73	£5.95
ZG48-51	51	1.063	1.104	12	4	£7.75	£6.04
ZG48-52	52	1.083	1.125	12	4	£7.82	£6.06
ZG48-53	53	1.104	1.146	12	4	£7.87	£6.07
ZG48-54	54	1.125	1.167	12	4	£7.94	£6.08
ZG48-55	55	1.146	1.188	12	4	£8.81	£6.72
ZG48-56	56	1.167	1.208	14	4	£8.88	£6.75
ZG48-57	57	1.188	1.229	14	4	£8.93	£6.77
ZG48-58	58	1.208	1.250	14	4	£8.96	£6.87
ZG48-59	59	1.229	1.271	14	4	£9.04	£6.95
ZG48-60	60	1.250	1.292	14	4	£9.08	£6.99
ZG48-61	61	1.271	1.313	14	4	£9.18	£7.02
ZG48-62	62	1.292	1.333	14	4	£9.26	£7.03
ZG48-63	63	1.313	1.354	14	4	£9.30	£7.04
ZG48-64	64	1.333	1.375	14	4	£9.31	£7.09
ZG48-65	65	1.354	1.396	14	4	£9.32	£7.12
ZG48-68	68	1.417	1.458	14	4	£9.40	£7.14
ZG48-70	70	1.458	1.500	14	4	£9.47	£7.27
ZG48-72	72	1.500	1.542	14	4	£9.47	£7.27
ZG48-75	75	1.563	1.604	14	4	£10.97	£8.36
ZG48-77	77	1.604	1.646	14	4	£11.12	£8.53
ZG48-80	80	1.667	1.708	16	5	£11.28	£8.62
ZG48-84	84	1.750	1.792	16	5	£11.51	£8.81
ZG48-86	86	1.792	1.833	16	5	£11.76	£9.04
ZG48-88	88	1.833	1.875	16	5	£12.09	£9.26
ZG48-90	90	1.875	1.917	16	5	£12.22	£9.40
ZG48-96	96	2.000	2.042	16	5	£14.90	£11.47
ZG48-100	100	2.083	2.125	16	5	£15.42	£11.84
ZG48-120	120	2.500	2.542	16	5	£18.69	£14.35
ZG48-140	140	2.917	2.958	16	6	£23.15	£17.77
ZG48-150	150	3.125	3.167	16	6	£25.33	£19.40

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

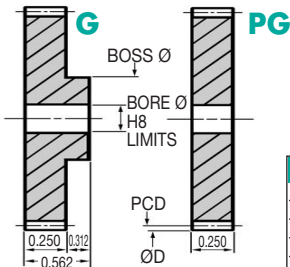
ALTERNATIVE : Brass, Tufnol or Delrin

40 DP

20° P.A.

SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 3.570 0.373	Brass 0.376 0.040	Tufnol 0.300 0.031
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DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G40-9	9	0.250	0.300	0.300	0.093	£11.03	£8.77
G40-10	10	0.275	0.325	0.325	0.125	£11.06	£8.78
G40-11	11	0.300	0.350	0.325	0.125	£11.10	£8.81
G40-12	12	0.300	0.350	0.350	0.125	£11.11	£8.83
G40-13	13	0.325	0.375	0.375	0.187	£11.12	£8.86
G40-14	14	0.350	0.400	0.400	0.187	£11.15	£8.87
G40-15	15	0.375	0.425	0.425	0.187	£11.21	£8.93
G40-16	16	0.400	0.450	0.450	0.187	£11.28	£8.97
G40-17	17	0.425	0.475	0.475	0.187	£11.29	£9.02
G40-18	18	0.450	0.500	0.500	0.187	£11.30	£9.03
G40-19	19	0.475	0.525	0.500	0.187	£11.50	£9.22
G40-20	20	0.500	0.550	0.500	0.187	£11.77	£9.38
G40-21	21	0.525	0.575	0.500	0.187	£11.85	£9.47
G40-22	22	0.550	0.600	0.500	0.187	£11.89	£9.49
G40-23	23	0.575	0.625	0.500	0.187	£11.91	£9.51
G40-24	24	0.600	0.650	0.500	0.187	£12.15	£9.72
G40-25	25	0.625	0.675	0.500	0.187	£12.34	£9.84
G40-26	26	0.650	0.700	0.500	0.187	£12.44	£9.96
G40-27	27	0.675	0.725	0.500	0.187	£12.65	£10.02
G40-28	28	0.700	0.750	0.500	0.187	£12.69	£10.19
G40-29	29	0.725	0.775	0.500	0.187	£12.93	£10.30
G40-30	30	0.750	0.800	0.500	0.187	£13.14	£10.47
G40-31	31	0.775	0.825	0.500	0.187	£13.68	£10.94

Spur Gears Steel - Standard DP 40

23.94



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Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

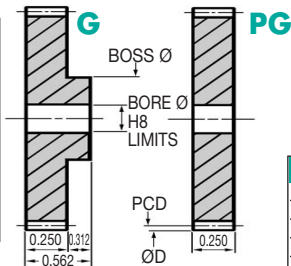
ALTERNATIVE : Brass, Tufnol or Delrin

32 DP

20° P.A.

SPECIAL TEETH : between 9 - 500

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	1.1766	5.580	0.590	0.470
TORQUE Nm.				
K.W.	0.119	0.582	0.060	0.045



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G32-9	9	0.313	0.375	0.375	0.156	£9.72	£7.83
G32-10	10	0.344	0.406	0.406	0.156	£9.94	£8.02
G32-11	11	0.375	0.438	0.438	0.156	£10.22	£8.22
G32-12	12	0.375	0.438	0.438	0.187	£11.36	£9.51
G32-13	13	0.406	0.469	0.469	0.187	£12.06	£9.72
G32-14	14	0.438	0.500	0.500	0.187	£12.44	£9.94
G32-15	15	0.469	0.531	0.500	0.187	£12.84	£10.02
G32-16	16	0.500	0.563	0.500	0.187	£13.19	£10.30
G32-17	17	0.531	0.594	0.500	0.187	£13.31	£10.32
G32-18	18	0.563	0.625	0.500	0.187	£13.46	£10.47
G32-19	19	0.594	0.656	0.500	0.187	£13.61	£10.72
G32-20	20	0.625	0.688	0.500	0.187	£13.75	£10.82
G32-21	21	0.656	0.719	0.500	0.187	£13.93	£10.99
G32-22	22	0.688	0.750	0.500	0.187	£13.99	£11.21
G32-23	23	0.719	0.781	0.500	0.187	£14.15	£11.35
G32-24	24	0.750	0.813	0.500	0.187	£14.33	£11.49
G32-25	25	0.781	0.844	0.500	0.187	£14.50	£11.66
G32-26	26	0.813	0.875	0.500	0.187	£14.72	£11.81
G32-27	27	0.844	0.906	0.500	0.187	£14.82	£11.91
G32-28	28	0.875	0.938	0.500	0.187	£14.95	£12.09
G32-29	29	0.906	0.969	0.500	0.187	£15.02	£12.22
G32-30	30	0.938	1.000	0.625	0.250	£15.14	£12.34
G32-31	31	0.969	1.031	0.625	0.250	£15.33	£12.50

Spur Gears Steel - Standard DP 32

23.96



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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G32-32	32	1.000	1.063	0.625	0.250	£15.47	£12.66
G32-33	33	1.031	1.094	0.625	0.250	£15.49	£12.68
G32-34	34	1.063	1.125	0.625	0.250	£15.55	£12.69
G32-35	35	1.094	1.156	0.625	0.250	£15.61	£12.77
G32-36	36	1.125	1.188	0.625	0.250	£15.70	£12.83
G32-37	37	1.156	1.219	0.625	0.250	£15.76	£12.93
G32-38	38	1.188	1.250	0.625	0.250	£15.77	£13.00
G32-39	39	1.219	1.281	0.625	0.250	£15.82	£13.03
G32-40	40	1.250	1.313	0.625	0.250	£15.83	£13.13
G32-41	41	1.281	1.344	0.625	0.250	£15.87	£13.19
G32-42	42	1.313	1.375	0.625	0.250	£15.90	£13.27
G32-43	43	1.344	1.406	0.625	0.250	£15.93	£13.31
G32-44	44	1.375	1.438	0.625	0.250	£15.95	£13.40
G32-45	45	1.406	1.469	0.625	0.250	£15.97	£13.46
G32-46	46	1.438	1.500	0.625	0.250	£16.04	£13.54
G32-47	47	1.469	1.531	0.625	0.250	£16.12	£13.61
G32-48	48	1.500	1.563	0.625	0.250	£16.13	£13.68
G32-49	49	1.531	1.594	0.625	0.250	£16.17	£13.75
G32-50	50	1.563	1.625	0.625	0.250	£16.19	£13.82
G32-51	51	1.594	1.656	0.625	0.250	£16.22	£13.93
G32-52	52	1.625	1.688	0.625	0.250	£16.24	£13.95
G32-53	53	1.656	1.719	0.625	0.250	£16.27	£13.96
G32-54	54	1.688	1.750	0.625	0.250	£16.29	£13.98
G32-55	55	1.719	1.781	0.625	0.250	£16.35	£13.99
G32-56	56	1.750	1.813	0.625	0.250	£16.38	£14.05
G32-57	57	1.781	1.844	0.625	0.250	£16.44	£14.27
G32-58	58	1.813	1.875	0.625	0.250	£16.48	£14.46
G32-59	59	1.844	1.906	0.625	0.250	£16.56	£14.68
G32-60	60	1.875	1.938	0.625	0.250	£16.72	£14.90
G32-61	61	1.906	1.969	0.625	0.250	£16.98	£15.14
G32-62	62	1.938	2.000	0.625	0.250	£17.44	£15.38
G32-63	63	1.969	2.031	0.625	0.250	£18.18	£15.55
G32-64	64	2.000	2.063	0.625	0.250	£18.66	£15.83
G32-66	66	2.063	2.125	0.625	0.250	£19.00	£16.24
G32-68	68	2.125	2.188	0.625	0.250	£19.36	£16.77
G32-70	70	2.188	2.250	0.625	0.250	£20.08	£16.98
G32-75	75	2.344	2.406	0.625	0.250	£20.42	£17.76
G32-76	76	2.375	2.438	0.625	0.250	£20.61	£18.30
G32-80	80	2.500	2.563	0.625	0.250	£20.92	£19.07
G32-86	86	2.688	2.750	0.625	0.250	£21.59	£19.95
G32-88	88	2.750	2.813	0.750	0.312	£22.30	£20.68
G32-90	90	2.813	2.875	0.750	0.312	£23.67	£21.23
G32-96	96	3.000	3.063	0.750	0.312	£24.89	£21.70
G32-100	100	3.125	3.188	0.750	0.312	£26.10	£22.69
G32-112	112	3.500	3.563	1.000	0.375	£27.63	£23.99
G32-120	120	3.750	3.813	1.000	0.375	£29.05	£24.69
G32-127	127	3.969	4.031	1.000	0.375	£33.09	£24.70
G32-128	128	4.000	4.063	1.000	0.375	£36.67	£24.89

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

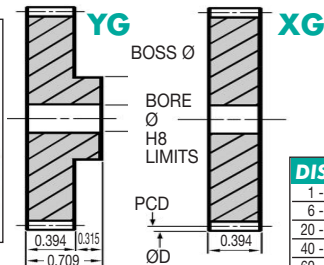
STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

32 DP

20° P.A.

SPECIAL TEETH : between 9 - 500

TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations at back	4.000	11.000	4.000	5.820
TORQUE Nm.				
K.W.	0.418	1.119	0.418	0.612



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						YG	XG
YG32-9	9	0.313	0.375	0.375	0.156	£12.11	£9.04
YG32-10	10	0.344	0.406	0.406	0.156	£12.39	£9.28
YG32-11	11	0.375	0.438	0.438	0.156	£12.75	£9.51
YG32-12	12	0.375	0.438	0.438	0.187	£14.25	£10.70
YG32-13	13	0.406	0.469	0.469	0.187	£15.02	£11.28
YG32-14	14	0.438	0.500	0.500	0.187	£15.50	£11.65
YG32-15	15	0.469	0.531	0.531	0.187	£16.05	£12.06
YG32-16	16	0.500	0.563	0.531	0.187	£16.45	£12.33
YG32-17	17	0.531	0.594	0.531	0.187	£16.65	£12.44
YG32-18	18	0.563	0.625	0.531	0.187	£16.81	£12.62
YG32-19	19	0.594	0.656	0.531	0.187	£16.95	£12.69
YG32-20	20	0.625	0.688	0.531	0.187	£17.18	£12.83
YG32-21	21	0.656	0.719	0.531	0.187	£17.31	£13.00
YG32-22	22	0.688	0.750	0.531	0.187	£17.48	£13.09
YG32-23	23	0.719	0.781	0.531	0.187	£17.67	£13.26
YG32-24	24	0.750	0.813	0.531	0.187	£17.87	£13.40
YG32-25	25	0.781	0.844	0.531	0.187	£18.12	£13.57
YG32-26	26	0.813	0.875	0.531	0.187	£18.37	£13.75
YG32-27	27	0.844	0.906	0.531	0.187	£18.50	£13.92
YG32-28	28	0.875	0.938	0.531	0.187	£18.66	£13.96
YG32-29	29	0.906	0.969	0.531	0.187	£18.76	£14.05
YG32-30	30	0.938	1.000	0.787	0.250	£18.87	£14.13
YG32-31	31	0.969	1.031	0.787	0.250	£19.04	£14.27

Spur Gears Steel - Heavy Duty DP 32

23.98



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						YG	XG
YG32-32	32	1.000	1.063	0.787	0.250	£19.29	£14.46
YG32-33	33	1.031	1.094	0.787	0.250	£19.36	£14.50
YG32-34	34	1.063	1.125	0.787	0.250	£19.41	£14.61
YG32-35	35	1.094	1.156	0.787	0.250	£19.50	£14.64
YG32-36	36	1.125	1.188	0.787	0.250	£19.59	£14.67
YG32-37	37	1.156	1.219	0.787	0.250	£19.62	£14.68
YG32-38	38	1.188	1.250	0.787	0.250	£19.66	£14.72
YG32-39	39	1.219	1.281	0.787	0.250	£19.69	£14.73
YG32-40	40	1.250	1.313	0.787	0.250	£19.73	£14.77
YG32-41	41	1.281	1.344	0.787	0.250	£19.77	£14.82
YG32-42	42	1.313	1.375	0.787	0.250	£19.81	£14.83
YG32-43	43	1.344	1.406	0.787	0.250	£19.93	£14.90
YG32-44	44	1.375	1.438	0.787	0.250	£19.95	£14.95
YG32-45	45	1.406	1.469	0.787	0.250	£19.96	£14.96
YG32-46	46	1.438	1.500	0.787	0.250	£20.00	£15.00
YG32-47	47	1.469	1.531	0.787	0.250	£20.08	£15.02
YG32-48	48	1.500	1.563	0.787	0.250	£20.09	£15.04
YG32-49	49	1.531	1.594	0.787	0.250	£20.12	£15.07
YG32-50	50	1.563	1.625	0.787	0.250	£20.16	£15.12
YG32-51	51	1.594	1.656	0.787	0.250	£20.20	£15.14
YG32-52	52	1.625	1.688	0.787	0.250	£20.25	£15.18
YG32-53	53	1.656	1.719	0.787	0.250	£20.31	£15.19
YG32-54	54	1.688	1.750	0.787	0.250	£20.36	£15.23
YG32-55	55	1.719	1.781	0.787	0.250	£20.42	£15.33
YG32-56	56	1.750	1.813	0.787	0.250	£20.46	£15.36
YG32-57	57	1.781	1.844	0.787	0.250	£20.47	£15.38
YG32-58	58	1.813	1.875	0.787	0.250	£20.59	£15.41
YG32-59	59	1.844	1.906	0.787	0.250	£20.66	£15.47
YG32-60	60	1.875	1.938	0.787	0.250	£20.87	£15.57
YG32-61	61	1.906	1.969	0.787	0.250	£21.23	£15.90
YG32-62	62	1.938	2.000	0.787	0.250	£21.77	£16.29
YG32-63	63	1.969	2.031	0.787	0.250	£22.71	£16.98
YG32-64	64	2.000	2.063	1.575	0.312	£23.22	£17.37
YG32-66	66	2.063	2.125	1.575	0.312	£23.71	£17.77
YG32-68	68	2.125	2.188	1.575	0.312	£24.19	£18.12
YG32-70	70	2.188	2.250	1.575	0.312	£25.03	£18.71
YG32-75	75	2.344	2.406	1.575	0.312	£25.40	£19.04
YG32-76	76	2.375	2.438	1.575	0.312	£25.68	£19.25
YG32-80	80	2.500	2.563	1.575	0.312	£26.12	£19.59
YG32-86	86	2.688	2.750	1.575	0.312	£26.90	£20.12
YG32-88	88	2.750	2.813	1.575	0.312	£27.87	£20.87
YG32-90	90	2.813	2.875	1.575	0.312	£29.52	£22.11
YG32-96	96	3.000	3.063	1.575	0.312	£31.11	£23.30
YG32-100	100	3.125	3.188	1.575	0.312	£32.55	£24.39
YG32-112	112	3.500	3.563	1.575	0.312	£34.47	£25.80
YG32-120	120	3.750	3.813	1.575	0.375	£36.23	£27.13
YG32-127	127	3.969	4.031	1.575	0.375	£41.24	£30.86
YG32-128	128	4.000	4.063	1.575	0.375	£45.70	£34.24
YG32-140	140	4.375	4.438	1.968	0.500	£50.45	£37.79
YG32-150	150	4.688	4.750	1.968	0.500	£56.56	£42.39
YG32-175	175	5.469	5.531	1.968	0.750	£61.49	£46.12
YG32-200	200	6.250	6.313	1.968	0.750	£66.70	£49.97

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

32 DP

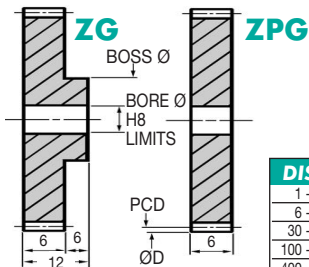
20° P.A.

SPECIAL TEETH : between 9 - 500



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.30

Spur Gears Plastic - Fully Machined DP 32



Popular sizes in stock.

Any two part numbers of this pitch will run together.

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG32-9	9	0.313	0.375	9.60	3	£4.83	£3.66
ZG32-10	10	0.344	0.406	10.40	3	£4.97	£3.78
ZG32-11	11	0.375	0.438	11.20	3	£5.09	£3.89
ZG32-12	12	0.375	0.438	11.20	3	£5.72	£4.35
ZG32-13	13	0.406	0.469	12.00	3	£6.04	£4.61
ZG32-14	14	0.438	0.500	12.80	3	£6.16	£4.75
ZG32-15	15	0.469	0.531	13.60	3	£6.39	£4.85
ZG32-16	16	0.500	0.563	14.40	3	£6.65	£5.06
ZG32-17	17	0.531	0.594	15.20	3	£6.68	£5.08
ZG32-18	18	0.563	0.625	14.00	4	£6.72	£5.19
ZG32-19	19	0.594	0.656	14.00	4	£6.77	£5.22
ZG32-20	20	0.625	0.688	14.00	4	£6.87	£5.25
ZG32-21	21	0.656	0.719	14.00	4	£6.99	£5.32
ZG32-22	22	0.688	0.750	14.00	4	£7.02	£5.33
ZG32-23	23	0.719	0.781	14.00	4	£7.04	£5.46
ZG32-24	24	0.750	0.813	14.00	4	£7.14	£5.52
ZG32-25	25	0.781	0.844	14.00	4	£7.31	£5.54
ZG32-26	26	0.813	0.875	14.00	4	£7.38	£5.58
ZG32-27	27	0.844	0.906	14.00	4	£7.39	£5.67
ZG32-28	28	0.875	0.938	14.00	4	£7.45	£5.72
ZG32-29	29	0.906	0.969	14.00	4	£7.49	£5.79
ZG32-30	30	0.938	1.000	15.00	5	£7.63	£5.81
ZG32-31	31	0.969	1.031	15.00	5	£7.70	£5.85

23.100



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG32-32	32	1.000	1.063	15	5	£7.73	£5.90
ZG32-33	33	1.031	1.094	15	5	£7.74	£5.91
ZG32-34	34	1.063	1.125	15	5	£7.75	£5.95
ZG32-35	35	1.094	1.156	15	5	£7.82	£6.01
ZG32-36	36	1.125	1.188	15	5	£8.66	£6.65
ZG32-38	38	1.188	1.250	15	5	£8.67	£6.66
ZG32-39	39	1.219	1.281	15	5	£8.73	£6.68
ZG32-40	40	1.250	1.313	15	5	£8.73	£6.69
ZG32-41	41	1.281	1.344	15	5	£8.76	£6.70
ZG32-42	42	1.313	1.375	15	5	£8.77	£6.71
ZG32-43	43	1.344	1.406	15	5	£8.78	£6.72
ZG32-44	44	1.375	1.438	15	5	£8.81	£6.75
ZG32-45	45	1.406	1.469	15	5	£8.83	£6.76
ZG32-46	46	1.438	1.500	15	5	£8.84	£6.77
ZG32-48	48	1.500	1.563	15	5	£8.88	£6.81
ZG32-49	49	1.531	1.594	15	5	£10.12	£7.74
ZG32-50	50	1.563	1.625	15	5	£10.15	£7.75
ZG32-51	51	1.594	1.656	15	5	£10.19	£7.76
ZG32-52	52	1.625	1.688	15	5	£10.19	£7.80
ZG32-53	53	1.656	1.719	15	5	£10.22	£7.81
ZG32-54	54	1.688	1.750	15	5	£10.24	£7.82
ZG32-55	55	1.719	1.781	15	5	£10.25	£7.83
ZG32-56	56	1.750	1.813	15	5	£10.28	£7.87
ZG32-57	57	1.781	1.844	18	5	£10.30	£7.88
ZG32-58	58	1.813	1.875	18	6	£10.35	£7.94
ZG32-59	59	1.844	1.906	18	6	£10.42	£8.01
ZG32-60	60	1.875	1.938	18	6	£10.50	£8.02
ZG32-61	61	1.906	1.969	18	6	£12.79	£9.82
ZG32-62	62	1.938	2.000	18	6	£13.18	£10.12
ZG32-64	64	2.000	2.063	18	6	£14.05	£10.76
ZG32-66	66	2.063	2.125	18	6	£14.35	£10.97
ZG32-68	68	2.125	2.188	18	6	£14.64	£11.21
ZG32-70	70	2.188	2.250	18	6	£15.18	£11.59
ZG32-75	75	2.344	2.406	18	6	£16.98	£13.03
ZG32-76	76	2.375	2.438	18	6	£17.62	£13.54
ZG32-80	80	2.500	2.563	18	6	£17.98	£13.75
ZG32-86	86	2.688	2.750	18	6	£18.49	£14.13
ZG32-88	88	2.750	2.813	18	6	£19.07	£14.66
ZG32-90	90	2.813	2.875	18	6	£20.29	£15.55
ZG32-96	96	3.000	3.063	18	6	£22.66	£17.34
ZG32-100	100	3.125	3.188	22	8	£23.68	£18.13
ZG32-112	112	3.500	3.563	22	8	£27.88	£21.37
ZG32-120	120	3.750	3.813	22	8	£29.32	£22.47
ZG32-127	127	3.969	4.031	30	10	£31.70	£23.09
ZG32-128	128	4.000	4.063	30	10	£33.32	£25.48

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

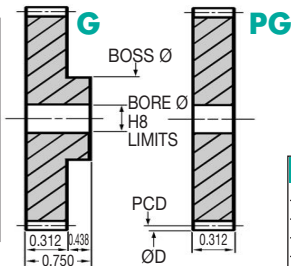
ALTERNATIVE : Brass, Tufnol or Delrin

24 DP

20° P.A.

SPECIAL TEETH : between 9 - 420

TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21 TORQUE Nm. K.W.	214M15 Cse/HD 2.610 12.390	Brass 1.300	Tufnol 1.040
		0.269	1.298	0.134 0.11



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G24-9	9	0.417	0.500	0.500	0.1875	£10.25	£9.47
G24-10	10	0.458	0.542	0.542	0.1875	£10.28	£9.47
G24-11	11	0.500	0.583	0.583	0.2500	£10.30	£9.48
G24-12	12	0.500	0.583	0.583	0.2500	£10.31	£9.49
G24-13	13	0.542	0.625	0.625	0.2500	£10.32	£9.82
G24-14	14	0.583	0.667	0.667	0.2500	£10.72	£10.02
G24-15	15	0.625	0.708	0.500	0.3125	£10.82	£10.32
G24-16	16	0.667	0.750	0.500	0.3125	£11.30	£10.65
G24-17	17	0.708	0.792	0.500	0.3125	£11.50	£10.87
G24-18	18	0.750	0.833	0.625	0.3125	£11.85	£11.20
G24-19	19	0.792	0.875	0.625	0.3125	£12.06	£11.47
G24-20	20	0.833	0.917	0.625	0.3125	£12.09	£11.84
G24-21	21	0.875	0.958	0.625	0.3125	£12.40	£11.85
G24-22	22	0.917	1.000	0.625	0.3125	£12.75	£11.89
G24-23	23	0.958	1.042	0.625	0.3125	£12.95	£11.91
G24-24	24	1.000	1.083	0.625	0.3125	£13.19	£12.06
G24-25	25	1.042	1.125	0.625	0.3125	£14.36	£12.15
G24-26	26	1.083	1.167	0.625	0.3125	£14.61	£12.23
G24-27	27	1.125	1.208	0.625	0.3125	£14.82	£12.34
G24-28	28	1.167	1.250	0.625	0.3125	£15.00	£12.44
G24-29	29	1.208	1.292	0.625	0.3125	£15.18	£12.56
G24-30	30	1.250	1.333	0.750	0.3125	£15.41	£12.66
G24-31	31	1.292	1.375	0.750	0.3125	£15.55	£12.75

Spur Gears Steel - Standard DP 24

23.102



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G24-32	32	1.333	1.417	0.750	0.3125	£15.87	£12.78
G24-33	33	1.375	1.458	0.750	0.3125	£16.13	£12.84
G24-34	34	1.417	1.500	0.750	0.3125	£16.27	£12.95
G24-35	35	1.458	1.542	0.750	0.3125	£16.44	£13.02
G24-36	36	1.500	1.583	0.750	0.3125	£16.49	£13.09
G24-37	37	1.542	1.625	0.750	0.3125	£16.68	£13.14
G24-38	38	1.583	1.667	0.750	0.3125	£16.77	£13.26
G24-39	39	1.625	1.708	0.750	0.3125	£16.90	£13.30
G24-40	40	1.667	1.750	0.750	0.3125	£16.94	£13.37
G24-41	41	1.708	1.792	0.750	0.3125	£17.06	£13.41
G24-42	42	1.750	1.833	0.750	0.3125	£17.18	£13.48
G24-43	43	1.792	1.875	0.750	0.3125	£17.28	£13.61
G24-44	44	1.833	1.917	0.750	0.3125	£17.37	£13.75
G24-45	45	1.875	1.958	0.750	0.3750	£17.59	£13.93
G24-46	46	1.917	2.000	0.750	0.3750	£17.87	£14.08
G24-47	47	1.958	2.042	0.750	0.3750	£18.24	£14.33
G24-48	48	2.000	2.083	0.750	0.3750	£18.69	£14.50
G24-49	49	2.042	2.125	0.750	0.3750	£19.42	£14.68
G24-50	50	2.083	2.167	0.750	0.3750	£20.24	£14.90
G24-51	51	2.125	2.210	0.750	0.3750	£20.36	£15.14
G24-52	52	2.167	2.250	0.750	0.3750	£20.56	£15.41
G24-53	53	2.208	2.292	0.750	0.3750	£20.70	£15.61
G24-54	54	2.250	2.333	0.750	0.3750	£20.95	£15.90
G24-55	55	2.292	2.375	0.750	0.3750	£21.15	£16.17
G24-56	56	2.333	2.417	0.750	0.3750	£21.70	£16.29
G24-57	57	2.375	2.458	0.750	0.3750	£22.12	£16.60
G24-58	58	2.417	2.500	0.750	0.3750	£22.49	£16.83
G24-59	59	2.458	2.542	0.750	0.3750	£22.85	£17.06
G24-60	60	2.500	2.583	0.750	0.3750	£23.31	£17.29
G24-61	61	2.542	2.625	0.750	0.3750	£23.84	£17.62
G24-62	62	2.583	2.667	0.750	0.3750	£24.07	£17.77
G24-63	63	2.625	2.708	0.750	0.3750	£24.24	£17.90
G24-64	64	2.667	2.750	0.750	0.3750	£24.77	£18.13
G24-65	65	2.708	2.792	0.750	0.3750	£25.12	£18.30
G24-66	66	2.750	2.833	0.750	0.3750	£25.59	£18.61
G24-68	68	2.833	2.917	0.750	0.3750	£26.00	£18.87
G24-70	70	2.917	3.000	0.750	0.3750	£26.37	£19.13
G24-72	72	3.000	3.083	0.750	0.3750	£26.66	£19.41
G24-73	73	3.042	3.125	0.750	0.3750	£26.95	£19.72
G24-74	74	3.083	3.167	0.750	0.3750	£27.33	£19.98
G24-76	76	3.167	3.250	0.750	0.3750	£27.69	£20.42
G24-78	78	3.250	3.333	0.750	0.3750	£28.15	£20.73
G24-80	80	3.333	3.417	0.750	0.3750	£28.69	£21.21
G24-84	84	3.500	3.583	0.750	0.3750	£29.43	£23.06
G24-88	88	3.667	3.750	0.750	0.3750	£31.11	£23.92
G24-90	90	3.750	3.833	0.750	0.3750	£32.78	£25.12
G24-96	96	4.000	4.083	1.000	0.5000	£37.44	£28.01
G24-100	100	4.167	4.250	1.000	0.5000	£41.39	£29.38
G24-112	112	4.667	4.750	1.000	0.5000	£44.14	£35.30

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

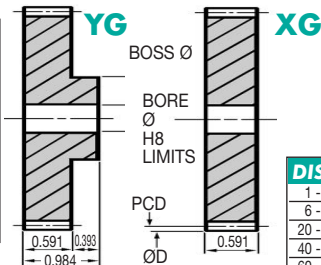
STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

24 DP

20° P.A.

SPECIAL TEETH : between 9 - 420

TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations of back	10.600	29.300	10.600	15.520
TORQUE Nm.				
K.W.	1.119	3.074	1.119	1.626



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						YG	XG
YG24-9	9	0.417	0.500	0.500	0.1870	£12.56	£9.38
YG24-10	10	0.458	0.542	0.542	0.1870	£12.62	£9.40
YG24-11	11	0.500	0.583	0.583	0.2500	£12.64	£9.47
YG24-12	12	0.500	0.583	0.583	0.2500	£12.65	£9.47
YG24-13	13	0.542	0.625	0.625	0.2500	£12.84	£9.67
YG24-14	14	0.583	0.667	0.667	0.2500	£13.30	£9.97
YG24-15	15	0.625	0.708	0.708	0.3120	£13.54	£10.19
YG24-16	16	0.667	0.750	0.750	0.3120	£14.06	£10.57
YG24-17	17	0.708	0.792	0.792	0.3120	£14.33	£10.76
YG24-18	18	0.750	0.833	0.787	0.3120	£14.73	£11.10
YG24-19	19	0.792	0.875	0.787	0.3120	£15.00	£11.28
YG24-20	20	0.833	0.917	0.787	0.3120	£15.23	£11.47
YG24-21	21	0.875	0.958	0.787	0.3120	£15.47	£11.59
YG24-22	22	0.917	1.000	0.787	0.3120	£15.87	£11.89
YG24-23	23	0.958	1.042	0.787	0.3120	£16.13	£12.09
YG24-24	24	1.000	1.083	0.787	0.3120	£16.44	£12.33
YG24-25	25	1.042	1.125	0.787	0.3120	£17.90	£13.41
YG24-26	26	1.083	1.167	0.787	0.3120	£18.13	£13.59
YG24-27	27	1.125	1.208	0.984	0.3120	£18.50	£13.92
YG24-28	28	1.167	1.250	0.984	0.3120	£18.71	£13.99
YG24-29	29	1.208	1.292	0.984	0.3120	£18.88	£14.15
YG24-30	30	1.250	1.333	0.984	0.3120	£19.25	£14.38
YG24-31	31	1.292	1.375	0.984	0.3120	£19.41	£14.61

Spur Gears Steel - Heavy Duty DP 24

23.104



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						YG	XG
YG24-32	32	1.333	1.417	0.984	0.3120	£19.77	£14.82
YG24-33	33	1.375	1.458	0.984	0.3120	£20.09	£15.04
YG24-34	34	1.417	1.500	0.984	0.3120	£20.31	£15.19
YG24-35	35	1.458	1.542	0.984	0.3120	£20.47	£15.38
YG24-36	36	1.500	1.583	1.181	0.3120	£20.61	£15.45
YG24-37	37	1.542	1.625	1.181	0.3120	£20.82	£15.55
YG24-38	38	1.583	1.667	1.181	0.3120	£20.92	£15.65
YG24-39	39	1.625	1.708	1.181	0.3120	£21.07	£15.77
YG24-40	40	1.667	1.750	1.181	0.3120	£21.10	£15.83
YG24-41	41	1.708	1.792	1.181	0.3120	£21.25	£15.93
YG24-42	42	1.750	1.833	1.181	0.3120	£21.38	£16.04
YG24-43	43	1.792	1.875	1.181	0.3120	£21.52	£16.13
YG24-44	44	1.833	1.917	1.181	0.3120	£21.70	£16.24
YG24-45	45	1.875	1.958	1.378	0.3750	£21.92	£16.44
YG24-46	46	1.917	2.000	1.378	0.3750	£22.29	£16.68
YG24-47	47	1.958	2.042	1.378	0.3750	£22.78	£17.06
YG24-48	48	2.000	2.083	1.378	0.3750	£23.30	£17.44
YG24-49	49	2.042	2.125	1.378	0.3750	£24.22	£18.17
YG24-50	50	2.083	2.167	1.378	0.3750	£25.28	£18.88
YG24-51	51	2.125	2.210	1.378	0.3750	£25.36	£19.03
YG24-52	52	2.167	2.250	1.378	0.3750	£25.62	£19.16
YG24-53	53	2.208	2.292	1.378	0.3750	£25.86	£19.36
YG24-54	54	2.250	2.333	1.378	0.3750	£26.10	£19.61
YG24-55	55	2.292	2.375	1.378	0.3750	£26.37	£19.73
YG24-56	56	2.333	2.417	1.378	0.3750	£27.07	£20.25
YG24-57	57	2.375	2.458	1.378	0.3750	£27.60	£20.66
YG24-58	58	2.417	2.500	1.378	0.3750	£28.04	£21.06
YG24-59	59	2.458	2.542	1.378	0.3750	£28.55	£21.38
YG24-60	60	2.500	2.583	1.378	0.3750	£29.10	£21.84
YG24-61	61	2.542	2.625	1.378	0.3750	£29.72	£22.29
YG24-62	62	2.583	2.667	1.378	0.3750	£29.98	£22.45
YG24-63	63	2.625	2.708	1.378	0.3750	£30.32	£22.71
YG24-64	64	2.667	2.750	1.378	0.3750	£30.85	£23.15
YG24-65	65	2.708	2.792	1.378	0.3750	£31.32	£23.47
YG24-66	66	2.750	2.833	1.378	0.3750	£31.90	£23.88
YG24-68	68	2.833	2.917	1.378	0.3750	£32.40	£24.24
YG24-70	70	2.917	3.000	1.772	0.3750	£32.91	£24.67
YG24-72	72	3.000	3.083	1.772	0.3750	£33.20	£24.88
YG24-73	73	3.042	3.125	1.772	0.3750	£33.61	£25.18
YG24-74	74	3.083	3.167	1.772	0.3750	£34.06	£25.58
YG24-76	76	3.167	3.250	1.772	0.3750	£34.56	£25.93
YG24-78	78	3.250	3.333	1.772	0.3750	£35.11	£26.32
YG24-80	80	3.333	3.417	1.772	0.3750	£35.82	£26.80
YG24-84	84	3.500	3.583	1.772	0.3750	£36.41	£27.53
YG24-88	88	3.667	3.750	1.772	0.3750	£38.77	£29.05
YG24-90	90	3.750	3.833	1.772	0.3750	£40.88	£30.72
YG24-96	96	4.000	4.083	1.772	0.5000	£46.66	£35.00
YG24-100	100	4.167	4.250	1.772	0.5000	£51.62	£38.65
YG24-112	112	4.667	4.750	1.772	0.5000	£55.01	£41.24
YG24-120	120	5.000	5.083	1.772	0.7500	£58.23	£43.66
YG24-130	130	5.417	5.500	1.772	0.7500	£64.10	£48.01
YG24-150	150	6.250	6.333	1.772	0.7500	£71.91	£53.90

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

24 DP

20° P.A.

SPECIAL TEETH : between 9 - 420



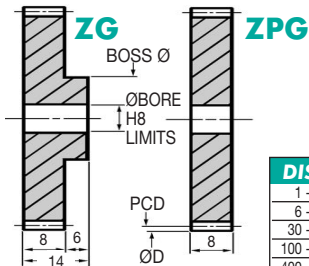
TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.70

Spur Gears Plastic - Fully Machined DP 24



Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG24-9	9	0.417	0.500	12	4	£5.06	£3.84
ZG24-10	10	0.458	0.542	12	4	£5.06	£3.85
ZG24-11	11	0.500	0.583	12	4	£5.08	£3.88
ZG24-12	12	0.500	0.583	12	4	£5.09	£3.89
ZG24-13	13	0.542	0.625	12	4	£5.19	£3.96
ZG24-14	14	0.583	0.667	12	4	£5.33	£4.08
ZG24-15	15	0.625	0.708	12	4	£5.46	£4.14
ZG24-16	16	0.667	0.750	15	6	£5.67	£4.27
ZG24-17	17	0.708	0.792	15	6	£5.79	£4.38
ZG24-18	18	0.750	0.833	15	6	£5.90	£4.57
ZG24-19	19	0.792	0.875	15	6	£6.04	£4.59
ZG24-20	20	0.833	0.917	15	6	£6.06	£4.61
ZG24-21	21	0.875	0.958	18	6	£6.20	£4.75
ZG24-22	22	0.917	1.000	18	6	£6.38	£4.83
ZG24-23	23	0.958	1.042	18	6	£6.43	£4.97
ZG24-24	24	1.000	1.083	18	6	£6.65	£5.06
ZG24-25	25	1.042	1.125	18	6	£7.27	£5.52
ZG24-26	26	1.083	1.167	18	6	£8.02	£6.14
ZG24-27	27	1.125	1.208	18	6	£8.18	£6.21
ZG24-28	28	1.167	1.250	18	6	£8.29	£6.32
ZG24-29	29	1.208	1.292	18	6	£8.36	£6.43
ZG24-30	30	1.250	1.333	18	6	£8.50	£6.51
ZG24-31	31	1.292	1.375	18	6	£8.59	£6.61

23.106



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG24-32	32	1.333	1.417	18	6	£8.73	£6.72
ZG24-33	33	1.375	1.458	18	6	£8.88	£6.77
ZG24-34	34	1.417	1.500	18	6	£8.96	£6.87
ZG24-35	35	1.458	1.542	18	6	£9.04	£6.95
ZG24-36	36	1.500	1.583	18	6	£9.08	£6.99
ZG24-39	39	1.625	1.708	18	6	£9.21	£7.02
ZG24-40	40	1.667	1.750	18	6	£9.26	£7.04
ZG24-41	41	1.708	1.792	18	6	£9.30	£7.12
ZG24-42	42	1.750	1.833	18	6	£9.32	£7.14
ZG24-43	43	1.792	1.875	18	6	£9.40	£7.36
ZG24-44	44	1.833	1.917	18	6	£9.51	£7.44
ZG24-45	45	1.875	1.958	18	6	£9.55	£7.66
ZG24-46	46	1.917	2.000	18	6	£11.06	£8.45
ZG24-47	47	1.958	2.042	18	6	£11.21	£8.59
ZG24-48	48	2.000	2.083	18	6	£11.49	£8.81
ZG24-49	49	2.042	2.125	22	8	£11.73	£8.96
ZG24-50	50	2.083	2.167	22	8	£12.22	£9.32
ZG24-51	51	2.125	2.210	22	8	£12.75	£9.77
ZG24-52	52	2.167	2.250	22	8	£12.78	£9.82
ZG24-54	54	2.250	2.333	22	8	£12.94	£9.94
ZG24-55	55	2.292	2.375	22	8	£13.03	£9.96
ZG24-56	56	2.333	2.417	22	8	£15.83	£12.09
ZG24-57	57	2.375	2.458	22	8	£15.95	£12.22
ZG24-58	58	2.417	2.500	22	8	£16.42	£12.52
ZG24-59	59	2.458	2.542	22	8	£16.73	£12.78
ZG24-60	60	2.500	2.583	22	8	£17.04	£13.03
ZG24-62	62	2.583	2.667	22	8	£17.28	£13.27
ZG24-63	63	2.625	2.708	22	8	£17.62	£13.49
ZG24-64	64	2.667	2.750	22	8	£17.99	£13.78
ZG24-65	65	2.708	2.792	22	8	£18.18	£13.95
ZG24-66	66	2.750	2.833	22	8	£18.37	£14.05
ZG24-68	68	2.833	2.917	22	8	£18.69	£14.35
ZG24-70	70	2.917	3.000	22	8	£19.01	£15.00
ZG24-72	72	3.000	3.083	22	8	£19.40	£16.04
ZG24-73	73	3.042	3.125	22	8	£22.31	£17.07
ZG24-74	74	3.083	3.167	22	8	£22.68	£17.34
ZG24-76	76	3.167	3.250	22	8	£22.80	£17.51
ZG24-78	78	3.250	3.333	22	8	£23.09	£17.67
ZG24-80	80	3.333	3.417	22	8	£23.45	£17.98
ZG24-84	84	3.500	3.583	22	8	£23.80	£18.18
ZG24-88	88	3.667	3.750	22	8	£24.16	£18.49
ZG24-90	90	3.750	3.833	26	8	£26.69	£20.55
ZG24-96	96	4.000	4.083	30	10	£28.26	£21.65
ZG24-100	100	4.167	4.250	30	10	£29.79	£22.78
ZG24-112	112	4.667	4.750	40	12	£34.00	£26.09
ZG24-120	120	5.000	5.083	40	15	£37.65	£28.84
ZG24-140	140	5.827	5.910	40	15	£45.04	£36.24

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

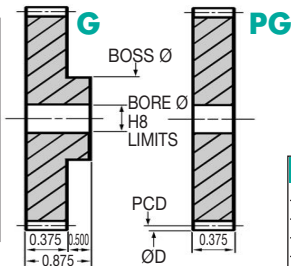
20 DP

20° P.A.

SPECIAL TEETH : between 9 - 340



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
	4.510	21.400	2.260	1.800
	0.470	2.238	0.231	0.187



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G20-9	9	0.500	0.600	0.600	0.2500	£11.81	£10.76
G20-10	10	0.550	0.650	0.650	0.2500	£11.83	£10.77
G20-11	11	0.600	0.700	0.700	0.3125	£11.84	£10.79
G20-12	12	0.600	0.700	0.700	0.3125	£11.85	£10.80
G20-13	13	0.650	0.750	0.750	0.3125	£12.40	£11.15
G20-14	14	0.700	0.800	0.750	0.3125	£13.09	£11.53
G20-15	15	0.750	0.850	0.750	0.3750	£13.59	£11.91
G20-16	16	0.800	0.900	0.750	0.3750	£14.15	£12.22
G20-17	17	0.850	0.950	0.750	0.3750	£14.33	£12.34
G20-18	18	0.900	1.000	0.750	0.3750	£14.61	£12.40
G20-19	19	0.950	1.050	0.750	0.3750	£14.83	£12.56
G20-20	20	1.000	1.100	0.750	0.3750	£15.18	£12.69
G20-21	21	1.050	1.150	0.750	0.3750	£15.39	£12.83
G20-22	22	1.100	1.200	0.750	0.3750	£15.61	£13.00
G20-23	23	1.150	1.250	0.750	0.3750	£15.87	£13.19
G20-24	24	1.200	1.300	0.875	0.3750	£16.12	£13.40
G20-25	25	1.250	1.350	0.875	0.3750	£16.48	£13.48
G20-26	26	1.300	1.400	0.875	0.3750	£16.92	£13.61
G20-27	27	1.350	1.450	0.875	0.3750	£17.29	£13.75
G20-28	28	1.400	1.500	0.875	0.3750	£17.67	£13.93
G20-29	29	1.450	1.550	0.875	0.3750	£18.12	£13.99
G20-30	30	1.500	1.600	0.875	0.3750	£18.61	£14.13
G20-31	31	1.550	1.650	0.875	0.3750	£18.79	£14.20

Spur Gears Steel - Standard DP 20

23.108



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						G	PG
G20-32	32	1.600	1.700	0.875	0.375	£19.07	£14.32
G20-33	33	1.650	1.750	0.875	0.375	£19.36	£14.46
G20-34	34	1.700	1.800	0.875	0.375	£19.77	£14.67
G20-35	35	1.750	1.850	0.875	0.375	£20.24	£14.82
G20-36	36	1.800	1.900	0.875	0.375	£20.70	£15.02
G20-37	37	1.850	1.950	0.875	0.375	£21.10	£15.18
G20-38	38	1.900	2.000	0.875	0.375	£21.59	£15.41
G20-39	39	1.950	2.050	0.875	0.375	£22.01	£15.57
G20-40	40	2.000	2.100	0.875	0.500	£22.43	£15.76
G20-41	41	2.050	2.150	0.875	0.500	£22.81	£15.90
G20-42	42	2.100	2.200	0.875	0.500	£23.26	£16.04
G20-43	43	2.150	2.250	0.875	0.500	£23.67	£16.19
G20-44	44	2.200	2.300	0.875	0.500	£24.10	£16.27
G20-45	45	2.250	2.350	0.875	0.500	£24.58	£16.44
G20-46	46	2.300	2.400	0.875	0.500	£24.77	£16.56
G20-47	47	2.350	2.450	0.875	0.500	£25.05	£16.72
G20-48	48	2.400	2.500	0.875	0.500	£25.40	£16.92
G20-49	49	2.450	2.550	0.875	0.500	£25.62	£17.13
G20-50	50	2.500	2.600	0.875	0.500	£25.81	£17.34
G20-51	51	2.550	2.650	0.875	0.500	£26.12	£17.59
G20-52	52	2.600	2.700	0.875	0.500	£26.32	£17.77
G20-53	53	2.650	2.750	0.875	0.500	£26.69	£17.87
G20-54	54	2.700	2.800	0.875	0.500	£27.13	£17.98
G20-55	55	2.750	2.850	0.875	0.500	£27.39	£18.13
G20-56	56	2.800	2.900	0.875	0.500	£27.92	£18.23
G20-57	57	2.850	2.950	0.875	0.500	£28.39	£18.30
G20-58	58	2.900	3.000	0.875	0.500	£28.66	£18.45
G20-59	59	2.950	3.050	0.875	0.500	£29.05	£18.67
G20-60	60	3.000	3.100	0.875	0.500	£29.30	£18.79
G20-61	61	3.050	3.150	0.875	0.500	£29.68	£19.04
G20-62	62	3.100	3.200	0.875	0.500	£30.11	£19.42
G20-63	63	3.150	3.250	0.875	0.500	£30.34	£19.73
G20-64	64	3.200	3.300	0.875	0.500	£30.55	£20.16
G20-65	65	3.250	3.350	0.875	0.500	£30.81	£20.73
G20-66	66	3.300	3.400	0.875	0.500	£30.86	£21.38
G20-68	68	3.400	3.500	0.875	0.500	£31.11	£21.96
G20-70	70	3.500	3.600	0.875	0.500	£31.22	£22.57
G20-72	72	3.600	3.700	0.875	0.500	£31.58	£25.62
G20-73	73	3.650	3.750	0.875	0.500	£32.98	£26.00
G20-74	74	3.700	3.800	0.875	0.500	£34.55	£26.55
G20-76	76	3.800	3.900	0.875	0.500	£35.22	£27.02
G20-78	78	3.900	4.000	0.875	0.500	£35.97	£27.39
G20-80	80	4.000	4.100	0.875	0.500	£37.47	£27.87
G20-84	84	4.200	4.300	0.875	0.500	£40.56	£30.55
G20-88	88	4.400	4.500	0.875	0.500	£50.65	£40.51
G20-90	90	4.500	4.600	1.000	0.625	£55.75	£44.62
G20-96	96	4.800	4.900	1.000	0.625	£63.27	£50.60
G20-100	100	5.000	5.100	1.000	0.625	£67.38	£53.89
G20-112	112	5.600	5.700	1.000	0.625	£68.32	£57.24
G20-120	120	6.000	6.100	1.500	0.750	£75.45	£60.40
G20-130	130	6.500	6.600	1.500	0.750	£79.83	£63.82
G20-140	140	7.000	7.100	1.500	0.750	£83.97	£67.13

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

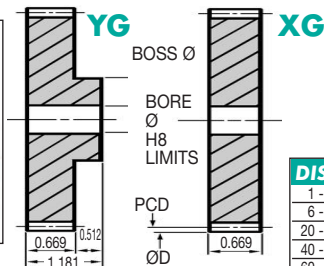
20 DP

20° P.A.

SPECIAL TEETH : between 9 - 340



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
TORQUE Nm.	17.000	47.000	17.000	24.000
K.W.	1.790	5.013	1.790	2.604



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						YG	XG
YG20-9	9	0.500	0.600	0.600	0.250	£14.76	£11.01
YG20-10	10	0.550	0.650	0.650	0.250	£14.77	£11.03
YG20-11	11	0.600	0.700	0.700	0.375	£14.78	£11.06
YG20-12	12	0.600	0.700	0.700	0.375	£14.82	£11.10
YG20-13	13	0.650	0.750	0.750	0.375	£15.49	£11.59
YG20-14	14	0.700	0.800	0.800	0.375	£16.29	£12.22
YG20-15	15	0.750	0.850	0.850	0.375	£16.94	£12.68
YG20-16	16	0.800	0.900	0.900	0.375	£17.67	£13.26
YG20-17	17	0.850	0.950	0.950	0.375	£17.87	£13.40
YG20-18	18	0.900	1.000	0.984	0.375	£18.13	£13.59
YG20-19	19	0.950	1.050	0.984	0.375	£18.52	£13.93
YG20-20	20	1.000	1.100	0.984	0.375	£18.88	£14.15
YG20-21	21	1.050	1.150	0.984	0.375	£19.16	£14.36
YG20-22	22	1.100	1.200	0.984	0.375	£19.50	£14.64
YG20-23	23	1.150	1.250	0.984	0.375	£19.77	£14.82
YG20-24	24	1.200	1.300	0.984	0.375	£20.08	£15.02
YG20-25	25	1.250	1.350	0.984	0.375	£20.59	£15.41
YG20-26	26	1.300	1.400	0.984	0.375	£21.09	£15.82
YG20-27	27	1.350	1.450	0.984	0.375	£21.59	£16.17
YG20-28	28	1.400	1.500	0.984	0.375	£22.01	£16.49
YG20-29	29	1.450	1.550	0.984	0.375	£22.55	£16.95
YG20-30	30	1.500	1.600	1.378	0.375	£23.15	£17.31
YG20-31	31	1.550	1.650	1.378	0.375	£23.47	£17.59

Spur Gears Steel - Heavy Duty DP 20

23.110



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						YG	XG
YG20-32	32	1.600	1.700	1.378	0.375	£23.81	£17.81
YG20-33	33	1.650	1.750	1.378	0.375	£24.19	£18.12
YG20-34	34	1.700	1.800	1.378	0.375	£24.70	£18.50
YG20-35	35	1.750	1.850	1.378	0.375	£25.28	£18.88
YG20-36	36	1.800	1.900	1.378	0.375	£25.86	£19.36
YG20-37	37	1.850	1.950	1.378	0.375	£26.32	£19.72
YG20-38	38	1.900	2.000	1.378	0.375	£26.90	£20.12
YG20-39	39	1.950	2.050	1.378	0.375	£27.43	£20.59
YG20-40	40	2.000	2.100	1.772	0.500	£27.98	£20.95
YG20-41	41	2.050	2.150	1.772	0.500	£28.50	£21.37
YG20-42	42	2.100	2.200	1.772	0.500	£29.01	£21.74
YG20-43	43	2.150	2.250	1.772	0.500	£29.52	£22.11
YG20-44	44	2.200	2.300	1.772	0.500	£30.03	£22.47
YG20-45	45	2.250	2.350	1.772	0.500	£30.61	£22.94
YG20-46	46	2.300	2.400	1.772	0.500	£30.85	£23.15
YG20-47	47	2.350	2.450	1.772	0.500	£31.21	£23.37
YG20-48	48	2.400	2.500	1.772	0.500	£31.73	£23.80
YG20-49	49	2.450	2.550	1.772	0.500	£31.91	£23.91
YG20-50	50	2.500	2.600	1.772	0.500	£32.27	£24.16
YG20-51	51	2.550	2.650	1.772	0.500	£32.60	£24.40
YG20-52	52	2.600	2.700	1.772	0.500	£32.81	£24.61
YG20-53	53	2.650	2.750	1.772	0.500	£33.31	£24.96
YG20-54	54	2.700	2.800	1.772	0.500	£33.86	£25.34
YG20-55	55	2.750	2.850	1.772	0.500	£34.13	£25.59
YG20-56	56	2.800	2.900	1.772	0.500	£34.84	£26.10
YG20-57	57	2.850	2.950	1.772	0.500	£35.39	£26.55
YG20-58	58	2.900	3.000	1.772	0.500	£35.73	£26.74
YG20-59	59	2.950	3.050	1.772	0.500	£36.23	£27.18
YG20-60	60	3.000	3.100	1.772	0.500	£36.45	£27.33
YG20-61	61	3.050	3.150	2.362	0.500	£36.98	£27.69
YG20-62	62	3.100	3.200	2.362	0.500	£37.60	£28.14
YG20-63	63	3.150	3.250	2.362	0.500	£37.80	£28.37
YG20-64	64	3.200	3.300	2.362	0.500	£38.08	£28.55
YG20-65	65	3.250	3.350	2.362	0.500	£38.50	£28.84
YG20-66	66	3.300	3.400	2.362	0.500	£38.55	£28.90
YG20-68	68	3.400	3.500	2.362	0.500	£38.74	£29.05
YG20-70	70	3.500	3.600	2.362	0.500	£38.93	£29.26
YG20-72	72	3.600	3.700	2.362	0.500	£39.28	£29.43
YG20-73	73	3.650	3.750	2.362	0.500	£41.09	£30.77
YG20-74	74	3.700	3.800	2.362	0.500	£43.04	£32.29
YG20-76	76	3.800	3.900	2.362	0.500	£43.88	£32.90
YG20-78	78	3.900	4.000	2.362	0.500	£44.85	£33.61
YG20-80	80	4.000	4.100	2.362	0.500	£46.69	£35.02
YG20-84	84	4.200	4.300	2.362	0.500	£50.59	£37.85
YG20-88	88	4.400	4.500	2.362	0.625	£63.14	£47.35
YG20-90	90	4.500	4.600	2.362	0.625	£69.42	£52.08
YG20-96	96	4.800	4.900	2.362	0.625	£78.85	£59.12
YG20-100	100	5.000	5.100	2.362	0.625	£83.97	£62.95
YG20-112	112	5.600	5.700	2.362	0.625	£89.22	£66.93
YG20-120	120	6.000	6.100	2.362	0.750	£94.09	£70.57
YG20-130	130	6.500	6.600	2.362	0.750	£99.49	£74.61
YG20-140	140	7.000	7.100	2.362	0.750	£104.66	£78.48

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

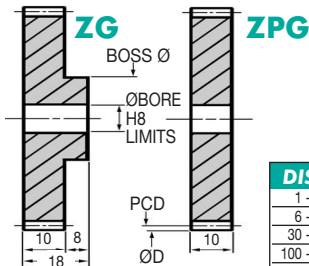
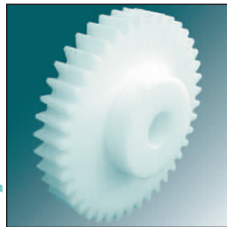
20 DP

20° P.A.

SPECIAL TEETH : between 9 - 340



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.00



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG20-9	9	0.500	0.600	15	5	£5.85	£4.51
ZG20-10	10	0.550	0.650	15	5	£5.86	£4.53
ZG20-11	11	0.600	0.700	15	5	£5.87	£4.54
ZG20-12	12	0.600	0.700	15	5	£5.90	£4.56
ZG20-13	13	0.650	0.750	15	5	£6.16	£4.74
ZG20-14	14	0.700	0.800	15	5	£6.54	£4.98
ZG20-15	15	0.750	0.850	15	5	£6.77	£5.22
ZG20-16	16	0.800	0.900	16	6	£7.03	£5.46
ZG20-17	17	0.850	0.950	16	6	£7.14	£5.52
ZG20-18	18	0.900	1.000	16	6	£7.28	£5.54
ZG20-19	19	0.950	1.050	16	6	£7.39	£5.72
ZG20-20	20	1.000	1.100	16	6	£7.56	£5.79
ZG20-21	21	1.050	1.150	18	6	£7.73	£5.90
ZG20-22	22	1.100	1.200	18	6	£7.82	£5.95
ZG20-23	23	1.150	1.250	18	6	£7.93	£6.06
ZG20-24	24	1.200	1.300	18	6	£8.10	£6.14
ZG20-25	25	1.250	1.350	18	6	£8.20	£6.32
ZG20-26	26	1.300	1.400	18	6	£8.47	£6.43
ZG20-27	27	1.350	1.450	18	6	£8.67	£6.65
ZG20-28	28	1.400	1.500	18	6	£8.88	£6.75
ZG20-29	29	1.450	1.550	18	6	£9.08	£6.99
ZG20-30	30	1.500	1.600	18	6	£9.30	£7.09
ZG20-31	31	1.550	1.650	18	6	£9.47	£7.27

Spur Gears Plastic - Fully Machined DP 20

23.112



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG20-32	32	1.600	1.700	18	6	£9.57	£7.36
ZG20-33	33	1.650	1.750	18	6	£9.68	£7.39
ZG20-34	34	1.700	1.800	18	6	£9.93	£7.56
ZG20-35	35	1.750	1.850	18	6	£12.75	£9.74
ZG20-40	40	2.000	2.100	18	6	£16.93	£13.01
ZG20-41	41	2.050	2.150	22	8	£17.28	£13.27
ZG20-42	42	2.100	2.200	22	8	£17.59	£13.48
ZG20-43	43	2.150	2.250	22	8	£17.88	£13.65
ZG20-44	44	2.200	2.300	22	8	£18.18	£13.95
ZG20-45	45	2.250	2.350	22	8	£18.61	£14.26
ZG20-46	46	2.300	2.400	22	8	£18.69	£14.33
ZG20-47	47	2.350	2.450	22	8	£18.90	£14.50
ZG20-48	48	2.400	2.500	22	8	£21.74	£16.65
ZG20-49	49	2.450	2.550	22	8	£21.96	£16.81
ZG20-50	50	2.500	2.600	22	8	£22.12	£16.98
ZG20-51	51	2.550	2.650	22	8	£22.31	£17.18
ZG20-52	52	2.600	2.700	22	8	£22.51	£17.28
ZG20-53	53	2.650	2.750	22	8	£22.89	£17.52
ZG20-54	54	2.700	2.800	22	8	£23.25	£17.87
ZG20-55	55	2.750	2.850	26	10	£23.43	£17.99
ZG20-56	56	2.800	2.900	26	10	£23.89	£18.37
ZG20-57	57	2.850	2.950	26	10	£24.31	£18.65
ZG20-58	58	2.900	3.000	26	10	£24.55	£18.78
ZG20-59	59	2.950	3.050	26	10	£26.37	£20.20
ZG20-60	60	3.000	3.100	26	10	£26.57	£20.37
ZG20-61	61	3.050	3.150	26	10	£26.93	£20.66
ZG20-62	62	3.100	3.200	26	10	£27.33	£20.96
ZG20-63	63	3.150	3.250	26	10	£27.53	£21.09
ZG20-64	64	3.200	3.300	26	10	£27.74	£21.27
ZG20-65	65	3.250	3.350	26	10	£27.99	£21.37
ZG20-66	66	3.300	3.400	26	10	£28.02	£21.44
ZG20-68	68	3.400	3.500	26	10	£28.24	£21.65
ZG20-70	70	3.500	3.600	26	10	£28.37	£21.71
ZG20-72	72	3.600	3.700	26	10	£31.85	£24.40
ZG20-73	73	3.650	3.750	26	10	£33.26	£25.48
ZG20-74	74	3.700	3.800	26	10	£34.88	£26.69
ZG20-76	76	3.800	3.900	26	10	£35.54	£27.25
ZG20-78	78	3.900	4.000	26	10	£36.27	£27.88
ZG20-80	80	4.000	4.100	30	12	£41.62	£31.90
ZG20-84	84	4.200	4.300	30	12	£45.02	£34.52
ZG20-88	88	4.400	4.500	30	12	£49.15	£39.30
ZG20-90	90	4.500	4.600	40	15	£54.07	£42.82
ZG20-96	96	4.800	4.900	40	15	£59.97	£44.95
ZG20-100	100	5.000	5.100	40	15	£60.75	£46.58
ZG20-112	112	5.600	5.700	50	20	£65.42	£49.80
ZG20-120	120	6.000	6.100	50	20	£70.37	£54.18

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

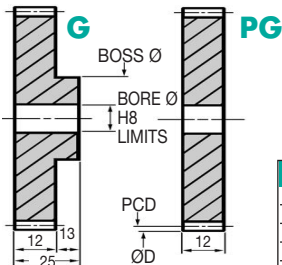
18 DP

20° P.A.

SPECIAL TEETH : between 9 - 315



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
	8.880	41.500	4.440	3.550
	0.930	4.230	0.460	0.370



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						G	PG
G18-9	9	14.11	16.93	18	8	£12.44	£12.11
G18-10	10	15.52	18.34	18	8	£12.48	£12.14
G18-11	11	16.93	19.76	18	8	£12.50	£12.15
G18-12	12	16.93	19.76	14	8	£12.51	£12.16
G18-13	13	18.34	21.17	15	8	£12.93	£12.65
G18-14	14	19.76	22.58	15	8	£13.26	£13.02
G18-15	15	21.17	23.99	18	8	£13.61	£13.40
G18-16	16	22.58	25.40	20	10	£13.96	£13.82
G18-17	17	23.99	26.81	20	10	£14.36	£14.25
G18-18	18	25.40	28.22	20	10	£14.82	£14.67
G18-19	19	26.81	29.63	20	10	£15.39	£14.72
G18-20	20	28.22	31.00	20	10	£16.17	£14.73
G18-21	21	29.63	32.45	20	10	£16.29	£14.83
G18-22	22	31.04	33.87	20	10	£16.48	£14.95
G18-23	23	32.46	35.28	20	10	£16.77	£15.07
G18-24	24	33.87	36.69	25	10	£16.94	£15.19
G18-25	25	35.28	38.10	25	10	£17.81	£15.23
G18-26	26	36.69	39.51	25	10	£18.67	£15.33
G18-27	27	38.10	40.92	25	10	£19.25	£15.55
G18-28	28	39.51	42.33	25	10	£19.81	£15.82
G18-29	29	40.92	43.74	25	10	£20.12	£16.12
G18-30	30	42.33	45.16	25	10	£20.70	£16.29
G18-31	31	43.74	46.57	25	10	£21.07	£16.81

Spur Gears Steel - Standard DP 18

23.114



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						G	PG
G18-32	32	45.16	47.98	25	10	£21.42	£16.94
G18-33	33	46.57	49.39	25	10	£21.65	£17.38
G18-34	34	47.98	50.80	25	10	£21.85	£17.59
G18-35	35	49.39	52.21	30	15	£22.11	£17.76
G18-36	36	50.80	53.62	30	15	£23.22	£17.98
G18-37	37	52.21	55.03	30	15	£23.74	£18.18
G18-38	38	53.62	56.44	30	15	£24.22	£18.45
G18-39	39	55.03	57.86	30	15	£24.77	£18.98
G18-40	40	56.44	59.27	40	15	£25.03	£19.42
G18-41	41	57.86	60.68	40	15	£25.31	£20.09
G18-42	42	59.27	62.09	40	15	£25.32	£20.66
G18-43	43	60.68	63.50	40	15	£25.33	£21.32
G18-44	44	62.09	64.91	40	15	£25.34	£21.91
G18-45	45	63.50	66.32	40	15	£25.86	£22.49
G18-46	46	64.91	67.73	40	15	£26.44	£23.15
G18-47	47	66.32	69.14	40	15	£27.05	£23.74
G18-48	48	67.73	70.56	40	15	£27.63	£24.37
G18-49	49	69.14	71.97	40	15	£28.89	£24.89
G18-50	50	70.56	73.38	40	15	£30.86	£25.59
G18-51	51	71.97	74.79	40	15	£31.82	£26.20
G18-52	52	73.38	76.20	40	15	£32.45	£26.74
G18-53	53	74.79	77.61	40	15	£32.98	£27.40
G18-54	54	76.20	79.02	40	15	£33.10	£28.02
G18-55	55	77.61	80.43	40	15	£33.26	£28.43
G18-56	56	79.02	81.84	40	15	£33.56	£28.89
G18-57	57	80.43	83.26	40	15	£33.86	£29.30
G18-58	58	81.84	84.67	40	15	£34.02	£29.72
G18-59	59	83.26	86.08	40	15	£34.19	£30.08
G18-60	60	84.67	87.49	40	15	£34.34	£30.51
G18-62	62	87.49	90.31	40	15	£35.02	£30.86
G18-64	64	90.31	93.13	40	15	£35.47	£31.32
G18-65	65	91.72	94.54	40	15	£36.34	£31.74
G18-66	66	93.13	95.96	40	15	£37.70	£32.40
G18-68	68	95.96	98.78	40	15	£38.54	£32.85
G18-70	70	98.78	101.60	40	15	£39.93	£33.20
G18-71	71	100.19	103.01	50	15	£40.99	£34.17
G18-72	72	101.60	104.42	50	15	£42.21	£35.11
G18-73	73	103.01	105.83	50	15	£43.22	£35.98
G18-74	74	104.42	107.24	50	15	£44.70	£37.29
G18-75	75	105.83	108.66	50	15	£45.00	£37.44
G18-76	76	107.24	110.07	50	15	£45.15	£37.65
G18-78	78	110.07	112.89	50	15	£47.44	£39.53
G18-80	80	112.89	115.71	50	15	£49.18	£40.98
G18-86	86	121.36	124.18	50	15	£52.86	£43.99
G18-90	90	127.00	129.82	50	15	£56.60	£47.15
G18-96	96	135.47	138.29	50	15	£60.38	£50.29
G18-98	98	138.29	141.11	50	15	£64.10	£53.42
G18-100	100	141.11	143.93	50	15	£68.27	£56.88
G18-105	105	148.17	150.99	50	15	£72.76	£60.59
G18-110	110	155.22	158.04	50	15	£78.58	£65.46
G18-115	115	162.28	165.10	50	15	£87.46	£72.88
G18-120	120	169.33	172.16	50	15	£97.71	£81.41

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

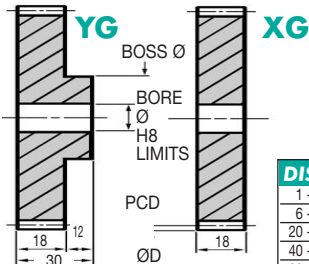
18 DP

20° P.A.

SPECIAL TEETH : between 9 - 315



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations	11.50	50.00	5.80	4.60
TORQUE Nm.				
K.W.	1.21	5.24	0.61	0.48



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						YG	XG
YG18-9	9	14.11	16.93	18	8	£15.61	£15.19
YG18-10	10	15.52	18.34	18	8	£15.65	£15.20
YG18-11	11	16.93	19.76	18	8	£15.68	£15.22
YG18-12	12	16.93	19.76	14	8	£15.69	£15.23
YG18-13	13	18.34	21.17	15	8	£16.17	£15.82
YG18-14	14	19.76	22.58	15	8	£16.57	£16.27
YG18-15	15	21.17	23.99	18	8	£17.02	£16.78
YG18-16	16	22.58	25.40	20	10	£17.48	£17.29
YG18-17	17	23.99	26.81	20	10	£17.99	£17.80
YG18-18	18	25.40	28.22	20	10	£18.55	£18.37
YG18-19	19	26.81	29.63	20	10	£19.25	£18.43
YG18-20	20	28.22	31.00	20	10	£20.24	£18.45
YG18-21	21	29.63	32.45	20	10	£20.42	£18.61
YG18-22	22	31.04	33.87	20	10	£20.64	£18.67
YG18-23	23	32.46	35.28	20	10	£20.95	£18.88
YG18-24	24	33.87	36.69	25	10	£21.21	£19.02
YG18-25	25	35.28	38.10	25	10	£22.30	£16.23
YG18-26	26	36.69	39.51	25	10	£23.36	£19.14
YG18-27	27	38.10	40.92	25	10	£24.10	£19.46
YG18-28	28	39.51	42.33	25	10	£24.78	£19.77
YG18-29	29	40.92	43.74	25	10	£25.18	£20.12
YG18-30	30	42.33	45.16	25	10	£25.95	£20.42
YG18-31	31	43.74	46.57	25	10	£26.33	£21.06

Spur Gears Steel - Heavy Duty DP 18

23.116



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						YG	XG
YG18-32	32	45.16	47.98	25	10	£26.85	£21.21
YG18-33	33	46.57	49.39	25	10	£27.07	£21.77
YG18-34	34	47.98	50.80	25	10	£27.33	£22.00
YG18-35	35	49.39	52.21	30	15	£27.64	£22.20
YG18-36	36	50.80	53.62	30	15	£29.03	£22.47
YG18-37	37	52.21	55.03	30	15	£29.68	£22.76
YG18-38	38	53.62	56.44	30	15	£30.34	£23.08
YG18-39	39	55.03	57.86	30	15	£31.01	£23.74
YG18-40	40	56.44	59.27	40	15	£31.30	£24.32
YG18-41	41	57.86	60.68	40	15	£31.62	£25.12
YG18-42	42	59.27	62.09	40	15	£31.67	£25.84
YG18-43	43	60.68	63.50	40	15	£31.68	£26.67
YG18-44	44	62.09	64.91	40	15	£31.70	£27.39
YG18-45	45	63.50	66.32	40	15	£32.35	£28.19
YG18-46	46	64.91	67.73	40	15	£33.07	£28.98
YG18-47	47	66.32	69.14	40	15	£33.86	£29.68
YG18-48	48	67.73	70.56	40	15	£34.56	£30.46
YG18-49	49	69.14	71.97	40	15	£36.10	£31.15
YG18-50	50	70.56	73.38	40	15	£38.61	£31.99
YG18-51	51	71.97	74.79	40	15	£39.79	£32.75
YG18-52	52	73.38	76.20	40	15	£40.62	£33.50
YG18-53	53	74.79	77.61	40	15	£41.23	£34.27
YG18-54	54	76.20	79.02	40	15	£41.23	£35.06
YG18-55	55	77.61	80.43	40	15	£41.62	£35.56
YG18-56	56	79.02	81.84	40	15	£41.95	£36.10
YG18-57	57	80.43	83.26	40	15	£42.33	£36.62
YG18-58	58	81.84	84.67	40	15	£42.56	£37.18
YG18-59	59	83.26	86.08	40	15	£42.76	£37.65
YG18-60	60	84.67	87.49	40	15	£42.97	£38.15
YG18-62	62	87.49	90.31	40	15	£43.79	£38.61
YG18-64	64	90.31	93.13	40	15	£44.36	£39.20
YG18-65	65	91.72	94.54	40	15	£45.44	£39.69
YG18-66	66	93.13	95.96	40	15	£47.15	£40.56
YG18-68	68	95.96	98.78	40	15	£48.20	£41.10
YG18-70	70	98.78	101.60	40	15	£49.93	£41.53
YG18-71	71	100.19	103.01	50	15	£51.28	£42.72
YG18-72	72	101.60	104.42	50	15	£52.79	£43.96
YG18-73	73	103.01	105.83	50	15	£54.04	£45.02
YG18-74	74	104.42	107.24	50	15	£55.94	£46.58
YG18-75	75	105.83	108.66	50	15	£56.26	£46.86
YG18-76	76	107.24	110.07	50	15	£56.48	£47.04
YG18-78	78	110.07	112.89	50	15	£59.31	£49.39
YG18-80	80	112.89	115.71	50	15	£61.50	£51.27
YG18-86	86	121.36	124.18	50	15	£66.11	£55.01
YG18-90	90	127.00	129.82	50	15	£70.82	£58.93
YG18-96	96	135.47	138.29	50	15	£75.47	£62.83
YG18-98	98	138.29	141.11	50	15	£80.14	£66.77
YG18-100	100	141.11	143.93	50	15	£85.37	£71.13
YG18-105	105	148.17	150.99	50	15	£90.97	£75.78
YG18-110	110	155.22	158.04	50	15	£98.24	£81.80
YG18-115	115	162.28	165.10	50	15	£109.32	£91.11
YG18-120	120	169.33	172.16	50	15	£122.19	£101.79

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

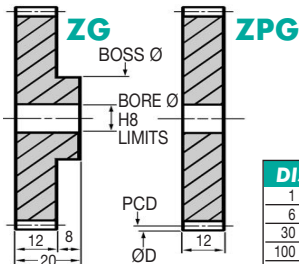
18 DP

20° P.A.

SPECIAL TEETH : between 9 - 315



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.70



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG18-9	9	14.11	16.93	18	8	£6.20	£4.75
ZG18-10	10	15.52	18.34	18	8	£6.21	£4.76
ZG18-11	11	16.93	19.76	18	8	£6.24	£4.78
ZG18-12	12	16.93	19.76	14	8	£6.30	£4.79
ZG18-13	13	18.34	21.17	15	8	£6.43	£4.97
ZG18-14	14	19.76	22.58	15	8	£6.65	£5.06
ZG18-15	15	21.17	23.99	18	8	£6.77	£5.22
ZG18-16	16	22.58	25.40	20	10	£6.99	£5.33
ZG18-17	17	23.99	26.81	20	10	£7.27	£5.52
ZG18-18	18	25.40	28.22	20	10	£7.40	£5.67
ZG18-19	19	26.81	29.63	20	10	£8.50	£6.43
ZG18-20	20	28.22	31.00	20	10	£8.93	£6.77
ZG18-21	21	29.63	32.45	20	10	£8.96	£6.87
ZG18-22	22	31.04	33.87	20	10	£9.08	£6.99
ZG18-23	23	32.46	35.28	20	10	£9.26	£7.04
ZG18-24	24	33.87	36.69	25	10	£9.32	£7.14
ZG18-25	25	35.28	38.10	25	10	£9.86	£7.49
ZG18-26	26	36.69	39.51	25	10	£10.30	£7.87
ZG18-27	27	38.10	40.92	25	10	£12.08	£9.26
ZG18-28	28	39.51	42.33	25	10	£12.43	£9.55
ZG18-29	29	40.92	43.74	25	10	£12.68	£9.68
ZG18-30	30	42.33	45.16	25	10	£13.03	£9.96
ZG18-31	31	43.74	46.57	25	10	£13.27	£10.15

Spur Gears Plastic - Fully Machined DP 18

23.118



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG18-32	32	45.16	47.98	25	10	£13.49	£10.30
ZG18-33	33	46.57	49.39	25	10	£13.61	£10.42
ZG18-34	34	47.98	50.80	25	10	£16.55	£12.66
ZG18-35	35	49.39	52.21	30	15	£16.68	£12.78
ZG18-36	36	50.80	53.62	30	15	£17.52	£13.41
ZG18-37	37	52.21	55.03	30	15	£17.98	£13.75
ZG18-38	38	53.62	56.44	30	15	£20.81	£15.93
ZG18-39	39	55.03	57.86	30	15	£21.24	£16.25
ZG18-40	40	56.44	59.27	40	15	£21.67	£16.60
ZG18-41	41	57.86	60.68	40	15	£21.68	£16.61
ZG18-42	42	59.27	62.09	40	15	£21.70	£16.64
ZG18-43	43	60.68	63.50	40	15	£21.71	£16.65
ZG18-44	44	62.09	64.91	40	15	£21.73	£16.68
ZG18-45	45	63.50	66.32	40	15	£22.12	£16.98
ZG18-46	46	64.91	67.73	40	15	£22.55	£17.28
ZG18-47	47	66.32	69.14	40	15	£23.20	£17.77
ZG18-48	48	67.73	70.56	40	15	£23.67	£18.13
ZG18-49	49	69.14	71.97	40	15	£26.16	£20.08
ZG18-50	50	70.56	73.38	40	15	£28.02	£21.48
ZG18-51	51	71.97	74.79	40	15	£28.89	£22.12
ZG18-52	52	73.38	76.20	40	15	£29.43	£22.66
ZG18-53	53	74.79	77.61	40	15	£29.93	£22.94
ZG18-54	54	76.20	79.02	40	15	£30.18	£23.15
ZG18-55	55	77.61	80.43	40	15	£30.43	£23.30
ZG18-56	56	79.02	81.84	40	15	£30.44	£23.31
ZG18-57	57	80.43	83.26	40	15	£30.76	£23.54
ZG18-58	58	81.84	84.67	40	15	£30.87	£23.68
ZG18-59	59	83.26	86.08	40	15	£34.51	£26.44
ZG18-60	60	84.67	87.49	40	15	£34.72	£26.57
ZG18-62	62	87.49	90.31	40	15	£35.32	£27.07
ZG18-64	64	90.31	93.13	40	15	£35.82	£27.41
ZG18-65	65	91.72	94.54	40	15	£40.32	£30.91
ZG18-66	66	93.13	95.96	40	15	£41.82	£32.03
ZG18-68	68	95.96	98.78	40	15	£42.76	£32.83
ZG18-70	70	98.78	101.60	40	15	£44.33	£33.97
ZG18-71	71	100.19	103.01	50	15	£45.54	£34.93
ZG18-72	72	101.60	104.42	50	15	£49.12	£35.96
ZG18-73	73	103.01	105.83	50	15	£49.36	£36.81
ZG18-74	74	104.42	107.24	50	15	£49.63	£38.05
ZG18-75	75	105.83	108.66	50	15	£49.97	£38.30
ZG18-76	76	107.24	110.07	50	15	£52.64	£38.41
ZG18-78	78	110.07	112.89	50	15	£56.90	£40.42
ZG18-80	80	112.89	115.71	50	15	£59.52	£45.71
ZG18-86	86	121.36	124.18	50	15	£63.99	£49.12
ZG18-90	90	127.00	129.82	50	15	£68.57	£52.64
ZG18-96	96	135.47	138.29	50	15	£79.21	£60.75
ZG18-98	98	138.29	141.11	50	15	£91.39	£70.69
ZG18-100	100	141.11	143.93	50	15	£103.77	£83.55
ZG18-105	105	148.17	150.99	50	15	£129.78	£109.57
ZG18-110	110	155.22	158.04	50	15	£151.05	£130.84
ZG18-115	115	162.28	165.10	50	15	£171.79	£151.58
ZG18-120	120	169.33	172.16	50	15	£196.07	£175.84

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

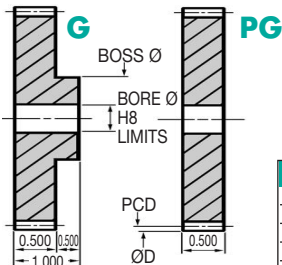
16 DP

20° P.A.

SPECIAL TEETH : between 9 - 280



TORQUE CHECK 50 teeth x 1000 rpm variations of back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	9.400	44.000	4.700	3.760
K.W.	0.985	4.476	0.492	0.395



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G16-9	9	0.625	0.750	0.750	0.312	£12.44	£12.11
G16-10	10	0.688	0.813	0.813	0.312	£12.48	£12.14
G16-11	11	0.750	0.875	0.875	0.312	£12.50	£12.15
G16-12	12	0.750	0.875	0.750	0.375	£13.27	£12.16
G16-13	13	0.813	0.938	0.750	0.375	£13.30	£12.75
G16-14	14	0.875	1.000	0.750	0.375	£13.54	£13.13
G16-15	15	0.938	1.063	0.750	0.375	£13.96	£13.77
G16-16	16	1.000	1.125	0.750	0.375	£14.82	£14.46
G16-17	17	1.063	1.188	0.750	0.375	£15.39	£14.83
G16-18	18	1.125	1.250	0.750	0.375	£16.17	£15.45
G16-19	19	1.188	1.313	0.750	0.375	£16.56	£15.61
G16-20	20	1.250	1.375	1.000	0.500	£16.94	£16.04
G16-21	21	1.313	1.438	1.000	0.500	£17.98	£16.35
G16-22	22	1.375	1.500	1.000	0.500	£18.79	£16.72
G16-23	23	1.438	1.563	1.000	0.500	£19.36	£17.18
G16-24	24	1.500	1.625	1.000	0.500	£19.81	£17.59
G16-25	25	1.563	1.688	1.000	0.500	£20.11	£17.76
G16-26	26	1.625	1.750	1.000	0.500	£20.70	£18.09
G16-27	27	1.688	1.813	1.000	0.500	£21.07	£18.17
G16-28	28	1.750	1.875	1.000	0.500	£21.42	£18.29
G16-29	29	1.813	1.938	1.000	0.500	£21.77	£18.43
G16-30	30	1.875	2.000	1.000	0.500	£22.11	£18.61
G16-31	31	1.938	2.063	1.000	0.500	£22.69	£18.71

Spur Gears Steel - Standard DP 16

23.120



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G16-32	32	2.000	2.125	1.000	0.500	£23.22	£18.87
G16-33	33	2.063	2.188	1.000	0.500	£23.30	£19.04
G16-34	34	2.125	2.250	1.000	0.500	£23.37	£19.16
G16-35	35	2.188	2.313	1.000	0.500	£23.47	£19.29
G16-36	36	2.250	2.375	1.250	0.625	£23.60	£22.85
G16-37	37	2.313	2.438	1.250	0.625	£23.88	£23.54
G16-38	38	2.375	2.500	1.250	0.625	£24.40	£24.21
G16-39	39	2.438	2.563	1.250	0.625	£25.07	£24.67
G16-40	40	2.500	2.625	1.250	0.625	£25.34	£25.18
G16-41	41	2.563	2.688	1.250	0.625	£25.66	£25.43
G16-42	42	2.625	2.750	1.250	0.625	£26.27	£25.93
G16-43	43	2.688	2.813	1.250	0.625	£26.90	£26.32
G16-44	44	2.750	2.875	1.250	0.625	£27.63	£26.74
G16-45	45	2.813	2.938	1.250	0.625	£28.42	£27.31
G16-46	46	2.875	3.000	1.250	0.625	£29.33	£27.69
G16-47	47	2.938	3.063	1.250	0.625	£30.26	£28.31
G16-48	48	3.000	3.125	1.250	0.625	£30.86	£28.79
G16-49	49	3.063	3.188	1.250	0.625	£31.74	£29.53
G16-50	50	3.125	3.250	1.250	0.625	£32.29	£30.17
G16-51	51	3.188	3.313	1.250	0.625	£32.90	£30.73
G16-52	52	3.250	3.375	1.250	0.625	£33.47	£31.54
G16-53	53	3.313	3.438	1.250	0.625	£34.61	£31.90
G16-54	54	3.375	3.500	1.250	0.625	£35.70	£32.53
G16-55	55	3.438	3.563	1.250	0.625	£36.54	£32.98
G16-56	56	3.500	3.625	1.250	0.625	£37.10	£33.50
G16-57	57	3.563	3.688	1.250	0.625	£37.67	£34.06
G16-58	58	3.625	3.750	1.250	0.625	£38.14	£34.63
G16-59	59	3.688	3.813	1.250	0.625	£38.68	£35.30
G16-60	60	3.750	3.875	1.250	0.625	£39.34	£35.89
G16-61	61	3.812	3.937	1.250	0.625	£40.49	£36.03
G16-62	62	3.875	4.000	1.250	0.625	£41.63	£37.06
G16-63	63	3.937	4.063	1.250	0.625	£42.20	£37.47
G16-64	64	4.000	4.125	1.250	0.625	£42.68	£38.02
G16-65	65	4.062	4.187	1.250	0.625	£43.36	£38.59
G16-66	66	4.125	4.250	1.250	0.625	£44.70	£39.28
G16-68	68	4.250	4.375	1.250	0.625	£45.11	£39.68
G16-70	70	4.375	4.500	1.250	0.625	£46.60	£41.03
G16-72	72	4.500	4.625	1.250	0.625	£48.40	£44.72
G16-73	73	4.562	4.687	1.500	0.750	£50.89	£45.90
G16-74	74	4.625	4.750	1.500	0.750	£53.48	£47.04
G16-76	76	4.750	4.875	1.500	0.750	£57.12	£51.60
G16-78	78	4.875	5.000	1.500	0.750	£59.46	£52.30
G16-80	80	5.000	5.125	1.500	0.750	£63.61	£55.94
G16-84	84	5.250	5.375	1.500	0.750	£64.10	£59.15
G16-88	88	5.500	5.625	1.500	0.750	£74.75	£65.76
G16-90	90	5.625	5.750	1.500	0.750	£78.16	£68.80
G16-96	96	6.000	6.125	1.500	0.750	£85.85	£75.48
G16-100	100	6.250	6.375	1.500	0.750	£89.47	£78.74
G16-105	105	6.563	6.688	1.500	0.750	£97.72	£86.02
G16-110	110	6.875	7.000	1.500	0.750	£104.53	£91.92
G16-115	115	7.188	7.313	1.500	0.750	£108.22	£95.24
G16-120	120	7.500	7.625	1.500	0.750	£113.55	£99.91

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

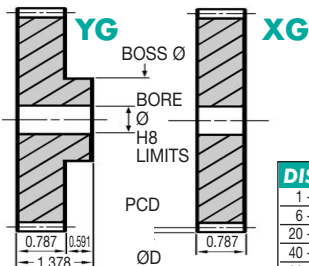
16 DP

20° P.A.

SPECIAL TEETH : between 9 - 280



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations of back	32.000	88.000	16.000	46.000
TORQUE Nm.				
K.W.	3.342	8.952	3.342	4.879



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG16 - 9	9	0.625	0.750	0.750	0.312	£15.55	£11.65
YG16 - 10	10	0.688	0.813	0.813	0.312	£15.57	£11.66
YG16 - 11	11	0.750	0.875	0.875	0.312	£15.60	£11.67
YG16 - 12	12	0.750	0.875	0.875	0.375	£15.61	£11.70
YG16 - 13	13	0.813	0.938	0.938	0.375	£16.44	£12.29
YG16 - 14	14	0.875	1.000	0.984	0.375	£16.92	£12.66
YG16 - 15	15	0.938	1.063	0.984	0.375	£17.38	£13.03
YG16 - 16	16	1.000	1.125	0.984	0.375	£18.50	£13.92
YG16 - 17	17	1.063	1.188	0.984	0.375	£19.16	£14.36
YG16 - 18	18	1.125	1.250	0.984	0.375	£20.12	£15.07
YG16 - 19	19	1.188	1.313	0.984	0.375	£20.66	£15.47
YG16 - 20	20	1.250	1.375	1.181	0.500	£21.10	£15.83
YG16 - 21	21	1.313	1.438	1.181	0.500	£22.43	£16.81
YG16 - 22	22	1.375	1.500	1.181	0.500	£23.47	£17.59
YG16 - 23	23	1.438	1.563	1.181	0.500	£24.19	£18.12
YG16 - 24	24	1.500	1.625	1.181	0.500	£24.73	£18.52
YG16 - 25	25	1.563	1.688	1.181	0.500	£25.08	£18.77
YG16 - 26	26	1.625	1.750	1.181	0.500	£25.86	£19.36
YG16 - 27	27	1.688	1.813	1.181	0.500	£26.27	£19.66
YG16 - 28	28	1.750	1.875	1.181	0.500	£26.74	£20.08
YG16 - 29	29	1.813	1.938	1.181	0.500	£27.18	£20.36
YG16 - 30	30	1.875	2.000	1.378	0.500	£27.57	£20.64
YG16 - 31	31	1.938	2.063	1.378	0.500	£28.24	£21.15

Spur Gears Steel - Heavy Duty DP 16

23.122



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG16 - 32	32	2.000	2.125	1.378	0.500	£28.95	£21.67
YG16 - 33	33	2.063	2.188	1.378	0.500	£29.05	£21.77
YG16 - 34	34	2.125	2.250	1.378	0.500	£29.16	£21.85
YG16 - 35	35	2.188	2.313	1.378	0.500	£29.30	£21.96
YG16 - 36	36	2.250	2.375	1.969	0.625	£29.38	£22.01
YG16 - 37	37	2.313	2.438	1.969	0.625	£29.81	£22.36
YG16 - 38	38	2.375	2.500	1.969	0.625	£30.50	£22.79
YG16 - 39	39	2.438	2.563	1.969	0.625	£31.22	£23.42
YG16 - 40	40	2.500	2.625	1.969	0.625	£31.62	£23.71
YG16 - 41	41	2.563	2.688	1.969	0.625	£31.99	£23.92
YG16 - 42	42	2.625	2.750	1.969	0.625	£32.72	£24.57
YG16 - 43	43	2.688	2.813	1.969	0.625	£33.58	£25.18
YG16 - 44	44	2.750	2.875	1.969	0.625	£34.47	£25.80
YG16 - 45	45	2.813	2.938	1.969	0.625	£35.44	£26.56
YG16 - 46	46	2.875	3.000	1.969	0.625	£36.60	£27.42
YG16 - 47	47	2.938	3.063	1.969	0.625	£37.75	£28.29
YG16 - 48	48	3.000	3.125	1.969	0.625	£38.55	£28.90
YG16 - 49	49	3.063	3.188	1.969	0.625	£39.59	£29.68
YG16 - 50	50	3.125	3.250	2.362	0.625	£40.22	£30.17
YG16 - 51	51	3.188	3.313	2.362	0.625	£40.99	£30.76
YG16 - 52	52	3.250	3.375	2.362	0.625	£41.71	£31.26
YG16 - 53	53	3.313	3.438	2.362	0.625	£43.21	£32.35
YG16 - 54	54	3.375	3.500	2.362	0.625	£44.50	£33.36
YG16 - 55	55	3.438	3.563	2.362	0.625	£45.54	£34.13
YG16 - 56	56	3.500	3.625	2.362	0.625	£46.93	£34.63
YG16 - 57	57	3.563	3.688	2.362	0.625	£47.60	£35.15
YG16 - 58	58	3.625	3.750	2.362	0.625	£48.25	£35.67
YG16 - 59	59	3.688	3.813	2.362	0.625	£49.05	£36.19
YG16 - 60	60	3.750	3.875	2.362	0.625	£50.46	£36.76
YG16 - 61	61	3.812	3.937	2.362	0.625	£51.93	£37.80
YG16 - 62	62	3.875	4.000	2.362	0.625	£53.14	£38.92
YG16 - 63	63	3.937	4.063	2.362	0.625	£53.17	£39.38
YG16 - 64	64	4.000	4.125	2.362	0.625	£54.07	£39.92
YG16 - 65	65	4.062	4.187	2.362	0.625	£55.78	£40.51
YG16 - 66	66	4.125	4.250	2.362	0.625	£56.21	£41.82
YG16 - 68	68	4.250	4.375	2.362	0.625	£58.16	£42.20
YG16 - 70	70	4.375	4.500	2.362	0.625	£60.31	£43.60
YG16 - 72	72	4.500	4.625	2.362	0.625	£63.43	£45.19
YG16 - 73	73	4.562	4.687	2.953	0.750	£66.70	£47.53
YG16 - 74	74	4.625	4.750	2.953	0.750	£71.18	£49.97
YG16 - 76	76	4.750	4.875	2.953	0.750	£74.09	£53.41
YG16 - 78	78	4.875	5.000	2.953	0.750	£79.30	£55.52
YG16 - 80	80	5.000	5.125	2.953	0.750	£83.85	£59.46
YG16 - 84	84	5.250	5.375	2.953	0.750	£93.16	£62.84
YG16 - 88	88	5.500	5.625	2.953	0.750	£97.41	£69.89
YG16 - 90	90	5.625	5.750	2.953	0.750	£107.00	£73.03
YG16 - 96	96	6.000	6.125	2.953	0.750	£111.53	£80.23
YG16 - 100	100	6.250	6.375	2.953	0.750	£121.83	£83.61
YG16 - 105	105	6.563	6.688	2.953	0.750	£130.24	£91.34
YG16 - 110	110	6.875	7.000	2.953	0.750	£134.85	£97.68
YG16 - 115	115	7.188	7.313	2.953	0.750	£141.48	£101.15
YG16 - 120	120	7.500	7.625	2.953	0.750	£146.14	£106.08

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

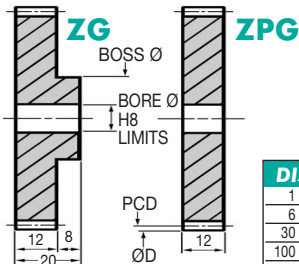
16 DP

20° P.A.

SPECIAL TEETH : between 9 - 280



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 2.40



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG16-9	9	0.625	0.750	18	6	£6.20	£4.75
ZG16-10	10	0.688	0.813	18	6	£6.21	£4.76
ZG16-11	11	0.750	0.875	18	6	£6.24	£4.78
ZG16-12	12	0.750	0.875	18	6	£6.30	£4.79
ZG16-13	13	0.813	0.938	18	6	£6.54	£5.06
ZG16-14	14	0.875	1.000	20	8	£6.75	£5.19
ZG16-15	15	0.938	1.063	20	8	£6.99	£5.33
ZG16-16	16	1.000	1.125	20	8	£7.39	£5.63
ZG16-17	17	1.063	1.188	20	8	£7.73	£5.90
ZG16-18	18	1.125	1.250	24	8	£8.10	£6.16
ZG16-19	19	1.188	1.313	25	8	£8.27	£6.37
ZG16-20	20	1.250	1.375	25	8	£8.47	£6.43
ZG16-21	21	1.313	1.438	25	8	£8.96	£6.87
ZG16-22	22	1.375	1.500	25	8	£9.47	£7.27
ZG16-23	23	1.438	1.563	25	8	£9.68	£7.39
ZG16-24	24	1.500	1.625	25	8	£9.95	£7.63
ZG16-25	25	1.563	1.688	25	8	£10.09	£7.73
ZG16-26	26	1.625	1.750	25	8	£10.42	£7.99
ZG16-27	27	1.688	1.813	25	8	£11.59	£8.88
ZG16-28	28	1.750	1.875	25	8	£11.85	£9.08
ZG16-29	29	1.813	1.938	25	8	£12.05	£9.20
ZG16-30	30	1.875	2.000	25	8	£13.93	£10.65
ZG16-31	31	1.938	2.063	28	10	£14.26	£10.94

Spur Gears Plastic - Fully Machined DP 16

23.124



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG16-32	32	2.000	2.125	28	10	£17.52	£13.41
ZG16-33	33	2.063	2.188	28	10	£17.59	£13.49
ZG16-34	34	2.125	2.250	28	10	£17.62	£13.54
ZG16-35	35	2.188	2.313	28	10	£17.76	£13.61
ZG16-36	36	2.250	2.375	28	10	£17.87	£13.64
ZG16-37	37	2.313	2.438	28	10	£20.47	£15.68
ZG16-38	38	2.375	2.500	28	10	£20.91	£16.04
ZG16-39	39	2.438	2.563	28	10	£21.44	£16.46
ZG16-40	40	2.500	2.625	30	12	£21.71	£16.64
ZG16-41	41	2.563	2.688	30	12	£21.98	£16.81
ZG16-42	42	2.625	2.750	30	12	£22.47	£17.27
ZG16-43	43	2.688	2.813	30	12	£23.07	£17.67
ZG16-44	44	2.750	2.875	30	12	£23.64	£18.13
ZG16-45	45	2.813	2.938	30	12	£24.38	£18.66
ZG16-46	46	2.875	3.000	30	12	£26.66	£20.42
ZG16-47	47	2.938	3.063	30	12	£27.41	£21.09
ZG16-48	48	3.000	3.125	30	12	£28.02	£21.48
ZG16-49	49	3.063	3.188	30	12	£28.79	£22.06
ZG16-50	50	3.125	3.250	30	12	£29.28	£22.44
ZG16-51	51	3.188	3.313	30	12	£29.84	£22.90
ZG16-52	52	3.250	3.375	30	12	£30.39	£23.30
ZG16-53	53	3.313	3.438	30	12	£31.42	£24.13
ZG16-54	54	3.375	3.500	30	12	£36.04	£27.62
ZG16-55	55	3.438	3.563	30	12	£36.82	£28.26
ZG16-56	56	3.500	3.625	30	12	£37.44	£28.69
ZG16-57	57	3.563	3.688	30	12	£37.92	£29.10
ZG16-58	58	3.625	3.750	30	12	£38.52	£29.60
ZG16-59	59	3.688	3.813	30	12	£39.08	£29.93
ZG16-60	60	3.750	3.875	30	12	£39.68	£30.44
ZG16-62	62	3.875	4.000	30	12	£42.02	£31.32
ZG16-63	63	3.938	4.063	30	12	£44.95	£32.26
ZG16-64	64	4.000	4.125	30	12	£46.85	£35.89
ZG16-65	65	4.063	4.188	40	12	£47.36	£36.34
ZG16-66	66	4.125	4.250	40	12	£48.19	£36.97
ZG16-68	68	4.250	4.375	40	12	£49.63	£38.05
ZG16-70	70	4.375	4.500	40	12	£50.10	£38.41
ZG16-72	72	4.500	4.625	40	12	£51.77	£39.69
ZG16-73	73	4.563	4.688	40	12	£53.75	£41.17
ZG16-74	74	4.625	4.750	40	12	£61.60	£47.29
ZG16-76	76	4.750	4.875	40	12	£64.83	£49.71
ZG16-78	78	4.875	5.000	40	15	£65.53	£50.09
ZG16-80	80	5.000	5.125	40	15	£66.95	£50.20
ZG16-84	84	5.250	5.375	40	15	£71.69	£54.04
ZG16-88	88	5.500	5.625	40	15	£75.12	£57.62
ZG16-90	90	5.625	5.750	40	15	£77.89	£60.59
ZG16-96	96	6.000	6.125	40	20	£85.50	£68.57
ZG16-100	100	6.250	6.375	40	20	£94.72	£77.83

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

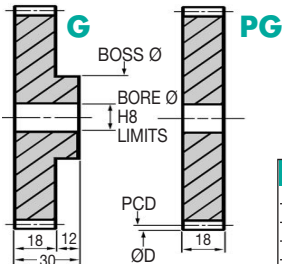
14 DP

20° P.A.

SPECIAL TEETH : between 9 - 240



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
	16.000	75.000	8.000	6.400
	1.720	7.830	0.860	0.670



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						G	PG
G14-9	9	18.14	21.77	21.00	10	£13.74	£11.66
G14-10	10	19.96	23.59	22.75	10	£13.75	£11.67
G14-11	11	21.77	25.40	24.50	10	£13.77	£11.70
G14-12	12	21.77	25.40	24.50	10	£13.78	£11.73
G14-13	13	23.59	27.21	25.00	10	£14.13	£12.04
G14-14	14	25.40	29.03	25.00	10	£14.95	£12.68
G14-15	15	27.21	30.84	25.00	10	£15.55	£13.26
G14-16	16	29.03	32.66	25.00	12	£15.87	£13.46
G14-17	17	30.84	34.47	25.00	12	£16.27	£13.82
G14-18	18	32.66	36.29	25.00	12	£16.98	£14.44
G14-19	19	34.47	38.10	25.00	12	£17.67	£15.02
G14-20	20	36.29	39.91	30.00	12	£18.88	£16.05
G14-21	21	38.10	41.73	30.00	12	£19.33	£16.44
G14-22	22	39.91	43.54	30.00	12	£19.62	£16.68
G14-23	23	41.73	45.36	30.00	12	£20.64	£17.51
G14-24	24	43.54	47.17	30.00	12	£21.58	£18.29
G14-25	25	45.36	48.99	30.00	12	£21.70	£18.43
G14-26	26	47.17	50.80	30.00	12	£21.85	£18.61
G14-27	27	48.99	52.61	30.00	12	£22.21	£18.83
G14-28	28	50.80	54.43	40.00	15	£22.30	£19.07
G14-29	29	52.61	56.24	40.00	15	£22.49	£19.15
G14-30	30	54.43	58.06	40.00	15	£23.15	£19.66
G14-31	31	56.24	59.87	40.00	15	£23.64	£20.09

Spur Gears Steel - Standard DP 14

23.126



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						G	PG
G14-32	32	58.06	61.69	40	15	£23.88	£20.25
G14-33	33	59.87	63.50	40	15	£23.99	£20.42
G14-34	34	61.69	65.31	40	15	£24.40	£20.70
G14-35	35	63.50	67.13	40	15	£24.45	£19.76
G14-36	36	65.31	68.94	50	15	£25.31	£21.48
G14-37	37	67.13	70.76	50	15	£26.44	£22.45
G14-38	38	68.94	72.57	50	15	£27.02	£22.94
G14-39	39	70.76	74.39	50	15	£27.79	£23.60
G14-40	40	72.57	76.20	50	15	£28.42	£24.10
G14-41	41	74.39	78.01	50	15	£28.84	£24.51
G14-42	42	76.20	79.83	50	15	£29.43	£25.07
G14-43	43	78.01	81.64	50	15	£30.57	£25.97
G14-44	44	79.83	83.46	50	15	£31.01	£26.32
G14-45	45	81.64	85.27	60	20	£31.43	£26.69
G14-46	46	83.46	87.09	60	20	£32.04	£27.24
G14-47	47	85.27	88.90	60	20	£32.63	£27.69
G14-48	48	87.09	90.71	60	20	£33.50	£28.48
G14-49	49	88.90	92.53	60	20	£34.75	£29.52
G14-50	50	90.71	94.34	60	20	£35.15	£29.85
G14-51	51	92.53	96.16	60	20	£36.03	£30.57
G14-52	52	94.34	97.97	60	20	£36.93	£31.33
G14-53	53	96.16	99.79	60	20	£37.84	£32.15
G14-54	54	97.97	101.60	80	20	£40.87	£34.63
G14-55	55	99.79	103.41	80	20	£42.07	£35.82
G14-56	56	101.60	105.23	80	20	£43.91	£37.32
G14-57	57	103.41	107.04	80	20	£45.35	£38.50
G14-58	58	105.23	108.86	80	20	£46.69	£39.68
G14-59	59	107.04	110.67	80	20	£48.21	£40.95
G14-60	60	108.86	112.49	80	20	£50.15	£42.58
G14-62	62	112.49	116.11	80	20	£51.37	£43.66
G14-64	64	116.11	119.74	80	20	£52.87	£44.97
G14-65	65	117.93	121.56	80	20	£54.56	£46.36
G14-66	66	119.74	123.37	80	20	£56.21	£47.78
G14-68	68	123.37	127.00	80	20	£57.87	£49.18
G14-70	70	127.00	130.63	100	20	£59.46	£50.49
G14-71	71	128.81	132.44	100	20	£60.31	£51.23
G14-72	72	130.63	134.26	100	20	£61.46	£52.19
G14-73	73	132.44	136.07	100	20	£62.32	£53.01
G14-74	74	134.26	137.89	100	20	£63.27	£53.81
G14-75	75	136.07	139.70	100	20	£64.19	£54.54
G14-76	76	137.89	141.51	100	20	£65.17	£55.40
G14-78	78	141.51	145.14	100	20	£70.23	£59.65
G14-80	80	145.14	148.77	100	20	£74.37	£63.14
G14-86	86	156.03	159.66	100	20	£83.61	£69.04
G14-90	90	163.29	166.91	100	20	£91.52	£69.53
G14-96	96	174.17	177.80	100	20	£101.27	£86.36
G14-98	98	177.80	181.43	100	20	£105.39	£89.57
G14-100	100	181.43	185.06	100	20	£110.00	£93.49
G14-105	105	190.50	194.13	100	20	£115.73	£95.65
G14-110	110	199.57	203.20	100	20	£120.77	£97.09
G14-115	115	208.64	212.27	100	20	£127.84	£108.68
G14-120	120	217.71	221.34	100	20	£134.43	£114.30

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

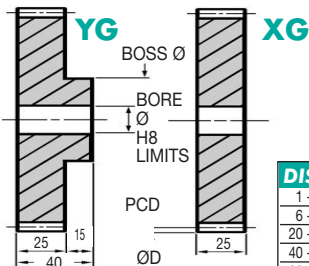
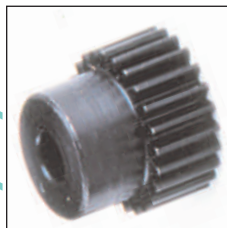
14 DP

20° P.A.

SPECIAL TEETH : between 9 - 240



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations	26.00	114.00	13.00	10.00
TORQUE Nm. at back				
K.W.	2.72	11.95	1.36	1.05



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						YG	XG
YG14-9	9	18.14	21.77	21.00	10	£17.27	£14.67
YG14-10	10	19.96	23.59	22.75	10	£17.28	£14.68
YG14-11	11	21.77	25.40	24.50	10	£17.29	£14.69
YG14-12	12	21.77	25.40	24.50	10	£17.30	£14.72
YG14-13	13	23.59	27.21	25.00	10	£17.69	£15.04
YG14-14	14	25.40	29.03	25.00	10	£18.67	£15.87
YG14-15	15	27.21	30.84	25.00	10	£19.46	£16.57
YG14-16	16	29.03	32.66	25.00	12	£19.89	£16.90
YG14-17	17	30.84	34.47	25.00	12	£20.37	£17.29
YG14-18	18	32.66	36.29	25.00	12	£21.25	£18.09
YG14-19	19	34.47	38.10	25.00	12	£22.12	£18.78
YG14-20	20	36.29	39.91	30.00	12	£23.62	£20.09
YG14-21	21	38.10	41.73	30.00	12	£24.20	£20.57
YG14-22	22	39.91	43.54	30.00	12	£24.57	£20.88
YG14-23	23	41.73	45.36	30.00	12	£25.81	£21.92
YG14-24	24	43.54	47.17	30.00	12	£26.95	£22.89
YG14-25	25	45.36	48.99	30.00	12	£27.18	£23.07
YG14-26	26	47.17	50.80	30.00	12	£27.33	£23.25
YG14-27	27	48.99	52.61	30.00	12	£27.78	£23.55
YG14-28	28	50.80	54.43	40.00	15	£27.89	£23.89
YG14-29	29	52.61	56.24	40.00	15	£28.19	£23.95
YG14-30	30	54.43	58.06	40.00	15	£28.98	£24.59
YG14-31	31	56.24	59.87	40.00	15	£29.61	£25.12

Spur Gears Steel - Heavy Duty DP 14

23.128



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						YG	XG
YG14-32	32	58.06	61.69	40	15	£29.87	£25.34
YG14-33	33	59.87	63.50	40	15	£30.04	£25.58
YG14-34	34	61.69	65.31	40	15	£30.53	£25.95
YG14-35	35	63.50	67.13	40	15	£30.58	£26.04
YG14-36	36	65.31	68.94	50	15	£31.62	£26.89
YG14-37	37	67.13	70.76	50	15	£33.07	£28.13
YG14-38	38	68.94	72.57	50	15	£33.82	£28.69
YG14-39	39	70.76	74.39	50	15	£34.77	£29.53
YG14-40	40	72.57	76.20	50	15	£35.55	£30.13
YG14-41	41	74.39	78.01	50	15	£36.04	£30.72
YG14-42	42	76.20	79.83	50	15	£36.85	£31.35
YG14-43	43	78.01	81.64	50	15	£38.27	£32.53
YG14-44	44	79.83	83.46	50	15	£38.80	£32.91
YG14-45	45	81.64	85.27	60	20	£39.30	£33.41
YG14-46	46	83.46	87.09	60	20	£40.06	£34.04
YG14-47	47	85.27	88.90	60	20	£40.83	£34.63
YG14-48	48	87.09	90.71	60	20	£41.90	£35.63
YG14-49	49	88.90	92.53	60	20	£43.46	£36.91
YG14-50	50	90.71	94.34	60	20	£43.98	£37.35
YG14-51	51	92.53	96.16	60	20	£45.06	£38.27
YG14-52	52	94.34	97.97	60	20	£46.18	£39.21
YG14-53	53	96.16	99.79	60	20	£47.35	£40.23
YG14-54	54	97.97	101.06	80	20	£51.10	£43.35
YG14-55	55	99.79	103.41	80	20	£52.66	£44.73
YG14-56	56	101.60	105.23	80	20	£54.90	£46.65
YG14-57	57	103.41	107.04	80	20	£56.66	£48.17
YG14-58	58	105.23	108.86	80	20	£58.40	£49.63
YG14-59	59	107.04	110.67	80	20	£60.31	£51.23
YG14-60	60	108.86	112.49	80	20	£62.72	£53.21
YG14-62	62	112.49	116.11	80	20	£64.27	£54.58
YG14-64	64	116.11	119.74	80	20	£66.12	£56.21
YG14-65	65	117.93	121.56	80	20	£68.20	£58.00
YG14-66	66	119.74	123.37	80	20	£70.31	£59.76
YG14-68	68	123.37	127.00	80	20	£72.35	£61.50
YG14-70	70	127.00	130.63	100	20	£74.37	£63.12
YG14-71	71	128.81	132.44	100	20	£75.42	£64.05
YG14-72	72	130.63	134.26	100	20	£76.82	£65.25
YG14-73	73	132.44	136.07	100	20	£77.92	£66.25
YG14-74	74	134.26	137.89	100	20	£79.14	£67.28
YG14-75	75	136.07	139.70	100	20	£80.23	£68.17
YG14-76	76	137.89	141.51	100	20	£81.46	£69.25
YG14-78	78	141.51	145.14	100	20	£87.79	£74.61
YG14-80	80	145.14	148.77	100	20	£92.98	£78.99
YG14-86	86	156.03	159.66	100	20	£104.55	£86.36
YG14-90	90	163.29	166.91	100	20	£114.47	£86.92
YG14-96	96	174.17	177.80	100	20	£126.63	£107.96
YG14-98	98	177.80	181.43	100	20	£131.76	£112.01
YG14-100	100	181.43	185.06	100	20	£137.51	£116.90
YG14-105	105	190.50	194.13	100	20	£144.68	£120.77
YG14-110	110	199.57	203.20	100	20	£150.97	£121.41
YG14-115	115	208.64	212.27	100	20	£159.84	£135.85
YG14-120	120	217.71	221.34	100	20	£168.08	£142.91

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

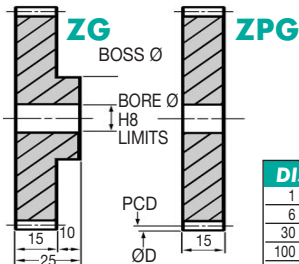
14 DP

20° P.A.

SPECIAL TEETH : between 9 - 240



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 4.50



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	1-530-99	
						ZG	ZPG
ZG14-9	9	18.14	21.77	21.00	10	£6.87	£5.29
ZG14-10	10	19.96	23.59	22.75	10	£6.94	£5.30
ZG14-11	11	21.77	25.40	24.50	10	£6.95	£5.32
ZG14-12	12	21.77	25.40	24.50	10	£6.96	£5.33
ZG14-13	13	23.59	27.21	25.00	10	£7.20	£5.53
ZG14-14	14	25.40	29.03	25.00	10	£7.36	£5.60
ZG14-15	15	27.21	30.84	25.00	10	£7.63	£5.79
ZG14-16	16	29.03	32.66	25.00	12	£7.75	£5.95
ZG14-17	17	30.84	34.47	25.00	12	£8.02	£6.14
ZG14-18	18	32.66	36.29	25.00	12	£8.26	£6.32
ZG14-19	19	34.47	38.10	25.00	12	£9.47	£7.20
ZG14-20	20	36.29	39.91	30.00	12	£9.96	£7.63
ZG14-21	21	38.10	41.73	30.00	12	£10.01	£7.64
ZG14-22	22	39.91	43.54	30.00	12	£10.12	£7.75
ZG14-23	23	41.73	45.36	30.00	12	£10.25	£7.87
ZG14-24	24	43.54	47.17	30.00	12	£10.42	£8.01
ZG14-25	25	45.36	48.99	30.00	12	£10.95	£8.36
ZG14-26	26	47.17	50.80	30.00	12	£11.47	£8.77
ZG14-27	27	48.99	52.61	30.00	12	£13.41	£10.25
ZG14-28	28	50.80	54.43	40.00	15	£13.82	£10.62
ZG14-29	29	52.61	56.24	40.00	15	£14.06	£10.79
ZG14-30	30	54.43	58.06	40.00	15	£14.50	£11.01
ZG14-31	31	56.24	59.87	40.00	15	£14.72	£11.29

Spur Gears Plastic - Fully Machined DP 14

23.130



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG14-32	32	58.06	61.69	40	15	£15.00	£11.47
ZG14-33	33	59.87	63.50	40	15	£15.12	£11.56
ZG14-34	34	61.69	65.31	40	15	£18.37	£14.05
ZG14-35	35	63.50	67.13	40	15	£18.50	£14.25
ZG14-36	36	65.31	68.94	50	15	£19.46	£14.95
ZG14-37	37	67.13	70.76	50	15	£19.94	£15.33
ZG14-38	38	68.94	72.57	50	15	£23.07	£17.67
ZG14-39	39	70.76	74.39	50	15	£23.56	£18.08
ZG14-40	40	72.57	76.20	50	15	£24.07	£18.47
ZG14-41	41	74.39	78.01	50	15	£24.10	£18.48
ZG14-42	42	76.20	79.83	50	15	£24.10	£18.49
ZG14-43	43	78.01	81.64	50	15	£24.13	£18.50
ZG14-44	44	79.83	83.46	50	15	£24.14	£18.52
ZG14-45	45	81.64	85.27	60	20	£24.58	£18.84
ZG14-46	46	83.46	87.09	60	20	£25.06	£19.21
ZG14-47	47	85.27	88.90	60	20	£25.77	£19.71
ZG14-48	48	87.09	90.71	60	20	£26.30	£20.15
ZG14-49	49	88.90	92.53	60	20	£29.07	£22.26
ZG14-50	50	90.71	94.34	60	20	£31.15	£23.87
ZG14-51	51	92.53	96.16	60	20	£32.03	£24.58
ZG14-52	52	94.34	97.97	60	20	£32.70	£25.08
ZG14-53	53	96.16	99.79	60	20	£33.24	£25.43
ZG14-54	54	97.97	101.06	80	20	£33.50	£25.74
ZG14-55	55	99.79	103.41	80	20	£33.75	£25.93
ZG14-56	56	101.60	105.23	80	20	£33.78	£25.95
ZG14-57	57	103.41	107.04	80	20	£34.17	£26.13
ZG14-58	58	105.23	108.86	80	20	£34.27	£26.33
ZG14-59	59	107.04	110.67	80	20	£38.28	£29.35
ZG14-60	60	108.86	112.49	80	20	£38.52	£29.60
ZG14-62	62	112.49	116.11	80	20	£39.22	£30.08
ZG14-64	64	116.11	119.74	80	20	£39.72	£30.46
ZG14-65	65	117.93	121.56	80	20	£44.79	£34.34
ZG14-66	66	119.74	123.37	80	20	£46.46	£35.59
ZG14-68	68	123.37	127.00	80	20	£47.51	£36.43
ZG14-70	70	127.00	130.63	100	20	£49.19	£37.75
ZG14-71	71	128.81	132.44	100	20	£50.59	£38.80
ZG14-72	72	130.63	134.26	100	20	£52.01	£39.92
ZG14-73	73	132.44	136.07	100	20	£53.23	£40.87
ZG14-74	74	134.26	137.89	100	20	£55.11	£42.25
ZG14-75	75	136.07	139.70	100	20	£55.46	£42.54
ZG14-76	76	137.89	141.51	100	20	£56.91	£42.64
ZG14-78	78	141.51	145.14	100	20	£58.40	£44.88
ZG14-80	80	145.14	148.77	100	20	£66.12	£50.75
ZG14-86	86	156.03	159.66	100	20	£71.07	£54.52
ZG14-90	90	163.29	166.91	100	20	£76.12	£58.40
ZG14-96	96	174.17	177.80	100	20	£87.96	£67.46
ZG14-98	98	177.80	181.43	100	20	£101.51	£78.45
ZG14-100	100	181.43	185.06	100	20	£115.25	£92.78
ZG14-105	105	190.50	194.13	100	20	£144.06	£121.60
ZG14-110	110	199.57	203.20	100	20	£167.66	£145.24
ZG14-115	115	208.64	212.27	100	20	£190.72	£168.24
ZG14-120	120	217.71	221.34	100	20	£217.62	£195.20

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

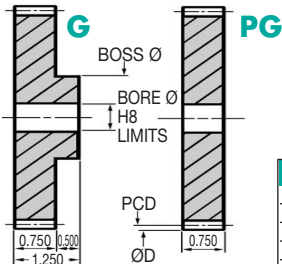
12 DP

20° P.A.

SPECIAL TEETH : between 9 - 210



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
	25.100	119.000	12.500	10.000
	2.611	12.510	1.320	1.044



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G12-9	9	0.833	1.000	1.000	0.375	£17.13	£14.25
G12-10	10	0.917	1.083	1.083	0.375	£17.15	£14.26
G12-11	11	1.000	1.167	1.167	0.375	£17.18	£14.27
G12-12	12	1.000	1.167	0.937	0.500	£17.24	£14.29
G12-13	13	1.083	1.250	0.937	0.500	£18.13	£15.19
G12-14	14	1.167	1.333	0.937	0.500	£19.16	£16.12
G12-15	15	1.250	1.417	0.937	0.500	£20.16	£17.13
G12-16	16	1.333	1.500	0.937	0.500	£21.15	£17.99
G12-17	17	1.417	1.583	0.937	0.500	£21.77	£18.50
G12-18	18	1.500	1.667	1.250	0.625	£22.26	£19.00
G12-19	19	1.583	1.750	1.250	0.625	£22.78	£19.36
G12-20	20	1.667	1.833	1.250	0.625	£23.25	£19.85
G12-21	21	1.750	1.917	1.250	0.625	£24.21	£20.88
G12-22	22	1.833	2.000	1.250	0.625	£25.31	£21.84
G12-23	23	1.917	2.083	1.250	0.625	£26.12	£22.79
G12-24	24	2.000	2.167	1.250	0.625	£27.33	£23.67
G12-25	25	2.083	2.250	1.250	0.625	£27.69	£24.21
G12-26	26	2.167	2.333	1.250	0.625	£28.50	£24.85
G12-27	27	2.250	2.417	1.250	0.625	£29.37	£25.58
G12-28	28	2.333	2.500	1.250	0.625	£30.00	£26.00
G12-29	29	2.417	2.583	1.250	0.625	£30.79	£26.70
G12-30	30	2.500	2.667	1.250	0.625	£31.34	£27.40
G12-31	31	2.583	2.750	1.250	0.625	£32.33	£28.39

Spur Gears Steel - Standard DP 12

23.132



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G12-32	32	2.667	2.833	1.250	0.625	£33.47	£29.30
G12-33	33	2.750	2.917	1.250	0.625	£36.62	£31.16
G12-34	34	2.833	3.000	1.250	0.625	£38.12	£32.02
G12-35	35	2.917	3.083	1.250	0.625	£38.99	£32.61
G12-36	36	3.000	3.167	1.500	0.625	£39.79	£33.09
G12-37	37	3.083	3.250	1.500	0.625	£40.84	£33.99
G12-38	38	3.167	3.333	1.500	0.625	£41.63	£34.77
G12-39	39	3.250	3.417	1.500	0.625	£42.97	£35.89
G12-40	40	3.333	3.500	1.500	0.625	£46.17	£38.72
G12-41	41	3.417	3.583	1.500	0.625	£46.54	£39.04
G12-42	42	3.500	3.667	1.500	0.625	£47.02	£39.27
G12-43	43	3.583	3.750	1.500	0.625	£47.47	£39.68
G12-44	44	3.667	3.833	1.500	0.625	£47.78	£40.15
G12-45	45	3.750	3.917	1.500	0.625	£48.21	£40.56
G12-46	46	3.833	4.000	1.500	0.625	£48.53	£40.75
G12-47	47	3.917	4.083	1.500	0.625	£48.97	£41.15
G12-48	48	4.000	4.167	1.500	0.625	£49.27	£41.57
G12-49	49	4.083	4.250	1.500	0.625	£50.64	£42.58
G12-50	50	4.167	4.333	1.500	0.625	£51.69	£43.36
G12-51	51	4.250	4.417	1.500	0.625	£52.79	£44.38
G12-52	52	4.333	4.500	1.500	0.625	£54.20	£45.96
G12-53	53	4.417	4.583	1.500	0.625	£55.45	£46.88
G12-54	54	4.500	4.667	1.500	0.625	£56.20	£47.66
G12-55	55	4.583	4.750	1.500	0.625	£57.41	£49.24
G12-56	56	4.667	4.833	1.500	0.625	£58.65	£49.97
G12-57	57	4.750	4.917	1.750	0.750	£59.67	£51.04
G12-58	58	4.833	5.000	1.750	0.750	£61.12	£52.08
G12-59	59	4.917	5.083	1.750	0.750	£62.97	£53.01
G12-60	60	5.000	5.167	1.750	0.750	£65.09	£54.07
G12-62	62	5.167	5.333	1.750	0.750	£68.19	£55.50
G12-64	64	5.333	5.500	1.750	0.750	£70.43	£57.13
G12-65	65	5.417	5.583	1.750	0.750	£72.94	£58.57
G12-66	66	5.500	5.667	1.750	0.750	£75.44	£60.17
G12-68	68	5.667	5.833	1.750	0.750	£76.37	£61.12
G12-70	70	5.833	6.000	1.750	0.750	£78.45	£61.84
G12-71	71	5.917	6.083	1.750	0.750	£79.36	£62.46
G12-72	72	6.000	6.167	1.750	0.750	£81.25	£63.21
G12-73	73	6.083	6.250	2.000	0.750	£86.18	£68.95
G12-74	74	6.167	6.333	2.000	0.750	£90.40	£72.25
G12-75	75	6.250	6.417	2.000	0.750	£94.82	£75.85
G12-76	76	6.333	6.500	2.000	0.750	£98.65	£78.90
G12-78	78	6.500	6.667	2.000	0.750	£107.71	£86.15
G12-80	80	6.667	6.833	2.000	0.750	£115.33	£92.23
G12-86	86	7.167	7.333	2.000	0.750	£124.18	£99.30
G12-90	90	7.500	7.667	2.000	0.750	£132.34	£105.88
G12-96	96	8.000	8.167	2.000	0.750	£139.54	£111.64
G12-98	98	8.167	8.333	2.000	0.750	£147.41	£117.94
G12-100	100	8.333	8.500	2.000	0.750	£160.56	£128.45
G12-105	105	8.750	8.917	2.000	0.750	£175.13	£140.06
G12-110	110	9.167	9.333	2.000	0.750	£188.31	£150.64
G12-115	115	9.583	9.750	2.000	0.750	£202.95	£162.33
G12-120	120	10.000	10.167	2.000	0.750	£218.84	£175.07

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

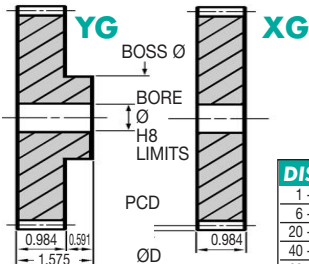
12 DP

20° P.A.

SPECIAL TEETH : between 9 - 210



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations of back	70.000	195.000	70.000	103.000
TORQUE Nm.				
K.W.	7.430	20.142	7.430	10.854



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG12-9	9	0.833	1.000	1.000	0.375	£21.37	£15.97
YG12-10	10	0.917	1.083	1.083	0.375	£21.38	£15.98
YG12-11	11	1.000	1.167	1.167	0.375	£21.39	£16.04
YG12-12	12	1.000	1.167	1.167	0.500	£21.41	£16.05
YG12-13	13	1.083	1.250	1.250	0.500	£22.66	£16.94
YG12-14	14	1.167	1.333	1.333	0.500	£23.91	£17.89
YG12-15	15	1.250	1.417	1.378	0.500	£25.18	£18.83
YG12-16	16	1.333	1.500	1.378	0.500	£26.37	£19.73
YG12-17	17	1.417	1.583	1.378	0.500	£27.18	£20.36
YG12-18	18	1.500	1.667	1.378	0.625	£27.69	£20.73
YG12-19	19	1.583	1.750	1.378	0.625	£28.42	£21.32
YG12-20	20	1.667	1.833	1.378	0.625	£28.99	£21.70
YG12-21	21	1.750	1.917	1.378	0.625	£30.18	£22.66
YG12-22	22	1.833	2.000	1.378	0.625	£31.54	£23.64
YG12-23	23	1.917	2.083	1.378	0.625	£32.60	£24.40
YG12-24	24	2.000	2.167	1.378	0.625	£34.06	£25.58
YG12-25	25	2.083	2.250	1.378	0.625	£34.56	£25.93
YG12-26	26	2.167	2.333	1.969	0.625	£35.55	£26.61
YG12-27	27	2.250	2.417	1.969	0.625	£36.67	£27.43
YG12-28	28	2.333	2.500	1.969	0.625	£37.35	£28.01
YG12-29	29	2.417	2.583	1.969	0.625	£38.40	£28.79
YG12-30	30	2.500	2.667	1.969	0.625	£39.19	£29.33
YG12-31	31	2.583	2.750	1.969	0.625	£40.34	£30.22

Spur Gears Steel - Heavy Duty DP 12

23.134



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG12-32	32	2.667	2.833	1.969	0.625	£41.71	£31.26
YG12-33	33	2.750	2.917	1.969	0.625	£45.68	£34.23
YG12-34	34	2.833	3.000	1.969	0.625	£47.51	£35.59
YG12-35	35	2.917	3.083	1.969	0.625	£48.53	£36.37
YG12-36	36	3.000	3.167	1.969	0.625	£49.67	£37.21
YG12-37	37	3.083	3.250	1.969	0.625	£50.89	£38.14
YG12-38	38	3.167	3.333	1.969	0.625	£51.93	£34.68
YG12-39	39	3.250	3.417	1.969	0.625	£53.53	£40.15
YG12-40	40	3.333	3.500	2.362	0.625	£57.54	£43.14
YG12-41	41	3.417	3.583	2.362	0.625	£58.01	£43.49
YG12-42	42	3.500	3.667	2.362	0.625	£58.62	£43.96
YG12-43	43	3.583	3.750	2.362	0.625	£59.15	£44.35
YG12-44	44	3.667	3.833	2.362	0.625	£59.60	£44.65
YG12-45	45	3.750	3.917	2.362	0.625	£60.09	£45.04
YG12-46	46	3.833	4.000	2.362	0.625	£60.50	£45.37
YG12-47	47	3.917	4.083	2.362	0.625	£61.00	£45.77
YG12-48	48	4.000	4.167	2.362	0.625	£61.49	£46.12
YG12-49	49	4.083	4.250	2.362	0.625	£63.11	£47.33
YG12-50	50	4.167	4.333	2.362	0.625	£64.51	£48.34
YG12-51	51	4.250	4.417	2.362	0.625	£65.76	£49.35
YG12-52	52	4.333	4.500	2.362	0.625	£67.56	£50.65
YG12-53	53	4.417	4.583	2.362	0.625	£69.03	£51.77
YG12-54	54	4.500	4.667	2.362	0.625	£70.08	£52.51
YG12-55	55	4.583	4.750	2.362	0.625	£71.56	£53.65
YG12-56	56	4.667	4.833	2.362	0.625	£73.19	£54.89
YG12-57	57	4.750	4.917	2.953	0.750	£74.41	£55.81
YG12-58	58	4.833	5.000	2.953	0.750	£76.17	£57.12
YG12-59	59	4.917	5.083	2.953	0.750	£78.49	£58.87
YG12-60	60	5.000	5.167	2.953	0.750	£81.20	£60.82
YG12-62	62	5.167	5.333	2.953	0.750	£85.05	£63.75
YG12-64	64	5.333	5.500	2.953	0.750	£87.81	£65.85
YG12-65	65	5.417	5.583	2.953	0.750	£90.86	£68.15
YG12-66	66	5.500	5.667	2.953	0.750	£94.02	£70.54
YG12-68	68	5.667	5.833	2.953	0.750	£95.24	£71.43
YG12-70	70	5.833	6.000	2.953	0.750	£97.77	£73.34
YG12-71	71	5.917	6.083	2.953	0.750	£98.88	£74.13
YG12-72	72	6.000	6.167	2.953	0.750	£101.25	£75.89
YG12-73	73	6.083	6.250	3.937	0.750	£107.40	£80.54
YG12-74	74	6.167	6.333	3.937	0.750	£112.60	£84.42
YG12-75	75	6.250	6.417	3.937	0.750	£118.19	£88.63
YG12-76	76	6.333	6.500	3.937	0.750	£122.97	£92.19
YG12-78	78	6.500	6.667	3.937	0.750	£134.21	£100.67
YG12-80	80	6.667	6.833	3.937	0.750	£143.78	£107.78
YG12-86	86	7.167	7.333	3.937	0.750	£154.72	£116.08
YG12-90	90	7.500	7.667	3.937	0.750	£164.97	£123.71
YG12-96	96	8.000	8.167	3.937	0.750	£173.89	£130.40
YG12-98	98	8.167	8.333	3.937	0.750	£183.73	£137.79
YG12-100	100	8.333	8.500	3.937	0.750	£200.09	£150.06
YG12-105	105	8.750	8.917	3.937	0.750	£218.29	£163.67
YG12-110	110	9.167	9.333	3.937	0.750	£234.67	£175.99
YG12-115	115	9.583	9.750	3.937	0.750	£252.85	£189.63
YG12-120	120	10.000	10.167	3.937	0.750	£272.67	£204.50

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

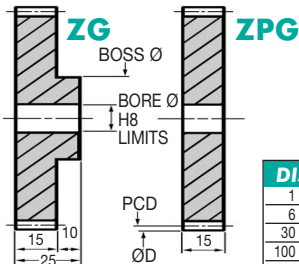
12 DP

20° P.A.

SPECIAL TEETH : between 9 - 210



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 6.00



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG12-9	9	0.833	1.000	24	10	£8.02	£6.14
ZG12-10	10	0.917	1.083	24	10	£8.06	£6.14
ZG12-11	11	1.000	1.167	24	10	£8.07	£6.16
ZG12-12	12	1.000	1.167	24	10	£8.08	£6.21
ZG12-13	13	1.083	1.250	24	10	£9.32	£7.14
ZG12-14	14	1.167	1.333	24	10	£9.94	£7.63
ZG12-15	15	1.250	1.417	30	12	£10.42	£8.01
ZG12-16	16	1.333	1.500	30	12	£12.43	£9.51
ZG12-17	17	1.417	1.583	30	12	£13.03	£10.01
ZG12-18	18	1.500	1.667	30	12	£13.39	£10.25
ZG12-19	19	1.583	1.750	30	12	£13.64	£10.47
ZG12-20	20	1.667	1.833	30	12	£14.25	£10.82
ZG12-21	21	1.750	1.917	30	12	£17.87	£13.68
ZG12-22	22	1.833	2.000	30	12	£18.47	£14.13
ZG12-23	23	1.917	2.083	30	12	£19.33	£14.78
ZG12-24	24	2.000	2.167	30	12	£19.60	£15.00
ZG12-25	25	2.083	2.250	30	12	£20.11	£15.42
ZG12-26	26	2.167	2.333	30	12	£23.54	£18.04
ZG12-27	27	2.250	2.417	30	12	£24.02	£18.40
ZG12-28	28	2.333	2.500	30	12	£25.13	£19.25
ZG12-29	29	2.417	2.583	30	12	£25.95	£19.85
ZG12-30	30	2.500	2.667	30	12	£26.80	£20.55
ZG12-31	31	2.583	2.750	30	12	£29.32	£22.47

Spur Gears Plastic - Fully Machined DP 12

23.136



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG12-32	32	2.667	2.833	30	12	£32.32	£24.74
ZG12-33	33	2.750	2.917	30	12	£33.07	£25.33
ZG12-34	34	2.833	3.000	30	12	£33.78	£25.86
ZG12-35	35	2.917	3.083	30	12	£34.61	£26.55
ZG12-36	36	3.000	3.167	35	15	£36.45	£27.96
ZG12-37	37	3.083	3.250	35	15	£39.20	£30.04
ZG12-38	38	3.167	3.333	35	15	£43.97	£33.64
ZG12-39	39	3.250	3.417	35	15	£44.33	£33.97
ZG12-40	40	3.333	3.500	35	15	£44.73	£34.33
ZG12-41	41	3.417	3.583	35	15	£49.60	£38.03
ZG12-42	42	3.500	3.667	35	15	£50.00	£38.36
ZG12-43	43	3.583	3.750	35	15	£50.34	£38.61
ZG12-44	44	3.667	3.833	35	15	£50.82	£38.99
ZG12-45	45	3.750	3.917	35	15	£51.20	£39.22
ZG12-46	46	3.833	4.000	35	15	£52.51	£40.28
ZG12-47	47	3.917	4.083	35	15	£52.64	£40.42
ZG12-48	48	4.000	4.167	35	15	£54.78	£42.02
ZG12-49	49	4.083	4.250	35	15	£56.26	£43.13
ZG12-50	50	4.167	4.333	35	15	£57.49	£44.05
ZG12-51	51	4.250	4.417	35	15	£58.29	£44.73
ZG12-52	52	4.333	4.500	35	15	£59.52	£45.71
ZG12-53	53	4.417	4.583	35	15	£60.91	£46.69
ZG12-54	54	4.500	4.667	35	15	£61.94	£47.53
ZG12-55	55	4.583	4.750	35	15	£63.41	£48.63
ZG12-56	56	4.667	4.833	35	15	£65.31	£50.10
ZG12-57	57	4.750	4.917	35	15	£67.39	£51.81
ZG12-58	58	4.833	5.000	35	15	£77.21	£59.16
ZG12-59	59	4.917	5.083	35	15	£82.58	£63.37
ZG12-60	60	5.000	5.167	35	15	£85.45	£65.53
ZG12-62	62	5.167	5.333	35	15	£86.50	£66.32
ZG12-64	64	5.333	5.500	35	15	£88.84	£68.15
ZG12-65	65	5.417	5.583	40	15	£89.77	£68.83
ZG12-66	66	5.500	5.667	40	15	£91.91	£70.52
ZG12-68	68	5.667	5.833	40	15	£101.16	£80.76
ZG12-70	70	5.833	6.000	40	15	£110.76	£84.98
ZG12-71	71	5.917	6.083	40	15	£116.24	£89.26
ZG12-72	72	6.000	6.167	40	15	£120.91	£92.79
ZG12-73	73	6.083	6.250	40	15	£132.00	£101.01
ZG12-74	74	6.167	6.333	40	15	£141.41	£108.50
ZG12-75	75	6.250	6.417	50	20	£162.99	£116.58
ZG12-76	76	6.333	6.500	50	20	£187.29	£133.58
ZG12-78	78	6.500	6.667	50	20	£197.40	£151.52
ZG12-80	80	6.667	6.833	50	20	£208.44	£160.07
ZG12-86	86	7.167	7.333	50	20	£227.14	£174.32
ZG12-90	90	7.500	7.667	50	20	£247.76	£190.16
ZG12-96	96	8.000	8.167	50	20	£266.43	£204.41

Spur Gears Plastic - Fully Machined DP 12

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



23.137

Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

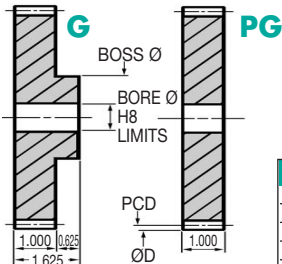
10 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	48.000	228.000	24.000	19.000
K.W.	4.998	23.872	2.536	2.022



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G10-9	9	1.000	1.200	1.200	0.500	£23.54	£15.57
G10-10	10	1.100	1.300	1.300	0.500	£23.55	£15.60
G10-11	11	1.200	1.400	1.400	0.500	£23.56	£15.61
G10-12	12	1.200	1.400	1.200	0.625	£23.60	£15.65
G10-13	13	1.300	1.500	1.200	0.625	£24.10	£16.22
G10-14	14	1.400	1.600	1.200	0.625	£25.18	£17.31
G10-15	15	1.500	1.700	1.200	0.625	£26.80	£19.04
G10-16	16	1.600	1.800	1.200	0.625	£28.39	£20.87
G10-17	17	1.700	1.900	1.200	0.625	£29.07	£20.92
G10-18	18	1.800	2.000	1.200	0.625	£30.00	£22.57
G10-19	19	1.900	2.100	1.200	0.625	£30.79	£23.42
G10-20	20	2.000	2.200	1.750	0.750	£31.91	£24.45
G10-21	21	2.100	2.300	1.750	0.750	£33.10	£25.40
G10-22	22	2.200	2.400	1.750	0.750	£33.85	£26.32
G10-23	23	2.300	2.500	1.750	0.750	£34.93	£27.21
G10-24	24	2.400	2.600	1.750	0.750	£35.71	£28.13
G10-25	25	2.500	2.700	1.750	0.750	£36.73	£29.01
G10-26	26	2.600	2.800	1.750	0.750	£37.67	£30.00
G10-27	27	2.700	2.900	1.750	0.750	£38.65	£30.79
G10-28	28	2.800	3.000	1.750	0.750	£39.58	£31.85
G10-29	29	2.900	3.100	1.750	0.750	£40.68	£32.78
G10-30	30	3.000	3.200	1.750	0.750	£41.47	£33.72
G10-31	31	3.100	3.300	1.750	0.750	£42.76	£35.55

Spur Gears Steel - Standard DP 10

23.138



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G10-32	32	3.200	3.400	1.750	0.750	£44.27	£37.21
G10-33	33	3.300	3.500	1.750	0.750	£45.08	£38.40
G10-34	34	3.400	3.600	1.750	0.750	£45.93	£39.58
G10-35	35	3.500	3.700	1.750	0.750	£46.96	£40.68
G10-36	36	3.600	3.800	1.750	0.750	£49.72	£44.16
G10-37	37	3.700	3.900	1.750	0.750	£50.89	£45.21
G10-38	38	3.800	4.000	1.750	0.750	£51.57	£46.12
G10-39	39	3.900	4.100	1.750	0.750	£51.93	£47.01
G10-40	40	4.000	4.200	1.970	0.750	£52.47	£47.66
G10-41	41	4.100	4.300	1.970	0.750	£54.61	£49.24
G10-42	42	4.200	4.400	1.970	0.750	£56.82	£51.04
G10-43	43	4.300	4.500	1.970	0.750	£58.18	£51.93
G10-44	44	4.400	4.600	1.970	0.750	£59.35	£52.82
G10-45	45	4.500	4.700	1.970	0.750	£61.20	£54.36
G10-46	46	4.600	4.800	1.970	0.750	£62.64	£55.26
G10-47	47	4.700	4.900	1.970	0.750	£64.17	£56.12
G10-48	48	4.800	5.000	1.970	0.750	£65.57	£57.66
G10-49	49	4.900	5.100	1.970	0.750	£67.38	£59.35
G10-50	50	5.000	5.200	1.970	0.750	£69.19	£60.98
G10-51	51	5.100	5.300	1.970	0.750	£69.75	£61.80
G10-52	52	5.200	5.400	1.970	0.750	£70.57	£62.64
G10-53	53	5.300	5.500	1.970	0.750	£71.36	£63.49
G10-54	54	5.400	5.600	1.970	0.750	£72.18	£64.34
G10-55	55	5.500	5.700	1.970	0.750	£79.19	£67.66
G10-56	56	5.600	5.800	1.970	0.750	£80.67	£68.15
G10-57	57	5.700	5.900	1.970	0.750	£81.94	£68.84
G10-58	58	5.800	6.000	1.970	0.750	£83.61	£69.42
G10-59	59	5.900	6.100	1.970	0.750	£84.41	£70.23
G10-60	60	6.000	6.200	1.970	0.750	£85.85	£70.88
G10-62	62	6.200	6.400	1.970	0.750	£96.38	£75.89
G10-64	64	6.400	6.600	1.970	0.750	£110.35	£81.33
G10-65	65	6.500	6.700	1.970	0.750	£117.63	£84.80
G10-66	66	6.600	6.800	1.970	0.750	£131.33	£90.18
G10-68	68	6.800	7.000	1.970	0.750	£135.14	£94.14
G10-70	70	7.000	7.200	1.970	0.750	£142.22	£98.71
G10-71	71	7.100	7.300	1.970	0.750	£147.85	£100.62
G10-72	72	7.200	7.400	1.970	0.750	£155.21	£103.23
G10-73	73	7.300	7.500	1.970	0.750	£167.15	£105.11
G10-74	74	7.400	7.600	1.970	0.750	£173.76	£109.60
G10-75	75	7.500	7.700	1.970	0.750	£180.41	£112.60
G10-76	76	7.600	7.800	2.362	1.000	£187.05	£126.03
G10-78	78	7.800	8.000	2.362	1.000	£190.43	£132.29
G10-80	80	8.000	8.200	2.362	1.000	£193.82	£138.65
G10-86	86	8.600	8.800	2.362	1.000	£197.53	£158.00
G10-90	90	9.000	9.200	2.362	1.000	£216.05	£172.85
G10-96	96	9.600	9.800	2.362	1.000	£243.90	£195.08
G10-98	98	9.800	10.000	2.362	1.000	£245.96	£196.78
G10-100	100	10.000	10.200	2.362	1.000	£263.33	£210.62
G10-105	105	10.500	10.700	2.362	1.000	£288.92	£231.14
G10-110	110	11.000	11.200	2.362	1.000	£315.57	£252.40

Up to Ø750 mm

Please consult Technical for larger sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



23.139

Spur Gears Steel - Standard DP 10

Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

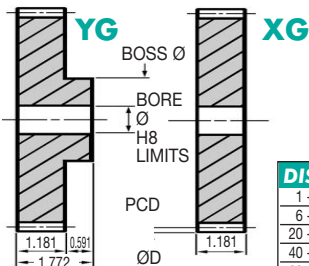
10 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations of back	TORQUE Nm.			
	122.000	337.000	122.000	178.000
	K.W.			
	12.682	35.062	12.682	18.650



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this prch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG10-9	9	1.000	1.200	1.200	0.500	£31.43	£23.54
YG10-10	10	1.100	1.300	1.300	0.500	£31.47	£23.55
YG10-11	11	1.200	1.400	1.400	0.500	£31.49	£23.56
YG10-12	12	1.200	1.400	1.400	0.625	£31.50	£23.60
YG10-13	13	1.300	1.500	1.378	0.625	£32.14	£24.10
YG10-14	14	1.400	1.600	1.378	0.625	£33.61	£25.18
YG10-15	15	1.500	1.700	1.378	0.625	£35.82	£26.80
YG10-16	16	1.600	1.800	1.378	0.625	£37.84	£28.39
YG10-17	17	1.700	1.900	1.378	0.625	£38.80	£29.07
YG10-18	18	1.800	2.000	1.378	0.625	£40.02	£30.00
YG10-19	19	1.900	2.100	1.378	0.625	£41.13	£30.79
YG10-20	20	2.000	2.200	1.772	0.750	£42.56	£31.91
YG10-21	21	2.100	2.300	1.772	0.750	£44.26	£33.10
YG10-22	22	2.200	2.400	1.772	0.750	£45.11	£33.85
YG10-23	23	2.300	2.500	1.772	0.750	£46.57	£34.93
YG10-24	24	2.400	2.600	1.772	0.750	£47.64	£35.71
YG10-25	25	2.500	2.700	1.772	0.750	£48.98	£36.73
YG10-26	26	2.600	2.800	1.772	0.750	£50.20	£37.67
YG10-27	27	2.700	2.900	1.772	0.750	£51.62	£38.65
YG10-28	28	2.800	3.000	2.362	0.750	£52.79	£39.58
YG10-29	29	2.900	3.100	2.362	0.750	£54.27	£40.68
YG10-30	30	3.000	3.200	2.362	0.750	£55.32	£41.47
YG10-31	31	3.100	3.300	2.362	0.750	£57.07	£42.76

Spur Gears Steel - Heavy Duty DP 10

23.140



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG10-32	32	3.200	3.400	2.362	0.750	£59.01	£44.27
YG10-33	33	3.300	3.500	2.362	0.750	£60.11	£45.08
YG10-34	34	3.400	3.600	2.362	0.750	£61.29	£45.93
YG10-35	35	3.500	3.700	2.362	0.750	£62.65	£46.96
YG10-36	36	3.600	3.800	2.362	0.750	£66.32	£49.72
YG10-37	37	3.700	3.900	2.362	0.750	£67.85	£50.89
YG10-38	38	3.800	4.000	2.362	0.750	£68.77	£51.57
YG10-39	39	3.900	4.100	2.362	0.750	£69.24	£51.93
YG10-40	40	4.000	4.200	2.953	0.750	£69.97	£52.47
YG10-41	41	4.100	4.300	2.953	0.750	£72.88	£54.61
YG10-42	42	4.200	4.400	2.953	0.750	£75.78	£56.82
YG10-43	43	4.300	4.500	2.953	0.750	£77.59	£58.18
YG10-44	44	4.400	4.600	2.953	0.750	£79.16	£59.35
YG10-45	45	4.500	4.700	2.953	0.750	£81.65	£61.20
YG10-46	46	4.600	4.800	2.953	0.750	£83.53	£62.64
YG10-47	47	4.700	4.900	2.953	0.750	£85.53	£64.17
YG10-48	48	4.800	5.000	2.953	0.750	£87.48	£65.57
YG10-49	49	4.900	5.100	2.953	0.750	£89.80	£67.37
YG10-50	50	5.000	5.200	2.953	0.750	£92.20	£69.19
YG10-51	51	5.100	5.300	2.953	0.750	£93.06	£69.75
YG10-52	52	5.200	5.400	2.953	0.750	£94.09	£70.57
YG10-53	53	5.300	5.500	2.953	0.750	£95.21	£71.36
YG10-54	54	5.400	5.600	2.953	0.750	£96.27	£72.18
YG10-55	55	5.500	5.700	2.953	0.750	£105.63	£79.19
YG10-56	56	5.600	5.800	2.953	0.750	£107.57	£80.67
YG10-57	57	5.700	5.900	2.953	0.750	£109.19	£81.94
YG10-58	58	5.800	6.000	2.953	0.750	£111.53	£83.61
YG10-59	59	5.900	6.100	2.953	0.750	£112.57	£84.41
YG10-60	60	6.000	6.200	3.937	0.750	£114.52	£85.85
YG10-62	62	6.200	6.400	3.937	0.750	£128.59	£96.38
YG10-64	64	6.400	6.600	3.937	0.750	£147.17	£110.35
YG10-65	65	6.500	6.700	3.937	0.750	£156.90	£117.63
YG10-66	66	6.600	6.800	3.937	0.750	£168.54	£131.33
YG10-68	68	6.800	7.000	3.937	0.750	£180.22	£135.14
YG10-70	70	7.000	7.200	3.937	0.750	£189.68	£142.22
YG10-71	71	7.100	7.300	3.937	0.750	£197.16	£147.85
YG10-72	72	7.200	7.400	3.937	0.750	£206.95	£155.21
YG10-73	73	7.300	7.500	3.937	0.750	£222.90	£167.15
YG10-74	74	7.400	7.600	3.937	0.750	£231.72	£173.76
YG10-75	75	7.500	7.700	3.937	0.750	£240.54	£180.41
YG10-76	76	7.600	7.800	5.000	1.000	£249.40	£187.05
YG10-78	78	7.800	8.000	5.000	1.000	£253.91	£190.43
YG10-80	80	8.000	8.200	5.000	1.000	£258.46	£193.82
YG10-86	86	8.600	8.800	5.000	1.000	£263.40	£197.53
YG10-90	90	9.000	9.200	5.000	1.000	£288.07	£216.05
YG10-96	96	9.600	9.800	5.000	1.000	£325.24	£243.90
YG10-98	98	9.800	10.000	5.000	1.000	£327.99	£245.96
YG10-100	100	10.000	10.200	5.000	1.000	£351.13	£263.33
YG10-105	105	10.500	10.700	5.000	1.000	£385.26	£288.92
YG10-110	110	11.000	11.200	5.000	1.000	£420.77	£315.57

Up to Ø750 mm

Spur Gears Steel - Heavy Duty DP 10

Please consult Technical for larger sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



23.141

Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

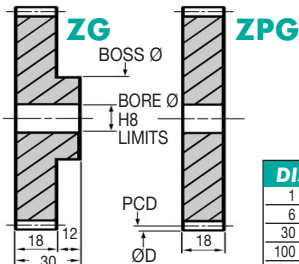
10 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	11.00



DISCOUNTS	
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG10-9	9	1.000	1.200	30	10	£13.03	£9.96
ZG10-10	10	1.100	1.300	30	10	£13.04	£9.97
ZG10-11	11	1.200	1.400	30	10	£13.05	£9.99
ZG10-12	12	1.200	1.400	30	12	£13.09	£10.01
ZG10-13	13	1.300	1.500	30	12	£13.32	£10.19
ZG10-14	14	1.400	1.600	30	12	£15.86	£12.09
ZG10-15	15	1.500	1.700	30	12	£16.92	£12.94
ZG10-16	16	1.600	1.800	30	12	£17.87	£13.68
ZG10-17	17	1.700	1.900	30	12	£18.34	£13.99
ZG10-18	18	1.800	2.000	30	12	£22.68	£17.37
ZG10-19	19	1.900	2.100	30	12	£23.30	£17.87
ZG10-20	20	2.000	2.200	30	12	£24.13	£18.49
ZG10-21	21	2.100	2.300	30	12	£25.03	£19.21
ZG10-22	22	2.200	2.400	30	12	£28.98	£22.26
ZG10-23	23	2.300	2.500	30	12	£29.93	£22.99
ZG10-24	24	2.400	2.600	30	12	£30.61	£23.50
ZG10-25	25	2.500	2.700	30	12	£31.52	£24.16
ZG10-26	26	2.600	2.800	30	12	£32.27	£24.73
ZG10-27	27	2.700	2.900	30	12	£33.17	£25.42
ZG10-28	28	2.800	3.000	35	15	£35.89	£27.57
ZG10-29	29	2.900	3.100	35	15	£36.97	£28.29
ZG10-30	30	3.000	3.200	35	15	£37.68	£28.89
ZG10-31	31	3.100	3.300	35	15	£38.85	£29.79

Spur Gears Plastic - Fully Machined DP 10

23.142



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG10-32	32	3.200	3.400	35	15	£40.17	£30.78
ZG10-33	33	3.300	3.500	35	15	£40.93	£31.35
ZG10-34	34	3.400	3.600	35	15	£46.34	£35.59
ZG10-35	35	3.500	3.700	35	15	£47.36	£36.34
ZG10-36	36	3.600	3.800	45	17	£50.20	£38.47
ZG10-37	37	3.700	3.900	45	17	£51.37	£39.35
ZG10-38	38	3.800	4.000	45	17	£57.24	£43.91
ZG10-39	39	3.900	4.100	45	17	£57.62	£44.16
ZG10-40	40	4.000	4.200	45	17	£58.23	£44.68
ZG10-41	41	4.100	4.300	45	17	£60.59	£46.50
ZG10-42	42	4.200	4.400	45	17	£63.04	£48.90
ZG10-43	43	4.300	4.500	45	17	£64.56	£49.51
ZG10-44	44	4.400	4.600	45	17	£65.89	£50.59
ZG10-45	45	4.500	4.700	45	17	£67.96	£52.12
ZG10-46	46	4.600	4.800	45	17	£75.87	£58.20
ZG10-47	47	4.700	4.900	45	17	£77.72	£59.63
ZG10-48	48	4.800	5.000	45	17	£79.43	£60.91
ZG10-49	49	4.900	5.100	45	17	£81.58	£62.61
ZG10-50	50	5.000	5.200	45	17	£83.79	£64.26
ZG10-51	51	5.100	5.300	45	17	£84.49	£64.83
ZG10-52	52	5.200	5.400	45	17	£85.45	£65.55
ZG10-53	53	5.300	5.500	45	17	£86.42	£66.25
ZG10-54	54	5.400	5.600	45	17	£87.41	£67.02
ZG10-55	55	5.500	5.700	45	17	£95.92	£73.53
ZG10-56	56	5.600	5.800	45	17	£97.68	£74.98
ZG10-57	57	5.700	5.900	60	20	£99.17	£76.08
ZG10-58	58	5.800	6.000	60	20	£109.68	£84.16
ZG10-59	59	5.900	6.100	60	20	£110.76	£84.98
ZG10-60	60	6.000	6.200	60	20	£112.64	£86.45
ZG10-62	62	6.200	6.400	60	20	£145.87	£112.01
ZG10-64	64	6.400	6.600	60	20	£167.06	£128.15
ZG10-65	65	6.500	6.700	60	20	£178.10	£136.63
ZG10-66	66	6.600	6.800	60	20	£198.85	£152.57
ZG10-68	68	6.800	7.000	60	20	£204.61	£156.99
ZG10-70	70	7.000	7.200	60	20	£215.31	£165.24
ZG10-71	71	7.100	7.300	60	20	£223.83	£171.74
ZG10-72	72	7.200	7.400	60	20	£234.95	£180.30
ZG10-73	73	7.300	7.500	60	20	£253.04	£194.21
ZG10-74	74	7.400	7.600	60	20	£263.05	£197.31
ZG10-75	75	7.500	7.700	60	20	£273.08	£209.53
ZG10-76	76	7.600	7.800	60	20	£283.12	£217.29
ZG10-78	78	7.800	8.000	60	20	£317.14	£243.32
ZG10-80	80	8.000	8.200	60	20	£322.79	£247.66

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

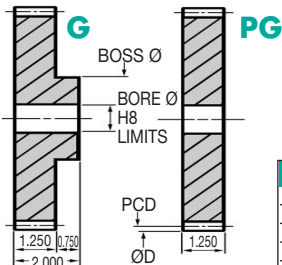
8 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm variations of back K.W.	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
	94.000	446.000	47.000	37.000
	9.698	46.252	4.924	3.954



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G8-9	9	1.250	1.500	1.500	0.625	£29.05	£25.18
G8-10	10	1.375	1.625	1.625	0.625	£29.07	£25.18
G8-11	11	1.500	1.750	1.750	0.625	£29.08	£25.21
G8-12	12	1.500	1.750	1.375	0.750	£29.10	£25.22
G8-13	13	1.625	1.875	1.375	0.750	£30.34	£26.55
G8-14	14	1.750	2.000	1.375	0.750	£31.42	£27.64
G8-15	15	1.875	2.125	1.375	0.750	£32.35	£30.05
G8-16	16	2.000	2.250	1.375	0.750	£34.39	£32.55
G8-17	17	2.125	2.375	1.375	0.750	£36.23	£33.50
G8-18	18	2.250	2.500	1.970	0.750	£38.28	£34.98
G8-19	19	2.375	2.625	1.970	0.750	£39.69	£36.23
G8-20	20	2.500	2.750	1.970	0.750	£40.98	£37.40
G8-21	21	2.625	2.875	1.970	0.750	£42.48	£38.04
G8-22	22	2.750	3.000	1.970	0.875	£44.14	£39.63
G8-23	23	2.875	3.125	1.970	0.875	£45.18	£40.84
G8-24	24	3.000	3.250	1.970	0.875	£46.51	£41.88
G8-25	25	3.125	3.375	1.970	0.875	£48.84	£42.87
G8-26	26	3.250	3.500	1.970	0.875	£49.27	£44.04
G8-27	27	3.375	3.625	1.970	0.875	£50.82	£45.08
G8-28	28	3.500	3.750	1.970	0.875	£52.02	£46.26
G8-29	29	3.625	3.875	1.970	0.875	£53.48	£47.44
G8-30	30	3.750	4.000	1.970	0.875	£54.83	£48.53
G8-31	31	3.875	4.125	1.970	0.875	£55.11	£48.71

Spur Gears Steel - Standard DP 8

23.144



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G8-32	32	4.000	4.250	2.375	0.875	£56.00	£48.90
G8-33	33	4.125	4.375	2.375	0.875	£56.34	£51.06
G8-34	34	4.250	4.500	2.375	0.875	£58.34	£53.14
G8-35	35	4.375	4.625	2.375	0.875	£60.81	£55.36
G8-36	36	4.500	4.750	2.375	0.875	£62.76	£60.79
G8-37	37	4.625	4.875	2.375	0.875	£71.14	£62.92
G8-38	38	4.750	5.000	2.375	0.875	£76.52	£65.04
G8-39	39	4.875	5.125	2.375	0.875	£84.13	£71.47
G8-40	40	5.000	5.250	2.375	0.875	£91.13	£77.44
G8-41	41	5.125	5.375	2.375	0.875	£95.93	£81.61
G8-42	42	5.250	5.500	2.375	0.875	£104.24	£86.32
G8-43	43	5.375	5.625	2.375	0.875	£106.21	£98.11
G8-44	44	5.500	5.750	2.375	0.875	£108.87	£92.49
G8-45	45	5.625	5.875	2.375	0.875	£111.20	£94.53
G8-46	46	5.750	6.000	2.375	0.875	£113.27	£96.27
G8-47	47	5.875	6.125	2.375	0.875	£119.29	£101.38
G8-48	48	6.000	6.250	2.375	0.875	£122.05	£103.72
G8-49	49	6.125	6.375	2.375	0.875	£128.19	£108.90
G8-50	50	6.250	6.500	2.375	0.875	£131.13	£111.44
G8-51	51	6.375	6.625	2.375	0.875	£134.38	£114.25
G8-52	52	6.500	6.750	2.375	0.875	£139.23	£118.34
G8-53	53	6.625	6.875	2.375	0.875	£141.41	£120.19
G8-54	54	6.750	7.000	2.375	0.875	£144.92	£123.17
G8-55	55	6.875	7.125	2.375	0.875	£147.79	£125.63
G8-56	56	7.000	7.250	2.375	0.875	£150.19	£127.68
G8-57	57	7.125	7.375	2.375	0.875	£155.81	£132.48
G8-58	58	7.250	7.500	2.375	0.875	£161.02	£136.85
G8-59	59	7.375	7.625	2.375	0.875	£162.02	£137.74
G8-60	60	7.500	7.750	2.375	0.875	£166.00	£141.10
G8-61	61	7.625	7.875	4.000	1.000	£170.30	£144.74
G8-62	62	7.750	8.000	4.000	1.000	£176.23	£149.76
G8-63	63	7.875	8.125	4.000	1.000	£179.81	£152.76
G8-64	64	8.000	8.250	4.000	1.000	£183.59	£156.03
G8-65	65	8.125	8.375	4.000	1.000	£207.98	£176.82
G8-68	68	8.500	8.750	4.000	1.000	£232.25	£196.51
G8-70	70	8.750	9.000	4.000	1.000	£233.09	£198.10
G8-72	72	9.000	9.250	4.000	1.000	£245.56	£208.67
G8-75	75	9.375	9.625	4.000	1.000	£258.00	£219.26
G8-76	76	9.500	9.750	4.000	1.000	£272.31	£231.43
G8-78	78	9.750	10.000	4.000	1.000	£285.33	£242.54
G8-80	80	10.000	10.250	4.000	1.000	£308.33	£262.04
G8-82	82	10.250	10.500	4.000	1.000	£327.38	£278.26
G8-84	84	10.500	10.750	4.000	1.000	£339.54	£288.61
G8-86	86	10.750	11.000	4.000	1.000	£350.10	£297.62
G8-88	88	11.000	11.250	4.000	1.000	£373.05	£317.07
G8-90	90	11.250	11.500	4.000	1.000	£387.98	£329.80

Up to Ø750 mm

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

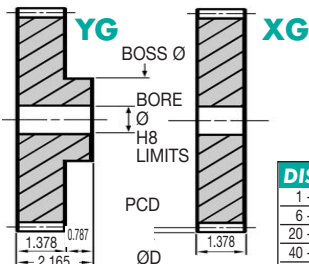
8 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD	
variations of back	TORQUE Nm.	223.000	615.000	223.000	325.000
	K.W.	23.126	64.156	23.126	33.570



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG8-9	9	1.250	1.500	1.500	0.625	£38.82	£29.05
YG8-10	10	1.375	1.625	1.625	0.625	£38.83	£29.07
YG8-11	11	1.500	1.750	1.750	0.625	£38.85	£29.08
YG8-12	12	1.500	1.750	1.750	0.750	£38.86	£29.10
YG8-13	13	1.625	1.875	1.772	0.750	£40.48	£30.34
YG8-14	14	1.750	2.000	1.772	0.750	£41.91	£31.42
YG8-15	15	1.875	2.125	1.772	0.750	£43.21	£32.35
YG8-16	16	2.000	2.250	1.772	0.750	£45.90	£34.39
YG8-17	17	2.125	2.375	1.772	0.750	£48.27	£36.23
YG8-18	18	2.250	2.500	1.772	0.750	£51.09	£38.28
YG8-19	19	2.375	2.625	1.772	0.750	£53.01	£39.69
YG8-20	20	2.500	2.750	1.772	0.750	£54.62	£40.98
YG8-21	21	2.625	2.875	1.772	0.750	£56.67	£42.48
YG8-22	22	2.750	3.000	2.362	0.875	£58.89	£44.14
YG8-23	23	2.875	3.125	2.362	0.875	£60.25	£45.18
YG8-24	24	3.000	3.250	2.362	0.875	£62.05	£46.51
YG8-25	25	3.125	3.375	2.362	0.875	£63.95	£47.92
YG8-26	26	3.250	3.500	2.362	0.875	£65.75	£49.27
YG8-27	27	3.375	3.625	2.362	0.875	£67.77	£50.82
YG8-28	28	3.500	3.750	2.362	0.875	£69.41	£52.02
YG8-29	29	3.625	3.875	2.362	0.875	£71.36	£53.46
YG8-30	30	3.750	4.000	2.362	0.875	£73.09	£54.83
YG8-31	31	3.875	4.125	2.362	0.875	£75.89	£56.90

Spur Gears Steel - Heavy Duty DP 8

23.146



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG8-32	32	4.000	4.250	2.953	0.875	£78.85	£59.12
YG8-33	33	4.125	4.375	2.953	0.875	£81.69	£61.26
YG8-34	34	4.250	4.500	2.953	0.875	£84.62	£63.43
YG8-35	35	4.375	4.625	2.953	0.875	£88.22	£66.12
YG8-36	36	4.500	4.750	2.953	0.875	£91.03	£68.20
YG8-37	37	4.625	4.875	2.953	0.875	£103.11	£77.31
YG8-38	38	4.750	5.000	2.953	0.875	£110.96	£83.18
YG8-39	39	4.875	5.125	2.953	0.875	£121.91	£91.44
YG8-40	40	5.000	5.250	2.953	0.875	£132.14	£99.07
YG8-41	41	5.125	5.375	2.953	0.875	£139.10	£104.25
YG8-42	42	5.250	5.500	3.937	0.875	£151.13	£113.31
YG8-43	43	5.375	5.625	3.937	0.875	£153.91	£115.44
YG8-44	44	5.500	5.750	3.937	0.875	£157.82	£116.23
YG8-45	45	5.625	5.875	3.937	0.875	£161.19	£120.86
YG8-46	46	5.750	6.000	3.937	0.875	£164.18	£123.13
YG8-47	47	5.875	6.125	3.937	0.875	£172.95	£129.66
YG8-48	48	6.000	6.250	3.937	0.875	£176.94	£132.67
YG8-49	49	6.125	6.375	3.937	0.875	£185.81	£139.31
YG8-50	50	6.250	6.500	3.937	0.875	£190.06	£142.55
YG8-51	51	6.375	6.625	3.937	0.875	£194.85	£146.11
YG8-52	52	6.500	6.750	3.937	0.875	£201.80	£151.34
YG8-53	53	6.625	6.875	3.937	0.875	£204.97	£153.73
YG8-54	54	6.750	7.000	5.000	0.875	£210.05	£157.53
YG8-55	55	6.875	7.125	5.000	0.875	£214.18	£160.65
YG8-56	56	7.000	7.250	5.000	0.875	£217.72	£163.25
YG8-57	57	7.125	7.375	5.000	0.875	£225.85	£169.37
YG8-58	58	7.250	7.500	5.000	0.875	£233.32	£175.01
YG8-59	59	7.375	7.625	5.000	0.875	£234.86	£176.14
YG8-60	60	7.500	7.750	5.000	0.875	£240.64	£180.42
YG8-61	61	7.625	7.875	5.000	0.875	£246.86	£185.13
YG8-62	62	7.750	8.000	5.000	0.875	£255.48	£191.60
YG8-63	63	7.875	8.125	5.000	0.875	£260.59	£195.43
YG8-64	64	8.000	8.250	5.000	0.875	£266.08	£199.44
YG8-65	65	8.125	8.375	5.906	1.000	£301.51	£226.10
YG8-68	68	8.500	8.750	5.906	1.000	£335.16	£251.37
YG8-70	70	8.750	9.000	5.906	1.000	£337.88	£253.38
YG8-72	72	9.000	9.250	5.906	1.000	£355.82	£266.88
YG8-75	75	9.375	9.625	5.906	1.000	£373.89	£280.42
YG8-76	76	9.500	9.750	5.906	1.000	£394.59	£295.96
YG8-78	78	9.750	10.000	5.906	1.000	£413.60	£310.19
YG8-80	80	10.000	10.250	5.906	1.000	£446.94	£335.16
YG8-82	82	10.250	10.500	5.906	1.000	£474.50	£355.83
YG8-84	84	10.500	10.750	5.906	1.000	£492.14	£369.06
YG8-86	86	10.750	11.000	5.906	1.000	£507.48	£380.57
YG8-88	88	11.000	11.250	5.906	1.000	£540.70	£405.50
YG8-90	90	11.250	11.500	5.906	1.000	£562.31	£421.73

Up to Ø750 mm

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

8 DP

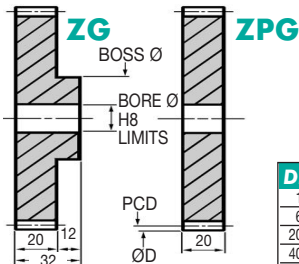
20° P.A.

SPECIALS : up to Ø750 mm



SPECIALS
ON DEMAND

TORQUE CHECK 50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	18.00



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG8-9	9	1.250	1.500	36	12	£12.32	£8.66
ZG8-10	10	1.375	1.625	36	12	£12.33	£8.67
ZG8-11	11	1.500	1.750	36	12	£12.34	£8.73
ZG8-12	12	1.500	1.750	36	15	£12.39	£8.73
ZG8-13	13	1.625	1.875	36	15	£12.39	£9.47
ZG8-14	14	1.750	2.000	36	15	£12.79	£9.82
ZG8-15	15	1.875	2.125	40	15	£13.19	£10.09
ZG8-16	16	2.000	2.250	40	15	£16.85	£12.93
ZG8-17	17	2.125	2.375	40	15	£17.78	£13.61
ZG8-18	18	2.250	2.500	40	15	£21.30	£16.29
ZG8-19	19	2.375	2.625	40	15	£22.05	£16.93
ZG8-20	20	2.500	2.750	40	15	£22.78	£17.48
ZG8-21	21	2.625	2.875	40	15	£23.60	£18.10
ZG8-22	22	2.750	3.000	40	15	£26.01	£19.95
ZG8-23	23	2.875	3.125	40	15	£26.61	£20.37
ZG8-24	24	3.000	3.250	40	15	£27.40	£21.01
ZG8-25	25	3.125	3.375	40	15	£28.26	£21.65
ZG8-26	26	3.250	3.500	50	20	£29.05	£22.29
ZG8-27	27	3.375	3.625	50	20	£33.31	£25.52
ZG8-28	28	3.500	3.750	50	20	£34.06	£26.13
ZG8-29	29	3.625	3.875	50	20	£35.06	£26.89
ZG8-30	30	3.750	4.000	50	20	£39.53	£30.34
ZG8-31	31	3.875	4.125	50	20	£40.99	£31.43

Spur Gears Plastic - Fully Machined DP 8

23.148



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5	
						ZG	ZPG
ZG8-32	32	4.000	4.250	50	20	£42.61	£32.67
ZG8-33	33	4.125	4.375	50	20	£44.14	£33.88
ZG8-34	34	4.250	4.500	50	20	£45.71	£35.06
ZG8-35	35	4.375	4.625	50	20	£47.66	£36.58
ZG8-36	36	4.500	4.750	50	20	£53.64	£41.16
ZG8-37	37	4.625	4.875	50	20	£60.81	£46.61
ZG8-38	38	4.750	5.000	50	20	£65.46	£50.19
ZG8-39	39	4.875	5.125	50	20	£77.93	£59.75
ZG8-40	40	5.000	5.250	50	20	£81.14	£64.81
ZG8-41	41	5.125	5.375	50	20	£88.89	£67.88
ZG8-42	42	5.250	5.500	60	20	£96.59	£74.10
ZG8-43	43	5.375	5.625	60	20	£98.42	£75.48
ZG8-44	44	5.500	5.750	60	20	£100.92	£77.41
ZG8-45	45	5.625	5.875	60	20	£103.05	£79.05
ZG8-46	46	5.750	6.000	60	20	£104.95	£80.51
ZG8-47	47	5.875	6.125	60	20	£110.55	£84.79
ZG8-48	48	6.000	6.250	60	20	£113.08	£86.78
ZG8-49	49	6.125	6.375	60	20	£137.09	£105.15
ZG8-50	50	6.250	6.500	60	20	£140.24	£107.60
ZG8-51	51	6.375	6.625	60	20	£143.70	£110.28
ZG8-52	52	6.500	6.750	60	20	£148.93	£114.25
ZG8-53	53	6.625	6.875	60	20	£151.21	£116.04
ZG8-54	54	6.750	7.000	70	20	£154.95	£118.95
ZG8-55	55	6.875	7.125	70	20	£158.00	£121.22
ZG8-56	56	7.000	7.250	70	20	£160.62	£121.56
ZG8-57	57	7.125	7.375	70	20	£166.64	£127.84
ZG8-58	58	7.250	7.500	70	20	£172.14	£132.14
ZG8-59	59	7.375	7.625	70	20	£173.28	£132.93
ZG8-60	60	7.500	7.750	70	20	£175.36	£136.61
ZG8-61	61	7.625	7.875	70	20	£182.12	£139.78
ZG8-62	62	7.750	8.000	70	20	£207.28	£159.07
ZG8-63	63	7.875	8.125	70	20	£211.51	£161.29
ZG8-64	64	8.000	8.250	70	20	£215.98	£165.70
ZG8-65	65	8.125	8.375	70	20	£245.66	£187.73
ZG8-68	68	8.500	8.750	70	20	£271.97	£208.69
ZG8-70	70	8.750	9.000	70	20	£293.89	£230.58

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

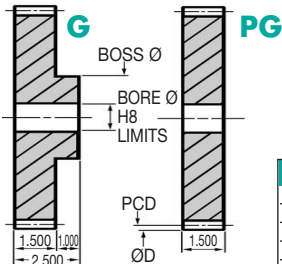
6 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm variations at back	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
TORQUE Nm.	200.000	953.000	100.000	80.000
K.W.	20.888	99.964	10.444	8.206



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G6-9	9	1.667	2.000	2.000	0.875	£39.96	£35.22
G6-10	10	1.833	2.167	2.167	0.875	£39.97	£35.23
G6-11	11	2.000	2.333	2.333	0.875	£39.98	£35.26
G6-12	12	2.000	2.333	2.000	1.000	£40.02	£35.28
G6-13	13	2.167	2.500	2.000	1.000	£42.20	£38.04
G6-14	14	2.333	2.667	2.000	1.000	£46.22	£40.51
G6-15	15	2.500	2.833	2.000	1.000	£52.47	£45.54
G6-16	16	2.667	3.000	2.000	1.000	£61.46	£48.79
G6-17	17	2.833	3.167	2.000	1.000	£67.19	£57.12
G6-18	18	3.000	3.333	2.000	1.000	£70.87	£60.21
G6-19	19	3.167	3.500	2.000	1.000	£73.88	£62.76
G6-20	20	3.333	3.667	2.000	1.000	£75.66	£64.28
G6-21	21	3.500	3.833	2.000	1.000	£80.46	£68.34
G6-22	22	3.667	4.000	2.000	1.000	£86.36	£73.35
G6-23	23	3.833	4.167	2.000	1.000	£90.86	£77.24
G6-24	24	4.000	4.333	2.000	1.000	£90.99	£77.36
G6-25	25	4.167	4.500	2.000	1.000	£92.08	£78.25
G6-26	26	4.333	4.667	2.000	1.000	£92.98	£78.99
G6-27	27	4.500	4.833	2.500	1.250	£94.66	£80.46
G6-28	28	4.667	5.000	2.500	1.250	£95.35	£81.04
G6-29	29	4.833	5.167	2.500	1.250	£96.86	£82.36
G6-30	30	5.000	5.333	2.500	1.250	£101.47	£86.19
G6-31	31	5.167	5.500	2.500	1.250	£105.72	£89.85

Spur Gears Steel - Standard DP 6

23.150



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						G	PG
G6-32	32	5.333	5.667	2.500	1.250	£111.07	£94.42
G6-33	33	5.500	5.833	2.500	1.250	£116.23	£98.78
G6-34	34	5.667	6.000	2.500	1.250	£118.82	£101.00
G6-35	35	5.833	6.167	2.500	1.250	£121.22	£103.05
G6-36	36	6.000	6.333	2.500	1.250	£123.71	£105.12
G6-37	37	6.167	6.500	2.500	1.250	£128.30	£109.04
G6-38	38	6.333	6.667	2.500	1.250	£133.27	£113.27
G6-39	39	6.500	6.833	2.500	1.250	£148.01	£125.80
G6-40	40	6.667	7.000	2.500	1.250	£153.17	£130.16
G6-41	41	6.833	7.167	2.500	1.250	£154.72	£131.52
G6-42	42	7.000	7.333	2.500	1.250	£158.00	£134.31
G6-43	43	7.167	7.500	2.500	1.250	£167.34	£139.19
G6-44	44	7.333	7.667	2.500	1.250	£172.43	£146.55
G6-45	45	7.500	7.833	2.500	1.250	£178.25	£151.52
G6-46	46	7.667	8.000	2.500	1.250	£185.89	£157.97
G6-47	47	7.833	8.167	2.500	1.250	£197.04	£167.48
G6-48	48	8.000	8.333	2.500	1.250	£204.70	£173.99
G6-49	49	8.167	8.500	2.500	1.250	£205.30	£174.45
G6-50	50	8.333	8.667	2.500	1.250	£212.38	£180.47
G6-51	51	8.500	8.833	2.500	1.250	£231.48	£196.75
G6-52	52	8.667	9.000	2.500	1.250	£237.60	£201.94
G6-53	53	8.833	9.167	2.500	1.250	£241.69	£205.41
G6-54	54	9.000	9.333	2.500	1.250	£246.73	£209.70
G6-55	55	9.167	9.500	2.500	1.250	£251.78	£213.93
G6-56	56	9.333	9.667	2.500	1.250	£256.68	£218.17
G6-57	57	9.500	9.833	2.500	1.250	£262.02	£222.70
G6-58	58	9.667	10.000	2.500	1.250	£265.06	£225.26
G6-59	59	9.833	10.167	2.500	1.250	£274.86	£233.63
G6-60	60	10.000	10.333	5.000	1.500	£281.12	£238.90
G6-61	61	10.167	10.500	5.000	1.500	£335.02	£284.77
G6-62	62	10.333	10.667	5.000	1.500	£337.86	£287.16
G6-63	63	10.500	10.833	5.000	1.500	£343.47	£291.93
G6-64	64	10.667	11.000	5.000	1.500	£350.11	£297.60
G6-65	65	10.833	11.167	5.000	1.500	£363.77	£309.19
G6-66	66	11.000	11.333	5.000	1.500	£375.29	£319.04
G6-67	67	11.167	11.500	5.000	1.500	£387.71	£329.53

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)
ALTERNATIVE : 080M40 (En8) torque x 0.47
of 655M13(En36)

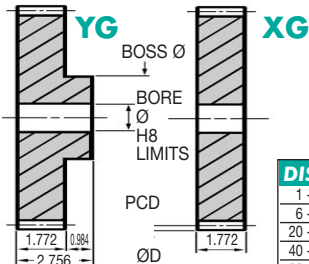
6 DP

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations of back	510.000	1407.000	510.000	744.000
TORQUE Nm.				
K.W.	52.966	146.962	52.966	77.584



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG6-9	9	1.667	2.000	2.000	0.875	£53.41	£39.96
YG6-10	10	1.833	2.167	2.167	0.875	£53.42	£39.97
YG6-11	11	2.000	2.333	2.333	0.875	£53.43	£39.98
YG6-12	12	2.000	2.333	2.333	1.000	£53.45	£40.02
YG6-13	13	2.167	2.500	2.362	1.000	£56.21	£42.20
YG6-14	14	2.333	2.667	2.362	1.000	£61.68	£46.22
YG6-15	15	2.500	2.833	2.362	1.000	£69.97	£52.47
YG6-16	16	2.667	3.000	2.362	1.000	£81.94	£61.46
YG6-17	17	2.833	3.167	2.362	1.000	£89.63	£67.19
YG6-18	18	3.000	3.333	2.362	1.000	£94.53	£70.87
YG6-19	19	3.167	3.500	2.362	1.000	£98.46	£73.88
YG6-20	20	3.333	3.667	2.953	1.000	£100.89	£75.66
YG6-21	21	3.500	3.833	2.953	1.000	£107.27	£80.46
YG6-22	22	3.667	4.000	2.953	1.000	£115.09	£86.36
YG6-23	23	3.833	4.167	2.953	1.000	£121.19	£90.86
YG6-24	24	4.000	4.333	2.953	1.000	£128.93	£96.68
YG6-25	25	4.167	4.500	2.953	1.000	£132.08	£99.00
YG6-26	26	4.333	4.667	2.953	1.000	£134.79	£101.07
YG6-27	27	4.500	4.833	3.937	1.250	£140.76	£106.38
YG6-28	28	4.667	5.000	3.937	1.250	£146.18	£109.61
YG6-29	29	4.833	5.167	3.937	1.250	£150.26	£112.68
YG6-30	30	5.000	5.333	3.937	1.250	£159.22	£119.39
YG6-31	31	5.167	5.500	3.937	1.250	£176.27	£132.21

Spur Gears Steel - Heavy Duty DP 6

23.152



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						YG	XG
YG6-32	32	5.333	5.667	3.937	1.250	£185.17	£138.86
YG6-33	33	5.500	5.833	3.937	1.250	£193.79	£145.33
YG6-34	34	5.667	6.000	3.937	1.250	£198.07	£148.55
YG6-35	35	5.833	6.167	3.937	1.250	£202.17	£151.58
YG6-36	36	6.000	6.333	3.937	1.250	£206.22	£154.64
YG6-37	37	6.167	6.500	3.937	1.250	£213.94	£160.41
YG6-38	38	6.333	6.667	3.937	1.250	£222.15	£166.63
YG6-39	39	6.500	6.833	3.937	1.250	£246.77	£185.03
YG6-40	40	6.667	7.000	5.000	1.250	£255.38	£191.52
YG6-41	41	6.833	7.167	5.000	1.250	£257.95	£193.42
YG6-42	42	7.000	7.333	5.000	1.250	£263.41	£197.54
YG6-43	43	7.167	7.500	5.000	1.250	£278.99	£209.19
YG6-44	44	7.333	7.667	5.000	1.250	£287.48	£215.60
YG6-45	45	7.500	7.833	5.000	1.250	£297.12	£222.87
YG6-46	46	7.667	8.000	5.000	1.250	£309.85	£232.37
YG6-47	47	7.833	8.167	5.000	1.250	£328.41	£246.34
YG6-48	48	8.000	8.333	5.000	1.250	£341.30	£255.96
YG6-49	49	8.167	8.500	5.000	1.250	£342.19	£256.66
YG6-50	50	8.333	8.667	5.000	1.250	£353.99	£265.49
YG6-51	51	8.500	8.833	5.000	1.250	£385.86	£289.39
YG6-52	52	8.667	9.000	5.000	1.250	£396.05	£297.01
YG6-53	53	8.833	9.167	5.000	1.250	£402.84	£302.13
YG6-54	54	9.000	9.333	5.000	1.250	£411.31	£308.43
YG6-55	55	9.167	9.500	5.000	1.250	£419.63	£320.86
YG6-56	56	9.333	9.667	5.000	1.250	£427.84	£327.56
YG6-57	57	9.500	9.833	5.000	1.250	£436.80	£331.37
YG6-58	58	9.667	10.000	5.000	1.250	£441.83	£343.60
YG6-59	59	9.833	10.167	5.000	1.250	£458.16	£351.44
YG6-60	60	10.000	10.333	5.000	1.250	£468.63	£418.82
YG6-61	61	10.167	10.500	5.906	1.500	£558.47	£422.36
YG6-62	62	10.333	10.667	5.906	1.500	£563.15	£425.75
YG6-63	63	10.500	10.833	5.906	1.500	£572.52	£429.41
YG6-64	64	10.667	11.000	5.906	1.500	£583.56	£437.72
YG6-65	65	10.833	11.167	5.906	1.500	£606.40	£454.75
YG6-66	66	11.000	11.333	5.906	1.500	£625.57	£469.12
YG6-67	67	11.167	11.500	5.906	1.500	£646.22	£484.66

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

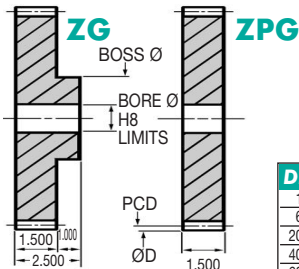
6 DP

20° P.A.

SPECIALS : up to Ø750mm

SPECIALS
ON DEMAND

TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 57



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						ZG	ZPG
ZG6-9	9	1.667	2.000	2.000	0.875	£12.44	£9.53
ZG6-10	10	1.833	2.167	2.167	0.875	£12.48	£9.55
ZG6-11	11	2.000	2.333	2.333	0.875	£12.50	£9.57
ZG6-12	12	2.000	2.333	2.000	1.000	£12.79	£9.93
ZG6-13	13	2.167	2.500	2.000	1.000	£13.63	£10.43
ZG6-14	14	2.333	2.667	2.000	1.000	£14.08	£10.80
ZG6-15	15	2.500	2.833	2.000	1.000	£14.61	£11.12
ZG6-16	16	2.667	3.000	2.000	1.000	£18.52	£14.20
ZG6-17	17	2.833	3.167	2.000	1.000	£19.59	£15.00
ZG6-18	18	3.000	3.333	2.000	1.000	£23.43	£17.94
ZG6-19	19	3.167	3.500	2.000	1.000	£24.26	£18.61
ZG6-20	20	3.333	3.667	2.000	1.000	£25.07	£19.25
ZG6-21	21	3.500	3.833	2.000	1.000	£25.97	£19.93
ZG6-22	22	3.667	4.000	2.000	1.000	£28.62	£21.96
ZG6-23	23	3.833	4.167	2.000	1.000	£29.30	£22.43
ZG6-24	24	4.000	4.333	2.000	1.000	£30.13	£23.12
ZG6-25	25	4.167	4.500	2.000	1.000	£31.09	£23.83
ZG6-26	26	4.333	4.667	2.000	1.000	£31.96	£24.51
ZG6-27	27	4.500	4.833	2.500	1.250	£36.62	£28.13
ZG6-28	28	4.667	5.000	2.500	1.250	£37.49	£28.76
ZG6-29	29	4.833	5.167	2.500	1.250	£38.55	£29.60
ZG6-30	30	5.000	5.333	2.500	1.250	£43.49	£33.37
ZG6-31	31	5.167	5.500	2.500	1.250	£45.11	£34.59

Spur Gears Plastic - Fully Machined DP6

23.154



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						ZG	ZPG
ZG6-32	32	5.333	5.667	2.500	1.250	£46.88	£35.97
ZG6-33	33	5.500	5.833	2.500	1.250	£48.56	£37.29
ZG6-34	34	5.667	6.000	2.500	1.250	£50.32	£38.55
ZG6-35	35	5.833	6.167	2.500	1.250	£52.42	£40.23
ZG6-36	36	6.000	6.333	2.500	1.250	£59.01	£45.35
ZG6-37	37	6.167	6.500	2.500	1.250	£66.93	£51.34
ZG6-38	38	6.333	6.667	2.500	1.250	£72.05	£55.22
ZG6-39	39	6.500	6.833	2.500	1.250	£85.75	£65.74
ZG6-40	40	6.667	7.000	2.500	1.250	£89.31	£71.23
ZG6-41	41	6.833	7.167	2.500	1.250	£97.80	£74.73
ZG6-42	42	7.000	7.333	2.500	1.250	£106.30	£81.51
ZG6-43	43	7.167	7.500	2.500	1.250	£108.28	£83.06
ZG6-44	44	7.333	7.667	2.500	1.250	£111.02	£85.14
ZG6-45	45	7.500	7.833	2.500	1.250	£113.36	£86.97
ZG6-46	46	7.667	8.000	2.500	1.250	£115.44	£88.61
ZG6-47	47	7.833	8.167	2.500	1.250	£121.60	£93.31
ZG6-48	48	8.000	8.333	2.500	1.250	£124.41	£95.48
ZG6-49	49	8.167	8.500	2.500	1.250	£150.80	£115.71
ZG6-50	50	8.333	8.667	2.500	1.250	£154.22	£118.34
ZG6-51	51	8.500	8.833	2.500	1.250	£158.09	£121.31
ZG6-52	52	8.667	9.000	2.500	1.250	£163.81	£125.67
ZG6-53	53	8.833	9.167	2.500	1.250	£166.37	£127.68
ZG6-54	54	9.000	9.333	2.500	1.250	£170.47	£130.84
ZG6-55	55	9.167	9.500	2.500	1.250	£173.83	£133.38
ZG6-56	56	9.333	9.667	2.500	1.250	£176.65	£133.73
ZG6-57	57	9.500	9.833	2.500	1.250	£183.34	£140.65
ZG6-58	58	9.667	10.000	2.500	1.250	£189.37	£145.33
ZG6-59	59	9.833	10.167	2.500	1.250	£190.56	£146.24
ZG6-60	60	10.000	10.333	5.000	1.500	£192.90	£150.27
ZG6-61	61	10.167	10.500	5.000	1.500	£200.33	£153.76
ZG6-62	62	10.333	10.667	5.000	1.500	£228.07	£175.00
ZG6-63	63	10.500	10.833	5.000	1.500	£232.63	£177.47
ZG6-64	64	10.667	11.000	5.000	1.500	£237.56	£182.29
ZG6-65	65	10.833	11.167	5.000	1.500	£270.23	£206.53
ZG6-66	66	11.000	11.333	5.000	1.500	£299.20	£229.55
ZG6-67	67	11.167	11.500	5.000	1.500	£323.90	£253.66

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

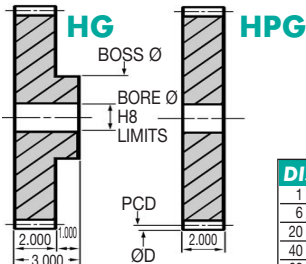
4 DP

20° P.A.

SPECIAL TEETH : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations of back	465	2470	125	190
TORQUE Nm.				
K.W.	48	258	13	19



DISCOUNTS	
1 - 5	List Price
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	*CORRECTED TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						HG	HPG
HG4-9	9 *	2.500	3.000	3.000	0.875	£67.55	£50.76
HG4-10	10 *	2.750	3.250	3.250	0.875	£70.95	£53.34
HG4-11	11 *	3.000	3.500	3.500	0.875	£73.64	£55.33
HG4-12	12	3.000	3.500	3.500	1.000	£84.16	£63.26
HG4-13	13	3.250	3.750	3.000	1.000	£85.81	£64.52
HG4-14	14	3.500	4.000	3.000	1.000	£93.22	£70.08
HG4-15	15	3.750	4.250	3.000	1.000	£96.98	£72.92
HG4-16	16	4.000	4.500	3.000	1.000	£100.62	£77.08
HG4-17	17	4.250	4.750	3.000	1.000	£104.24	£78.33
HG4-18	18	4.500	5.000	3.000	1.000	£108.01	£81.20
HG4-19	19	4.750	5.250	3.000	1.000	£115.03	£86.43
HG4-20	20	5.000	5.500	3.000	1.000	£120.37	£90.86
HG4-21	21	5.250	5.750	3.000	1.000	£131.23	£95.35
HG4-22	22	5.500	6.000	4.000	1.000	£136.64	£99.80
HG4-23	23	5.750	6.250	4.000	1.000	£139.31	£104.25
HG4-24	24	6.000	6.500	4.000	1.000	£142.07	£108.77
HG4-25	25	6.250	6.750	4.000	1.000	£146.76	£112.43
HG4-26	26	6.500	7.000	4.000	1.000	£151.42	£116.17
HG4-27	27	6.750	7.250	4.000	1.250	£156.10	£119.93
HG4-28	28	7.000	7.500	4.000	1.250	£160.79	£123.62
HG4-29	29	7.250	7.750	4.000	1.250	£165.46	£127.33
HG4-30	30	7.500	8.000	5.000	1.250	£170.17	£131.05
HG4-31	31	7.750	8.250	5.000	1.250	£175.26	£135.02

Spur Gears Steel - Standard DP4

23.156



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						HG	HPG
HG4-32	32	8.000	8.500	5.000	1.250	£189.56	£145.36
HG4-33	33	8.250	8.750	5.000	1.250	£203.81	£155.72
HG4-34	34	8.500	9.000	5.000	1.250	£218.05	£166.12
HG4-35	35	8.750	9.250	5.000	1.250	£232.37	£176.49
HG4-36	36	9.000	9.500	5.000	1.250	£246.67	£186.85
HG4-37	37	9.250	9.750	5.000	1.250	£260.93	£197.23
HG4-38	38	9.500	10.000	6.000	1.250	£275.14	£207.60
HG4-39	39	9.750	10.250	6.000	1.250	£289.42	£217.98
HG4-40	40	10.000	10.500	6.000	1.250	£303.76	£228.38
HG4-41	41	10.250	10.750	6.000	1.250	£357.20	£268.57
HG4-42	42	10.500	11.000	6.000	1.250	£410.70	£308.75
HG4-43	43	10.750	11.250	6.000	1.250	£464.17	£348.95
HG4-44	44	11.000	11.500	6.000	1.250	£517.68	£389.18
HG4-45	45	11.250	11.750	6.000	1.250	£571.15	£429.41
HG4-46	46	11.500	12.000	6.000	1.250	£588.29	£442.27
HG4-47	47	11.750	12.250	6.000	1.250	£604.30	£455.17
HG4-48	48	12.000	12.500	6.000	1.250	£622.59	£468.05
HG4-49	49	12.250	12.750	6.000	1.250	£639.72	£480.95
HG4-50	50	12.500	13.000	6.000	1.250	£656.84	£493.80

Up to Ø750 mm

Spur Gears Steel - Standard
Dp 4

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Spur Gears

Materials

Plastic Delrin (fully machined)

STD : White Delrin

ALTERNATIVE : Brass, Tufnol

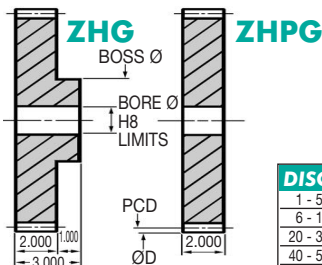
4 DP

20° P.A.

SPECIAL TEETH : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 142



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 5%
20 - 39	- 10%
40 - 59	- 15%
60 - 99	- 20%
100 - 200	- 25%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	*CORRECTED TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH	ZHG	ZHPG
ZHG4-9	9 *	2.500	3.000	3.000	0.875	£56.00	£42.05	
ZHG4-10	10 *	2.750	3.250	3.250	0.875	£58.82	£44.17	
ZHG4-11	11 *	3.000	3.500	3.500	0.875	£60.99	£45.87	
ZHG4-12	12	3.000	3.500	3.500	1.000	£69.74	£53.43	
ZHG4-13	13	3.250	3.750	3.000	1.000	£71.07	£53.43	
ZHG4-14	14	3.500	4.000	3.000	1.000	£77.21	£58.06	
ZHG4-15	15	3.750	4.250	3.000	1.000	£80.34	£60.40	
ZHG4-16	16	4.000	4.500	3.000	1.000	£83.35	£63.84	
ZHG4-17	17	4.250	4.750	3.000	1.000	£86.36	£64.88	
ZHG4-18	18	4.500	5.000	3.000	1.000	£89.49	£67.26	
ZHG4-19	19	4.750	5.250	3.000	1.000	£95.26	£71.59	
ZHG4-20	20	5.000	5.500	3.000	1.000	£99.74	£75.29	
ZHG4-21	21	5.250	5.750	3.000	1.000	£108.71	£78.97	
ZHG4-22	22	5.500	6.000	4.000	1.000	£113.19	£82.67	
ZHG4-23	23	5.750	6.250	4.000	1.000	£115.41	£86.38	
ZHG4-24	24	6.000	6.500	4.000	1.000	£117.65	£91.03	
ZHG4-25	25	6.250	6.750	4.000	1.000	£121.54	£93.14	
ZHG4-26	26	6.500	7.000	4.000	1.000	£125.41	£96.23	
ZHG4-27	27	6.750	7.250	4.000	1.250	£129.30	£99.30	
ZHG4-28	28	7.000	7.500	4.000	1.250	£133.19	£102.36	
ZHG4-29	29	7.250	7.750	4.000	1.250	£137.03	£105.45	
ZHG4-30	30	7.500	8.000	5.000	1.250	£140.93	£108.55	
ZHG4-31	31	7.750	8.250	5.000	1.250	£145.18	£111.77	

Spur Gears Plastic - Fully Machined DP4

23.158



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1-5	
						ZHG	ZHPG
ZHG4-32	32	8.000	8.500	5.000	1.250	£156.96	£120.35
ZHG4-33	33	8.250	8.750	5.000	1.250	£168.78	£128.97
ZHG4-34	34	8.500	9.000	5.000	1.250	£180.61	£137.56
ZHG4-35	35	8.750	9.250	5.000	1.250	£192.43	£146.16
ZHG4-36	36	9.000	9.500	5.000	1.250	£204.26	£154.76
ZHG4-37	37	9.250	9.750	5.000	1.250	£216.08	£163.36
ZHG4-38	38	9.500	10.000	6.000	1.250	£227.87	£171.95
ZHG4-39	39	9.750	10.250	6.000	1.250	£239.71	£180.55
ZHG4-40	40	10.000	10.500	6.000	1.500	£251.56	£189.13
ZHG4-41	41	10.250	10.750	6.000	1.500	£295.84	£222.42
ZHG4-42	42	10.500	11.000	6.000	1.500	£340.12	£255.71
ZHG4-43	43	10.750	11.250	6.000	1.500	£384.41	£289.02
ZHG4-44	44	11.000	11.500	6.000	1.500	£428.70	£322.32
ZHG4-45	45	11.250	11.750	6.000	1.500	£473.01	£355.65
ZHG4-46	46	11.500	12.000	6.000	1.500	£487.18	£366.30
ZHG4-47	47	11.750	12.250	6.000	1.500	£501.40	£376.97
ZHG4-48	48	12.000	12.500	6.000	1.500	£515.61	£387.65
ZHG4-49	49	12.250	12.750	6.000	1.500	£529.78	£398.30
ZHG4-50	50	12.500	13.000	6.000	1.500	£543.97	£409.00

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

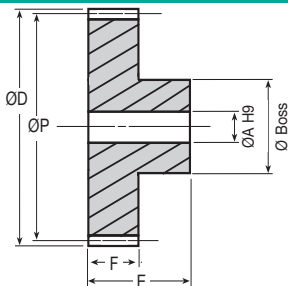


Moulded Spur Gears

Materials

0.5 MOD

STD : Hostaform



20° Pressure Angle

Standard parts are moulded only.

Special machined parts are available on request.

Please contact us.

Spur Gears Moulded MOD 0.5

Max. Tensile Strength	at 20°C 62 N/mm ² , at 70°C 35 N/mm ²
Tensile Elongation at Breach	at 20°C 30%, at 70°C 110%
Melting Point	190°C
Vicat Softening Temp	151°C
Coefficient of Linear Expansion between 20°&100°C	1.1x10 ⁻⁴
Auto Ignition Temp	427°C

DISCOUNTS	
1 - 9	List Price
10 - 49	- 10%
50 - 199	- 20%
200 - 499	- 30%
500 - 999	- 40%
1000 - 5000	- 50%

PART NUMBER	TEETH	MOD	ØD	ØP	Ø BOSS	ØA	F	E	PRICE 1 - 9
PLG0.5-12	12	0.5	7.0	6.00	4	2	3	7	£0.77
PLG0.5-15	15	0.5	8.50	7.50	6	3	3	10	£0.91
PLG0.5-16	16	0.5	9.00	8.00	6	3	3	10	£1.04
PLG0.5-18	18	0.5	10.00	9.00	8	4	3	10	£1.12
PLG0.5-20	20	0.5	11.00	10.00	8	4	3	10	£1.19
PLG0.5-24	24	0.5	13.00	12.00	10	4	3	10	£1.28
PLG0.5-25	25	0.5	13.50	12.50	10	4	3	10	£1.56
PLG0.5-30	30	0.5	16.00	15.00	12	4	3	10	£1.71
PLG0.5-35	35	0.5	18.50	17.50	12	4	3	10	£1.91
PLG0.5-36	36	0.5	19.00	18.00	12	4	3	10	£1.99
PLG0.5-40	40	0.5	21.00	20.00	12	4	3	10	£2.14
PLG0.5-45	45	0.5	23.50	22.50	12	4	3	10	£2.76
PLG0.5-48	48	0.5	25.00	24.00	15	6	3	10	£3.82
PLG0.5-50	50	0.5	26.00	25.00	15	6	3	10	£4.07
PLG0.5-60	60	0.5	31.00	30.00	15	6	3	10	£4.51

23.160



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	MOD	ØD	ØP	Ø BOSS	ØA	F	E	Price 1 - 9
PLG0.7-12	12	0.7	9.80	8.40	6	3	6	15	£1.56
PLG0.7-15	15	0.7	11.90	10.50	6	3	6	15	£1.80
PLG0.7-16	16	0.7	12.60	11.20	9	4	6	15	£1.81
PLG0.7-18	18	0.7	14.00	12.60	9	4	6	15	£2.08
PLG0.7-20	20	0.7	15.40	14.00	9	4	6	15	£2.32
PLG0.7-24	24	0.7	18.20	16.80	9	4	6	15	£2.87
PLG0.7-25	25	0.7	18.90	17.50	9	6	6	15	£2.93
PLG0.7-30	30	0.7	22.40	21.00	12	6	6	15	£3.22
PLG0.7-35	35	0.7	25.90	24.50	15	6	6	15	£3.54
PLG0.7-36	36	0.7	26.60	25.20	15	6	6	15	£3.82
PLG0.7-40	40	0.7	29.40	28.00	15	6	6	15	£4.07
PLG0.7-45	45	0.7	32.90	31.50	18	6	6	15	£4.24
PLG0.7-48	48	0.7	35.00	33.60	18	8	6	15	£4.44
PLG0.7-50	50	0.7	36.40	35.00	18	8	6	15	£4.72
PLG0.7-60	60	0.7	43.50	42.00	18	8	6	15	£5.08
PLG1-12	12	1.0	14.00	12.00	9	4	9	17	£2.93
PLG1-15	15	1.0	17.00	15.00	9	4	9	17	£3.07
PLG1-16	16	1.0	18.00	16.00	9	4	9	17	£3.13
PLG1-18	18	1.0	20.00	18.00	9	4	9	17	£3.31
PLG1-20	20	1.0	22.00	20.00	9	4	9	17	£3.60
PLG1-24	24	1.0	26.00	24.00	15	6	9	18	£3.82
PLG1-25	25	1.0	27.00	25.00	15	6	9	18	£3.96
PLG1-30	30	1.0	32.00	30.00	15	6	9	18	£4.32
PLG1-35	35	1.0	37.00	35.00	18	8	9	18	£4.72
PLG1-36	36	1.0	38.00	36.00	18	8	9	18	£4.76
PLG1-40	40	1.0	42.00	40.00	18	8	9	18	£5.08
PLG1-45	45	1.0	47.00	45.00	18	8	9	18	£5.85
PLG1-48	48	1.0	50.00	48.00	18	8	9	18	£6.07
PLG1-50	50	1.0	52.00	50.00	18	8	9	18	£6.94
PLG1-60	60	1.0	62.00	60.00	21	8	9	18	£8.41
PLG1-64	64	1.0	66.00	64.00	21	10	9	18	£9.96
PLG1-70	70	1.0	72.00	70.00	21	10	9	18	£11.06
PLG1-80	80	1.0	82.00	80.00	21	10	9	18	£12.39
PLG1.25-12	12	1.25	17.50	15.00	9	5	10	19	£7.36
PLG1.25-15	15	1.25	21.25	18.75	9	5	10	19	£7.93
PLG1.25-16	16	1.25	22.50	20.00	9	5	10	19	£8.19
PLG1.25-18	18	1.25	25.00	22.50	12	5	10	19	£8.60
PLG1.25-20	20	1.25	27.50	25.00	12	5	10	19	£9.48
PLG1.25-24	24	1.25	32.50	30.00	15	6	10	19	£10.32
PLG1.25-25	25	1.25	33.75	31.35	15	6	10	19	£11.59
PLG1.25-30	30	1.25	40.00	37.50	18	8	10	19	£12.56
PLG1.25-35	35	1.25	46.25	43.75	18	8	10	19	£13.82
PLG1.25-36	36	1.25	47.50	45.00	18	8	10	19	£14.31



Parallel Axis Helical Gears

Pages 24.2-24.83

When running small number of teeth gears with a corrected PCD, you may encounter a large amount of backlash. To rectify this the centre distance may be moved closer together.

TECHNICAL

Pages 27.49 – 27.53



For non-standard Parallel and Crossed Helicals use form on page 25.0 or send a drawing or sample for a free, no-obligation quote.

Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

0.4 MOD

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	0.28	1.12	0.14	0.10
	K.W.	0.030	0.119	0.015	0.01

Helical Gears Parallel Axis Steel MOD 0.4



RH 17°45'

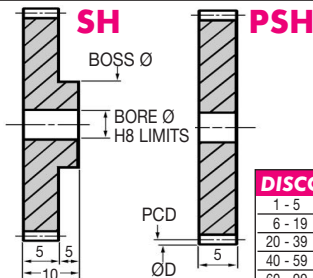


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.4-10	10	4.62	5.42	5.42	2	0.0013	0.0005	£9.96	£9.51
SH0.4-11	11	4.62	5.42	5.42	2	0.0013	0.0005	£9.97	£9.53
SH0.4-12	12	5.04	5.84	5.84	2	0.0015	0.0006	£9.99	£9.55
SH0.4-13	13	5.46	6.26	6.26	2	0.0018	0.0008	£10.01	£9.57
SH0.4-14	14	5.88	6.68	6.68	2	0.0021	0.0009	£10.02	£9.60
SH0.4-15	15	6.30	7.10	7.10	2	0.0025	0.0011	£10.04	£9.61
SH0.4-16	16	6.72	7.52	7.52	2	0.0028	0.0012	£10.07	£9.62
SH0.4-17	17	7.14	7.94	7.94	2	0.0032	0.0014	£10.08	£9.65
SH0.4-18	18	7.56	8.36	8.00	3	0.0031	0.0014	£10.09	£9.67
SH0.4-19	19	7.98	8.78	8.00	3	0.0033	0.0016	£10.12	£9.68
SH0.4-20	20	8.40	9.20	8.00	3	0.0035	0.0018	£10.15	£9.70
SH0.4-21	21	8.82	9.62	8.00	3	0.0037	0.0021	£10.19	£9.72
SH0.4-22	22	9.24	10.04	8.00	3	0.0039	0.0023	£10.19	£9.74
SH0.4-23	23	9.66	10.46	8.00	3	0.0042	0.0025	£10.22	£9.76
SH0.4-24	24	10.08	10.88	8.00	3	0.0044	0.0028	£10.24	£9.77
SH0.4-25	25	10.50	11.30	8.00	3	0.0047	0.0030	£10.28	£9.82
SH0.4-26	26	10.92	11.72	8.00	3	0.0050	0.0033	£10.30	£9.95
SH0.4-27	27	11.34	12.14	8.00	3	0.0052	0.0036	£10.32	£9.96
SH0.4-28	28	11.76	12.56	8.00	3	0.0055	0.0039	£10.35	£9.97
SH0.4-29	29	12.18	12.98	8.00	3	0.0058	0.0042	£10.42	£9.99
SH0.4-30	30	12.60	13.40	8.00	3	0.0062	0.0045	£10.43	£10.07
SH0.4-31	31	13.02	13.82	8.00	3	0.0065	0.0048	£10.47	£10.19
SH0.4-32	32	13.44	14.24	8.00	3	0.0068	0.0052	£10.54	£10.24

24.2



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SHO.4-33	33	13.86	14.66	8	3	0.0072	0.0055	£10.57	£10.30
SHO.4-34	34	14.28	15.08	8	3	0.0075	0.0059	£10.65	£10.43
SHO.4-35	35	14.70	15.50	8	3	0.0079	0.0062	£10.68	£10.57
SHO.4-36	36	15.12	15.92	8	3	0.0083	0.0066	£10.70	£10.65
SHO.4-37	37	15.54	16.34	8	3	0.0086	0.0070	£10.75	£10.75
SHO.4-38	38	15.96	16.76	12	4	0.0110	0.0072	£10.79	£10.76
SHO.4-39	39	16.38	17.18	12	4	0.0114	0.0076	£10.82	£10.80
SHO.4-40	40	16.80	17.60	12	4	0.0118	0.0080	£10.94	£10.87
SHO.4-41	41	17.22	18.02	12	4	0.0123	0.0084	£10.97	£10.95
SHO.4-42	42	17.64	18.44	12	4	0.0127	0.0089	£11.06	£10.97
SHO.4-43	43	18.06	18.86	12	4	0.0132	0.0093	£11.18	£11.06
SHO.4-44	44	18.48	19.28	12	4	0.0136	0.0098	£11.28	£11.15
SHO.4-45	45	18.90	19.70	12	4	0.0141	0.0103	£11.30	£11.18
SHO.4-46	46	19.32	20.12	12	4	0.0146	0.0107	£11.35	£11.28
SHO.4-47	47	19.74	20.54	12	4	0.0151	0.0112	£11.47	£11.33
SHO.4-48	48	20.16	20.96	12	4	0.0156	0.0117	£11.50	£11.35
SHO.4-49	49	20.58	21.38	12	4	0.0161	0.0122	£11.59	£11.47
SHO.4-50	50	21.00	21.80	12	4	0.0166	0.0128	£11.66	£11.50
SHO.4-51	51	21.42	22.22	12	4	0.0172	0.0133	£11.73	£11.59
SHO.4-52	52	21.84	22.64	12	4	0.0177	0.0139	£11.81	£11.65
SHO.4-53	53	22.26	23.06	12	4	0.0183	0.0144	£11.85	£11.70
SHO.4-54	54	22.68	23.48	12	4	0.0188	0.0150	£11.93	£11.77
SHO.4-55	55	23.10	23.90	12	4	0.0194	0.0156	£12.04	£11.84
SHO.4-56	56	23.52	24.32	12	4	0.0200	0.0161	£12.11	£11.93
SHO.4-57	57	23.94	24.74	12	4	0.0206	0.0167	£12.22	£12.09
SHO.4-58	58	24.36	25.16	12	4	0.0212	0.0174	£12.33	£12.22
SHO.4-59	59	24.78	25.58	12	4	0.0218	0.0180	£12.40	£12.33
SHO.4-60	60	25.20	26.00	12	4	0.0224	0.0186	£12.51	£12.40
SHO.4-61	61	25.62	26.42	12	4	0.0231	0.0192	£12.66	£12.51
SHO.4-62	62	26.04	26.84	12	4	0.0237	0.0199	£12.77	£12.66
SHO.4-63	63	26.46	27.26	12	4	0.0244	0.0206	£12.84	£12.77
SHO.4-64	64	26.88	27.68	12	4	0.0251	0.0212	£13.00	£12.84
SHO.4-65	65	27.30	28.10	12	4	0.0258	0.0219	£13.13	£13.02
SHO.4-68	68	28.56	29.36	12	4	0.0279	0.0240	£13.26	£13.13
SHO.4-70	70	29.40	30.20	12	4	0.0293	0.0255	£13.31	£13.26
SHO.4-72	72	30.24	31.04	12	4	0.0308	0.0270	£13.41	£13.31
SHO.4-75	75	31.50	32.30	12	4	0.0332	0.0293	£13.48	£13.46
SHO.4-77	77	32.34	33.14	12	4	0.0348	0.0309	£13.59	£13.59
SHO.4-80	80	33.60	34.40	12	5	0.0367	0.0332	£13.61	£13.70
SHO.4-84	84	35.28	36.08	12	5	0.0402	0.0367	£13.75	£13.96
SHO.4-86	86	36.12	36.92	12	5	0.0420	0.0385	£13.95	£14.25
SHO.4-88	88	36.96	37.76	12	5	0.0439	0.0403	£14.15	£14.46
SHO.4-90	90	37.80	38.60	12	5	0.0458	0.0422	£14.36	£14.73
SHO.4-96	96	40.32	41.12	12	5	0.0517	0.0481	£14.65	£15.02
SHO.4-100	100	42.00	42.80	12	5	0.0558	0.0523	£14.90	£15.33
SHO.4-120	120	50.40	51.20	12	5	0.0792	0.0756	£15.12	£15.49
SHO.4-140	140	58.80	59.60	12	5	0.1067	0.1031	£16.65	£16.90
SHO.4-150	150	63.00	63.80	12	5	0.1221	0.1185	£16.99	£17.37
SHO.4-180	180	75.60	76.40	15	6	0.1763	0.1707	£24.57	£21.32
SHO.4-200	200	84.00	84.80	15	8	0.2166	0.2110	£27.60	£23.92
SHO.4-220	220	92.40	93.20	15	8	0.2612	0.2555	£31.74	£27.60
SHO.4-250	250	105.00	105.80	20	10	0.3359	0.3302	£36.06	£31.33

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

0.5 MOD

17°45' H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	0.53	2.09	0.26	0.19
	K.W.	0.052	0.216	0.030	0.022



RH 17°45'

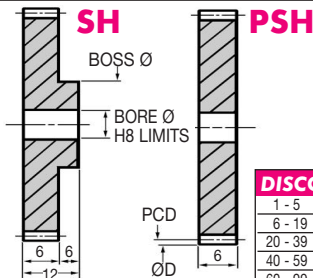


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.5-10	10	5.78	6.78	6.78	3	0.0022	0.0009	£10.65	£8.87
SH0.5-11	11	5.78	6.78	6.78	3	0.0022	0.0009	£10.68	£8.88
SH0.5-12	12	6.30	7.30	7.30	3	0.0027	0.0011	£10.70	£8.91
SH0.5-13	13	6.83	7.83	7.83	3	0.0032	0.0014	£10.79	£9.09
SH0.5-14	14	7.35	8.35	8.35	4	0.0033	0.0014	£10.94	£9.31
SH0.5-15	15	7.88	8.88	8.50	4	0.0037	0.0017	£11.06	£9.47
SH0.5-16	16	8.40	9.40	8.50	4	0.0040	0.0020	£11.28	£9.67
SH0.5-17	17	8.93	9.93	8.50	4	0.0043	0.0023	£11.33	£9.84
SH0.5-18	18	9.45	10.45	8.50	4	0.0047	0.0026	£11.47	£10.01
SH0.5-19	19	9.98	10.98	8.50	4	0.0050	0.0030	£11.59	£10.09
SH0.5-20	20	10.50	11.50	8.50	4	0.0054	0.0034	£11.73	£10.19
SH0.5-21	21	11.03	12.03	8.50	4	0.0058	0.0038	£11.85	£10.24
SH0.5-22	22	11.55	12.55	8.50	4	0.0063	0.0042	£12.06	£10.30
SH0.5-23	23	12.08	13.08	8.50	4	0.0067	0.0047	£12.16	£10.35
SH0.5-24	24	12.60	13.60	10.00	4	0.0082	0.0051	£12.33	£10.43
SH0.5-25	25	13.13	14.13	10.00	4	0.0087	0.0056	£12.44	£10.57
SH0.5-26	26	13.65	14.65	10.00	5	0.0085	0.0058	£12.65	£10.65
SH0.5-27	27	14.18	15.18	10.00	5	0.0091	0.0063	£12.77	£10.72
SH0.5-28	28	14.70	15.70	10.00	5	0.0096	0.0069	£12.93	£10.75
SH0.5-29	29	15.23	16.23	10.00	5	0.0102	0.0075	£13.00	£10.76
SH0.5-30	30	15.75	16.75	10.00	5	0.0107	0.0080	£13.03	£10.80
SH0.5-31	31	16.28	17.28	10.00	5	0.0114	0.0087	£13.19	£10.94
SH0.5-32	32	16.80	17.80	10.00	5	0.0120	0.0093	£13.31	£10.99



Helical Gears Parallel Axis Steel MOD 0.5

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.5-33	33	17.33	18.33	10	5	0.0126	0.0099	£13.48	£11.15
SH0.5-34	34	17.85	18.85	10	5	0.0133	0.0106	£13.64	£11.28
SH0.5-35	35	18.38	19.38	10	5	0.0140	0.0113	£13.77	£11.33
SH0.5-36	36	18.90	19.90	10	5	0.0147	0.0120	£13.95	£11.47
SH0.5-37	37	19.43	20.43	10	5	0.0154	0.0127	£14.05	£11.50
SH0.5-38	38	19.95	20.95	10	5	0.0162	0.0135	£14.25	£11.65
SH0.5-39	39	20.48	21.48	10	5	0.0169	0.0142	£14.36	£11.73
SH0.5-40	40	21.00	22.00	10	5	0.0177	0.0150	£14.50	£11.84
SH0.5-41	41	21.53	22.53	10	5	0.0185	0.0158	£14.67	£11.89
SH0.5-42	42	22.05	23.05	10	5	0.0193	0.0166	£14.77	£12.06
SH0.5-43	43	22.58	23.58	10	5	0.0202	0.0175	£14.96	£12.15
SH0.5-44	44	23.10	24.10	10	5	0.0210	0.0183	£15.12	£12.23
SH0.5-45	45	23.63	24.63	10	5	0.0219	0.0192	£15.23	£12.33
SH0.5-46	46	24.15	25.15	10	5	0.0228	0.0201	£15.39	£12.40
SH0.5-47	47	24.68	25.68	10	5	0.0238	0.0211	£15.49	£12.51
SH0.5-48	48	25.20	26.20	10	5	0.0247	0.0220	£15.70	£12.66
SH0.5-49	49	25.73	26.73	10	5	0.0257	0.0230	£15.83	£12.75
SH0.5-50	50	26.25	27.25	12	6	0.0274	0.0235	£15.97	£12.83
SH0.5-51	51	26.78	27.78	12	6	0.0285	0.0246	£16.13	£12.95
SH0.5-52	52	27.30	28.30	12	6	0.0295	0.0256	£16.22	£13.09
SH0.5-53	53	27.83	28.83	12	6	0.0305	0.0266	£16.35	£13.19
SH0.5-54	54	28.35	29.35	12	6	0.0316	0.0277	£16.45	£13.30
SH0.5-55	55	28.88	29.88	12	6	0.0327	0.0288	£16.56	£13.41
SH0.5-56	56	29.40	30.40	12	6	0.0338	0.0299	£16.68	£13.59
SH0.5-57	57	29.93	30.93	12	6	0.0349	0.0310	£16.77	£13.68
SH0.5-58	58	30.45	31.45	12	6	0.0360	0.0321	£16.90	£13.78
SH0.5-59	59	30.98	31.98	12	6	0.0372	0.0333	£16.95	£13.95
SH0.5-60	60	31.50	32.50	12	6	0.0384	0.0345	£17.13	£13.99
SH0.5-61	61	32.03	33.03	12	6	0.0396	0.0357	£17.26	£14.15
SH0.5-62	62	32.55	33.55	12	6	0.0408	0.0369	£17.31	£14.27
SH0.5-63	63	33.08	34.08	12	6	0.0421	0.0382	£17.38	£14.38
SH0.5-64	64	33.60	34.60	12	6	0.0433	0.0394	£17.51	£14.50
SH0.5-65	65	34.13	35.13	12	6	0.0446	0.0407	£17.67	£14.65
SH0.5-68	68	35.70	36.70	12	6	0.0486	0.0447	£17.87	£14.72
SH0.5-70	70	36.75	37.75	12	6	0.0513	0.0474	£17.98	£14.90
SH0.5-72	72	37.80	38.80	12	6	0.0541	0.0502	£18.17	£15.00
SH0.5-75	75	39.38	40.38	12	6	0.0585	0.0546	£18.30	£15.07
SH0.5-77	77	40.43	41.43	12	6	0.0615	0.0576	£18.61	£15.14
SH0.5-80	80	42.00	43.00	12	6	0.0662	0.0623	£18.71	£15.19
SH0.5-84	84	44.10	45.10	12	6	0.0727	0.0688	£18.87	£15.36
SH0.5-86	86	45.15	46.15	12	6	0.0761	0.0722	£19.07	£15.39
SH0.5-88	88	46.20	47.20	12	6	0.0796	0.0757	£19.27	£15.47
SH0.5-90	90	47.25	48.25	12	6	0.0831	0.0792	£19.42	£15.55
SH0.5-96	96	50.40	51.40	12	6	0.0942	0.0903	£19.62	£15.97
SH0.5-100	100	52.50	53.50	12	6	0.1020	0.0981	£19.72	£19.72
SH0.5-120	120	63.00	64.00	12	6	0.1457	0.1418	£23.87	£21.38
SH0.5-140	140	73.50	74.50	12	6	0.1974	0.1935	£28.55	£25.68
SH0.5-150	150	78.75	79.75	15	8	0.2262	0.2223	£31.54	£28.39
SH0.5-180	180	94.50	95.50	15	8	0.3246	0.3207	£35.08	£31.61
SH0.5-200	200	105.00	106.00	20	10	0.4002	0.3963	£38.31	£34.52
SH0.5-220	220	115.50	116.50	20	10	0.4836	0.4798	£41.82	£37.70
SH0.5-250	250	131.25	132.25	25	12	0.6238	0.6199	£45.96	£41.45

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

0.5 MOD

17°45' H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 10 - 180

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.13

Helical Gears Parallel Axis Plastic MOD 0.5



RH 17°45'

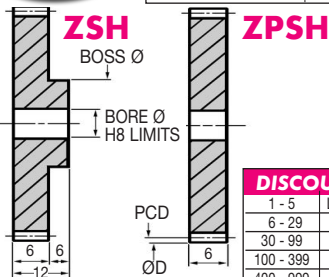


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	Discount	List Price
1 - 5		List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.5-10	10	5.78	6.78	6.78	2	0.0027	0.0011	£5.33	£4.04
ZSH0.5-11	11	5.78	6.78	6.78	2	0.0027	0.0011	£5.36	£4.07
ZSH0.5-12	12	6.30	7.30	7.00	2	0.0029	0.0013	£5.46	£4.08
ZSH0.5-13	13	6.83	7.83	7.00	2	0.0031	0.0015	£5.47	£4.09
ZSH0.5-14	14	7.35	8.35	7.00	2	0.0034	0.0018	£5.49	£4.14
ZSH0.5-15	15	7.88	8.88	7.00	2	0.0037	0.0021	£5.54	£4.24
ZSH0.5-16	16	8.40	9.40	7.00	2	0.0040	0.0024	£5.58	£4.28
ZSH0.5-17	17	8.93	9.93	8.00	2	0.0049	0.0027	£5.67	£4.32
ZSH0.5-18	18	9.45	10.45	8.00	2	0.0052	0.0031	£5.73	£4.35
ZSH0.5-19	19	9.98	10.98	9.00	3	0.0059	0.0033	£5.81	£4.44
ZSH0.5-20	20	10.50	11.50	9.00	3	0.0062	0.0037	£5.83	£4.51
ZSH0.5-21	21	11.03	12.03	9.00	3	0.0067	0.0041	£5.90	£4.56
ZSH0.5-22	22	11.55	12.55	9.00	3	0.0071	0.0045	£6.03	£4.59
ZSH0.5-23	23	12.08	13.08	10.00	3	0.0082	0.0049	£6.14	£4.62
ZSH0.5-24	24	12.60	13.60	10.00	3	0.0087	0.0054	£6.15	£4.73
ZSH0.5-25	25	13.13	14.13	10.00	3	0.0092	0.0059	£6.20	£4.75
ZSH0.5-26	26	13.65	14.65	10.00	3	0.0097	0.0064	£6.32	£4.79
ZSH0.5-27	27	14.18	15.18	10.00	3	0.0102	0.0069	£6.38	£4.85
ZSH0.5-28	28	14.70	15.70	10.00	3	0.0107	0.0075	£6.44	£4.96
ZSH0.5-29	29	15.23	16.23	10.00	3	0.0113	0.0080	£6.50	£4.97
ZSH0.5-30	30	15.75	16.75	12.00	4	0.0130	0.0084	£6.50	£4.99
ZSH0.5-31	31	16.28	17.28	12.00	4	0.0136	0.0090	£6.65	£5.06
ZSH0.5-32	32	16.80	17.80	12.00	4	0.0142	0.0096	£6.68	£5.09

24.6



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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.5-33	33	17.33	18.33	12	4	0.0149	0.0103	£6.75	£5.19
ZSH0.5-34	34	17.85	18.85	12	4	0.0155	0.0109	£6.77	£5.22
ZSH0.5-35	35	18.38	19.38	12	4	0.0162	0.0116	£6.87	£5.23
ZSH0.5-36	36	18.90	19.90	12	4	0.0169	0.0123	£6.87	£5.25
ZSH0.5-40	40	21.00	22.00	12	4	0.0199	0.0153	£7.02	£5.33
ZSH0.5-41	41	21.53	22.53	12	4	0.0208	0.0161	£7.10	£5.48
ZSH0.5-42	42	22.05	23.05	12	4	0.0216	0.0170	£7.27	£5.52
ZSH0.5-43	43	22.58	23.58	12	4	0.0224	0.0178	£7.28	£5.54
ZSH0.5-44	44	23.10	24.10	12	4	0.0233	0.0187	£7.36	£5.58
ZSH0.5-45	45	23.63	24.63	12	4	0.0242	0.0196	£7.40	£5.67
ZSH0.5-46	46	24.15	25.15	12	4	0.0251	0.0205	£7.45	£5.73
ZSH0.5-47	47	24.68	25.68	12	4	0.0260	0.0214	£7.63	£5.81
ZSH0.5-48	48	25.20	26.20	12	4	0.0269	0.0223	£7.64	£5.83
ZSH0.5-49	49	25.73	26.73	12	4	0.0279	0.0233	£7.73	£5.90
ZSH0.5-50	50	26.25	27.25	12	4	0.0289	0.0243	£7.75	£5.95
ZSH0.5-51	51	26.78	27.78	12	4	0.0299	0.0253	£7.87	£6.03
ZSH0.5-52	52	27.30	28.30	12	4	0.0309	0.0263	£7.94	£6.06
ZSH0.5-53	53	27.83	28.83	14	4	0.0338	0.0274	£8.02	£6.14
ZSH0.5-54	54	28.35	29.35	14	4	0.0349	0.0284	£8.10	£6.15
ZSH0.5-55	55	28.88	29.88	14	4	0.0360	0.0295	£8.12	£6.20
ZSH0.5-56	56	29.40	30.40	14	4	0.0371	0.0306	£8.18	£6.30
ZSH0.5-57	57	29.93	30.93	14	4	0.0382	0.0317	£8.20	£6.32
ZSH0.5-58	58	30.45	31.45	14	4	0.0393	0.0329	£8.29	£6.38
ZSH0.5-59	59	30.98	31.98	14	4	0.0405	0.0340	£8.38	£6.40
ZSH0.5-60	60	31.50	32.50	14	4	0.0417	0.0352	£9.26	£7.04
ZSH0.5-61	61	32.03	33.03	14	4	0.0429	0.0364	£9.30	£7.10
ZSH0.5-62	62	32.55	33.55	14	4	0.0441	0.0376	£9.32	£7.14
ZSH0.5-63	63	33.08	34.08	14	4	0.0454	0.0389	£9.47	£7.20
ZSH0.5-64	64	33.60	34.60	14	4	0.0466	0.0401	£9.51	£7.28
ZSH0.5-65	65	34.13	35.13	14	4	0.0479	0.0414	£9.55	£7.36
ZSH0.5-68	68	35.70	36.70	14	4	0.0519	0.0454	£9.60	£7.37
ZSH0.5-70	70	36.75	37.75	14	4	0.0546	0.0481	£9.65	£7.38
ZSH0.5-72	72	37.80	38.80	14	4	0.0574	0.0509	£9.76	£7.45
ZSH0.5-75	75	39.38	40.38	14	4	0.0618	0.0553	£9.86	£7.49
ZSH0.5-77	77	40.43	41.43	16	5	0.0664	0.0580	£9.93	£7.64
ZSH0.5-80	80	42.00	43.00	16	5	0.0710	0.0627	£10.04	£7.72
ZSH0.5-84	84	44.10	45.10	16	5	0.0776	0.0692	£11.51	£8.81
ZSH0.5-86	86	45.15	46.15	16	5	0.0809	0.0726	£11.67	£8.93
ZSH0.5-88	88	46.20	47.20	16	5	0.0844	0.0761	£11.76	£8.96
ZSH0.5-90	90	47.25	48.25	16	5	0.0879	0.0796	£11.85	£9.08
ZSH0.5-96	96	50.40	51.40	16	5	0.0990	0.0907	£11.96	£9.20
ZSH0.5-100	100	52.50	53.50	16	5	0.1068	0.0985	£12.08	£9.26
ZSH0.5-120	120	63.00	64.00	16	6	0.1506	0.1422	£12.22	£9.32
ZSH0.5-140	140	73.50	74.50	16	6	0.2022	0.1939	£12.34	£9.47
ZSH0.5-150	150	78.75	79.75	16	8	0.2311	0.2227	£12.39	£9.51
ZSH0.5-180	180	94.50	95.50	16	8	0.3295	0.3211	£18.04	£13.78

Helical Gears Parallel Axis Plastic MOD 0.5

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

0.7 MOD

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 200

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations	TORQUE Nm.	1.73	6.83	0.86	0.62
at back	K.W.	0.179	0.716	0.090	0.067



RH 17°45'

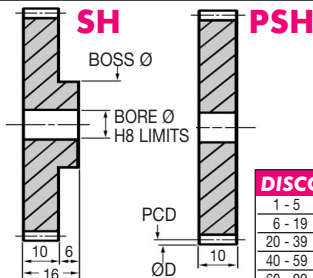


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.7-9	9	7.35	8.75	8.75	4	0.004	0.002	£11.93	£9.94
SH0.7-10	10	7.35	8.75	8.75	4	0.004	0.002	£11.96	£9.95
SH0.7-11	11	8.09	9.49	9.49	5	0.005	0.002	£12.04	£9.96
SH0.7-12	12	8.82	10.22	10.22	5	0.006	0.003	£12.04	£9.97
SH0.7-13	13	9.56	10.96	10.96	5	0.007	0.004	£12.29	£10.24
SH0.7-14	14	10.29	11.69	11.69	5	0.009	0.005	£12.51	£10.42
SH0.7-15	15	11.03	12.43	11.90	5	0.010	0.006	£12.83	£10.72
SH0.7-16	16	11.76	13.16	12.00	5	0.011	0.007	£13.14	£10.95
SH0.7-17	17	12.50	13.90	12.00	5	0.012	0.008	£13.59	£11.30
SH0.7-18	18	13.23	14.63	12.00	5	0.013	0.009	£13.92	£11.50
SH0.7-19	19	13.97	15.37	12.00	5	0.015	0.010	£13.98	£11.66
SH0.7-20	20	14.70	16.10	12.00	5	0.016	0.011	£14.15	£11.77
SH0.7-21	21	15.44	16.84	12.00	5	0.017	0.013	£14.32	£11.85
SH0.7-22	22	16.17	17.57	12.00	5	0.019	0.014	£14.44	£12.06
SH0.7-23	23	16.91	18.31	12.00	5	0.020	0.016	£14.64	£12.15
SH0.7-24	24	17.64	19.04	12.00	5	0.021	0.017	£14.72	£12.23
SH0.7-25	25	18.38	19.78	12.00	5	0.023	0.019	£14.90	£12.39
SH0.7-26	26	19.11	20.51	12.00	5	0.025	0.020	£15.02	£12.50
SH0.7-27	27	19.85	21.25	12.00	5	0.026	0.022	£15.18	£12.65
SH0.7-28	28	20.58	21.98	12.00	5	0.028	0.024	£15.23	£12.69
SH0.7-29	29	21.32	22.72	12.00	5	0.030	0.026	£15.38	£12.78
SH0.7-30	30	22.05	23.45	12.00	5	0.032	0.028	£15.45	£12.84
SH0.7-31	31	22.79	24.19	12.00	5	0.034	0.030	£15.47	£12.93

24.8



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Helical Gears Parallel Axis Steel MOD 0.7

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SHO.7-32	32	23.52	24.92	12	5	0.036	0.032	£15.49	£12.95
SHO.7-33	33	24.26	25.66	16	5	0.042	0.034	£15.55	£13.00
SHO.7-34	34	24.99	26.39	16	6	0.043	0.035	£15.61	£13.01
SHO.7-35	35	25.73	27.13	16	6	0.046	0.038	£15.65	£13.02
SHO.7-36	36	26.46	27.86	16	6	0.048	0.040	£15.70	£13.03
SHO.7-37	37	27.20	28.60	16	6	0.050	0.042	£15.76	£13.09
SHO.7-38	38	27.93	29.33	16	6	0.053	0.045	£15.77	£13.13
SHO.7-39	39	28.67	30.07	16	6	0.055	0.047	£15.82	£13.14
SHO.7-40	40	29.40	30.80	16	6	0.058	0.050	£15.83	£13.18
SHO.7-41	41	30.14	31.54	16	6	0.060	0.052	£15.87	£13.19
SHO.7-42	42	30.87	32.27	16	6	0.063	0.055	£15.90	£13.26
SHO.7-43	43	31.61	33.01	16	6	0.066	0.058	£15.93	£13.27
SHO.7-44	44	32.34	33.74	16	6	0.069	0.061	£15.95	£13.30
SHO.7-45	45	33.08	34.48	16	6	0.072	0.064	£15.97	£13.31
SHO.7-46	46	33.81	35.21	16	6	0.074	0.067	£16.12	£13.37
SHO.7-47	47	34.55	35.95	16	6	0.078	0.070	£16.13	£13.41
SHO.7-48	48	35.28	36.68	16	6	0.081	0.073	£16.19	£13.48
SHO.7-49	49	36.02	37.42	16	6	0.084	0.076	£16.24	£13.54
SHO.7-50	50	36.75	38.15	16	6	0.087	0.079	£16.35	£13.61
SHO.7-51	51	37.49	38.89	16	6	0.090	0.082	£16.44	£13.68
SHO.7-52	52	38.22	39.62	16	6	0.094	0.086	£16.48	£13.70
SHO.7-53	53	38.96	40.36	16	6	0.097	0.089	£16.56	£13.77
SHO.7-54	54	39.69	41.09	16	6	0.100	0.093	£16.65	£13.92
SHO.7-55	55	40.43	41.83	16	6	0.104	0.096	£16.72	£13.93
SHO.7-56	56	41.16	42.56	16	6	0.108	0.100	£16.77	£13.96
SHO.7-57	57	41.90	43.30	16	6	0.111	0.103	£16.83	£13.99
SHO.7-58	58	42.63	44.03	16	6	0.115	0.107	£16.92	£14.05
SHO.7-59	59	43.37	44.77	16	6	0.119	0.111	£16.95	£14.15
SHO.7-60	60	44.10	45.50	16	6	0.123	0.115	£17.13	£14.25
SHO.7-61	61	44.84	46.24	16	6	0.127	0.119	£17.18	£14.27
SHO.7-62	62	45.57	46.97	16	6	0.131	0.123	£17.26	£14.33
SHO.7-63	63	46.31	47.71	16	6	0.135	0.127	£17.29	£14.38
SHO.7-64	64	47.04	48.44	16	6	0.139	0.131	£17.34	£14.44
SHO.7-66	66	48.51	49.91	16	8	0.145	0.138	£17.38	£14.50
SHO.7-68	68	49.98	51.38	16	8	0.153	0.146	£17.51	£14.65
SHO.7-70	70	51.45	52.85	16	8	0.162	0.155	£17.81	£14.77
SHO.7-75	75	55.13	56.63	16	8	0.186	0.179	£18.18	£15.18
SHO.7-76	76	55.86	57.26	16	8	0.191	0.184	£18.71	£15.55
SHO.7-80	80	58.80	60.20	16	8	0.211	0.204	£19.00	£15.82
SHO.7-86	86	63.21	64.61	16	8	0.243	0.236	£19.33	£15.83
SHO.7-88	88	64.68	66.08	16	8	0.255	0.248	£19.72	£16.45
SHO.7-90	90	66.15	67.55	16	8	0.266	0.259	£20.08	£16.68
SHO.7-96	96	70.56	71.96	16	8	0.302	0.295	£21.97	£18.29
SHO.7-100	100	73.50	74.90	16	8	0.328	0.321	£25.52	£21.23
SHO.7-112	112	82.32	83.72	20	8	0.416	0.403	£29.01	£24.16
SHO.7-120	120	88.20	89.60	20	8	0.476	0.464	£34.84	£29.05
SHO.7-127	127	93.35	94.75	20	8	0.532	0.520	£35.73	£29.79
SHO.7-128	128	94.08	95.48	20	8	0.540	0.528	£36.45	£30.38
SHO.7-140	140	102.63	104.30	20	10	0.641	0.629	£39.69	£33.06
SHO.7-150	150	110.25	111.65	25	10	0.747	0.727	£43.04	£35.88
SHO.7-175	175	128.63	130.03	30	15	1.011	0.991	£49.63	£41.32
SHO.7-200	200	147.00	148.40	30	15	1.315	1.295	£55.10	£45.92

Helical Gears Parallel Axis Steel MOD 0.7

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.7-32	32	23.52	24.92	14	4	0.0334	0.0258	£7.75	£5.91
ZSH0.7-33	33	24.26	25.66	14	4	0.0351	0.0275	£7.76	£5.95
ZSH0.7-34	34	24.99	26.39	14	4	0.0368	0.0293	£7.80	£6.01
ZSH0.7-35	35	25.73	27.13	14	4	0.0386	0.0311	£7.81	£6.02
ZSH0.7-36	36	26.46	27.86	14	4	0.0405	0.0329	£7.82	£6.03
ZSH0.7-37	37	27.20	28.60	14	4	0.0424	0.0348	£7.83	£6.04
ZSH0.7-38	38	27.93	29.33	14	4	0.0443	0.0367	£7.87	£6.06
ZSH0.7-39	39	28.67	30.07	16	5	0.0480	0.0383	£8.67	£6.66
ZSH0.7-40	40	29.40	30.80	16	5	0.0501	0.0404	£8.73	£6.68
ZSH0.7-41	41	30.14	31.54	16	5	0.0522	0.0425	£8.73	£6.69
ZSH0.7-42	42	30.87	32.27	16	5	0.0543	0.0446	£8.77	£6.70
ZSH0.7-43	43	31.61	33.01	16	5	0.0566	0.0468	£8.78	£6.71
ZSH0.7-44	44	32.34	33.74	16	5	0.0588	0.0491	£8.81	£6.72
ZSH0.7-45	45	33.08	34.48	16	5	0.0611	0.0514	£8.84	£6.75
ZSH0.7-46	46	33.81	35.21	16	5	0.0635	0.0538	£8.88	£6.76
ZSH0.7-47	47	34.55	35.95	16	5	0.0659	0.0562	£8.91	£6.77
ZSH0.7-48	48	35.28	36.68	16	5	0.0684	0.0586	£8.93	£6.81
ZSH0.7-49	49	36.02	37.42	16	5	0.0709	0.0612	£8.96	£6.87
ZSH0.7-50	50	36.75	38.15	16	5	0.0735	0.0637	£9.03	£6.94
ZSH0.7-51	51	37.49	38.89	16	5	0.0761	0.0664	£9.04	£6.95
ZSH0.7-52	52	38.22	39.62	16	5	0.0787	0.0690	£9.08	£6.99
ZSH0.7-53	53	38.96	40.36	16	5	0.0815	0.0718	£10.42	£7.94
ZSH0.7-54	54	39.69	41.09	16	5	0.0843	0.0745	£10.46	£7.99
ZSH0.7-55	55	40.43	41.83	16	5	0.0871	0.0774	£10.50	£8.02
ZSH0.7-56	56	41.16	42.56	16	5	0.0900	0.0803	£10.54	£8.08
ZSH0.7-57	57	41.90	43.30	16	5	0.0929	0.0832	£10.54	£8.10
ZSH0.7-58	58	42.63	44.03	16	5	0.0959	0.0862	£10.62	£8.11
ZSH0.7-59	59	43.37	44.77	16	5	0.0990	0.0892	£10.65	£8.12
ZSH0.7-60	60	44.10	45.50	16	5	0.1020	0.0923	£10.76	£8.19
ZSH0.7-61	61	44.84	46.24	16	5	0.1052	0.0955	£10.77	£8.20
ZSH0.7-62	62	45.57	46.97	16	5	0.1084	0.0986	£10.79	£8.29
ZSH0.7-63	63	46.31	47.71	16	5	0.1116	0.1019	£10.87	£8.32
ZSH0.7-64	64	47.04	48.44	16	5	0.1149	0.1052	£10.94	£8.35
ZSH0.7-66	66	48.51	49.91	16	5	0.1217	0.1119	£10.97	£8.38
ZSH0.7-68	68	49.98	51.38	18	6	0.1305	0.1184	£13.27	£10.12
ZSH0.7-70	70	51.45	52.85	18	6	0.1377	0.1255	£13.41	£10.30
ZSH0.7-75	75	55.13	56.63	18	6	0.1565	0.1444	£13.75	£10.50
ZSH0.7-76	76	55.86	57.26	18	6	0.1604	0.1483	£14.13	£10.79
ZSH0.7-80	80	58.80	60.20	18	6	0.1766	0.1645	£16.25	£12.44
ZSH0.7-86	86	63.21	64.61	18	6	0.2025	0.1904	£16.56	£12.68
ZSH0.7-88	88	64.68	66.08	18	6	0.2115	0.1994	£16.92	£12.94
ZSH0.7-90	90	66.15	67.55	18	6	0.2208	0.2087	£17.18	£13.18
ZSH0.7-96	96	70.56	71.96	18	6	0.2498	0.2376	£18.84	£14.38
ZSH0.7-100	100	73.50	74.90	18	6	0.2701	0.2580	£21.91	£16.77
ZSH0.7-112	112	82.32	83.72	18	8	0.3362	0.3241	£26.32	£20.15
ZSH0.7-120	120	88.20	89.60	18	8	0.3844	0.3723	£31.62	£24.24

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

0.8 MOD

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 200

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations	TORQUE Nm.	2.25	8.92	1.13	0.81
at back	K.W.	0.24	0.933	0.119	0.082



RH 17°45'

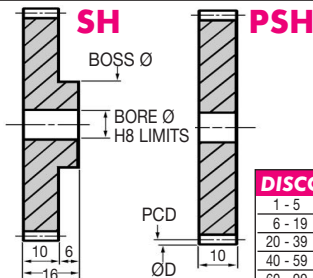


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.8-9	9	8.40	10.00	10.00	5	0.005	0.003	£11.93	£9.96
SH0.8-10	10	8.40	10.00	10.00	5	0.005	0.003	£11.96	£9.97
SH0.8-11	11	9.24	10.84	10.84	5	0.007	0.004	£12.04	£9.99
SH0.8-12	12	10.08	11.68	11.68	5	0.010	0.006	£12.04	£10.01
SH0.8-13	13	10.92	12.52	12.00	5	0.010	0.006	£12.29	£10.19
SH0.8-14	14	11.76	13.36	12.00	5	0.011	0.007	£12.51	£10.28
SH0.8-15	15	12.60	14.20	12.00	5	0.012	0.008	£12.83	£10.42
SH0.8-16	16	13.44	15.04	12.00	5	0.014	0.009	£13.14	£10.57
SH0.8-17	17	14.28	15.88	12.00	5	0.015	0.011	£13.59	£10.72
SH0.8-18	18	15.12	16.72	12.00	5	0.017	0.012	£13.92	£10.80
SH0.8-19	19	15.96	17.56	12.00	5	0.018	0.014	£13.98	£10.94
SH0.8-20	20	16.80	18.40	12.00	5	0.020	0.015	£14.15	£10.99
SH0.8-21	21	17.64	19.24	12.00	5	0.021	0.017	£14.32	£11.15
SH0.8-22	22	18.48	20.08	12.00	5	0.023	0.019	£14.44	£11.28
SH0.8-23	23	19.32	20.92	12.00	5	0.025	0.021	£14.64	£11.33
SH0.8-24	24	20.16	21.76	12.00	5	0.027	0.023	£14.72	£11.47
SH0.8-25	25	21.00	22.60	12.00	5	0.029	0.025	£14.90	£11.53
SH0.8-26	26	21.84	23.44	12.00	5	0.031	0.027	£15.02	£11.66
SH0.8-27	27	22.68	24.28	12.00	5	0.034	0.029	£15.18	£11.73
SH0.8-28	28	23.52	25.12	12.00	5	0.036	0.032	£15.23	£11.84
SH0.8-29	29	24.36	25.96	16.00	6	0.041	0.034	£15.38	£11.93
SH0.8-30	30	25.20	26.80	16.00	6	0.044	0.036	£15.45	£12.09
SH0.8-31	31	26.04	27.64	16.00	6	0.047	0.039	£15.47	£12.22

24.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Helical Gears Parallel Axis Steel MOD 0.8

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.8-32	32	26.88	28.48	16	6	0.049	0.041	£15.49	£12.33
SH0.8-33	33	27.72	29.32	16	6	0.052	0.044	£15.55	£12.44
SH0.8-34	34	28.56	30.16	16	6	0.055	0.047	£15.61	£12.65
SH0.8-35	35	29.40	31.00	16	6	0.058	0.050	£15.65	£12.77
SH0.8-36	36	30.24	31.84	16	6	0.061	0.053	£15.70	£12.84
SH0.8-37	37	31.08	32.68	16	6	0.064	0.056	£15.76	£13.02
SH0.8-38	38	31.92	33.52	16	6	0.067	0.059	£15.77	£13.14
SH0.8-39	39	32.76	34.36	16	6	0.070	0.062	£15.82	£13.27
SH0.8-40	40	33.60	35.20	16	6	0.074	0.066	£15.83	£13.41
SH0.8-41	41	34.44	36.04	16	6	0.077	0.069	£15.87	£13.59
SH0.8-42	42	35.28	36.88	16	6	0.081	0.073	£15.90	£13.68
SH0.8-43	43	36.12	37.72	16	6	0.084	0.076	£15.93	£13.82
SH0.8-44	44	36.96	38.56	16	6	0.088	0.080	£15.95	£13.96
SH0.8-45	45	37.80	39.40	16	6	0.092	0.084	£15.97	£14.08
SH0.8-46	46	38.64	40.24	16	6	0.096	0.088	£16.12	£14.25
SH0.8-47	47	39.48	41.08	16	6	0.099	0.092	£16.13	£14.36
SH0.8-48	48	40.32	41.92	16	6	0.103	0.096	£16.19	£14.50
SH0.8-49	49	41.16	42.76	16	6	0.108	0.100	£16.22	£14.65
SH0.8-50	50	42.00	43.60	16	6	0.112	0.104	£16.24	£14.73
SH0.8-51	51	42.84	44.44	16	6	0.116	0.108	£16.35	£14.90
SH0.8-52	52	43.68	45.28	16	6	0.120	0.113	£16.44	£15.00
SH0.8-53	53	44.52	46.12	16	6	0.125	0.117	£16.48	£15.12
SH0.8-54	54	45.36	46.96	16	6	0.129	0.121	£16.56	£15.19
SH0.8-55	55	46.20	47.80	16	6	0.134	0.126	£16.65	£15.36
SH0.8-56	56	47.04	48.64	16	6	0.139	0.131	£16.72	£15.41
SH0.8-57	57	47.88	49.48	16	8	0.141	0.134	£16.77	£15.49
SH0.8-58	58	48.72	50.32	16	8	0.146	0.139	£16.83	£15.65
SH0.8-59	59	49.56	51.16	16	8	0.151	0.144	£16.92	£15.77
SH0.8-60	60	50.40	52.00	16	8	0.156	0.149	£16.95	£15.87
SH0.8-61	61	51.24	52.84	16	8	0.161	0.154	£17.13	£15.95
SH0.8-62	62	52.08	53.68	16	8	0.166	0.159	£17.18	£16.12
SH0.8-63	63	52.92	54.52	16	8	0.171	0.164	£17.26	£16.19
SH0.8-64	64	53.76	55.36	16	8	0.177	0.170	£17.29	£16.27
SH0.8-66	66	55.44	57.04	16	8	0.188	0.181	£17.34	£16.44
SH0.8-68	68	57.12	58.72	16	8	0.199	0.192	£17.38	£16.49
SH0.8-70	70	58.80	60.40	16	8	0.211	0.204	£17.51	£16.65
SH0.8-75	75	63.00	64.60	16	8	0.242	0.235	£17.81	£17.13
SH0.8-76	76	63.84	65.44	16	8	0.248	0.241	£18.18	£17.51
SH0.8-80	80	67.20	68.80	16	8	0.274	0.268	£18.71	£17.98
SH0.8-86	86	72.24	73.84	16	8	0.317	0.310	£19.00	£18.40
SH0.8-88	88	73.92	75.52	16	8	0.331	0.325	£19.33	£18.87
SH0.8-90	90	75.60	77.20	20	8	0.352	0.340	£19.72	£19.33
SH0.8-96	96	80.64	82.24	20	8	0.399	0.387	£20.08	£19.73
SH0.8-100	100	84.00	85.60	20	8	0.432	0.420	£21.97	£20.20
SH0.8-112	112	94.08	95.68	20	8	0.540	0.528	£25.52	£21.84
SH0.8-120	120	100.80	102.40	20	10	0.619	0.607	£29.01	£25.22
SH0.8-127	127	106.68	108.28	20	10	0.692	0.680	£34.84	£26.20
SH0.8-128	128	107.52	109.12	20	10	0.703	0.691	£35.97	£29.93
SH0.8-140	140	117.60	119.20	20	10	0.839	0.827	£38.02	£31.62
SH0.8-150	150	126.00	127.60	30	12	0.962	0.950	£43.96	£36.60
SH0.8-175	175	147.00	148.60	30	12	1.307	1.295	£55.84	£46.54
SH0.8-200	200	168.00	169.60	40	15	1.705	1.692	£62.64	£52.19

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

0.8 MOD

17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 140



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.50

Helical Gears Parallel Axis Plastic MOD 0.8



RH 17°45'

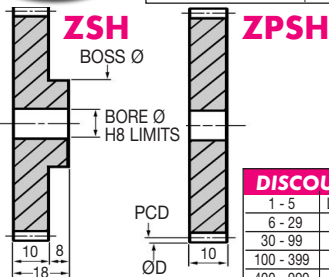


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	Discount	List Price
1 - 5		List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.8-9	9	8.40	10.00	10.00	3	0.0116	0.0037	£5.87	£4.53
ZSH0.8-10	10	8.40	10.00	10.00	3	0.0116	0.0037	£5.91	£4.54
ZSH0.8-11	11	9.24	10.84	10.84	3	0.0120	0.0046	£6.01	£4.56
ZSH0.8-12	12	10.80	11.68	11.68	3	0.0126	0.0065	£6.03	£4.57
ZSH0.8-13	13	10.92	12.52	12.52	3	0.0137	0.0066	£6.15	£4.59
ZSH0.8-14	14	11.76	13.36	13.36	3	0.0159	0.0078	£6.30	£4.79
ZSH0.8-15	15	12.60	14.20	14.20	3	0.0183	0.0090	£6.40	£4.85
ZSH0.8-16	16	13.44	15.04	15.04	3	0.0208	0.0103	£6.54	£5.06
ZSH0.8-17	17	14.28	15.88	15.88	3	0.0234	0.0117	£6.77	£5.22
ZSH0.8-18	18	15.12	16.72	14.00	4	0.0214	0.0128	£6.95	£5.30
ZSH0.8-19	19	15.96	17.56	14.00	4	0.0230	0.0143	£7.02	£5.33
ZSH0.8-20	20	16.80	18.40	14.00	4	0.0247	0.0160	£7.04	£5.46
ZSH0.8-21	21	17.64	19.24	14.00	4	0.0264	0.0177	£7.14	£5.48
ZSH0.8-22	22	18.48	20.08	14.00	4	0.0282	0.0196	£7.28	£5.52
ZSH0.8-23	23	19.32	20.92	14.00	4	0.0301	0.0215	£7.36	£5.55
ZSH0.8-24	24	20.16	21.76	14.00	4	0.0321	0.0235	£7.38	£5.58
ZSH0.8-25	25	21.00	22.60	14.00	4	0.0342	0.0255	£7.45	£5.73
ZSH0.8-26	26	21.84	23.44	14.00	4	0.0364	0.0277	£7.49	£5.79
ZSH0.8-27	27	22.68	24.28	14.00	4	0.0386	0.0300	£7.63	£5.81
ZSH0.8-28	28	23.52	25.12	14.00	4	0.0409	0.0323	£7.64	£5.82
ZSH0.8-29	29	24.36	25.96	14.00	4	0.0434	0.0347	£7.72	£5.83
ZSH0.8-30	30	25.20	26.80	16.00	5	0.0478	0.0367	£7.73	£5.85
ZSH0.8-31	31	26.04	27.64	16.00	5	0.0504	0.0393	£7.74	£5.90

24.14



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.8-32	32	26.88	28.48	16	5	0.0530	0.0419	£7.75	£5.91
ZSH0.8-33	33	27.72	29.32	16	5	0.0558	0.0447	£7.76	£5.95
ZSH0.8-34	34	28.56	30.16	16	5	0.0586	0.0475	£8.62	£6.61
ZSH0.8-35	35	29.40	31.00	16	5	0.0616	0.0504	£8.63	£6.63
ZSH0.8-36	36	30.24	31.84	16	5	0.0646	0.0535	£8.66	£6.64
ZSH0.8-37	37	31.08	32.68	16	5	0.0677	0.0566	£8.67	£6.65
ZSH0.8-38	38	31.92	33.52	16	5	0.0708	0.0597	£8.73	£6.66
ZSH0.8-39	39	32.76	34.36	16	5	0.0741	0.0630	£8.73	£6.68
ZSH0.8-40	40	33.60	35.20	16	5	0.0775	0.0663	£8.76	£6.69
ZSH0.8-41	41	34.44	36.04	16	5	0.0809	0.0698	£8.77	£6.70
ZSH0.8-42	42	35.28	36.88	16	5	0.0844	0.0733	£8.78	£6.70
ZSH0.8-43	43	36.12	37.72	16	5	0.0880	0.0769	£8.81	£6.72
ZSH0.8-44	44	36.96	38.56	16	5	0.0917	0.0806	£8.83	£6.75
ZSH0.8-45	45	37.80	39.40	16	5	0.0955	0.0844	£8.84	£6.76
ZSH0.8-46	46	38.64	40.24	16	5	0.0993	0.0882	£10.09	£7.45
ZSH0.8-47	47	39.48	41.08	16	5	0.1033	0.0922	£10.12	£7.74
ZSH0.8-48	48	40.32	41.92	16	5	0.1073	0.0962	£10.15	£7.75
ZSH0.8-49	49	41.16	42.76	16	5	0.1114	0.1003	£10.19	£7.82
ZSH0.8-50	50	42.00	43.60	16	5	0.1156	0.1045	£10.19	£7.83
ZSH0.8-51	51	42.84	44.44	16	5	0.1199	0.1088	£10.25	£7.87
ZSH0.8-52	52	43.68	45.28	16	5	0.1243	0.1132	£10.30	£7.94
ZSH0.8-53	53	44.52	46.12	16	5	0.1287	0.1176	£10.36	£7.99
ZSH0.8-54	54	45.36	46.96	16	5	0.1333	0.1222	£10.42	£8.01
ZSH0.8-55	55	46.20	47.80	18	6	0.1400	0.1261	£10.46	£8.02
ZSH0.8-56	56	47.04	48.64	18	6	0.1447	0.1308	£10.50	£8.10
ZSH0.8-57	57	47.88	49.48	18	6	0.1495	0.1356	£10.54	£9.72
ZSH0.8-58	58	48.72	50.32	18	6	0.1543	0.1405	£12.75	£9.74
ZSH0.8-59	59	49.56	51.16	18	6	0.1593	0.1455	£12.77	£9.76
ZSH0.8-60	60	50.40	52.00	18	6	0.1643	0.1505	£12.78	£9.77
ZSH0.8-61	61	51.24	52.84	18	6	0.1695	0.1556	£12.94	£9.86
ZSH0.8-62	62	52.08	53.68	18	6	0.1747	0.1608	£13.02	£9.93
ZSH0.8-63	63	52.92	54.52	18	6	0.1800	0.1661	£13.03	£9.95
ZSH0.8-64	64	53.76	55.36	18	6	0.1854	0.1715	£13.04	£10.01
ZSH0.8-66	66	55.44	57.04	18	6	0.1964	0.1826	£13.05	£10.02
ZSH0.8-68	68	57.12	58.72	18	6	0.2078	0.1939	£13.13	£10.04
ZSH0.8-70	70	58.80	60.40	18	6	0.2195	0.2056	£15.02	£11.49
ZSH0.8-75	75	63.00	64.60	18	6	0.2502	0.2364	£15.23	£11.67
ZSH0.8-76	76	63.84	65.44	18	6	0.2566	0.2428	£15.60	£11.91
ZSH0.8-80	80	67.20	68.80	18	6	0.2831	0.2692	£16.04	£12.16
ZSH0.8-86	86	72.24	73.84	18	6	0.3253	0.3115	£16.25	£12.44
ZSH0.8-88	88	73.92	75.52	22	6	0.3478	0.3262	£17.52	£13.41
ZSH0.8-90	90	75.60	77.20	22	6	0.3629	0.3413	£17.88	£13.68
ZSH0.8-96	96	80.64	82.24	22	8	0.4102	0.3887	£18.18	£13.95
ZSH0.8-100	100	84.00	85.60	22	8	0.4434	0.4219	£19.95	£15.23
ZSH0.8-112	112	94.08	95.68	22	8	0.5513	0.5298	£25.79	£19.76
ZSH0.8-120	120	100.80	102.40	30	10	0.6300	0.6085	£32.25	£24.73
ZSH0.8-140	140	117.60	119.20	30	10	0.8505	0.8290	£40.39	£32.90

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

1 MOD

17°45'H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 150

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	4.23	16.74	2.12	1.51
	K.W.	0.44	1.75	0.22	0.15



RH 17°45'

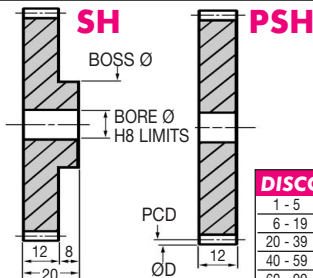


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							SH	PSH	
SH1-9	9	10.50	12.50	12	6	0.011	0.005	£10.62	£9.94
SH1-10	10	10.50	12.50	12	6	0.011	0.005	£10.65	£9.95
SH1-11	11	11.55	13.55	12	6	0.012	0.007	£10.68	£9.96
SH1-12	12	12.60	14.60	12	6	0.014	0.009	£10.70	£9.97
SH1-13	13	13.65	15.65	12	6	0.016	0.011	£10.80	£10.24
SH1-14	14	14.70	16.70	12	6	0.018	0.013	£10.99	£10.43
SH1-15	15	15.75	17.75	12	6	0.020	0.015	£11.28	£10.75
SH1-16	16	16.80	18.80	15	8	0.023	0.016	£11.47	£10.94
SH1-17	17	17.85	19.85	15	8	0.026	0.018	£11.65	£11.20
SH1-18	18	18.90	20.90	15	8	0.029	0.021	£11.85	£11.47
SH1-19	19	19.95	21.95	15	8	0.032	0.024	£12.09	£11.66
SH1-20	20	21.00	23.00	15	8	0.035	0.027	£12.44	£11.89
SH1-21	21	22.05	24.05	15	8	0.038	0.030	£12.56	£12.15
SH1-22	22	23.10	25.10	15	8	0.042	0.034	£12.69	£12.34
SH1-23	23	24.15	26.15	15	8	0.045	0.037	£12.77	£12.56
SH1-24	24	25.20	27.20	15	8	0.049	0.041	£12.84	£12.83
SH1-25	25	26.25	28.25	15	8	0.053	0.045	£13.37	£13.03
SH1-26	26	27.30	29.30	15	8	0.057	0.049	£13.92	£13.27
SH1-27	27	28.35	30.35	15	8	0.061	0.053	£14.15	£13.48
SH1-28	28	29.40	31.40	15	8	0.065	0.058	£14.46	£13.75
SH1-29	29	30.45	32.45	15	8	0.070	0.062	£14.82	£13.96
SH1-30	30	31.50	33.50	20	8	0.083	0.067	£15.12	£14.20
SH1-31	31	32.55	34.55	20	8	0.088	0.072	£15.33	£14.33

Helical Gears Parallel Axis Steel MOD 1

24.16



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH1-32	32	33.60	35.50	20	8	0.093	0.077	£15.45	£14.46
SH1-33	33	34.65	36.65	20	8	0.098	0.082	£15.65	£14.65
SH1-34	34	35.70	37.70	20	8	0.103	0.087	£15.83	£14.73
SH1-35	35	36.75	38.75	20	8	0.109	0.093	£15.97	£14.96
SH1-36	36	37.80	39.80	20	8	0.115	0.098	£16.19	£15.12
SH1-37	37	38.85	40.85	20	8	0.120	0.104	£16.38	£15.23
SH1-38	38	39.90	41.90	20	8	0.126	0.110	£16.68	£15.39
SH1-39	39	40.95	42.95	20	8	0.132	0.116	£16.94	£15.49
SH1-40	40	42.00	44.00	20	8	0.139	0.123	£17.28	£15.76
SH1-41	41	43.05	45.05	20	8	0.145	0.129	£17.31	£15.87
SH1-42	42	44.10	46.10	20	8	0.152	0.136	£17.37	£15.97
SH1-43	43	45.15	47.15	20	8	0.159	0.142	£17.44	£16.17
SH1-44	44	46.20	48.20	20	8	0.165	0.149	£17.51	£16.27
SH1-45	45	47.25	49.25	20	8	0.173	0.156	£17.62	£16.48
SH1-46	46	48.30	50.30	20	8	0.180	0.164	£17.67	£16.65
SH1-47	47	49.35	51.35	20	8	0.187	0.171	£17.77	£16.77
SH1-48	48	50.40	52.40	30	8	0.219	0.179	£17.81	£16.92
SH1-49	49	51.45	53.45	30	8	0.226	0.186	£18.71	£17.13
SH1-50	50	52.50	54.50	30	10	0.230	0.192	£19.62	£17.28
SH1-51	51	53.55	55.55	30	10	0.238	0.200	£19.93	£17.38
SH1-52	52	54.60	56.60	30	10	0.246	0.208	£20.20	£17.65
SH1-53	53	55.65	57.65	30	10	0.255	0.216	£20.46	£17.87
SH1-54	54	56.70	58.70	30	10	0.263	0.225	£20.70	£18.09
SH1-55	55	57.75	59.75	30	10	0.272	0.233	£21.07	£18.23
SH1-56	56	58.80	60.80	30	10	0.281	0.242	£21.09	£18.40
SH1-57	57	59.85	61.85	30	10	0.290	0.251	£21.38	£18.67
SH1-58	58	60.90	62.90	30	10	0.299	0.260	£21.70	£18.79
SH1-59	59	61.95	63.95	30	10	0.308	0.270	£21.96	£19.04
SH1-60	60	63.00	65.00	30	10	0.317	0.279	£22.26	£19.21
SH1-61	61	64.05	66.05	30	10	0.327	0.289	£22.55	£19.41
SH1-62	62	65.10	67.10	30	10	0.337	0.298	£22.94	£19.62
SH1-63	63	66.15	68.15	30	10	0.347	0.308	£23.60	£19.77
SH1-64	64	67.20	69.20	30	10	0.357	0.318	£24.07	£20.08
SH1-65	65	68.25	70.25	30	10	0.367	0.329	£24.61	£20.20
SH1-66	66	69.30	71.30	30	10	0.378	0.339	£25.12	£20.42
SH1-68	68	71.40	73.40	30	10	0.399	0.360	£25.81	£20.61
SH1-70	70	73.50	75.50	30	10	0.421	0.382	£26.33	£20.82
SH1-72	72	75.60	77.60	30	10	0.443	0.405	£26.90	£21.07
SH1-73	73	76.65	78.65	30	10	0.455	0.417	£27.68	£21.32
SH1-74	74	77.70	79.70	30	10	0.467	0.428	£28.37	£21.59
SH1-76	76	79.80	81.80	30	10	0.491	0.452	£28.76	£21.84
SH1-78	78	81.90	83.90	30	10	0.515	0.477	£29.26	£22.11
SH1-80	80	84.00	86.00	30	10	0.540	0.502	£29.79	£22.38
SH1-84	84	88.20	90.20	30	10	0.592	0.554	£30.22	£22.66
SH1-88	88	92.40	94.40	30	10	0.647	0.609	£30.85	£23.60
SH1-90	90	94.50	96.50	30	10	0.675	0.637	£31.82	£24.89
SH1-96	96	100.80	102.80	30	10	0.764	0.726	£35.26	£26.47
SH1-100	100	105.00	107.00	30	10	0.826	0.788	£35.71	£29.79
SH1-112	112	117.60	119.60	30	10	1.029	0.990	£41.09	£34.03
SH1-120	120	126.00	128.00	40	12	1.176	1.138	£50.59	£42.20
SH1-130	130	136.50	138.50	40	12	1.375	1.337	£54.27	£47.90
SH1-150	150	157.50	159.50	40	15	1.820	1.782	£67.31	£56.07

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

1 MOD

17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 120

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.00



RH 17°45'

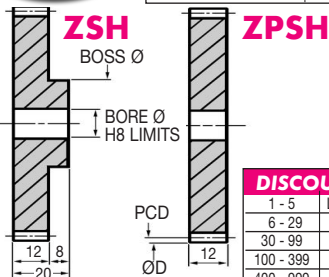


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							ZSH	ZPSH	
ZSH1-9	9	10.50	12.50	12.50	4	0.015	0.007	£5.27	£4.03
ZSH1-10	10	10.50	12.50	12.50	4	0.015	0.007	£5.29	£4.04
ZSH1-11	11	11.55	13.55	13.55	4	0.017	0.008	£5.30	£4.07
ZSH1-12	12	12.60	14.60	14.00	4	0.019	0.010	£5.33	£4.08
ZSH1-13	13	13.65	15.65	15.00	4	0.022	0.012	£5.46	£4.14
ZSH1-14	14	14.70	16.70	15.00	4	0.024	0.014	£5.52	£4.21
ZSH1-15	15	15.75	17.75	15.00	4	0.027	0.017	£5.58	£4.28
ZSH1-16	16	16.80	18.80	15.00	6	0.027	0.018	£5.73	£4.35
ZSH1-17	17	17.85	19.85	15.00	6	0.029	0.020	£5.81	£4.44
ZSH1-18	18	18.90	20.90	15.00	6	0.032	0.023	£5.90	£4.56
ZSH1-19	19	19.95	21.95	15.00	6	0.035	0.026	£6.06	£4.59
ZSH1-20	20	21.00	23.00	15.00	6	0.038	0.029	£6.20	£4.75
ZSH1-21	21	22.05	24.05	18.00	6	0.046	0.032	£6.30	£4.79
ZSH1-22	22	23.10	25.10	18.00	6	0.050	0.036	£6.32	£4.83
ZSH1-23	23	24.15	26.15	18.00	6	0.053	0.039	£6.38	£4.85
ZSH1-24	24	25.20	27.20	18.00	6	0.057	0.043	£6.40	£4.85
ZSH1-25	25	26.25	28.25	18.00	6	0.061	0.047	£6.68	£5.09
ZSH1-26	26	27.30	29.30	18.00	6	0.065	0.051	£7.64	£5.83
ZSH1-27	27	28.35	30.35	18.00	6	0.069	0.055	£7.82	£5.95
ZSH1-28	28	29.40	31.40	18.00	6	0.074	0.060	£7.99	£6.14
ZSH1-29	29	30.45	32.45	18.00	6	0.078	0.064	£8.18	£6.30
ZSH1-30	30	31.50	33.50	18.00	6	0.083	0.069	£8.35	£6.38
ZSH1-31	31	32.55	34.55	18.00	6	0.088	0.074	£8.45	£6.44

24.18



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Helical Gears Parallel Axis Plastic MOD 1

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1-32	32	33.60	35.50	18	6	0.093	0.079	£8.53	£6.50
ZSH1-33	33	34.65	36.65	18	6	0.098	0.084	£8.62	£6.65
ZSH1-34	34	35.70	37.70	18	6	0.103	0.089	£8.73	£6.68
ZSH1-35	35	36.75	38.75	18	6	0.109	0.095	£8.84	£6.75
ZSH1-36	36	37.80	39.80	18	6	0.114	0.100	£8.93	£6.77
ZSH1-37	37	38.85	40.85	18	6	0.120	0.106	£9.04	£6.95
ZSH1-38	38	39.90	41.90	18	6	0.126	0.112	£10.46	£8.02
ZSH1-39	39	40.95	42.95	18	6	0.132	0.118	£10.65	£8.12
ZSH1-40	40	42.00	44.00	18	6	0.138	0.125	£10.82	£8.29
ZSH1-41	41	43.05	45.05	18	6	0.145	0.131	£10.87	£8.32
ZSH1-42	42	44.10	46.10	18	6	0.152	0.138	£10.94	£8.35
ZSH1-43	43	45.15	47.15	18	6	0.158	0.144	£10.97	£8.38
ZSH1-44	44	46.20	48.20	18	6	0.165	0.151	£10.99	£8.45
ZSH1-45	45	47.25	49.25	18	6	0.172	0.158	£11.10	£8.46
ZSH1-46	46	48.30	50.30	18	6	0.179	0.166	£11.12	£8.47
ZSH1-47	47	49.35	51.35	22	8	0.191	0.171	£11.15	£8.53
ZSH1-48	48	50.40	52.40	22	8	0.199	0.179	£11.18	£8.59
ZSH1-49	49	51.45	53.45	22	8	0.206	0.186	£11.76	£8.96
ZSH1-50	50	52.50	54.50	22	8	0.214	0.194	£12.34	£9.47
ZSH1-51	51	53.55	55.55	22	8	0.222	0.202	£12.52	£9.60
ZSH1-52	52	54.60	56.60	22	8	0.231	0.210	£12.68	£9.68
ZSH1-53	53	55.65	57.65	22	8	0.239	0.219	£12.83	£9.86
ZSH1-54	54	56.70	58.70	22	8	0.247	0.227	£13.04	£9.95
ZSH1-55	55	57.75	59.75	22	8	0.256	0.236	£13.26	£10.12
ZSH1-56	56	58.80	60.80	22	8	0.265	0.245	£13.27	£10.15
ZSH1-57	57	59.85	61.85	22	8	0.274	0.254	£16.18	£12.39
ZSH1-58	58	60.90	62.90	22	8	0.283	0.263	£16.42	£12.52
ZSH1-59	59	61.95	63.95	22	8	0.292	0.272	£16.56	£12.68
ZSH1-60	60	63.00	65.00	22	8	0.302	0.282	£16.81	£12.89
ZSH1-61	61	64.05	66.05	22	8	0.311	0.291	£17.02	£13.04
ZSH1-62	62	65.10	67.10	22	8	0.321	0.301	£17.34	£13.30
ZSH1-63	63	66.15	68.15	22	8	0.331	0.311	£17.87	£13.64
ZSH1-64	64	67.20	69.20	22	8	0.341	0.321	£18.18	£13.95
ZSH1-65	65	68.25	70.25	22	8	0.352	0.331	£18.61	£14.27
ZSH1-66	66	69.30	71.30	22	8	0.362	0.342	£19.00	£14.61
ZSH1-68	68	71.40	73.40	22	8	0.383	0.363	£19.54	£14.97
ZSH1-70	70	73.50	75.50	22	8	0.405	0.385	£22.57	£15.77
ZSH1-72	72	75.60	77.60	22	8	0.428	0.408	£23.07	£16.29
ZSH1-73	73	76.65	78.65	22	8	0.439	0.419	£23.68	£18.18
ZSH1-74	74	77.70	79.70	22	8	0.451	0.431	£24.26	£18.61
ZSH1-76	76	79.80	81.80	22	8	0.475	0.455	£24.66	£18.94
ZSH1-78	78	81.90	83.90	26	8	0.509	0.479	£25.03	£19.20
ZSH1-80	80	84.00	86.00	26	8	0.534	0.504	£26.56	£20.25
ZSH1-84	84	88.20	90.20	26	8	0.586	0.556	£27.42	£21.01
ZSH1-88	88	92.40	94.40	26	8	0.641	0.611	£27.99	£21.48
ZSH1-90	90	94.50	96.50	26	8	0.669	0.639	£32.10	£24.61
ZSH1-96	96	100.80	102.80	26	10	0.758	0.728	£39.91	£32.37
ZSH1-100	100	105.00	107.00	26	10	0.820	0.791	£47.71	£40.22
ZSH1-112	112	117.60	119.60	26	10	1.022	0.993	£59.75	£52.29
ZSH1-120	120	126.00	128.00	30	12	1.170	1.140	£73.88	£66.39

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

1.25 MOD 17°45' H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 140

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations at back	TORQUE Nm.	6.61	43.45	3.31	2.36
	K.W.	0.69	4.55	0.34	0.25



RH 17°45'

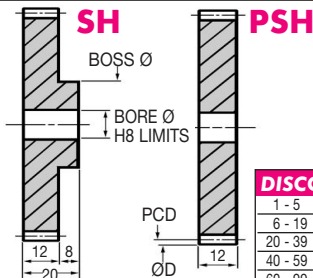


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH1.25-9	9	13.13	15.63	12	6	0.018	0.010	£13.71	£11.65
SH1.25-10	10	13.13	15.63	12	6	0.018	0.010	£13.74	£11.66
SH1.25-11	11	14.44	16.94	12	6	0.020	0.012	£13.75	£11.67
SH1.25-12	12	15.75	18.25	12	6	0.024	0.015	£13.77	£11.70
SH1.25-13	13	17.06	19.56	12	6	0.027	0.018	£14.44	£12.69
SH1.25-14	14	18.38	20.88	12	6	0.030	0.022	£14.72	£13.03
SH1.25-15	15	19.69	22.19	12	6	0.026	0.017	£15.00	£13.38
SH1.25-16	16	21.00	23.50	15	8	0.040	0.027	£15.45	£13.93
SH1.25-17	17	22.31	24.81	15	8	0.044	0.031	£15.87	£14.20
SH1.25-18	18	23.63	26.13	15	8	0.049	0.036	£16.27	£14.44
SH1.25-19	19	24.94	27.44	15	8	0.053	0.040	£16.92	£14.65
SH1.25-20	20	26.25	28.75	15	8	0.058	0.045	£17.18	£14.73
SH1.25-21	21	27.56	30.06	15	8	0.063	0.050	£17.37	£14.82
SH1.25-22	22	28.88	31.38	15	8	0.069	0.056	£17.51	£14.90
SH1.25-23	23	30.19	32.69	15	8	0.074	0.061	£17.81	£14.96
SH1.25-24	24	31.50	34.00	15	8	0.080	0.067	£18.09	£15.00
SH1.25-25	25	32.81	35.31	15	8	0.086	0.073	£18.43	£15.23
SH1.25-26	26	34.13	36.63	15	8	0.093	0.079	£18.69	£15.45
SH1.25-27	27	35.44	37.94	15	8	0.099	0.086	£19.13	£15.61
SH1.25-28	28	36.75	39.25	15	8	0.106	0.093	£19.95	£15.77
SH1.25-29	29	38.06	40.56	15	8	0.113	0.100	£20.46	£15.87
SH1.25-30	30	39.38	41.88	25	8	0.149	0.107	£21.10	£15.97
SH1.25-31	31	40.69	43.19	25	8	0.157	0.115	£21.59	£16.12

24.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Helical Gears Parallel Axis Steel MOD 1.25

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH1.25-32	32	42.00	44.50	25	8	0.165	0.123	£22.01	£16.17
SH1.25-33	33	43.31	45.81	25	8	0.173	0.131	£22.43	£16.22
SH1.25-34	34	44.63	47.13	25	8	0.181	0.139	£22.74	£16.27
SH1.25-35	35	45.94	48.44	25	8	0.190	0.148	£23.25	£16.38
SH1.25-36	36	47.25	49.75	25	8	0.198	0.156	£23.53	£16.55
SH1.25-37	37	48.56	51.06	25	8	0.187	0.145	£23.80	£16.56
SH1.25-38	38	49.88	52.38	25	8	0.217	0.175	£23.99	£16.72
SH1.25-39	39	51.19	53.69	25	8	0.226	0.184	£24.24	£16.78
SH1.25-40	40	52.50	55.00	30	10	0.252	0.192	£24.57	£16.81
SH1.25-41	41	53.81	56.31	30	10	0.262	0.202	£24.63	£17.13
SH1.25-42	42	55.13	57.63	30	10	0.272	0.212	£24.73	£17.26
SH1.25-43	43	56.44	58.94	30	10	0.283	0.223	£24.81	£17.34
SH1.25-44	44	57.75	60.25	30	10	0.293	0.233	£24.89	£17.51
SH1.25-45	45	59.06	61.56	30	10	0.304	0.244	£25.07	£17.67
SH1.25-46	46	60.38	62.88	30	10	0.316	0.256	£25.18	£17.87
SH1.25-47	47	61.69	64.19	30	10	0.327	0.267	£25.31	£17.98
SH1.25-48	48	63.00	65.50	30	10	0.339	0.279	£25.36	£18.13
SH1.25-49	49	64.31	66.81	30	10	0.351	0.291	£25.95	£18.61
SH1.25-50	50	65.63	68.13	30	10	0.364	0.303	£26.20	£19.00
SH1.25-51	51	66.94	69.44	30	10	0.376	0.316	£26.37	£19.36
SH1.25-52	52	68.25	70.75	30	10	0.389	0.329	£26.69	£19.72
SH1.25-53	53	69.56	72.06	30	10	0.402	0.342	£26.89	£20.09
SH1.25-54	54	70.88	73.38	30	10	0.415	0.355	£27.09	£20.42
SH1.25-55	55	72.19	74.69	30	10	0.429	0.369	£27.31	£20.82
SH1.25-56	56	73.50	76.00	30	10	0.442	0.382	£28.50	£21.10
SH1.25-57	57	74.81	77.31	30	10	0.457	0.396	£29.81	£21.42
SH1.25-58	58	76.13	78.63	30	10	0.471	0.411	£30.22	£21.77
SH1.25-59	59	77.44	79.94	30	10	0.485	0.425	£30.85	£22.11
SH1.25-60	60	78.75	81.25	30	10	0.500	0.440	£31.58	£22.43
SH1.25-61	61	80.06	82.56	30	10	0.515	0.455	£31.85	£22.78
SH1.25-62	62	81.38	83.88	30	10	0.531	0.470	£32.30	£23.22
SH1.25-63	63	82.69	85.19	30	10	0.546	0.486	£32.63	£23.54
SH1.25-64	64	84.00	86.50	30	10	0.562	0.502	£33.04	£23.92
SH1.25-65	65	85.31	87.81	30	10	0.578	0.518	£33.47	£24.32
SH1.25-66	66	86.36	89.13	30	10	0.591	0.531	£33.90	£25.07
SH1.25-68	68	89.25	91.75	30	10	0.627	0.567	£34.72	£25.68
SH1.25-70	70	91.88	94.38	30	10	0.662	0.602	£35.31	£26.33
SH1.25-72	72	94.50	97.00	30	10	0.697	0.637	£35.54	£26.89
SH1.25-73	73	95.81	98.31	30	10	0.715	0.655	£35.70	£27.40
SH1.25-74	74	97.13	99.63	30	10	0.733	0.673	£35.89	£27.91
SH1.25-76	76	99.75	102.25	30	10	0.770	0.710	£36.49	£28.42
SH1.25-78	78	102.38	104.88	30	10	0.809	0.749	£37.79	£28.95
SH1.25-80	80	105.00	107.50	30	10	0.848	0.788	£40.31	£32.33
SH1.25-84	84	110.25	112.75	30	10	0.930	0.869	£40.68	£33.26
SH1.25-88	88	115.50	118.00	30	10	1.015	0.955	£44.67	£37.10
SH1.25-90	90	118.13	120.63	40	12	1.059	0.999	£45.08	£37.31
SH1.25-96	96	126.00	128.50	40	12	1.198	1.138	£51.83	£39.42
SH1.25-100	100	131.25	133.75	40	12	1.295	1.235	£52.69	£40.22
SH1.25-112	112	147.00	149.50	50	15	1.611	1.551	£58.32	£48.55
SH1.25-120	120	157.50	160.00	50	15	1.842	1.782	£62.39	£51.96
SH1.25-130	130	170.63	173.13	50	15	2.153	2.093	£69.56	£57.99
SH1.25-140	140	183.75	186.25	50	15	2.488	2.428	£75.14	£62.64

Helical Gears Parallel Axis Steel MOD 1.25

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

1.25 MOD

17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 120

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.50



RH 17°45'

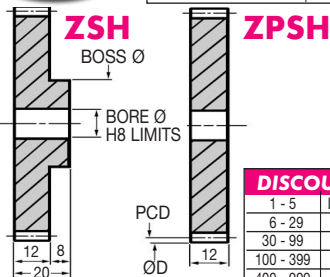


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1.25-9	9	13.13	15.63	15	5	0.013	0.011	£6.81	£5.20
ZSH1.25-10	10	13.13	15.63	15	5	0.013	0.011	£6.82	£5.22
ZSH1.25-11	11	14.14	16.94	15	5	0.015	0.013	£6.87	£5.23
ZSH1.25-12	12	15.75	18.25	15	5	0.019	0.016	£6.87	£5.25
ZSH1.25-13	13	17.06	19.56	15	5	0.022	0.019	£7.27	£5.52
ZSH1.25-14	14	18.38	20.88	15	5	0.027	0.023	£7.38	£5.58
ZSH1.25-15	15	19.69	22.19	15	5	0.031	0.018	£7.49	£5.79
ZSH1.25-16	16	21.00	23.50	16	6	0.034	0.029	£7.73	£5.90
ZSH1.25-17	17	22.31	24.81	16	6	0.039	0.033	£7.94	£6.06
ZSH1.25-18	18	23.63	26.13	16	6	0.045	0.038	£8.18	£6.30
ZSH1.25-19	19	24.94	27.44	16	6	0.050	0.042	£8.47	£6.44
ZSH1.25-20	20	26.25	28.75	16	6	0.056	0.047	£8.59	£6.54
ZSH1.25-21	21	27.56	30.06	18	6	0.062	0.052	£9.60	£7.36
ZSH1.25-22	22	28.88	31.38	18	6	0.069	0.058	£9.65	£7.38
ZSH1.25-23	23	30.19	32.69	18	6	0.075	0.063	£9.86	£7.49
ZSH1.25-24	24	31.50	34.00	18	6	0.082	0.069	£10.01	£7.64
ZSH1.25-25	25	32.81	35.31	18	6	0.090	0.075	£10.15	£7.75
ZSH1.25-26	26	34.13	36.63	18	6	0.097	0.081	£10.30	£7.87
ZSH1.25-27	27	35.44	37.94	18	6	0.105	0.088	£10.54	£8.10
ZSH1.25-28	28	36.75	39.25	18	6	0.114	0.095	£10.99	£8.45
ZSH1.25-29	29	38.06	40.56	18	6	0.122	0.102	£11.33	£8.62
ZSH1.25-30	30	39.38	41.88	18	6	0.123	0.109	£11.67	£8.93
ZSH1.25-31	31	40.69	43.19	18	6	0.131	0.117	£13.57	£10.42

24.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Helical Gears Parallel Axis Plastic MOD 1.25

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1.25-32	32	42.00	44.50	18	6	0.138	0.125	£13.83	£10.50
ZSH1.25-33	33	43.31	45.81	18	6	0.147	0.133	£14.08	£10.79
ZSH1.25-34	34	44.63	47.13	18	6	0.155	0.141	£14.31	£10.97
ZSH1.25-35	35	45.94	48.44	18	6	0.163	0.150	£14.64	£11.21
ZSH1.25-36	36	47.25	49.75	18	6	0.172	0.158	£14.78	£11.33
ZSH1.25-37	37	48.56	51.06	18	6	0.181	0.167	£17.94	£13.75
ZSH1.25-38	38	49.88	52.38	18	6	0.191	0.177	£18.13	£13.93
ZSH1.25-39	39	51.19	53.69	22	8	0.205	0.184	£18.37	£14.05
ZSH1.25-40	40	52.50	55.00	22	8	0.214	0.194	£18.55	£14.25
ZSH1.25-41	41	53.81	56.31	22	8	0.224	0.204	£18.61	£14.27
ZSH1.25-42	42	55.13	57.63	22	8	0.235	0.215	£18.69	£14.31
ZSH1.25-43	43	56.44	58.94	22	8	0.245	0.225	£18.74	£14.50
ZSH1.25-44	44	57.75	60.25	22	8	0.256	0.236	£21.36	£16.42
ZSH1.25-45	45	59.06	61.56	22	8	0.267	0.247	£21.48	£16.46
ZSH1.25-46	46	60.38	62.88	22	8	0.279	0.258	£21.61	£16.53
ZSH1.25-47	47	61.69	64.19	22	8	0.290	0.270	£21.68	£16.64
ZSH1.25-48	48	63.00	65.50	22	8	0.302	0.282	£21.71	£16.68
ZSH1.25-49	49	64.31	66.81	22	8	0.314	0.294	£22.26	£17.02
ZSH1.25-50	50	65.63	68.13	22	8	0.326	0.306	£22.44	£17.18
ZSH1.25-51	51	66.94	69.44	22	8	0.339	0.319	£22.68	£17.34
ZSH1.25-52	52	68.25	70.75	22	8	0.352	0.331	£22.90	£17.52
ZSH1.25-53	53	69.56	72.06	26	10	0.369	0.342	£23.07	£17.63
ZSH1.25-54	54	70.88	73.38	26	10	0.383	0.355	£23.26	£17.78
ZSH1.25-55	55	72.19	74.69	26	10	0.396	0.369	£23.42	£17.94
ZSH1.25-56	56	73.50	76.00	26	10	0.410	0.382	£25.86	£19.81
ZSH1.25-57	57	74.81	77.31	26	10	0.424	0.396	£27.04	£20.70
ZSH1.25-58	58	76.13	78.63	26	10	0.438	0.411	£27.42	£21.01
ZSH1.25-59	59	77.44	79.94	26	10	0.453	0.425	£27.99	£21.48
ZSH1.25-60	60	78.75	81.25	26	10	0.468	0.440	£28.66	£21.98
ZSH1.25-61	61	80.06	82.56	26	10	0.483	0.455	£28.91	£22.12
ZSH1.25-62	62	81.38	83.88	26	10	0.498	0.470	£29.32	£22.47
ZSH1.25-63	63	82.69	85.19	26	10	0.514	0.486	£29.62	£22.71
ZSH1.25-64	64	84.00	86.50	26	10	0.529	0.502	£29.98	£22.99
ZSH1.25-65	65	85.31	87.81	26	10	0.545	0.518	£30.41	£23.30
ZSH1.25-66	66	86.36	89.13	26	10	0.558	0.531	£30.78	£23.56
ZSH1.25-68	68	89.25	91.75	26	10	0.595	0.567	£35.02	£26.85
ZSH1.25-70	70	91.88	94.38	26	10	0.629	0.602	£35.63	£27.39
ZSH1.25-72	72	94.50	97.00	26	10	0.665	0.637	£35.86	£27.51
ZSH1.25-73	73	95.81	98.31	26	10	0.683	0.655	£36.04	£27.62
ZSH1.25-74	74	97.13	99.63	26	10	0.701	0.673	£36.22	£27.74
ZSH1.25-76	76	99.75	102.25	30	10	0.749	0.710	£40.48	£31.11
ZSH1.25-78	78	102.38	104.88	30	10	0.787	0.749	£41.95	£32.25
ZSH1.25-80	80	105.00	107.50	30	10	0.826	0.788	£44.73	£34.29
ZSH1.25-84	84	110.25	112.75	30	10	0.908	0.869	£45.15	£34.61
ZSH1.25-88	88	115.50	118.00	30	10	0.993	0.955	£49.60	£38.05
ZSH1.25-90	90	118.13	120.63	30	12	1.038	0.999	£54.57	£41.90
ZSH1.25-96	96	126.00	128.50	30	12	1.176	1.138	£62.32	£49.63
ZSH1.25-100	100	131.25	133.75	30	12	1.274	1.235	£71.55	£58.87
ZSH1.25-112	112	147.00	149.50	40	15	1.590	1.551	£83.49	£60.31
ZSH1.25-120	120	157.50	160.00	40	15	1.820	1.782	£98.36	£85.66

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

1.5 MOD

17°45' H.A.
20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 120

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	12.71	50.29	6.36	4.54
	K.W.	1.34	5.27	0.66	0.48



RH 17°45'

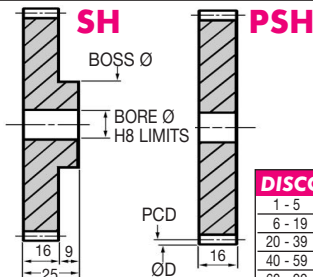


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH1.5-9	9	15.75	18.75	18	8	0.032	0.018	£13.78	£12.75
SH1.5-10	10	15.75	18.75	18	8	0.032	0.018	£13.82	£12.76
SH1.5-11	11	17.33	20.33	18	8	0.037	0.023	£13.82	£12.77
SH1.5-12	12	18.90	21.90	18	8	0.042	0.028	£13.83	£12.78
SH1.5-13	13	20.48	23.48	18	8	0.048	0.034	£13.92	£13.26
SH1.5-14	14	22.05	25.05	18	8	0.055	0.041	£13.93	£13.68
SH1.5-15	15	23.63	26.63	18	8	0.062	0.048	£14.32	£14.05
SH1.5-16	16	25.20	28.20	20	10	0.068	0.051	£14.67	£14.50
SH1.5-17	17	26.78	29.78	20	10	0.076	0.059	£15.12	£14.96
SH1.5-18	18	28.35	31.35	20	10	0.084	0.068	£15.55	£15.39
SH1.5-19	19	29.93	32.93	20	10	0.093	0.077	£16.17	£15.45
SH1.5-20	20	31.50	34.50	20	10	0.102	0.086	£16.94	£15.47
SH1.5-21	21	33.08	36.08	20	10	0.112	0.096	£17.18	£15.61
SH1.5-22	22	34.65	37.65	20	10	0.122	0.106	£17.31	£15.70
SH1.5-23	23	36.23	39.23	20	10	0.133	0.117	£17.59	£15.83
SH1.5-24	24	37.80	40.80	25	12	0.150	0.124	£17.81	£15.95
SH1.5-25	25	39.38	42.38	25	12	0.161	0.135	£18.71	£15.97
SH1.5-26	26	40.95	43.95	25	12	0.173	0.147	£19.61	£16.04
SH1.5-27	27	42.53	45.53	25	12	0.186	0.160	£20.31	£16.35
SH1.5-28	28	44.10	47.10	25	12	0.199	0.173	£20.87	£16.60
SH1.5-29	29	45.68	48.68	25	12	0.213	0.187	£21.15	£16.90
SH1.5-30	30	47.25	50.25	25	12	0.227	0.201	£21.77	£17.18
SH1.5-31	31	48.83	51.83	25	12	0.241	0.215	£22.11	£17.65

Helical Gears Parallel Axis Steel MOD 1.5

24.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH1.5-32	32	50.40	53.40	25	12	0.256	0.230	£22.55	£17.81
SH1.5-33	33	51.98	54.98	25	12	0.272	0.246	£22.74	£18.29
SH1.5-34	34	53.55	56.55	25	12	0.298	0.272	£22.94	£18.43
SH1.5-35	35	55.13	58.13	30	15	0.307	0.271	£23.22	£18.66
SH1.5-36	36	56.70	59.70	30	15	0.324	0.288	£24.39	£18.87
SH1.5-37	37	58.28	61.28	30	15	0.341	0.305	£24.88	£19.13
SH1.5-38	38	59.85	62.85	30	15	0.359	0.323	£25.43	£19.41
SH1.5-39	39	61.43	64.43	30	15	0.378	0.341	£26.04	£19.93
SH1.5-40	40	63.00	66.00	40	15	0.434	0.360	£26.57	£20.42
SH1.5-41	41	64.58	67.58	40	15	0.454	0.379	£26.60	£21.09
SH1.5-42	42	66.15	69.15	40	15	0.474	0.399	£26.61	£21.70
SH1.5-43	43	67.73	70.73	40	15	0.494	0.419	£26.66	£22.38
SH1.5-44	44	69.30	72.30	40	15	0.515	0.440	£26.66	£22.99
SH1.5-45	45	70.88	73.88	40	15	0.536	0.461	£27.18	£23.67
SH1.5-46	46	72.45	75.45	40	15	0.557	0.483	£27.74	£24.24
SH1.5-47	47	74.03	77.03	40	15	0.580	0.505	£28.31	£24.88
SH1.5-48	48	75.60	78.60	40	15	0.602	0.528	£29.01	£25.59
SH1.5-49	49	77.18	80.18	40	15	0.626	0.551	£30.34	£26.20
SH1.5-50	50	78.75	81.75	40	15	0.649	0.575	£32.53	£26.86
SH1.5-51	51	80.33	83.33	40	15	0.673	0.599	£33.41	£27.53
SH1.5-52	52	81.90	84.90	40	15	0.698	0.623	£34.06	£28.14
SH1.5-53	53	83.48	86.48	40	15	0.723	0.648	£34.60	£28.79
SH1.5-54	54	85.05	88.05	40	15	0.748	0.674	£34.77	£29.38
SH1.5-55	55	86.63	89.63	40	15	0.774	0.700	£34.98	£29.85
SH1.5-56	56	88.20	91.20	40	15	0.801	0.726	£35.22	£30.34
SH1.5-57	57	89.78	92.78	40	15	0.828	0.753	£35.55	£30.76
SH1.5-58	58	91.35	94.35	40	15	0.855	0.781	£35.71	£31.21
SH1.5-59	59	92.93	95.93	40	15	0.883	0.809	£35.93	£31.62
SH1.5-60	60	94.50	97.50	40	15	0.911	0.837	£36.06	£32.04
SH1.5-62	62	97.65	100.65	40	15	0.970	0.895	£36.76	£32.53
SH1.5-64	64	100.80	103.80	40	15	1.030	0.955	£37.29	£32.90
SH1.5-65	65	102.38	105.38	40	15	1.061	0.986	£38.14	£33.36
SH1.5-66	66	103.95	106.95	40	15	1.092	1.017	£39.58	£34.03
SH1.5-68	68	107.10	110.10	40	15	1.156	1.081	£40.48	£34.51
SH1.5-70	70	110.25	113.25	40	15	1.222	1.147	£41.91	£34.88
SH1.5-71	71	111.83	114.83	40	15	1.255	1.181	£42.18	£35.88
SH1.5-72	72	113.40	116.40	40	15	1.289	1.215	£44.30	£36.91
SH1.5-73	73	114.98	117.98	40	15	1.324	1.250	£45.43	£37.79
SH1.5-74	74	116.55	119.55	40	15	1.359	1.285	£46.96	£39.15
SH1.5-75	75	118.13	121.13	40	15	1.395	1.320	£47.20	£39.28
SH1.5-76	76	119.70	122.70	40	15	1.431	1.356	£47.44	£39.53
SH1.5-78	78	122.85	125.85	40	15	1.504	1.430	£49.75	£41.47
SH1.5-80	80	126.00	129.00	40	15	1.579	1.505	£51.63	£43.03
SH1.5-86	86	135.45	138.45	40	15	1.817	1.743	£55.49	£46.18
SH1.5-90	90	141.75	144.75	40	15	1.985	1.911	£59.48	£49.51
SH1.5-96	96	151.20	154.20	40	15	2.251	2.177	£63.39	£52.77
SH1.5-98	98	154.35	157.35	40	15	2.344	2.269	£67.31	£56.07
SH1.5-100	100	157.50	160.50	40	15	2.438	2.364	£71.61	£59.67
SH1.5-105	105	165.38	168.38	40	15	2.683	2.608	£76.37	£63.61
SH1.5-110	110	173.25	176.25	40	15	2.939	2.865	£82.42	£68.69
SH1.5-115	115	181.13	184.13	40	15	3.208	3.133	£91.86	£76.50
SH1.5-120	120	189.00	192.00	40	15	3.488	3.413	£102.60	£85.48

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Plastic - Parallel Axis

1.5 MOD 17°45' H.A.
20° P.A.

Materials

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 100

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 3.00



RH 17°45'

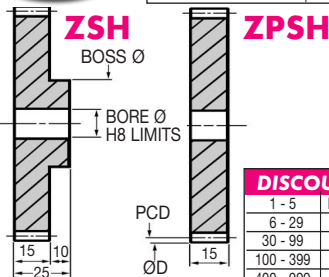


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1.5-9	9	15.75	18.75	18	6	0.022	0.019	£6.50	£4.99
ZSH1.5-10	10	15.75	18.75	18	6	0.022	0.019	£6.50	£5.01
ZSH1.5-11	11	17.33	20.33	18	6	0.028	0.024	£6.51	£5.06
ZSH1.5-12	12	18.90	21.90	18	6	0.034	0.029	£6.54	£5.06
ZSH1.5-13	13	20.48	23.48	18	6	0.042	0.035	£6.77	£5.22
ZSH1.5-14	14	22.05	25.05	20	8	0.045	0.038	£6.99	£5.30
ZSH1.5-15	15	23.63	26.63	20	8	0.054	0.045	£7.14	£5.48
ZSH1.5-16	16	25.20	28.20	20	8	0.061	0.051	£7.36	£5.58
ZSH1.5-17	17	26.78	29.78	20	8	0.070	0.059	£8.35	£6.38
ZSH1.5-18	18	28.35	31.35	24	8	0.080	0.067	£8.59	£6.54
ZSH1.5-19	19	29.93	32.93	25	8	0.090	0.075	£8.93	£6.77
ZSH1.5-20	20	31.50	34.50	25	8	0.100	0.084	£9.32	£7.14
ZSH1.5-21	21	33.08	36.08	25	8	0.111	0.093	£9.76	£7.28
ZSH1.5-22	22	34.65	37.65	25	8	0.122	0.102	£10.01	£7.36
ZSH1.5-23	23	36.23	39.23	25	8	0.135	0.113	£10.44	£7.40
ZSH1.5-24	24	37.80	40.80	25	8	0.147	0.123	£11.28	£8.59
ZSH1.5-25	25	39.38	42.38	25	8	0.160	0.134	£11.76	£8.96
ZSH1.5-26	26	40.95	43.95	25	8	0.174	0.145	£12.44	£9.47
ZSH1.5-27	27	42.53	45.53	25	8	0.188	0.157	£12.78	£9.76
ZSH1.5-28	28	44.10	47.10	25	8	0.204	0.170	£13.05	£10.04
ZSH1.5-29	29	45.68	48.68	25	8	0.218	0.182	£13.30	£10.15
ZSH1.5-30	30	47.25	50.25	25	8	0.234	0.195	£13.68	£10.50
ZSH1.5-31	31	48.83	51.83	28	10	0.247	0.206	£13.93	£10.65

Helical Gears Parallel Axis Plastic MOD 1.5

24.26



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1.5-32	32	50.40	53.40	28	10	0.264	0.220	£14.25	£10.87
ZSH1.5-33	33	51.98	54.98	28	10	0.282	0.235	£14.31	£10.97
ZSH1.5-34	34	54.55	56.55	28	10	0.300	0.259	£14.46	£11.10
ZSH1.5-35	35	55.13	58.13	28	10	0.306	0.265	£14.64	£11.15
ZSH1.5-36	36	56.70	59.70	28	10	0.322	0.281	£18.40	£14.08
ZSH1.5-37	37	58.28	61.28	28	10	0.338	0.297	£18.79	£14.38
ZSH1.5-38	38	59.85	62.85	28	10	0.355	0.314	£19.59	£14.74
ZSH1.5-39	39	61.43	64.43	28	10	0.372	0.331	£19.85	£15.06
ZSH1.5-40	40	63.00	66.00	30	12	0.390	0.345	£20.08	£15.38
ZSH1.5-41	41	64.58	67.58	30	12	0.408	0.363	£20.09	£15.39
ZSH1.5-42	42	66.15	69.15	30	12	0.427	0.381	£20.10	£15.40
ZSH1.5-43	43	67.73	70.73	30	12	0.446	0.401	£20.11	£15.41
ZSH1.5-44	44	69.30	72.30	30	12	0.465	0.420	£20.12	£15.42
ZSH1.5-45	45	70.88	73.88	30	12	0.485	0.440	£20.55	£15.71
ZSH1.5-46	46	72.45	75.45	30	12	0.506	0.460	£23.80	£18.23
ZSH1.5-47	47	74.03	77.03	30	12	0.527	0.481	£24.24	£18.61
ZSH1.5-48	48	75.60	78.60	30	12	0.548	0.502	£24.86	£19.04
ZSH1.5-49	49	77.18	80.18	30	12	0.569	0.524	£25.97	£19.93
ZSH1.5-50	50	78.75	81.75	30	12	0.592	0.546	£27.88	£21.37
ZSH1.5-51	51	80.33	83.33	30	12	0.614	0.569	£28.66	£21.96
ZSH1.5-52	52	81.90	84.90	30	12	0.637	0.592	£29.26	£22.38
ZSH1.5-53	53	83.48	86.48	30	12	0.661	0.615	£29.67	£22.74
ZSH1.5-54	54	85.05	88.05	30	12	0.685	0.639	£29.82	£22.80
ZSH1.5-55	55	86.63	89.63	30	12	0.709	0.664	£31.74	£24.40
ZSH1.5-56	56	88.20	91.20	30	12	0.734	0.688	£31.96	£24.54
ZSH1.5-57	57	89.78	92.78	30	12	0.759	0.714	£32.27	£24.73
ZSH1.5-58	58	91.35	94.35	30	12	0.785	0.739	£32.43	£24.86
ZSH1.5-59	59	92.93	95.93	30	12	0.811	0.766	£32.61	£25.03
ZSH1.5-60	60	94.50	97.50	30	12	0.838	0.792	£36.36	£27.91
ZSH1.5-62	62	97.65	100.65	30	12	0.892	0.847	£37.08	£28.48
ZSH1.5-64	64	100.80	103.80	30	12	0.948	0.903	£37.52	£28.84
ZSH1.5-65	65	102.38	105.38	30	12	0.977	0.932	£38.52	£29.54
ZSH1.5-66	66	103.95	106.95	40	12	1.049	0.961	£39.94	£31.21
ZSH1.5-68	68	107.10	110.10	40	12	1.109	1.021	£40.84	£31.29
ZSH1.5-70	70	110.25	113.25	40	12	1.170	1.083	£42.33	£32.43
ZSH1.5-71	71	111.83	114.83	40	12	1.202	1.114	£45.78	£34.24
ZSH1.5-72	72	113.40	116.40	40	12	1.234	1.146	£49.16	£34.29
ZSH1.5-73	73	114.98	117.98	40	12	1.266	1.179	£52.40	£40.21
ZSH1.5-74	74	116.55	119.55	40	12	1.299	1.212	£52.64	£40.68
ZSH1.5-75	75	118.13	121.13	40	12	1.333	1.245	£55.27	£42.34
ZSH1.5-76	76	119.70	122.70	40	12	1.366	1.279	£57.30	£43.98
ZSH1.5-78	78	122.85	125.85	40	12	1.435	1.348	£59.63	£46.49
ZSH1.5-80	80	126.00	129.00	40	12	1.506	1.418	£61.07	£46.84
ZSH1.5-86	86	135.45	138.45	40	12	1.728	1.641	£76.73	£58.89
ZSH1.5-90	90	141.75	144.75	40	12	1.886	1.798	£81.57	£62.42
ZSH1.5-96	96	151.20	154.20	50	15	2.135	2.048	£94.02	£72.14
ZSH1.5-100	100	157.50	160.50	50	15	2.311	2.223	£104.71	£82.82

Helical Gears Parallel Axis Plastic MOD 1.5

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

2 MOD

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 120



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	33.89	134.05	16.94	12.10
	K.W.	3.56	14.04	1.78	1.27

RH 17°45'

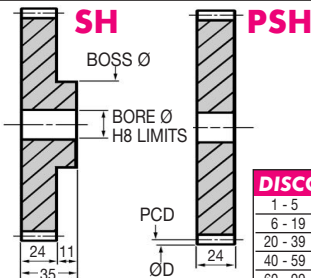


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH2-9	9	21.00	25.00	25	12	0.075	0.043	£17.89	£14.90
SH2-10	10	21.00	25.00	25	12	0.075	0.043	£17.90	£14.95
SH2-11	11	23.10	27.10	25	12	0.088	0.056	£17.94	£14.95
SH2-12	12	25.20	29.20	25	12	0.103	0.071	£17.98	£14.96
SH2-13	13	27.30	31.30	25	12	0.119	0.087	£19.04	£15.95
SH2-14	14	29.40	33.40	25	12	0.136	0.104	£20.12	£16.92
SH2-15	15	31.50	35.50	25	15	0.137	0.111	£21.21	£17.90
SH2-16	16	33.60	37.60	25	15	0.157	0.130	£22.26	£18.88
SH2-17	17	35.70	39.70	25	15	0.178	0.151	£22.74	£19.42
SH2-18	18	37.80	41.80	30	15	0.218	0.174	£23.31	£19.95
SH2-19	19	39.90	43.90	30	15	0.242	0.197	£23.91	£20.42
SH2-20	20	42.00	46.00	30	15	0.267	0.222	£24.40	£20.91
SH2-21	21	44.10	48.10	30	15	0.293	0.248	£25.07	£21.38
SH2-22	22	46.20	50.20	35	15	0.342	0.275	£25.52	£21.92
SH2-23	23	48.30	52.30	35	15	0.370	0.304	£26.04	£22.43
SH2-24	24	50.40	54.40	35	15	0.400	0.334	£26.60	£22.90
SH2-25	25	52.50	56.50	35	15	0.431	0.365	£28.13	£24.85
SH2-26	26	54.60	58.60	35	15	0.464	0.398	£28.95	£25.86
SH2-27	27	56.70	60.70	40	20	0.485	0.406	£29.93	£26.80
SH2-28	28	58.80	62.80	40	20	0.520	0.441	£30.61	£27.51
SH2-29	29	60.90	64.90	40	20	0.557	0.477	£31.35	£28.14
SH2-30	30	63.00	67.00	40	20	0.594	0.515	£32.05	£28.79
SH2-31	31	65.10	69.10	40	20	0.633	0.554	£33.36	£29.79

Helical Gears Parallel Axis Steel MOD 2

24.28



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH2-32	32	67.20	71.20	40	20	0.673	0.594	£34.84	£30.76
SH2-33	33	69.30	73.30	40	20	0.714	0.635	£35.54	£31.35
SH2-34	34	71.40	75.40	40	20	0.757	0.678	£37.29	£32.05
SH2-35	35	73.50	77.50	50	20	0.860	0.722	£38.50	£32.71
SH2-36	36	75.60	79.60	50	20	0.906	0.767	£40.65	£34.75
SH2-37	37	77.70	81.70	50	20	0.952	0.813	£41.16	£35.47
SH2-38	38	79.80	83.80	50	20	1.000	0.861	£42.24	£36.25
SH2-39	39	81.90	85.90	50	20	1.049	0.910	£43.22	£36.98
SH2-40	40	84.00	88.00	50	20	1.099	0.960	£43.99	£37.71
SH2-41	41	86.10	90.10	50	20	1.150	1.012	£44.80	£38.28
SH2-42	42	88.20	92.20	50	20	1.203	1.064	£45.35	£38.86
SH2-43	43	90.30	94.30	50	20	1.257	1.118	£45.92	£39.53
SH2-44	44	92.40	96.40	50	20	1.313	1.174	£46.60	£40.06
SH2-45	45	94.50	98.50	50	20	1.369	1.230	£47.33	£40.68
SH2-46	46	96.60	100.60	50	20	1.427	1.288	£48.45	£41.66
SH2-47	47	98.70	102.70	50	20	1.486	1.347	£49.56	£42.67
SH2-48	48	100.80	104.80	50	20	1.547	1.408	£50.99	£43.66
SH2-49	49	102.90	106.90	50	20	1.608	1.470	£52.53	£45.15
SH2-50	50	105.00	109.00	50	20	1.671	1.533	£54.56	£46.59
SH2-51	51	107.10	111.10	50	20	1.736	1.597	£55.65	£47.47
SH2-52	52	109.20	113.20	50	20	1.801	1.662	£56.60	£48.38
SH2-53	53	111.30	115.30	50	20	1.868	1.729	£57.28	£49.21
SH2-54	54	113.40	117.40	50	20	1.936	1.797	£58.22	£50.10
SH2-55	55	115.50	119.50	50	20	2.005	1.867	£63.91	£53.59
SH2-56	56	117.60	121.60	50	20	2.076	1.937	£65.27	£54.20
SH2-57	57	119.70	123.70	50	20	2.148	2.009	£66.58	£54.89
SH2-58	58	121.80	125.80	50	20	2.221	2.082	£67.80	£55.50
SH2-59	59	123.90	127.90	50	20	2.295	2.157	£68.51	£56.12
SH2-60	60	126.00	130.00	50	20	2.371	2.232	£69.53	£56.82
SH2-62	62	130.20	134.20	50	20	2.526	2.387	£71.19	£58.93
SH2-64	64	134.40	138.40	50	20	2.687	2.548	£72.94	£61.12
SH2-65	65	136.50	140.50	50	20	2.769	2.630	£76.37	£63.27
SH2-66	66	138.60	142.60	50	20	2.852	2.713	£77.70	£64.29
SH2-68	68	142.80	146.80	50	20	3.022	2.884	£78.89	£65.40
SH2-70	70	147.00	151.00	50	20	3.198	3.059	£80.85	£66.43
SH2-71	71	149.10	153.10	50	20	3.288	3.149	£85.29	£71.06
SH2-72	72	151.20	155.20	50	20	3.379	3.240	£90.49	£75.40
SH2-73	73	153.30	157.30	50	20	3.471	3.332	£94.14	£78.45
SH2-74	74	155.40	159.40	50	20	3.564	3.426	£96.79	£80.72
SH2-75	75	157.50	161.50	50	20	3.659	3.520	£100.01	£83.34
SH2-76	76	159.60	163.60	50	20	3.755	3.616	£104.95	£87.46
SH2-78	78	163.80	167.80	50	20	3.951	3.812	£110.35	£91.98
SH2-80	80	168.00	172.00	50	20	4.152	4.013	£121.14	£100.89
SH2-86	86	180.60	184.60	50	20	4.786	4.647	£130.35	£108.59
SH2-90	90	189.00	193.00	50	20	5.234	5.095	£144.62	£120.50
SH2-96	96	201.60	205.60	50	20	5.943	5.805	£154.80	£129.00
SH2-98	98	205.80	209.80	50	20	6.190	6.051	£168.40	£140.34
SH2-100	100	210.00	214.00	50	20	6.442	6.303	£179.74	£149.78
SH2-105	105	220.50	224.50	50	20	7.094	6.955	£186.45	£155.35
SH2-110	110	231.00	235.00	50	20	7.778	7.639	£199.23	£166.01
SH2-115	115	241.50	245.50	50	20	8.494	8.355	£213.12	£177.55
SH2-120	120	252.00	256.00	50	20	9.241	9.102	£231.53	£192.93

Helical Gears Parallel Axis Steel MOD 2

Please consult Technical for larger sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

2 MOD

17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 80



TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 8.00



RH 17°45'

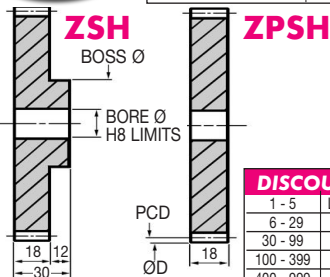


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	1 - 5	List Price
6 - 29	-	- 22%
30 - 99	-	- 44%
100 - 399	-	- 47%
400 - 999	-	- 50%
1000 - 5000	-	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH2-9	9	21.00	25.00	24	10	0.044	0.037	£8.91	£6.81
ZSH2-10	10	21.00	25.00	24	10	0.044	0.037	£8.93	£6.82
ZSH2-11	11	23.10	27.10	24	10	0.056	0.047	£8.94	£6.87
ZSH2-12	12	25.20	29.20	24	10	0.069	0.058	£8.96	£6.87
ZSH2-13	13	27.30	31.30	24	10	0.084	0.070	£10.50	£8.02
ZSH2-14	14	29.40	33.40	24	10	0.099	0.083	£11.12	£8.53
ZSH2-15	15	31.50	35.50	25	12	0.110	0.092	£11.73	£8.93
ZSH2-16	16	33.60	37.60	27	12	0.128	0.107	£12.32	£9.40
ZSH2-17	17	35.70	39.70	30	12	0.146	0.122	£12.62	£9.60
ZSH2-18	18	37.80	41.80	30	12	0.166	0.139	£12.89	£9.86
ZSH2-19	19	39.90	43.90	30	12	0.188	0.157	£13.27	£10.12
ZSH2-20	20	42.00	46.00	30	12	0.210	0.175	£15.38	£11.76
ZSH2-21	21	44.10	48.10	30	12	0.234	0.195	£15.77	£12.08
ZSH2-22	22	46.20	50.20	30	12	0.258	0.215	£16.09	£12.32
ZSH2-23	23	48.30	52.30	30	12	0.284	0.237	£16.42	£12.52
ZSH2-24	24	50.40	54.40	30	12	0.310	0.259	£20.12	£15.42
ZSH2-25	25	52.50	56.50	30	12	0.339	0.283	£21.24	£16.25
ZSH2-26	26	54.60	58.60	30	12	0.368	0.307	£21.91	£16.73
ZSH2-27	27	56.70	60.70	30	12	0.398	0.332	£22.68	£17.34
ZSH2-28	28	58.80	62.80	30	12	0.429	0.358	£23.15	£17.76
ZSH2-29	29	60.90	64.90	30	12	0.463	0.386	£26.90	£20.64
ZSH2-30	30	63.00	67.00	30	12	0.468	0.414	£27.51	£21.09
ZSH2-31	31	65.10	69.10	30	12	0.497	0.443	£28.61	£21.96

Helical Gears Parallel Axis Plastic MOD 2

24.30



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH2-32	32	67.20	71.20	30	12	0.527	0.473	£29.85	£22.90
ZSH2-33	33	69.30	73.30	30	12	0.558	0.504	£30.43	£23.31
ZSH2-34	34	71.40	75.40	30	12	0.590	0.536	£33.85	£25.95
ZSH2-35	35	73.50	77.50	30	12	0.623	0.569	£34.93	£26.80
ZSH2-36	36	75.60	79.60	35	15	0.666	0.594	£36.93	£28.28
ZSH2-37	37	77.70	81.70	35	15	0.701	0.629	£37.34	£28.66
ZSH2-38	38	79.80	83.80	35	15	0.737	0.665	£38.30	£29.40
ZSH2-39	39	81.90	85.90	35	15	0.773	0.701	£39.22	£30.08
ZSH2-40	40	84.00	88.00	35	15	0.811	0.739	£39.94	£30.72
ZSH2-41	41	86.10	90.10	35	15	0.850	0.778	£40.68	£31.16
ZSH2-42	42	88.20	92.20	35	15	0.889	0.817	£41.15	£31.54
ZSH2-43	43	90.30	94.30	35	15	0.930	0.858	£46.34	£35.54
ZSH2-44	44	92.40	96.40	35	15	0.971	0.899	£47.04	£36.06
ZSH2-45	45	94.50	98.50	35	15	1.014	0.942	£47.77	£36.67
ZSH2-46	46	96.60	100.60	35	15	1.057	0.985	£53.47	£41.24
ZSH2-47	47	98.70	102.70	35	15	1.102	1.030	£55.01	£42.22
ZSH2-48	48	100.80	104.80	35	15	1.147	1.075	£56.60	£43.43
ZSH2-49	49	102.90	106.90	35	15	1.193	1.121	£58.32	£44.73
ZSH2-50	50	105.00	109.00	35	15	1.240	1.168	£60.55	£46.49
ZSH2-51	51	107.10	111.10	35	15	1.289	1.217	£61.80	£47.35
ZSH2-52	52	109.20	113.20	35	15	1.338	1.266	£62.84	£48.24
ZSH2-53	53	111.30	115.30	35	15	1.388	1.316	£63.57	£48.79
ZSH2-54	54	113.40	117.40	35	15	1.439	1.367	£64.58	£49.51
ZSH2-55	55	115.50	119.50	35	15	1.491	1.419	£70.92	£54.42
ZSH2-56	56	117.60	121.60	35	15	1.544	1.472	£79.05	£60.72
ZSH2-57	57	119.70	123.70	35	15	1.598	1.526	£80.59	£61.83
ZSH2-58	58	121.80	125.80	35	15	1.653	1.581	£82.08	£63.00
ZSH2-59	59	123.90	127.90	35	15	1.708	1.636	£83.03	£63.61
ZSH2-60	60	126.00	130.00	35	15	1.765	1.693	£84.15	£64.56
ZSH2-62	62	130.20	134.20	35	15	1.882	1.810	£86.23	£66.19
ZSH2-64	64	134.40	138.40	35	15	2.002	1.930	£88.33	£67.76
ZSH2-65	65	136.50	140.50	40	15	2.090	1.991	£100.28	£76.88
ZSH2-66	66	138.60	142.60	40	15	2.153	2.054	£101.96	£78.19
ZSH2-68	68	142.80	146.80	40	15	2.281	2.182	£103.43	£79.43
ZSH2-70	70	147.00	151.00	40	15	2.412	2.313	£106.08	£81.38
ZSH2-71	71	149.10	153.10	40	15	2.480	2.381	£111.90	£85.83
ZSH2-72	72	151.20	155.20	40	15	2.548	2.449	£118.74	£91.11
ZSH2-73	73	153.30	157.30	40	15	2.617	2.518	£123.54	£94.77
ZSH2-74	74	155.40	159.40	40	15	2.687	2.588	£126.95	£97.40
ZSH2-75	75	157.50	161.50	50	15	2.823	2.659	£151.44	£116.19
ZSH2-76	76	159.60	163.60	50	15	2.895	2.731	£158.89	£121.89
ZSH2-78	78	163.80	167.80	50	15	3.042	2.878	£167.02	£128.15
ZSH2-80	80	168.00	172.00	50	15	3.193	3.029	£183.39	£140.69

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

2.5 MOD

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back				
TORQUE Nm.	66.17	261.76	33.00	23.63
K.W.	6.94	27.43	3.47	2.48

RH 17°45'

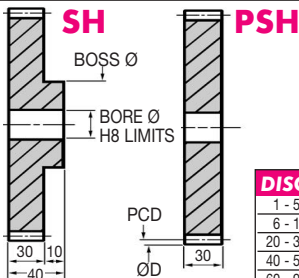


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH2.5-9	9	26.25	31.25	30	12	0.144	0.098	£24.67	£16.29
SH2.5-10	10	26.25	31.25	30	12	0.144	0.098	£24.70	£16.32
SH2.5-11	11	28.88	33.88	30	12	0.170	0.124	£24.72	£16.35
SH2.5-12	12	31.50	36.50	30	15	0.179	0.138	£24.73	£16.38
SH2.5-13	13	34.13	39.13	30	15	0.210	0.169	£25.31	£17.31
SH2.5-14	14	36.75	41.75	30	15	0.244	0.203	£26.47	£18.23
SH2.5-15	15	39.38	44.38	30	15	0.280	0.239	£28.14	£20.08
SH2.5-16	16	42.00	47.00	30	15	0.318	0.277	£29.81	£21.91
SH2.5-17	17	44.63	49.63	30	15	0.359	0.319	£30.39	£22.79
SH2.5-18	18	47.25	52.25	30	15	0.403	0.362	£31.50	£23.74
SH2.5-19	19	49.88	54.88	30	15	0.449	0.408	£32.35	£24.70
SH2.5-20	20	52.50	57.50	40	20	0.497	0.425	£33.50	£25.69
SH2.5-21	21	55.13	60.13	40	20	0.548	0.476	£34.33	£26.67
SH2.5-22	22	57.75	62.75	40	20	0.601	0.529	£35.54	£27.64
SH2.5-23	23	60.38	65.38	40	20	0.657	0.585	£36.45	£28.60
SH2.5-24	24	63.00	68.00	40	20	0.716	0.643	£37.52	£29.53
SH2.5-25	25	65.63	70.63	40	20	0.777	0.704	£39.55	£31.50
SH2.5-26	26	68.25	73.25	45	20	0.865	0.768	£41.53	£33.47
SH2.5-27	27	70.88	75.88	45	20	0.931	0.834	£42.40	£34.51
SH2.5-28	28	73.50	78.50	45	20	1.000	0.902	£43.56	£35.44
SH2.5-29	29	76.13	81.13	45	20	1.071	0.973	£44.97	£37.31
SH2.5-30	30	78.75	83.75	45	20	1.144	1.046	£46.50	£39.05
SH2.5-31	31	81.38	86.38	45	20	1.220	1.122	£47.66	£40.93

24.32



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Helical Gears Parallel Axis Steel MOD 2.5

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH2.5-32	32	84.00	89.00	45	20	1.298	1.200	£49.27	£42.76
SH2.5-33	33	86.63	91.63	45	20	1.379	1.281	£49.87	£43.97
SH2.5-34	34	89.25	94.25	45	20	1.462	1.364	£51.09	£45.18
SH2.5-35	35	91.88	96.88	45	20	1.548	1.450	£52.29	£46.36
SH2.5-36	36	94.50	99.50	45	20	1.636	1.538	£55.09	£50.10
SH2.5-37	37	97.13	102.13	45	20	1.727	1.629	£55.84	£50.92
SH2.5-38	38	99.75	104.75	45	20	1.820	1.722	£57.41	£51.82
SH2.5-39	39	102.38	107.38	45	20	1.915	1.818	£58.28	£52.69
SH2.5-40	40	105.00	110.00	50	20	2.042	1.916	£59.67	£53.59
SH2.5-41	41	107.63	112.63	50	20	2.143	2.017	£61.13	£54.28
SH2.5-42	42	110.25	115.25	50	20	2.246	2.119	£62.08	£54.97
SH2.5-43	43	112.88	117.88	50	20	2.351	2.225	£62.72	£55.75
SH2.5-44	44	115.50	120.50	50	20	2.459	2.333	£63.46	£56.35
SH2.5-45	45	118.13	123.13	50	20	2.570	2.444	£64.28	£57.12
SH2.5-46	46	120.75	125.75	50	20	2.683	2.557	£65.75	£58.28
SH2.5-47	47	123.38	128.38	50	20	2.799	2.673	£67.02	£59.46
SH2.5-48	48	126.00	131.00	50	20	2.917	2.790	£68.84	£60.59
SH2.5-49	49	128.63	133.63	50	20	3.037	2.911	£70.73	£62.37
SH2.5-50	50	131.25	136.25	50	20	3.160	3.034	£72.67	£64.06
SH2.5-51	51	133.88	138.88	50	20	3.286	3.160	£72.96	£64.93
SH2.5-52	52	136.50	141.50	50	20	3.413	3.287	£73.27	£65.85
SH2.5-53	53	139.13	144.13	50	20	3.544	3.418	£75.03	£66.70
SH2.5-54	54	141.75	146.75	50	20	3.677	3.551	£75.81	£67.53
SH2.5-55	55	144.38	149.38	50	20	3.813	3.686	£83.17	£71.06
SH2.5-56	56	147.00	152.00	50	20	3.950	3.824	£84.62	£71.70
SH2.5-57	57	149.63	154.63	50	20	4.091	3.965	£86.17	£72.41
SH2.5-58	58	152.25	157.25	50	20	4.233	4.107	£87.35	£73.06
SH2.5-59	59	154.88	159.88	50	20	4.379	4.253	£88.72	£73.77
SH2.5-60	60	157.50	162.50	50	20	4.527	4.400	£90.15	£74.45
SH2.5-62	62	162.75	167.75	50	20	4.830	4.704	£102.11	£89.11
SH2.5-64	64	168.00	173.00	50	20	5.143	5.017	£115.28	£103.69
SH2.5-65	65	170.63	175.63	50	20	5.303	5.177	£123.51	£110.74
SH2.5-66	66	173.25	178.25	50	20	5.466	5.340	£135.83	£114.30
SH2.5-68	68	178.50	183.50	50	20	5.799	5.673	£141.84	£118.03
SH2.5-70	70	183.75	188.75	50	20	6.142	6.016	£150.41	£125.03
SH2.5-71	71	186.38	191.38	50	20	6.317	6.191	£159.58	£132.95
SH2.5-72	72	189.00	194.00	50	20	6.495	6.368	£169.25	£141.08
SH2.5-73	73	191.63	196.63	50	20	6.675	6.549	£175.50	£146.22
SH2.5-74	74	194.25	199.25	50	20	6.857	6.731	£182.48	£152.00
SH2.5-75	75	196.88	201.88	50	20	7.043	6.917	£189.44	£157.82
SH2.5-76	76	199.50	204.50	50	20	7.230	7.104	£196.40	£163.61
SH2.5-78	78	204.75	209.75	50	20	7.613	7.487	£199.95	£166.63
SH2.5-80	80	210.00	215.00	50	20	8.005	7.879	£203.50	£169.57
SH2.5-86	86	225.75	230.75	50	20	9.243	9.117	£207.42	£172.79
SH2.5-90	90	236.25	241.25	50	20	10.117	9.991	£226.88	£189.03
SH2.5-96	96	252.00	257.00	50	20	11.504	11.378	£244.23	£203.50
SH2.5-98	98	257.25	262.25	50	20	11.986	11.860	£258.26	£215.22
SH2.5-100	100	262.50	267.50	50	20	12.478	12.352	£289.84	£241.54
SH2.5-105	105	275.63	280.63	50	20	13.752	13.626	£314.39	£261.95
SH2.5-110	110	288.75	293.75	50	20	15.087	14.961	£333.69	£278.07
SH2.5-115	115	301.88	306.88	100	20	16.936	16.359	£363.55	£302.93

Up to Ø750 mm

Please consult Technical for larger sizes.



Helical Gears

Plastic - Parallel Axis

2.5 MOD 17°45' H.A.
20° P.A.

Materials

STD : White Delrin
(fully machined)

SPECIALS : up to Ø750 mm



TORQUE CHECK		
50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	12.00

RH 17°45'

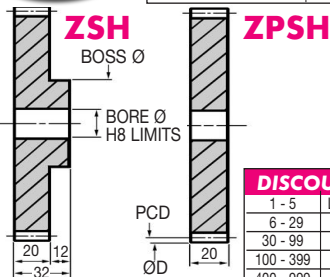


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	1 - 5	List Price
6 - 29	-	- 22%
30 - 99	-	- 44%
100 - 399	-	- 47%
400 - 999	-	- 50%
1000 - 5000	-	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							ZSH	ZPSH	
ZSH2.5-9	9	26.25	31.25	30	10	0.113	0.071	£13.74	£10.43
ZSH2.5-10	10	26.25	31.25	30	10	0.113	0.071	£13.75	£10.44
ZSH2.5-11	11	28.88	33.88	30	10	0.140	0.088	£13.77	£10.45
ZSH2.5-12	12	31.50	36.50	30	12	0.132	0.102	£13.78	£10.46
ZSH2.5-13	13	34.13	39.13	30	12	0.159	0.123	£15.93	£12.16
ZSH2.5-14	14	36.75	41.75	30	12	0.188	0.145	£16.64	£12.75
ZSH2.5-15	15	39.38	44.38	30	12	0.202	0.169	£16.68	£13.57
ZSH2.5-16	16	42.00	47.00	30	12	0.234	0.195	£18.74	£14.35
ZSH2.5-17	17	44.63	49.63	30	12	0.266	0.222	£22.94	£17.61
ZSH2.5-18	18	47.25	52.25	30	12	0.301	0.251	£23.83	£18.23
ZSH2.5-19	19	49.88	54.88	30	12	0.338	0.282	£24.46	£18.74
ZSH2.5-20	20	52.50	57.50	30	12	0.376	0.314	£25.33	£19.07
ZSH2.5-21	21	55.13	60.13	30	12	0.417	0.348	£29.40	£22.55
ZSH2.5-22	22	57.75	62.75	30	12	0.460	0.384	£30.43	£23.31
ZSH2.5-23	23	60.38	65.38	30	12	0.505	0.421	£31.24	£23.92
ZSH2.5-24	24	63.00	68.00	30	12	0.552	0.460	£32.25	£24.66
ZSH2.5-25	25	65.63	70.63	30	12	0.580	0.500	£33.88	£25.97
ZSH2.5-26	26	68.25	73.25	30	12	0.597	0.543	£35.58	£27.30
ZSH2.5-27	27	70.88	75.88	30	12	0.641	0.587	£38.52	£29.54
ZSH2.5-28	28	73.50	78.50	35	15	0.694	0.622	£39.53	£30.34
ZSH2.5-29	29	76.13	81.13	35	15	0.742	0.670	£40.79	£31.29
ZSH2.5-30	30	78.75	83.75	35	15	0.791	0.718	£42.22	£32.33
ZSH2.5-31	31	81.38	86.38	35	15	0.841	0.769	£43.24	£33.17

24.34



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH2.5-32	32	84.00	89.00	35	15	0.893	0.821	£49.72	£38.15
ZSH2.5-33	33	86.63	91.63	35	15	0.947	0.875	£50.34	£38.61
ZSH2.5-34	34	89.25	94.25	35	15	1.003	0.930	£51.57	£39.53
ZSH2.5-35	35	91.88	96.88	35	15	1.060	0.988	£52.74	£40.45
ZSH2.5-36	36	94.50	99.50	45	17	1.164	1.039	£55.52	£42.72
ZSH2.5-37	37	97.13	102.13	45	17	1.224	1.099	£56.34	£43.22
ZSH2.5-38	38	99.75	104.75	45	17	1.286	1.161	£57.94	£44.40
ZSH2.5-39	39	102.38	107.38	45	17	1.350	1.225	£58.65	£45.10
ZSH2.5-40	40	105.00	110.00	45	17	1.416	1.290	£60.21	£46.21
ZSH2.5-41	41	107.63	112.63	45	17	1.483	1.358	£61.66	£47.31
ZSH2.5-42	42	110.25	115.25	45	17	1.552	1.426	£62.62	£48.01
ZSH2.5-43	43	112.88	117.88	45	17	1.622	1.497	£63.27	£48.52
ZSH2.5-44	44	115.50	120.50	45	17	1.694	1.569	£70.39	£54.04
ZSH2.5-45	45	118.13	123.13	45	17	1.768	1.643	£71.35	£54.78
ZSH2.5-46	46	120.75	125.75	45	17	1.843	1.718	£73.00	£56.03
ZSH2.5-47	47	123.38	128.38	45	17	1.920	1.795	£74.42	£57.07
ZSH2.5-48	48	126.00	131.00	45	17	1.999	1.874	£76.42	£58.63
ZSH2.5-49	49	128.63	133.63	45	17	2.079	1.954	£78.47	£60.21
ZSH2.5-50	50	131.25	136.25	45	17	2.161	2.036	£80.64	£61.86
ZSH2.5-51	51	133.88	138.88	45	17	2.245	2.120	£81.32	£62.39
ZSH2.5-52	52	136.50	141.50	45	17	2.330	2.205	£81.33	£62.42
ZSH2.5-53	53	139.13	144.13	45	17	2.417	2.292	£90.84	£69.73
ZSH2.5-54	54	141.75	146.75	45	17	2.506	2.380	£91.84	£72.86
ZSH2.5-55	55	144.38	149.38	45	17	2.596	2.471	£100.52	£77.24
ZSH2.5-56	56	147.00	152.00	45	17	2.688	2.563	£102.48	£78.59
ZSH2.5-57	57	149.63	154.63	60	20	2.874	2.643	£104.36	£80.05
ZSH2.5-58	58	152.25	157.25	60	20	2.969	2.738	£116.44	£90.37
ZSH2.5-59	59	154.88	159.88	60	20	3.066	2.835	£118.61	£90.78
ZSH2.5-60	60	157.50	162.50	60	20	3.164	2.934	£133.86	£102.81
ZSH2.5-62	62	162.75	167.75	60	20	3.367	3.136	£151.29	£116.03
ZSH2.5-64	64	168.00	173.00	60	20	3.575	3.344	£162.03	£124.40
ZSH2.5-65	65	170.63	175.63	60	20	3.682	3.451	£178.21	£136.69
ZSH2.5-66	66	173.25	178.25	60	20	3.791	3.560	£186.05	£142.76
ZSH2.5-68	68	178.50	183.50	60	20	4.013	3.782	£197.39	£151.29
ZSH2.5-70	70	183.75	188.75	60	20	4.241	4.010	£209.35	£160.62
ZSH2.5-71	71	186.38	191.38	60	20	4.358	4.127	£221.99	£170.35
ZSH2.5-72	72	189.00	194.00	60	20	4.476	4.246	£230.24	£176.66
ZSH2.5-73	73	191.63	196.63	60	20	4.597	4.366	£276.18	£211.94
ZSH2.5-74	74	194.25	199.25	60	20	4.718	4.487	£286.81	£220.20
ZSH2.5-75	75	196.88	201.88	60	20	4.842	4.611	£297.33	£229.63

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

3 MOD

17°45'H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIALS : up to Ø750 mm

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	114.23	451.91	57.12	40.80
	K.W.	11.98	47.36	5.98	4.27



RH 17°45'

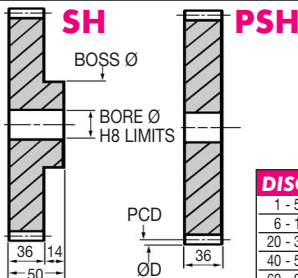


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Helical Gears Parallel Axis Steel MOD 3

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH3-9	9	31.50	37.50	30	15	0.223	0.166	£30.53	£22.30
SH3-10	10	31.50	37.50	30	15	0.223	0.166	£30.54	£22.31
SH3-11	11	34.65	40.65	30	15	0.268	0.211	£30.55	£22.33
SH3-12	12	37.80	43.80	30	20	0.265	0.223	£30.57	£22.36
SH3-13	13	40.95	46.95	30	20	0.318	0.276	£31.67	£25.69
SH3-14	14	44.10	50.10	30	20	0.376	0.334	£33.04	£29.05
SH3-15	15	47.25	53.25	30	20	0.439	0.396	£34.02	£31.61
SH3-16	16	50.40	56.40	40	20	0.564	0.463	£36.19	£34.19
SH3-17	17	53.55	59.55	40	20	0.635	0.534	£38.17	£35.45
SH3-18	18	56.70	62.70	40	20	0.710	0.609	£40.21	£36.73
SH3-19	19	59.85	65.85	40	20	0.789	0.688	£41.71	£38.04
SH3-20	20	63.00	69.00	50	25	0.881	0.724	£43.03	£39.27
SH3-21	21	66.15	72.15	50	25	0.969	0.812	£44.50	£40.48
SH3-22	22	69.30	75.30	50	25	1.062	0.904	£46.05	£41.63
SH3-23	23	72.45	78.45	50	25	1.158	1.000	£47.46	£42.81
SH3-24	24	75.60	81.60	50	25	1.259	1.101	£48.84	£43.97
SH3-25	25	78.75	84.75	50	25	1.364	1.207	£51.77	£46.27
SH3-26	26	81.90	87.90	50	25	1.474	1.316	£54.62	£48.55
SH3-27	27	85.05	91.05	50	25	1.588	1.430	£56.01	£51.34
SH3-28	28	88.20	94.20	50	25	1.706	1.548	£57.63	£54.13
SH3-29	29	91.35	97.35	50	25	1.828	1.670	£59.93	£54.97
SH3-30	30	94.50	100.50	50	25	1.955	1.797	£62.08	£55.82
SH3-31	31	97.65	103.65	50	25	2.086	1.928	£64.26	£58.28

24.36



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH3-32	32	100.80	106.80	50	25	2.221	2.063	£66.63	£59.06
SH3-33	33	103.95	109.95	50	25	2.360	2.203	£70.23	£63.11
SH3-34	34	107.10	113.10	50	25	2.504	2.347	£71.60	£65.53
SH3-35	35	110.25	116.25	60	25	2.745	2.495	£77.18	£70.33
SH3-36	36	113.40	119.40	60	25	2.897	2.647	£80.16	£76.22
SH3-37	37	116.55	122.55	60	25	3.054	2.804	£81.69	£77.66
SH3-38	38	119.70	125.70	60	25	3.215	2.965	£82.86	£79.11
SH3-39	39	122.85	128.85	60	25	3.380	3.130	£83.94	£80.54
SH3-40	40	126.00	132.00	60	25	3.550	3.300	£85.14	£82.00
SH3-41	41	129.15	135.15	60	25	3.724	3.474	£86.63	£83.40
SH3-42	42	132.30	138.30	60	25	3.902	3.652	£87.72	£84.92
SH3-43	43	135.45	141.45	60	25	4.085	3.834	£95.59	£86.37
SH3-44	44	138.60	144.60	60	25	4.271	4.021	£107.26	£91.17
SH3-45	45	141.75	147.75	60	25	4.462	4.212	£125.88	£96.07
SH3-46	46	144.90	150.90	60	25	4.658	4.407	£126.95	£97.51
SH3-47	47	148.05	154.05	60	25	4.857	4.607	£127.93	£98.97
SH3-48	48	151.20	157.20	60	25	5.061	4.811	£129.34	£100.41
SH3-49	49	154.35	160.35	60	25	5.270	5.019	£134.32	£103.37
SH3-50	50	157.50	163.50	60	25	5.482	5.232	£139.31	£106.30
SH3-51	51	160.65	166.65	60	25	5.699	5.449	£144.24	£111.11
SH3-52	52	163.80	169.80	60	25	5.920	5.670	£149.23	£122.79
SH3-53	53	166.95	172.95	60	25	6.146	5.895	£154.22	£131.11
SH3-54	54	170.10	176.10	60	25	6.375	6.125	£158.87	£132.14
SH3-55	55	173.25	179.25	60	25	6.609	6.359	£166.42	£132.29
SH3-56	56	176.40	182.40	60	25	6.848	6.597	£169.12	£133.69
SH3-57	57	179.55	185.55	60	25	7.090	6.840	£171.79	£135.36
SH3-58	58	182.70	188.70	60	25	7.337	7.087	£174.45	£138.78
SH3-59	59	185.85	191.85	60	25	7.588	7.338	£179.48	£138.86
SH3-60	60	189.00	195.00	60	25	7.844	7.593	£184.49	£138.91
SH3-61	61	192.15	198.15	60	25	8.103	7.853	£189.56	£150.87
SH3-62	62	195.30	201.30	60	25	8.368	8.117	£194.53	£159.35
SH3-63	63	198.45	204.45	60	25	8.636	8.386	£199.56	£164.46
SH3-64	64	201.60	207.60	60	25	8.909	8.658	£204.05	£170.00
SH3-65	65	204.75	210.75	60	25	9.185	8.935	£205.21	£171.00
SH3-68	68	214.20	220.20	60	25	10.042	9.792	£219.77	£183.15
SH3-70	70	220.50	226.50	60	25	10.635	10.384	£237.39	£197.84
SH3-72	72	226.80	232.80	60	25	11.244	10.994	£245.06	£204.24
SH3-75	75	236.25	242.25	60	25	12.191	11.941	£263.93	£219.88
SH3-76	76	239.40	245.40	60	25	12.515	12.265	£266.04	£221.69
SH3-78	78	245.70	251.70	60	25	13.176	12.926	£280.20	£233.51
SH3-80	80	252.00	258.00	60	25	13.855	13.605	£294.47	£245.37
SH3-82	82	258.30	264.30	60	25	14.550	14.300	£310.78	£259.01
SH3-84	84	264.60	270.60	60	25	15.263	15.013	£325.66	£271.39
SH3-86	86	270.90	276.90	60	25	15.993	15.743	£351.92	£293.24
SH3-88	88	277.20	283.20	60	25	16.740	16.490	£373.69	£311.31
SH3-90	90	283.50	289.50	60	25	17.504	17.254	£387.57	£322.93
SH3-92	92	289.80	295.80	60	25	18.286	18.036	£399.66	£333.01
SH3-94	94	296.10	302.10	60	25	19.084	18.834	£425.77	£354.81
SH3-95	95	299.25	305.25	60	25	19.490	19.240	£443.04	£369.19
SH3-96	96	302.40	308.40	60	25	19.900	19.650	£458.59	£382.16

Up to Ø750 mm

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Plastic - Parallel Axis
17° 45' H.A.
3 MOD 20° P.A.

Materials

STD : White Delrin
(fully machined)

SPECIALS : up to Ø750 mm



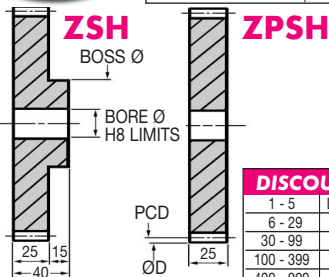
RH 17°45'



LH 17°45'

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 20



DISCOUNTS

	1 - 5	List Price
6 - 29	-	-22%
30 - 99	-	-44%
100 - 399	-	-47%
400 - 999	-	-50%
1000 - 5000	-	-53%

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH3-9	9	31.50	37.50	36	12	0.202	0.127	£16.90	£12.95
ZSH3-10	10	31.50	37.50	36	12	0.202	0.127	£16.92	£13.00
ZSH3-11	11	34.65	40.65	36	12	0.253	0.159	£16.93	£13.01
ZSH3-12	12	37.80	43.80	36	15	0.288	0.181	£16.94	£13.02
ZSH3-13	13	40.95	46.95	36	15	0.347	0.218	£19.93	£15.23
ZSH3-14	14	44.10	50.10	36	15	0.411	0.258	£20.81	£15.93
ZSH3-15	15	47.25	53.25	40	15	0.481	0.302	£21.39	£16.44
ZSH3-16	16	50.40	56.40	40	15	0.555	0.348	£27.39	£20.96
ZSH3-17	17	53.55	59.55	40	15	0.633	0.397	£28.89	£22.12
ZSH3-18	18	56.70	62.70	40	15	0.716	0.449	£30.41	£23.31
ZSH3-19	19	59.85	65.85	40	15	0.804	0.504	£31.54	£24.22
ZSH3-20	20	63.00	69.00	40	15	0.898	0.563	£36.93	£28.24
ZSH3-21	21	66.15	72.15	40	15	0.995	0.624	£38.15	£29.28
ZSH3-22	22	69.30	75.30	40	15	1.097	0.688	£39.47	£30.32
ZSH3-23	23	72.45	78.45	40	15	1.204	0.755	£40.68	£31.16
ZSH3-24	24	75.60	81.60	40	15	1.286	0.825	£44.31	£34.02
ZSH3-25	25	78.75	84.75	40	15	1.300	0.898	£46.97	£36.04
ZSH3-26	26	81.90	87.90	50	20	1.361	0.948	£49.60	£38.05
ZSH3-27	27	85.05	91.05	50	20	1.388	1.027	£50.82	£38.96
ZSH3-28	28	88.20	94.20	50	20	1.416	1.109	£52.31	£41.92
ZSH3-29	29	91.35	97.35	50	20	1.443	1.194	£60.45	£46.36
ZSH3-30	30	94.50	100.50	50	20	1.471	1.282	£62.62	£48.06
ZSH3-31	31	97.65	103.65	50	20	1.562	1.373	£64.82	£49.72

Helical Gears Parallel Axis Plastic MOD 3

24.38



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH3-32	32	100.80	106.80	50	20	1.656	1.467	£67.25	£51.57
ZSH3-33	33	103.95	109.95	50	20	1.753	1.563	£70.85	£54.31
ZSH3-34	34	107.10	113.10	50	20	1.853	1.663	£79.53	£60.95
ZSH3-35	35	110.25	116.25	50	20	1.956	1.766	£85.66	£65.70
ZSH3-36	36	113.40	119.40	50	20	2.061	1.872	£88.99	£68.20
ZSH3-37	37	116.55	122.55	50	20	2.170	1.981	£98.96	£75.91
ZSH3-38	38	119.70	125.70	50	20	2.282	2.093	£100.35	£77.01
ZSH3-39	39	122.85	128.85	50	20	2.397	2.207	£101.63	£77.98
ZSH3-40	40	126.00	132.00	50	20	2.515	2.325	£103.15	£79.14
ZSH3-41	41	129.15	135.15	50	20	2.635	2.446	£104.90	£80.48
ZSH3-42	42	132.30	138.30	60	20	2.858	2.570	£106.21	£81.47
ZSH3-43	43	135.45	141.45	60	20	2.985	2.696	£115.76	£88.82
ZSH3-44	44	138.60	144.60	60	20	3.115	2.826	£125.40	£96.20
ZSH3-45	45	141.75	147.75	60	20	3.247	2.959	£152.40	£116.93
ZSH3-46	46	144.90	150.90	60	20	3.383	3.095	£166.53	£127.77
ZSH3-47	47	148.05	154.05	60	20	3.522	3.233	£167.83	£128.78
ZSH3-48	48	151.20	157.20	60	20	3.663	3.375	£169.66	£130.19
ZSH3-49	49	154.35	160.35	60	20	3.808	3.519	£174.21	£135.27
ZSH3-50	50	157.50	163.50	60	20	3.956	3.667	£210.97	£161.87
ZSH3-51	51	160.65	166.65	60	20	4.106	3.818	£218.33	£167.53
ZSH3-52	52	163.80	169.80	60	20	4.260	3.971	£225.92	£173.33
ZSH3-53	53	166.95	172.95	60	20	4.416	4.128	£233.51	£179.17
ZSH3-54	54	170.10	176.10	70	20	4.693	4.287	£240.51	£184.57
ZSH3-55	55	173.25	179.25	70	20	4.855	4.450	£251.91	£193.33
ZSH3-56	56	176.40	182.40	70	20	5.021	4.615	£255.97	£196.41
ZSH3-57	57	179.55	185.55	70	20	5.189	4.784	£260.43	£199.55
ZSH3-58	58	182.70	188.70	70	20	5.361	4.955	£264.13	£202.68
ZSH3-59	59	185.85	191.85	70	20	5.535	5.130	£271.66	£208.44
ZSH3-60	60	189.00	195.00	70	20	5.713	5.307	£279.27	£214.34

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

4 MOD

17°45'H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIALS : up to Ø750 mm



TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations	TORQUE Nm.	338.00	1340.00	169.00	120.00
at back	K.W.	35.06	140.24	17.16	12.68

RH 17°45'

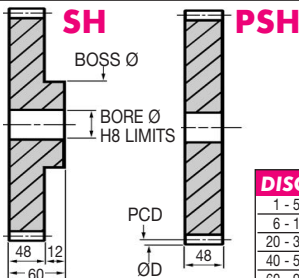


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Helical Gears Parallel Axis Steel MOD 4

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH4-9	9	42.00	50.00	40	20	0.480	0.393	£41.97	£36.97
SH4-10	10	42.00	50.00	40	20	0.480	0.393	£42.02	£36.98
SH4-11	11	46.20	54.20	40	20	0.587	0.500	£42.02	£37.00
SH4-12	12	50.40	58.40	40	20	0.704	0.617	£42.04	£37.02
SH4-13	13	54.60	62.60	40	20	0.831	0.745	£45.35	£39.89
SH4-14	14	58.80	66.80	40	20	0.969	0.882	£48.53	£42.58
SH4-15	15	63.00	71.00	40	25	1.035	0.965	£55.09	£47.81
SH4-16	16	67.20	75.20	50	25	1.258	1.122	£61.12	£51.62
SH4-17	17	71.40	79.40	50	25	1.426	1.290	£64.34	£55.75
SH4-18	18	75.60	83.60	50	25	1.604	1.468	£67.58	£59.79
SH4-19	19	79.80	87.80	50	25	1.792	1.657	£70.15	£60.38
SH4-20	20	84.00	92.00	50	25	1.990	1.855	£72.67	£60.46
SH4-21	21	88.20	96.20	50	25	2.199	2.064	£76.22	£65.59
SH4-22	22	92.40	100.40	50	25	2.418	2.283	£80.16	£71.13
SH4-23	23	96.60	104.60	50	25	2.647	2.512	£81.77	£72.43
SH4-24	24	100.80	108.80	50	25	2.886	2.751	£83.35	£73.88
SH4-25	25	105.00	113.00	80	30	3.318	2.921	£86.64	£76.61
SH4-26	26	109.20	117.20	80	30	3.577	3.180	£90.15	£79.36
SH4-27	27	113.40	121.40	80	30	3.847	3.450	£94.20	£82.00
SH4-28	28	117.60	125.60	80	30	4.127	3.730	£97.71	£84.73
SH4-29	29	121.80	129.80	80	30	4.417	4.020	£101.19	£87.46
SH4-30	30	126.00	134.00	80	30	4.717	4.320	£104.91	£90.15
SH4-31	31	130.20	138.20	80	30	5.027	4.631	£111.70	£94.88

24.40



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH4-32	32	134.40	142.40	80	30	5.348	4.951	£118.25	£99.70
SH4-33	33	138.60	146.60	80	30	5.679	5.282	£125.31	£104.24
SH4-34	34	142.80	150.80	80	30	6.020	5.623	£135.31	£109.26
SH4-35	35	147.00	155.00	80	30	6.371	5.974	£145.36	£113.76
SH4-36	36	151.20	159.20	80	30	6.732	6.335	£155.36	£125.31
SH4-37	37	155.40	163.40	80	30	7.104	6.707	£164.76	£127.78
SH4-38	38	159.60	167.60	80	30	7.485	7.089	£167.26	£130.28
SH4-39	39	163.80	171.80	80	30	7.877	7.480	£176.57	£132.86
SH4-40	40	168.00	176.00	80	30	8.279	7.882	£183.19	£135.31
SH4-41	41	172.20	180.20	80	30	8.691	8.295	£189.42	£137.35
SH4-42	42	176.40	184.40	80	30	9.114	8.717	£206.58	£142.75
SH4-43	43	180.60	188.60	80	30	9.546	9.150	£210.06	£144.71
SH4-44	44	184.80	192.80	80	30	9.989	9.592	£213.60	£150.15
SH4-45	45	189.00	197.00	80	30	10.442	10.045	£217.11	£159.01
SH4-46	46	193.20	201.20	80	30	10.905	10.508	£219.61	£165.78
SH4-47	47	197.40	205.40	80	30	11.378	10.981	£222.14	£172.53
SH4-48	48	201.60	209.60	80	30	11.862	11.465	£224.62	£179.30
SH4-49	49	205.80	213.80	80	30	12.355	11.959	£229.62	£186.81
SH4-50	50	210.00	218.00	80	30	12.859	12.462	£234.66	£194.31
SH4-51	51	214.20	222.20	80	30	13.373	12.976	£240.39	£200.30
SH4-52	52	218.40	226.40	80	30	13.897	13.500	£245.81	£204.86
SH4-53	53	222.60	230.60	80	30	14.431	14.035	£252.98	£210.78
SH4-54	54	226.80	234.80	80	30	14.976	14.579	£263.37	£219.43
SH4-55	55	231.00	239.00	80	30	15.531	15.134	£285.99	£238.28
SH4-56	56	235.20	243.20	80	30	16.095	15.699	£302.82	£252.32
SH4-57	57	239.40	247.40	80	30	16.670	16.274	£309.79	£258.10
SH4-58	58	243.60	251.60	80	30	17.256	16.859	£313.82	£261.49
SH4-59	59	247.80	255.80	80	30	17.851	17.454	£326.68	£272.22
SH4-60	60	252.00	260.00	80	30	18.457	18.060	£334.89	£279.06
SH4-61	61	256.20	264.20	80	30	19.072	18.676	£405.69	£338.03
SH4-62	62	260.40	268.40	80	30	19.698	19.302	£409.34	£341.10
SH4-63	63	264.60	272.60	80	30	20.334	19.938	£416.74	£347.27
SH4-64	64	268.80	276.80	80	30	20.981	20.584	£425.45	£354.53
SH4-65	65	273.00	281.00	80	30	21.637	21.240	£443.40	£369.52
SH4-66	66	277.20	285.20	80	30	22.304	21.907	£458.50	£382.13
SH4-67	67	281.40	289.40	80	30	22.981	22.584	£474.78	£395.61
SH4-68	68	285.60	293.60	80	30	23.668	23.271	£488.89	£407.39
SH4-69	69	289.80	297.80	80	30	24.365	23.968	£501.65	£418.07
SH4-70	70	294.00	302.00	80	30	25.072	24.675	£512.22	£426.84
SH4-71	71	298.20	306.20	80	30	25.790	25.393	£541.49	£451.26
SH4-72	72	302.40	310.40	80	30	26.517	26.121	£554.61	£460.54

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

17°45'H.A.

ALTERNATIVE : Brass or Tufnol

6 MOD

20° P.A.

SPECIAL TEETH : between 9 - 30



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	790	4680	395	315
	K.W.	82.8	490	58	33

RH 17°45'

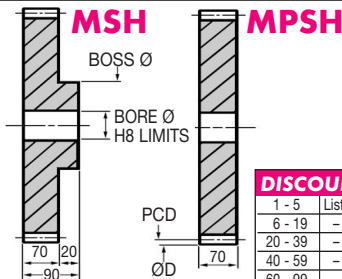


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Helical Gears Parallel Axis Steel MOD 6

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						MSH	MPSH	MSH	MPSH
MSH6-9	9	56.70	68.70	45	25	0.720	0.590	£84.09	£74.02
MSH6-10	10	63.00	75.00	45	25	0.720	0.590	£84.13	£74.04
MSH6-11	11	69.30	81.30	45	25	0.881	0.750	£84.15	£74.09
MSH6-12	12	75.60	87.60	50	25	1.056	0.926	£84.17	£74.13
MSH6-13	13	81.90	93.90	50	25	1.247	1.118	£90.74	£79.82
MSH6-14	14	88.20	100.20	50	25	1.454	1.323	£97.15	£85.28
MSH6-15	15	94.50	106.50	75	25	1.553	1.448	£110.25	£95.70
MSH6-16	16	100.80	112.80	75	25	1.887	1.683	£122.27	£103.34
MSH6-17	17	107.10	119.10	75	25	2.139	1.935	£128.78	£111.51
MSH6-18	18	113.40	125.40	75	25	2.406	2.202	£135.31	£119.71
MSH6-19	19	119.70	131.70	75	25	2.688	2.486	£140.41	£120.19
MSH6-20	20	126.00	138.00	75	25	2.985	2.783	£145.44	£120.28
MSH6-21	21	132.30	144.30	75	25	3.299	3.096	£152.51	£131.28
MSH6-22	22	138.60	150.60	75	25	3.627	3.425	£160.40	£142.34
MSH6-23	23	144.90	156.90	75	25	3.971	3.768	£163.64	£144.97
MSH6-24	24	151.20	163.20	75	25	4.329	4.127	£166.77	£147.83
MSH6-25	25	157.50	169.50	100	30	4.977	4.382	£173.36	£153.37
MSH6-26	26	163.80	175.80	100	30	5.366	4.770	£180.42	£158.81
MSH6-27	27	170.10	182.10	100	30	5.771	5.175	£188.49	£164.07
MSH6-28	28	176.40	188.40	100	30	6.191	5.595	£195.55	£169.53
MSH6-29	29	182.70	194.70	100	30	6.626	6.030	£202.51	£174.98
MSH6-30	30	189.00	201.00	100	30	7.076	6.480	£209.93	£180.42

Please consult Technical for larger sizes.

24.42



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Materials

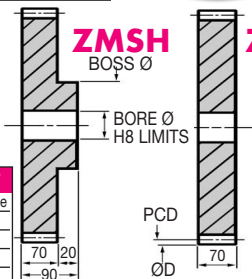
STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 30

Helical Gears

Plastic - Parallel Axis
17°45'H.A.
20° P.A. **6 MOD**

TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 160



ZMP SH LH 17°45'



RH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.

DISCOUNTS

1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZMSH	ZMP SH
ZMSH6-9	9	56.70	68.70	45	25	£63.01	£55.47
ZMSH6-10	10	63.00	75.00	45	25	£63.07	£55.50
ZMSH6-11	11	69.30	81.30	45	25	£63.09	£55.52
ZMSH6-12	12	75.60	87.60	50	25	£63.12	£55.55
ZMSH6-13	13	81.90	93.90	50	25	£68.05	£59.83
ZMSH6-14	14	88.20	100.20	50	25	£72.88	£63.94
ZMSH6-15	15	94.50	106.50	75	25	£82.67	£71.79
ZMSH6-16	16	100.80	112.80	75	25	£91.68	£77.46
ZMSH6-17	17	107.10	119.10	75	25	£96.57	£83.61
ZMSH6-18	18	113.40	125.40	75	25	£101.47	£89.77
ZMSH6-19	19	119.70	131.70	75	25	£105.30	£90.57
ZMSH6-20	20	126.00	138.00	75	25	£109.04	£90.96
ZMSH6-21	21	132.30	144.30	75	25	£114.34	£98.46
ZMSH6-22	22	138.60	150.60	75	25	£120.28	£106.70
ZMSH6-23	23	144.90	156.90	75	25	£122.71	£108.71
ZMSH6-24	24	151.20	163.20	75	25	£125.03	£110.84
ZMSH6-25	25	157.50	169.50	100	30	£130.02	£115.00
ZMSH6-26	26	163.80	175.80	100	30	£135.31	£119.06
ZMSH6-27	27	170.10	182.10	100	30	£141.36	£123.04
ZMSH6-28	28	176.40	188.40	100	30	£146.59	£127.13
ZMSH6-29	29	182.70	194.70	100	30	£151.86	£131.21
ZMSH6-30	30	189.00	201.00	100	30	£157.40	£135.31

Please consult Technical for larger sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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24.43

Helical Gears Parallel Plastic MOD 6

Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

17°45' H.A. ALTERNATIVE : Brass, Tufnol or Delrin

64 DP

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations	TORQUE Nm.	0.26	1.04	0.13	0.09
at back	K.W.	0.030	0.112	0.015	0.008



RH 17°45'

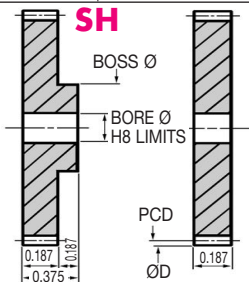


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH64-10	10	0.180	0.212	0.212	0.093	£10.07	£8.93
SH64-11	11	0.180	0.212	0.212	0.093	£10.08	£8.94
SH64-12	12	0.197	0.228	0.228	0.093	£10.09	£8.96
SH64-13	13	0.213	0.245	0.236	0.093	£10.22	£9.22
SH64-14	14	0.230	0.261	0.236	0.093	£10.30	£9.37
SH64-15	15	0.246	0.277	0.236	0.093	£10.35	£9.55
SH64-16	16	0.263	0.294	0.250	0.093	£10.47	£9.83
SH64-17	17	0.279	0.310	0.250	0.093	£10.57	£10.19
SH64-18	18	0.295	0.327	0.250	0.125	£10.70	£10.43
SH64-19	19	0.312	0.343	0.250	0.125	£10.76	£10.57
SH64-20	20	0.328	0.359	0.250	0.125	£10.94	£10.72
SH64-21	21	0.345	0.376	0.250	0.125	£11.15	£10.79
SH64-22	22	0.361	0.392	0.250	0.125	£11.30	£10.87
SH64-23	23	0.377	0.409	0.250	0.125	£11.49	£10.97
SH64-24	24	0.394	0.425	0.375	0.125	£11.65	£11.15
SH64-25	25	0.410	0.441	0.375	0.125	£11.77	£11.20
SH64-26	26	0.427	0.458	0.375	0.125	£12.04	£11.28
SH64-27	27	0.443	0.474	0.375	0.125	£12.15	£11.36
SH64-28	28	0.459	0.491	0.375	0.125	£12.33	£11.59
SH64-29	29	0.476	0.507	0.375	0.125	£12.34	£11.77
SH64-30	30	0.492	0.523	0.375	0.125	£12.50	£11.93
SH64-31	31	0.509	0.540	0.375	0.125	£12.69	£12.15
SH64-32	32	0.525	0.556	0.375	0.125	£12.84	£12.33

Helical Gears Parallel Axis Steel DP 64

24.44



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH64-33	33	0.541	0.573	0.375	0.125	£13.03	£12.50
SH64-34	34	0.558	0.589	0.375	0.125	£13.26	£12.69
SH64-35	35	0.574	0.605	0.375	0.125	£13.41	£12.84
SH64-36	36	0.591	0.622	0.375	0.125	£13.61	£13.09
SH64-37	37	0.607	0.638	0.375	0.125	£13.64	£13.13
SH64-38	38	0.623	0.655	0.375	0.125	£13.68	£13.14
SH64-39	39	0.640	0.671	0.375	0.125	£13.70	£13.19
SH64-40	40	0.656	0.688	0.500	0.187	£13.77	£13.26
SH64-41	41	0.673	0.704	0.500	0.187	£13.92	£13.30
SH64-42	42	0.689	0.720	0.500	0.187	£13.95	£13.37
SH64-43	43	0.705	0.737	0.500	0.187	£13.98	£13.46
SH64-44	44	0.722	0.753	0.500	0.187	£14.05	£13.54
SH64-45	45	0.738	0.770	0.500	0.187	£14.15	£13.61
SH64-46	46	0.755	0.786	0.500	0.187	£14.25	£13.68
SH64-47	47	0.771	0.802	0.500	0.187	£14.32	£13.75
SH64-48	48	0.788	0.819	0.500	0.187	£14.36	£13.82
SH64-49	49	0.804	0.835	0.500	0.187	£14.44	£13.93
SH64-50	50	0.820	0.852	0.500	0.187	£14.50	£13.96
SH64-51	51	0.837	0.868	0.500	0.187	£14.64	£14.06
SH64-52	52	0.853	0.884	0.500	0.187	£14.67	£14.08
SH64-53	53	0.870	0.901	0.500	0.187	£14.72	£14.15
SH64-54	54	0.886	0.917	0.500	0.187	£14.77	£14.20
SH64-55	55	0.902	0.934	0.500	0.187	£14.90	£14.32
SH64-56	56	0.919	0.950	0.500	0.187	£14.96	£14.33
SH64-57	57	0.935	0.966	0.500	0.187	£15.00	£14.36
SH64-58	58	0.952	0.983	0.500	0.187	£15.02	£14.38
SH64-59	59	0.968	0.999	0.500	0.187	£15.07	£14.44
SH64-60	60	0.984	1.016	0.500	0.187	£15.12	£14.46
SH64-61	61	1.001	1.032	0.500	0.187	£15.19	£14.61
SH64-62	62	1.017	1.048	0.500	0.187	£15.36	£14.64
SH64-63	63	1.034	1.065	0.500	0.187	£15.41	£14.68
SH64-64	64	1.050	1.081	0.500	0.187	£15.49	£14.73
SH64-65	65	1.066	1.098	0.500	0.187	£15.65	£14.82
SH64-68	68	1.116	1.147	0.500	0.187	£15.77	£14.95
SH64-70	70	1.148	1.180	0.500	0.187	£15.87	£15.00
SH64-72	72	1.181	1.213	0.500	0.187	£15.95	£15.02
SH64-75	75	1.230	1.262	0.500	0.187	£16.12	£15.14
SH64-77	77	1.263	1.295	0.500	0.187	£16.19	£15.19
SH64-80	80	1.313	1.344	0.500	0.187	£16.44	£15.33
SH64-84	84	1.378	1.409	0.500	0.187	£16.65	£15.38
SH64-86	86	1.411	1.442	0.500	0.187	£17.67	£15.39
SH64-88	88	1.444	1.475	0.500	0.187	£18.71	£16.24
SH64-90	90	1.477	1.508	0.500	0.187	£19.41	£17.81
SH64-96	96	1.575	1.606	0.500	0.187	£21.61	£18.77
SH64-100	100	1.641	1.672	0.500	0.187	£22.94	£19.95
SH64-120	120	1.969	2.000	0.500	0.187	£24.63	£21.38
SH64-140	140	2.297	2.328	0.500	0.250	£26.00	£22.57
SH64-150	150	2.461	2.492	0.500	0.250	£27.60	£23.92
SH64-180	180	2.953	2.984	0.500	0.250	£29.30	£25.43

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

48 DP

17°45'H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.63	2.48	0.31	0.22
	K.W.	0.067	0.261	0.029	0.022



RH 17°45'

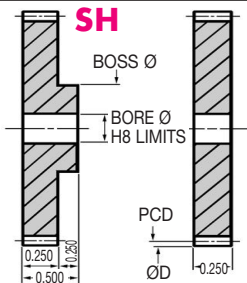


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



PSH

DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH48-10	10	0.241	0.282	0.282	0.125	£10.65	£8.87
SH48-11	11	0.241	0.282	0.282	0.125	£10.68	£8.88
SH48-12	12	0.263	0.304	0.304	0.125	£10.70	£8.91
SH48-13	13	0.284	0.326	0.312	0.125	£10.79	£9.09
SH48-14	14	0.306	0.348	0.312	0.125	£10.94	£9.28
SH48-15	15	0.328	0.370	0.312	0.125	£11.06	£9.47
SH48-16	16	0.350	0.392	0.312	0.125	£11.28	£9.61
SH48-17	17	0.372	0.414	0.312	0.125	£11.30	£9.83
SH48-18	18	0.394	0.435	0.312	0.125	£11.47	£10.01
SH48-19	19	0.416	0.457	0.312	0.125	£11.53	£10.02
SH48-20	20	0.438	0.479	0.375	0.187	£11.66	£10.09
SH48-21	21	0.459	0.501	0.375	0.187	£11.77	£10.19
SH48-22	22	0.481	0.523	0.375	0.187	£11.85	£10.22
SH48-23	23	0.503	0.545	0.375	0.187	£12.04	£10.28
SH48-24	24	0.525	0.567	0.375	0.187	£12.11	£10.32
SH48-25	25	0.547	0.589	0.375	0.187	£12.22	£10.42
SH48-26	26	0.569	0.610	0.375	0.187	£12.33	£10.47
SH48-27	27	0.591	0.632	0.375	0.187	£12.40	£10.57
SH48-28	28	0.613	0.654	0.375	0.187	£12.51	£10.70
SH48-29	29	0.634	0.676	0.375	0.187	£12.66	£10.75
SH48-30	30	0.656	0.698	0.375	0.187	£12.77	£10.76
SH48-31	31	0.678	0.720	0.375	0.187	£12.93	£10.79
SH48-32	32	0.700	0.742	0.375	0.187	£13.03	£10.80

Helical Gears Parallel Axis Steel DP 48

24.46



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5 SH	PSH
SH48-33	33	0.722	0.764	0.375	0.187	£13.19	£10.94
SH48-34	34	0.744	0.785	0.375	0.187	£13.31	£10.99
SH48-35	35	0.766	0.807	0.375	0.187	£13.48	£11.18
SH48-36	36	0.788	0.829	0.375	0.187	£13.64	£11.28
SH48-37	37	0.806	0.851	0.375	0.187	£13.96	£11.35
SH48-38	38	0.831	0.873	0.375	0.187	£14.15	£11.49
SH48-39	39	0.853	0.895	0.375	0.187	£14.33	£11.66
SH48-40	40	0.875	0.917	0.375	0.187	£14.50	£11.81
SH48-41	41	0.897	0.939	0.375	0.187	£14.77	£11.93
SH48-42	42	0.919	0.960	0.375	0.187	£14.90	£12.11
SH48-43	43	0.941	0.982	0.375	0.187	£15.07	£12.23
SH48-44	44	0.963	1.004	0.375	0.187	£15.23	£12.39
SH48-45	45	0.984	1.026	0.375	0.187	£15.41	£12.51
SH48-46	46	1.006	1.048	0.375	0.187	£15.61	£12.65
SH48-47	47	1.028	1.070	0.375	0.187	£15.82	£12.77
SH48-48	48	1.050	1.092	0.500	0.250	£15.97	£12.83
SH48-49	49	1.072	1.114	0.500	0.250	£16.13	£12.95
SH48-50	50	1.094	1.135	0.500	0.250	£16.22	£13.03
SH48-51	51	1.116	1.157	0.500	0.250	£16.35	£13.14
SH48-52	52	1.138	1.179	0.500	0.250	£16.45	£13.27
SH48-53	53	1.159	1.201	0.500	0.250	£16.56	£13.37
SH48-54	54	1.181	1.223	0.500	0.250	£16.68	£13.48
SH48-55	55	1.203	1.245	0.500	0.250	£16.77	£13.61
SH48-56	56	1.225	1.267	0.500	0.250	£16.90	£13.70
SH48-57	57	1.247	1.289	0.500	0.250	£16.95	£13.82
SH48-58	58	1.269	1.310	0.500	0.250	£17.13	£13.95
SH48-59	59	1.291	1.332	0.500	0.250	£17.26	£13.99
SH48-60	60	1.313	1.354	0.500	0.250	£17.31	£14.13
SH48-61	61	1.334	1.376	0.500	0.250	£17.38	£14.25
SH48-62	62	1.356	1.398	0.500	0.250	£17.51	£14.32
SH48-63	63	1.378	1.420	0.500	0.250	£17.65	£14.46
SH48-64	64	1.400	1.442	0.500	0.250	£17.77	£14.64
SH48-65	65	1.422	1.464	0.500	0.250	£17.87	£14.68
SH48-68	68	1.488	1.529	0.500	0.250	£17.87	£14.73
SH48-70	70	1.531	1.573	0.500	0.250	£17.90	£14.82
SH48-72	72	1.575	1.617	0.500	0.250	£17.98	£14.90
SH48-75	75	1.641	1.682	0.500	0.250	£18.30	£15.23
SH48-77	77	1.684	1.726	0.500	0.250	£18.66	£15.49
SH48-80	80	1.750	1.792	0.500	0.250	£18.87	£15.83
SH48-84	84	1.838	1.879	0.500	0.250	£19.27	£16.24
SH48-86	86	1.881	1.923	0.500	0.250	£19.72	£16.38
SH48-88	88	1.925	1.967	0.500	0.250	£20.24	£16.49
SH48-90	90	1.969	2.010	0.500	0.250	£20.46	£16.72
SH48-96	96	2.100	2.142	0.750	0.250	£20.73	£17.34
SH48-100	100	2.188	2.229	0.750	0.250	£21.38	£18.66
SH48-120	120	2.625	2.667	0.750	0.250	£26.04	£21.38
SH48-140	140	3.063	3.104	0.750	0.375	£32.15	£22.74
SH48-150	150	3.281	3.323	0.750	0.375	£35.15	£25.12
SH48-180	180	3.938	3.979	0.750	0.375	£38.72	£28.99

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

48 DP

17°45' H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 10 - 180

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.13



RH 17°45'

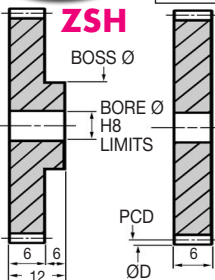


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPSH

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH48-10	10	0.241	0.282	0.282	2	£5.13	£3.89
ZSH48-11	11	0.241	0.282	0.282	2	£5.19	£3.90
ZSH48-12	12	0.263	0.304	0.304	2	£5.20	£3.96
ZSH48-13	13	0.284	0.326	0.326	2	£5.22	£3.96
ZSH48-14	14	0.306	0.348	0.348	2	£5.23	£3.99
ZSH48-15	15	0.328	0.370	0.275	2	£5.25	£4.01
ZSH48-16	16	0.350	0.392	0.275	2	£5.32	£4.03
ZSH48-17	17	0.372	0.414	0.315	2	£5.33	£4.08
ZSH48-18	18	0.394	0.435	0.315	2	£5.48	£4.14
ZSH48-19	19	0.416	0.457	0.354	3	£5.52	£4.21
ZSH48-20	20	0.438	0.479	0.354	3	£5.54	£4.24
ZSH48-21	21	0.459	0.501	0.354	3	£5.58	£4.28
ZSH48-22	22	0.481	0.523	0.354	3	£5.67	£4.35
ZSH48-23	23	0.503	0.545	0.393	3	£5.73	£4.42
ZSH48-24	24	0.525	0.567	0.393	3	£5.79	£4.44
ZSH48-25	25	0.547	0.589	0.393	3	£5.81	£4.49
ZSH48-26	26	0.569	0.610	0.393	3	£5.83	£4.51
ZSH48-27	27	0.591	0.632	0.393	3	£5.90	£4.56
ZSH48-28	28	0.613	0.654	0.393	3	£5.95	£4.59
ZSH48-29	29	0.634	0.676	0.393	3	£6.03	£4.62
ZSH48-30	30	0.656	0.698	0.472	4	£6.06	£4.73
ZSH48-31	31	0.678	0.720	0.472	4	£6.15	£4.75
ZSH48-32	32	0.700	0.742	0.472	4	£6.20	£4.79

Helical Gears Parallel Axis Plastic DP 48

24.48



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH48-33	33	0.722	0.764	0.472	4	£6.30	£4.83
ZSH48-34	34	0.744	0.785	0.472	4	£6.38	£4.85
ZSH48-35	35	0.766	0.807	0.472	4	£6.44	£5.19
ZSH48-36	36	0.788	0.829	0.472	4	£6.68	£5.25
ZSH48-37	37	0.806	0.851	0.472	4	£6.95	£5.30
ZSH48-38	38	0.831	0.873	0.472	4	£7.02	£5.33
ZSH48-39	39	0.853	0.895	0.472	4	£7.04	£5.46
ZSH48-40	40	0.875	0.917	0.472	4	£7.14	£5.52
ZSH48-41	41	0.897	0.939	0.472	4	£7.28	£5.54
ZSH48-42	42	0.919	0.960	0.472	4	£7.38	£5.58
ZSH48-43	43	0.941	0.982	0.472	4	£7.40	£5.73
ZSH48-44	44	0.963	1.004	0.472	4	£7.49	£5.79
ZSH48-45	45	0.984	1.026	0.472	4	£7.64	£5.82
ZSH48-46	46	1.006	1.048	0.472	4	£7.72	£5.83
ZSH48-47	47	1.028	1.070	0.472	4	£7.73	£5.90
ZSH48-48	48	1.050	1.092	0.472	4	£7.75	£5.95
ZSH48-49	49	1.072	1.114	0.472	4	£7.82	£6.03
ZSH48-50	50	1.094	1.135	0.472	4	£7.87	£6.04
ZSH48-51	51	1.116	1.157	0.472	4	£7.94	£6.06
ZSH48-52	52	1.138	1.179	0.472	4	£8.81	£6.71
ZSH48-53	53	1.159	1.201	0.472	4	£8.91	£6.87
ZSH48-54	54	1.181	1.223	0.551	4	£8.93	£6.94
ZSH48-55	55	1.203	1.245	0.551	4	£8.96	£6.95
ZSH48-56	56	1.225	1.267	0.551	4	£9.04	£6.96
ZSH48-57	57	1.247	1.289	0.551	4	£9.08	£6.97
ZSH48-58	58	1.269	1.310	0.551	4	£9.18	£6.99
ZSH48-59	59	1.291	1.332	0.551	4	£9.20	£7.01
ZSH48-60	60	1.313	1.354	0.551	4	£9.26	£7.02
ZSH48-61	61	1.334	1.376	0.551	4	£9.30	£7.04
ZSH48-62	62	1.356	1.398	0.551	4	£9.31	£7.10
ZSH48-63	63	1.378	1.420	0.551	4	£9.32	£7.12
ZSH48-64	64	1.400	1.442	0.551	4	£9.40	£7.14
ZSH48-65	65	1.422	1.464	0.551	4	£9.47	£7.20
ZSH48-68	68	1.488	1.529	0.551	4	£9.47	£7.27
ZSH48-70	70	1.531	1.573	0.551	4	£10.97	£8.38
ZSH48-72	72	1.575	1.617	0.551	4	£11.12	£8.53
ZSH48-75	75	1.641	1.682	0.551	4	£11.28	£8.62
ZSH48-77	77	1.684	1.726	0.551	4	£11.51	£8.81
ZSH48-80	80	1.750	1.792	0.629	5	£11.76	£9.04
ZSH48-84	84	1.838	1.879	0.629	5	£12.06	£9.18
ZSH48-86	86	1.881	1.923	0.629	5	£12.08	£9.20
ZSH48-88	88	1.925	1.967	0.629	5	£12.09	£9.26
ZSH48-90	90	1.969	2.010	0.629	5	£12.22	£9.40
ZSH48-96	96	2.100	2.142	0.629	5	£14.90	£11.47
ZSH48-100	100	2.188	2.229	0.787	5	£15.93	£12.32
ZSH48-120	120	2.625	2.667	0.787	5	£19.69	£14.83
ZSH48-140	140	3.063	3.104	0.787	5	£25.81	£20.96
ZSH48-150	150	3.281	3.323	0.787	5	£33.58	£28.69
ZSH48-180	180	3.938	3.979	0.787	5	£43.49	£38.61

Helical Gears Parallel Axis Plastic DP 48

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

40 DP

17°45' H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	1.36	5.36	0.68	0.48
	K.W.	0.1417	0.559	0.074	0.052



RH 17°45'

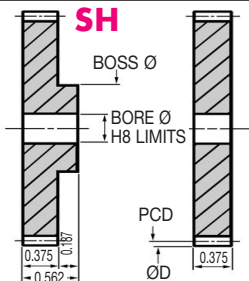


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will



DISCOUNTS

Quantity	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH40-9	9	0.263	0.313	0.313	0.125	£11.56	£9.26
SH40-10	10	0.263	0.313	0.313	0.125	£11.58	£9.28
SH40-11	11	0.289	0.339	0.339	0.125	£11.59	£9.30
SH40-12	12	0.315	0.365	0.365	0.187	£11.65	£9.31
SH40-13	13	0.341	0.391	0.391	0.187	£11.65	£9.32
SH40-14	14	0.368	0.418	0.418	0.187	£11.66	£9.35
SH40-15	15	0.394	0.444	0.444	0.187	£11.77	£9.38
SH40-16	16	0.420	0.470	0.470	0.187	£11.84	£9.47
SH40-17	17	0.446	0.496	0.500	0.187	£11.85	£9.48
SH40-18	18	0.473	0.523	0.500	0.187	£11.86	£9.49
SH40-19	19	0.499	0.549	0.500	0.187	£12.11	£9.67
SH40-20	20	0.525	0.575	0.500	0.187	£12.34	£9.93
SH40-21	21	0.551	0.601	0.500	0.187	£12.44	£9.96
SH40-22	22	0.578	0.628	0.500	0.187	£12.50	£9.97
SH40-23	23	0.604	0.654	0.500	0.187	£12.51	£10.01
SH40-24	24	0.630	0.680	0.500	0.187	£12.77	£10.22
SH40-25	25	0.656	0.706	0.500	0.187	£13.01	£10.32
SH40-26	26	0.683	0.733	0.500	0.187	£13.09	£10.43
SH40-27	27	0.709	0.759	0.500	0.187	£13.26	£10.57
SH40-28	28	0.735	0.785	0.500	0.187	£13.31	£10.70
SH40-29	29	0.761	0.811	0.500	0.187	£13.59	£10.80
SH40-30	30	0.788	0.838	0.500	0.187	£13.82	£10.99
SH40-31	31	0.814	0.864	0.500	0.187	£14.36	£11.49

24.50



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Helical Gears Parallel Axis Steel DP 40

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH40-32	32	0.840	0.890	0.500	0.187	£14.50	£11.59
SH40-33	33	0.866	0.916	0.500	0.187	£14.72	£11.77
SH40-34	34	0.893	0.943	0.500	0.187	£14.96	£11.93
SH40-35	35	0.919	0.969	0.500	0.187	£15.07	£12.06
SH40-36	36	0.945	0.995	0.500	0.187	£15.33	£12.22
SH40-37	37	0.971	1.021	0.500	0.187	£15.47	£12.39
SH40-38	38	0.998	1.048	0.625	0.250	£15.61	£12.44
SH40-39	39	1.024	1.074	0.625	0.250	£15.90	£12.69
SH40-40	40	1.050	1.100	0.625	0.250	£16.04	£12.83
SH40-41	41	1.076	1.126	0.625	0.250	£16.22	£13.00
SH40-42	42	1.103	1.153	0.625	0.250	£16.35	£13.03
SH40-43	43	1.129	1.179	0.625	0.250	£16.45	£13.13
SH40-44	44	1.155	1.205	0.625	0.250	£16.60	£13.27
SH40-45	45	1.181	1.231	0.625	0.250	£16.77	£13.41
SH40-46	46	1.208	1.258	0.625	0.250	£16.92	£13.54
SH40-47	47	1.234	1.284	0.625	0.250	£16.98	£13.61
SH40-48	48	1.260	1.310	0.625	0.250	£17.13	£13.68
SH40-49	49	1.286	1.336	0.625	0.250	£17.18	£13.70
SH40-50	50	1.313	1.363	0.625	0.250	£17.28	£13.77
SH40-51	51	1.339	1.389	0.625	0.250	£17.37	£13.93
SH40-52	52	1.365	1.415	0.625	0.250	£17.38	£13.95
SH40-53	53	1.391	1.441	0.625	0.250	£17.51	£13.98
SH40-54	54	1.418	1.468	0.625	0.250	£17.62	£14.05
SH40-55	55	1.444	1.494	0.625	0.250	£17.67	£14.15
SH40-56	56	1.470	1.520	0.625	0.250	£17.77	£14.20
SH40-57	57	1.496	1.546	0.625	0.250	£17.87	£14.27
SH40-58	58	1.523	1.573	0.625	0.250	£17.88	£14.33
SH40-59	59	1.549	1.599	0.625	0.250	£17.90	£14.44
SH40-60	60	1.575	1.625	0.625	0.250	£18.23	£14.64
SH40-61	61	1.601	1.651	0.625	0.250	£18.37	£14.68
SH40-62	62	1.628	1.678	0.625	0.250	£18.66	£14.90
SH40-63	63	1.654	1.704	0.625	0.250	£18.77	£15.02
SH40-64	64	1.680	1.730	0.625	0.250	£18.88	£15.14
SH40-66	66	1.733	1.783	0.625	0.250	£19.13	£15.33
SH40-68	68	1.785	1.835	0.625	0.250	£19.27	£15.39
SH40-70	70	1.838	1.888	0.625	0.250	£20.08	£15.97
SH40-75	75	1.969	2.019	0.625	0.250	£21.38	£17.13
SH40-76	76	1.995	2.045	0.625	0.250	£21.84	£17.38
SH40-80	80	2.100	2.150	0.625	0.250	£23.25	£18.61
SH40-86	86	2.258	2.308	0.750	0.250	£23.87	£19.07
SH40-88	88	2.310	2.360	0.750	0.250	£25.05	£19.98
SH40-90	90	2.363	2.413	0.750	0.250	£25.43	£20.36
SH40-96	96	2.520	2.570	0.750	0.250	£25.68	£20.56
SH40-100	100	2.625	2.675	0.750	0.250	£26.04	£20.82
SH40-112	112	2.940	2.990	0.750	0.250	£27.02	£23.91
SH40-120	120	3.150	3.200	0.750	0.250	£28.20	£25.43
SH40-127	127	3.334	3.384	0.750	0.312	£30.00	£26.89
SH40-128	128	3.360	3.410	0.750	0.312	£32.05	£28.57
SH40-140	140	3.675	3.725	1.000	0.375	£34.06	£31.01
SH40-150	150	3.938	3.988	1.000	0.375	£34.19	£32.81
SH40-175	175	4.594	4.644	1.500	0.500	£44.33	£35.47
SH40-200	200	5.250	5.300	1.500	0.750	£49.63	£39.69

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

40 DP

17°45' H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 150

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.40



RH 17°45'

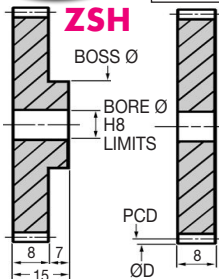


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPSH

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH40-9	9	0.263	0.313	0.313	2	£5.29	£4.40
ZSH40-10	10	0.263	0.313	0.313	2	£5.30	£4.41
ZSH40-11	11	0.289	0.339	0.339	2	£5.32	£4.42
ZSH40-12	12	0.315	0.365	0.365	2	£5.33	£4.44
ZSH40-13	13	0.341	0.391	0.391	2	£5.83	£4.49
ZSH40-14	14	0.368	0.418	0.418	3	£5.85	£4.51
ZSH40-15	15	0.394	0.444	0.444	3	£5.86	£4.53
ZSH40-16	16	0.420	0.470	0.470	3	£5.87	£4.54
ZSH40-17	17	0.446	0.496	0.496	3	£5.90	£4.56
ZSH40-18	18	0.473	0.523	0.523	3	£5.91	£4.57
ZSH40-19	19	0.499	0.549	0.549	3	£6.06	£4.62
ZSH40-20	20	0.525	0.575	0.575	3	£6.15	£4.73
ZSH40-21	21	0.551	0.601	0.472	3	£6.20	£4.75
ZSH40-22	22	0.578	0.628	0.472	3	£6.24	£4.78
ZSH40-23	23	0.604	0.654	0.472	3	£6.30	£4.79
ZSH40-24	24	0.630	0.680	0.472	3	£6.38	£4.85
ZSH40-25	25	0.656	0.706	0.472	3	£6.50	£4.97
ZSH40-26	26	0.683	0.733	0.551	4	£6.54	£4.99
ZSH40-27	27	0.709	0.759	0.551	4	£6.65	£5.06
ZSH40-28	28	0.735	0.785	0.551	4	£6.68	£5.09
ZSH40-29	29	0.761	0.811	0.551	4	£6.77	£5.22
ZSH40-30	30	0.788	0.838	0.551	4	£6.95	£5.30
ZSH40-31	31	0.814	0.864	0.551	4	£7.27	£5.52

Helical Gears Parallel Axis Plastic DP 40

24.52



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH40-32	32	0.840	0.890	0.551	4	£7.28	£5.54
ZSH40-33	33	0.866	0.916	0.551	4	£7.38	£5.58
ZSH40-34	34	0.893	0.943	0.551	4	£7.45	£5.73
ZSH40-35	35	0.919	0.969	0.551	4	£7.63	£5.79
ZSH40-36	36	0.945	0.995	0.551	4	£7.72	£5.83
ZSH40-37	37	0.971	1.021	0.551	4	£7.73	£5.90
ZSH40-38	38	0.998	1.048	0.551	4	£7.82	£5.95
ZSH40-39	39	1.024	1.074	0.629	5	£7.99	£6.10
ZSH40-40	40	1.050	1.100	0.629	5	£8.02	£6.14
ZSH40-41	41	1.076	1.126	0.629	5	£8.12	£6.20
ZSH40-42	42	1.103	1.153	0.629	5	£8.18	£6.30
ZSH40-43	43	1.129	1.179	0.629	5	£8.20	£6.32
ZSH40-44	44	1.155	1.205	0.629	5	£9.18	£7.02
ZSH40-45	45	1.181	1.231	0.629	5	£9.26	£7.04
ZSH40-46	46	1.208	1.258	0.629	5	£9.32	£7.10
ZSH40-47	47	1.234	1.284	0.629	5	£9.40	£7.14
ZSH40-48	48	1.260	1.310	0.629	5	£9.47	£7.27
ZSH40-49	49	1.286	1.336	0.629	5	£9.51	£7.27
ZSH40-50	50	1.313	1.363	0.629	5	£9.55	£7.28
ZSH40-51	51	1.339	1.389	0.629	5	£9.57	£7.36
ZSH40-52	52	1.365	1.415	0.629	5	£9.60	£7.37
ZSH40-53	53	1.391	1.441	0.629	5	£9.65	£7.38
ZSH40-54	54	1.418	1.468	0.629	5	£9.74	£7.40
ZSH40-55	55	1.444	1.494	0.629	5	£9.76	£7.44
ZSH40-56	56	1.470	1.520	0.629	5	£9.82	£7.45
ZSH40-57	57	1.496	1.546	0.629	5	£9.86	£7.49
ZSH40-58	58	1.523	1.573	0.629	5	£9.93	£7.63
ZSH40-59	59	1.549	1.599	0.629	5	£11.28	£8.62
ZSH40-60	60	1.575	1.625	0.629	5	£11.49	£8.81
ZSH40-61	61	1.601	1.651	0.629	5	£11.51	£8.84
ZSH40-62	62	1.628	1.678	0.629	5	£11.73	£8.93
ZSH40-63	63	1.654	1.704	0.629	5	£11.84	£9.04
ZSH40-64	64	1.680	1.730	0.629	5	£11.85	£9.08
ZSH40-66	66	1.733	1.783	0.629	5	£12.06	£9.20
ZSH40-68	68	1.785	1.835	0.708	6	£12.66	£9.26
ZSH40-70	70	1.838	1.888	0.708	6	£16.18	£9.65
ZSH40-75	75	1.969	2.019	0.708	6	£16.46	£12.39
ZSH40-76	76	1.995	2.045	0.708	6	£17.61	£12.66
ZSH40-80	80	2.100	2.150	0.708	6	£18.04	£13.41
ZSH40-86	86	2.258	2.308	0.708	6	£18.94	£13.78
ZSH40-88	88	2.310	2.360	0.708	6	£21.85	£14.50
ZSH40-90	90	2.363	2.413	0.708	6	£21.98	£16.73
ZSH40-96	96	2.520	2.570	0.708	6	£22.36	£16.92
ZSH40-100	100	2.625	2.675	0.708	6	£23.10	£17.06
ZSH40-112	112	2.940	2.990	0.708	6	£23.15	£17.76
ZSH40-120	120	3.150	3.200	0.787	8	£24.16	£18.48
ZSH40-127	127	3.334	3.384	0.787	8	£30.32	£24.61
ZSH40-128	128	3.360	3.410	0.787	8	£38.03	£32.33
ZSH40-140	140	3.675	3.725	0.787	8	£47.92	£42.25
ZSH40-150	150	3.938	3.988	0.984	10	£60.73	£55.04

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

32 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	2.12	8.38	1.06	0.76
	K.W.	0.224	0.88	0.112	0.082



RH 17°45'

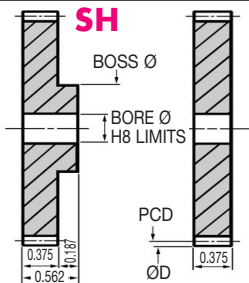


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



PSH

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH32-9	9	0.328	0.391	0.391	0.187	£10.22	£8.19
SH32-10	10	0.328	0.391	0.391	0.187	£10.42	£8.43
SH32-11	11	0.361	0.423	0.423	0.187	£10.75	£8.66
SH32-12	12	0.394	0.456	0.456	0.187	£12.04	£10.01
SH32-13	13	0.427	0.489	0.489	0.187	£12.66	£10.22
SH32-14	14	0.459	0.522	0.500	0.187	£13.09	£10.42
SH32-15	15	0.492	0.555	0.500	0.187	£13.54	£10.57
SH32-16	16	0.525	0.588	0.500	0.187	£13.92	£10.80
SH32-17	17	0.558	0.620	0.500	0.187	£13.98	£10.82
SH32-18	18	0.591	0.653	0.500	0.187	£14.15	£10.99
SH32-19	19	0.623	0.686	0.500	0.187	£14.32	£11.28
SH32-20	20	0.656	0.719	0.500	0.187	£14.44	£11.36
SH32-21	21	0.689	0.752	0.500	0.187	£14.64	£11.59
SH32-22	22	0.722	0.784	0.500	0.187	£14.72	£11.77
SH32-23	23	0.755	0.817	0.500	0.187	£14.90	£11.93
SH32-24	24	0.788	0.850	0.500	0.187	£15.07	£12.09
SH32-25	25	0.820	0.883	0.500	0.187	£15.23	£12.23
SH32-26	26	0.853	0.916	0.500	0.187	£15.45	£12.39
SH32-27	27	0.886	0.948	0.500	0.187	£15.55	£12.51
SH32-28	28	0.919	0.981	0.500	0.187	£15.70	£12.69
SH32-29	29	0.952	1.014	0.500	0.187	£15.82	£12.83
SH32-30	30	0.984	1.047	0.625	0.250	£15.90	£13.00
SH32-31	31	1.017	1.080	0.625	0.250	£16.04	£13.13

Helical Gears Parallel Axis Steel DP 32

24.54



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH32-32	32	1.050	1.113	0.625	0.250	£16.24	£13.27
SH32-33	33	1.083	1.145	0.625	0.250	£16.27	£13.30
SH32-34	34	1.116	1.178	0.625	0.250	£16.35	£13.31
SH32-35	35	1.148	1.211	0.625	0.250	£16.44	£13.41
SH32-36	36	1.181	1.244	0.625	0.250	£16.48	£13.48
SH32-37	37	1.214	1.277	0.625	0.250	£16.49	£13.59
SH32-38	38	1.247	1.309	0.625	0.250	£16.56	£13.64
SH32-39	39	1.280	1.342	0.625	0.250	£16.60	£13.70
SH32-40	40	1.313	1.375	0.625	0.250	£16.65	£13.77
SH32-41	41	1.345	1.408	0.625	0.250	£16.68	£13.92
SH32-42	42	1.378	1.441	0.625	0.250	£16.72	£13.95
SH32-43	43	1.411	1.473	0.625	0.250	£16.77	£13.98
SH32-44	44	1.444	1.506	0.625	0.250	£16.77	£14.05
SH32-45	45	1.477	1.539	0.625	0.250	£16.81	£14.15
SH32-46	46	1.509	1.572	0.625	0.250	£16.83	£14.25
SH32-47	47	1.542	1.605	0.625	0.250	£16.90	£14.32
SH32-48	48	1.575	1.638	0.625	0.250	£16.92	£14.36
SH32-49	49	1.608	1.670	0.625	0.250	£16.94	£14.44
SH32-50	50	1.641	1.703	0.625	0.250	£16.95	£14.50
SH32-51	51	1.673	1.736	0.625	0.250	£16.98	£14.64
SH32-52	52	1.706	1.769	0.625	0.250	£16.99	£14.65
SH32-53	53	1.739	1.802	0.625	0.250	£17.06	£14.67
SH32-54	54	1.772	1.834	0.625	0.250	£17.13	£14.68
SH32-55	55	1.805	1.867	0.625	0.250	£17.13	£14.72
SH32-56	56	1.838	1.900	0.625	0.250	£17.18	£14.73
SH32-57	57	1.870	1.933	0.625	0.250	£17.25	£15.00
SH32-58	58	1.903	1.966	0.625	0.250	£17.26	£15.19
SH32-59	59	1.936	1.998	0.625	0.250	£17.28	£15.41
SH32-60	60	1.969	2.031	0.625	0.250	£17.51	£15.65
SH32-61	61	2.002	2.064	0.625	0.250	£17.87	£15.90
SH32-62	62	2.034	2.097	0.625	0.250	£18.30	£16.13
SH32-63	63	2.067	2.130	0.625	0.250	£19.13	£16.35
SH32-64	64	2.100	2.163	0.750	0.312	£19.59	£16.65
SH32-66	66	2.166	2.228	0.750	0.312	£19.95	£17.13
SH32-68	68	2.231	2.294	0.750	0.312	£20.36	£17.62
SH32-70	70	2.297	2.359	0.750	0.312	£21.07	£17.87
SH32-75	75	2.461	2.523	0.750	0.312	£21.38	£18.66
SH32-76	76	2.494	2.556	0.750	0.312	£21.65	£19.27
SH32-80	80	2.625	2.688	0.750	0.312	£21.97	£20.08
SH32-86	86	2.822	2.884	0.750	0.312	£22.69	£20.92
SH32-88	88	2.888	2.950	0.750	0.312	£23.42	£21.74
SH32-90	90	2.953	3.016	0.750	0.312	£24.81	£22.30
SH32-96	96	3.150	3.213	0.750	0.312	£26.20	£22.78
SH32-100	100	3.281	3.344	0.750	0.312	£27.40	£23.81
SH32-112	112	3.675	3.738	0.750	0.312	£29.01	£25.22
SH32-120	120	3.938	4.000	0.750	0.375	£30.51	£25.58
SH32-127	127	4.167	4.230	0.750	0.375	£34.75	£25.95
SH32-128	128	4.200	4.263	0.750	0.375	£38.54	£26.20
SH32-140	140	4.594	4.656	1.000	0.500	£42.48	£36.91
SH32-150	150	4.922	4.984	1.000	0.500	£47.62	£38.08
SH32-175	175	5.742	5.805	1.000	0.500	£51.77	£41.45
SH32-200	200	6.563	6.625	1.500	0.750	£56.15	£44.97

Helical Gears Parallel Axis Steel DP 32

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

32 DP

17°45' H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 140



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.50



RH 17°45'

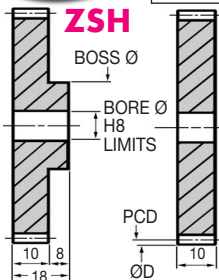


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPSH

DISCOUNTS

Quantity	Discount	List Price
1 - 5		
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH32-9	9	0.328	0.391	0.391	3	£5.95	£3.88
ZSH32-10	10	0.328	0.391	0.391	3	£6.01	£3.96
ZSH32-11	11	0.361	0.423	0.423	3	£6.02	£4.08
ZSH32-12	12	0.394	0.456	0.456	3	£6.03	£4.59
ZSH32-13	13	0.427	0.489	0.489	3	£6.32	£4.83
ZSH32-14	14	0.459	0.522	0.522	3	£6.54	£4.99
ZSH32-15	15	0.492	0.555	0.555	3	£6.75	£5.19
ZSH32-16	16	0.525	0.588	0.588	3	£6.95	£5.30
ZSH32-17	17	0.558	0.620	0.620	3	£7.02	£5.33
ZSH32-18	18	0.591	0.653	0.551	4	£7.04	£5.46
ZSH32-19	19	0.623	0.686	0.551	4	£7.14	£5.48
ZSH32-20	20	0.656	0.719	0.551	4	£7.27	£5.52
ZSH32-21	21	0.689	0.752	0.551	4	£7.36	£5.55
ZSH32-22	22	0.722	0.784	0.551	4	£7.38	£5.58
ZSH32-23	23	0.755	0.817	0.551	4	£7.45	£5.73
ZSH32-24	24	0.788	0.850	0.551	4	£7.63	£5.79
ZSH32-25	25	0.820	0.883	0.551	4	£7.64	£5.83
ZSH32-26	26	0.853	0.916	0.551	4	£7.73	£5.90
ZSH32-27	27	0.886	0.948	0.551	4	£7.75	£5.95
ZSH32-28	28	0.919	0.981	0.551	4	£7.87	£6.03
ZSH32-29	29	0.952	1.014	0.551	4	£7.94	£6.06
ZSH32-30	30	0.984	1.047	0.590	5	£7.99	£6.10
ZSH32-31	31	1.017	1.080	0.590	5	£8.02	£6.14

Helical Gears Parallel Axis Plastic DP 32

24.56



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH32-32	32	1.050	1.113	0.590	5	£8.12	£6.15
ZSH32-33	33	1.083	1.145	0.590	5	£8.18	£6.30
ZSH32-34	34	1.116	1.178	0.590	5	£8.73	£6.68
ZSH32-35	35	1.148	1.211	0.590	5	£9.04	£6.95
ZSH32-36	36	1.181	1.244	0.590	5	£9.08	£6.99
ZSH32-37	37	1.214	1.277	0.590	5	£9.20	£7.01
ZSH32-38	38	1.247	1.309	0.590	5	£9.21	£7.02
ZSH32-39	39	1.280	1.342	0.590	5	£9.22	£7.03
ZSH32-40	40	1.313	1.375	0.590	5	£9.24	£7.04
ZSH32-41	41	1.345	1.408	0.590	5	£9.26	£7.05
ZSH32-42	42	1.378	1.441	0.590	5	£9.28	£7.08
ZSH32-43	43	1.411	1.473	0.590	5	£9.30	£7.09
ZSH32-44	44	1.444	1.506	0.590	5	£9.31	£7.10
ZSH32-45	45	1.477	1.539	0.590	5	£9.32	£7.12
ZSH32-46	46	1.509	1.572	0.590	5	£9.35	£7.14
ZSH32-47	47	1.542	1.605	0.590	5	£9.37	£7.16
ZSH32-48	48	1.575	1.638	0.590	5	£9.38	£7.20
ZSH32-49	49	1.608	1.670	0.590	5	£9.40	£7.27
ZSH32-50	50	1.641	1.703	0.590	5	£9.47	£7.27
ZSH32-51	51	1.673	1.736	0.590	5	£9.47	£7.28
ZSH32-52	52	1.706	1.769	0.590	5	£9.48	£7.31
ZSH32-53	53	1.739	1.802	0.590	5	£9.49	£7.32
ZSH32-54	54	1.772	1.834	0.590	5	£9.51	£7.34
ZSH32-55	55	1.805	1.867	0.590	5	£9.53	£7.36
ZSH32-56	56	1.838	1.900	0.590	5	£9.55	£7.37
ZSH32-57	57	1.870	1.933	0.708	6	£9.57	£7.38
ZSH32-58	58	1.903	1.966	0.708	6	£9.60	£7.39
ZSH32-59	59	1.936	1.998	0.708	6	£10.79	£7.72
ZSH32-60	60	1.969	2.031	0.708	6	£10.87	£8.12
ZSH32-61	61	2.002	2.064	0.708	6	£10.99	£8.45
ZSH32-62	62	2.034	2.097	0.708	6	£11.21	£8.59
ZSH32-63	63	2.067	2.130	0.708	6	£11.51	£8.81
ZSH32-64	64	2.100	2.163	0.708	6	£12.06	£9.20
ZSH32-66	66	2.166	2.228	0.708	6	£12.33	£9.48
ZSH32-68	68	2.231	2.294	0.708	6	£12.52	£9.60
ZSH32-70	70	2.297	2.359	0.708	6	£12.78	£9.82
ZSH32-75	75	2.461	2.523	0.708	6	£15.93	£12.16
ZSH32-76	76	2.494	2.556	0.708	6	£16.18	£12.39
ZSH32-80	80	2.625	2.688	0.708	6	£16.29	£12.52
ZSH32-86	86	2.822	2.884	0.708	6	£16.56	£12.75
ZSH32-88	88	2.888	2.950	0.708	6	£17.13	£13.13
ZSH32-90	90	2.953	3.016	0.708	6	£20.08	£15.38
ZSH32-96	96	3.150	3.213	0.708	6	£21.27	£16.29
ZSH32-100	100	3.281	3.344	0.866	8	£22.44	£17.18
ZSH32-112	112	3.675	3.738	0.866	8	£23.53	£17.99
ZSH32-120	120	3.938	4.000	0.866	10	£29.28	£22.44
ZSH32-127	127	4.167	4.230	0.866	10	£37.02	£30.17
ZSH32-128	128	4.200	4.263	0.866	10	£46.21	£39.36
ZSH32-140	140	4.594	4.656	1.181	12	£58.16	£51.31

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

24 DP

17°45' H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 150

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	5.02	19.86	2.51	1.79
	K.W.	0.529	2.081	0.261	0.186



RH 17°45'

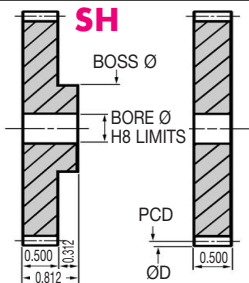


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH24-9	9	0.438	0.521	0.521	0.2500	£10.77	£10.21
SH24-10	10	0.438	0.521	0.521	0.2500	£10.79	£10.22
SH24-11	11	0.481	0.565	0.565	0.2500	£10.80	£10.24
SH24-12	12	0.525	0.608	0.608	0.2500	£10.81	£10.25
SH24-13	13	0.569	0.652	0.652	0.2500	£10.82	£10.28
SH24-14	14	0.613	0.696	0.500	0.2500	£11.28	£10.57
SH24-15	15	0.656	0.750	0.500	0.3125	£11.36	£10.82
SH24-16	16	0.700	0.783	0.500	0.3125	£11.85	£11.18
SH24-17	17	0.744	0.827	0.500	0.3125	£12.11	£11.47
SH24-18	18	0.788	0.871	0.625	0.3125	£12.44	£11.73
SH24-19	19	0.831	0.915	0.625	0.3125	£12.66	£12.06
SH24-20	20	0.875	0.958	0.625	0.3125	£12.84	£12.40
SH24-21	21	0.919	1.002	0.625	0.3125	£13.03	£12.44
SH24-22	22	0.963	1.046	0.625	0.3125	£13.37	£12.50
SH24-23	23	1.006	1.090	0.625	0.3125	£13.61	£12.51
SH24-24	24	1.050	1.133	0.625	0.3125	£13.92	£12.66
SH24-25	25	1.094	1.177	0.625	0.3125	£15.12	£12.77
SH24-26	26	1.138	1.221	0.625	0.3125	£15.33	£12.84
SH24-27	27	1.181	1.265	0.625	0.3125	£15.55	£13.00
SH24-28	28	1.225	1.308	0.625	0.3125	£15.77	£13.09
SH24-29	29	1.269	1.352	0.625	0.3125	£15.93	£13.19
SH24-30	30	1.313	1.396	0.750	0.3125	£16.19	£13.27
SH24-31	31	1.356	1.440	0.750	0.3125	£16.35	£13.37

Helical Gears Parallel Axis Steel DP 24

24.58



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH24-32	32	1.400	1.483	0.750	0.3125	£16.68	£13.46
SH24-33	33	1.444	1.527	0.750	0.3125	£16.92	£13.54
SH24-34	34	1.488	1.571	0.750	0.3125	£17.13	£13.61
SH24-35	35	1.531	1.615	0.750	0.3125	£17.28	£13.68
SH24-36	36	1.575	1.658	0.750	0.3125	£17.34	£13.75
SH24-37	37	1.619	1.702	0.750	0.3125	£17.48	£13.82
SH24-38	38	1.663	1.746	0.750	0.3125	£17.62	£13.93
SH24-39	39	1.706	1.790	0.750	0.3125	£17.76	£13.96
SH24-40	40	1.750	1.833	0.750	0.3125	£17.81	£13.99
SH24-41	41	1.794	1.877	0.750	0.3125	£17.89	£14.08
SH24-42	42	1.838	1.921	0.750	0.3125	£17.99	£14.20
SH24-43	43	1.881	1.965	0.750	0.3125	£18.13	£14.32
SH24-44	44	1.925	2.008	0.750	0.3750	£18.24	£14.44
SH24-45	45	1.969	2.052	0.750	0.3750	£18.43	£14.64
SH24-46	46	2.013	2.096	0.750	0.3750	£19.13	£14.77
SH24-47	47	2.056	2.140	0.750	0.3750	£19.16	£15.07
SH24-48	48	2.100	2.183	0.750	0.3750	£19.62	£15.23
SH24-49	49	2.144	2.227	0.750	0.3750	£20.42	£15.41
SH24-50	50	2.188	2.271	0.750	0.3750	£21.25	£15.65
SH24-51	51	2.231	2.315	0.750	0.3750	£21.37	£15.90
SH24-52	52	2.275	2.358	0.750	0.3750	£21.59	£16.19
SH24-53	53	2.319	2.402	0.750	0.3750	£21.77	£16.44
SH24-54	54	2.363	2.446	0.750	0.3750	£22.01	£16.72
SH24-55	55	2.406	2.490	0.750	0.3750	£22.26	£16.94
SH24-56	56	2.450	2.533	0.750	0.3750	£22.78	£17.18
SH24-57	57	2.494	2.577	0.750	0.3750	£23.25	£17.38
SH24-58	58	2.538	2.621	0.750	0.3750	£23.67	£17.67
SH24-59	59	2.581	2.665	0.750	0.3750	£24.07	£17.89
SH24-60	60	2.625	2.708	0.750	0.3750	£24.57	£18.17
SH24-61	61	2.669	2.752	0.750	0.3750	£25.05	£18.45
SH24-62	62	2.713	2.796	0.750	0.3750	£25.28	£18.67
SH24-63	63	2.756	2.840	0.750	0.3750	£25.52	£18.83
SH24-64	64	2.800	2.883	0.750	0.3750	£26.04	£19.04
SH24-65	65	2.844	2.927	0.750	0.3750	£26.33	£19.27
SH24-66	66	2.888	2.971	0.750	0.3750	£26.86	£19.50
SH24-68	68	2.975	3.058	0.750	0.3750	£27.31	£19.81
SH24-70	70	3.063	3.146	0.750	0.3750	£27.69	£20.09
SH24-72	72	3.150	3.233	0.750	0.3750	£27.96	£20.42
SH24-73	73	3.194	3.277	0.750	0.3750	£28.31	£20.70
SH24-74	74	3.238	3.321	0.750	0.3750	£28.69	£20.96
SH24-76	76	3.325	3.408	0.750	0.3750	£29.10	£21.38
SH24-78	78	3.413	3.496	0.750	0.3750	£29.62	£21.84
SH24-80	80	3.500	3.583	0.750	0.3750	£30.11	£22.29
SH24-84	84	3.675	3.758	0.750	0.3750	£30.99	£24.19
SH24-88	88	3.850	3.933	0.750	0.3750	£33.04	£25.18
SH24-90	90	3.938	4.021	0.750	0.3750	£34.47	£26.33
SH24-96	96	4.200	4.283	0.750	0.3750	£39.28	£28.42
SH24-100	100	4.375	4.458	0.750	0.3750	£43.49	£30.85
SH24-112	112	4.900	4.983	1.000	0.5000	£46.36	£37.08
SH24-120	120	5.250	5.333	1.000	0.5000	£49.00	£39.23
SH24-130	130	5.688	5.771	1.500	0.7500	£53.96	£43.18
SH24-150	150	6.563	6.646	1.500	0.7500	£60.54	£48.48

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

24 DP

17°45' H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 120



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.00



RH 17°45'

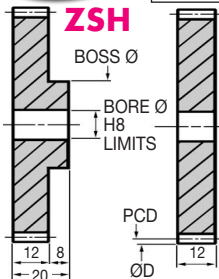


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

Quantity	Discount	List Price
1 - 5		List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH24-9	9	0.438	0.521	0.472	4	£5.33	£4.04
ZSH24-10	10	0.438	0.521	0.472	4	£5.34	£4.07
ZSH24-11	11	0.481	0.565	0.472	4	£5.36	£4.08
ZSH24-12	12	0.525	0.608	0.472	4	£5.46	£4.09
ZSH24-13	13	0.569	0.652	0.472	4	£5.46	£4.14
ZSH24-14	14	0.613	0.696	0.472	4	£5.58	£4.28
ZSH24-15	15	0.656	0.740	0.472	4	£5.73	£4.35
ZSH24-16	16	0.700	0.783	0.590	6	£5.90	£4.56
ZSH24-17	17	0.744	0.827	0.590	6	£6.06	£4.62
ZSH24-18	18	0.788	0.871	0.590	6	£6.20	£4.75
ZSH24-19	19	0.831	0.915	0.590	6	£6.32	£4.83
ZSH24-20	20	0.875	0.958	0.590	6	£6.40	£4.85
ZSH24-21	21	0.919	1.002	0.708	6	£6.50	£4.99
ZSH24-22	22	0.963	1.046	0.708	6	£6.68	£5.09
ZSH24-23	23	1.006	1.090	0.708	6	£6.77	£5.22
ZSH24-24	24	1.050	1.133	0.708	6	£6.95	£5.30
ZSH24-25	25	1.094	1.177	0.708	6	£7.63	£5.81
ZSH24-26	26	1.138	1.221	0.708	6	£7.72	£5.90
ZSH24-27	27	1.181	1.265	0.708	6	£8.59	£6.54
ZSH24-28	28	1.225	1.308	0.708	6	£8.67	£6.68
ZSH24-29	29	1.269	1.352	0.708	6	£8.81	£6.71
ZSH24-30	30	1.313	1.396	0.708	6	£8.93	£6.77
ZSH24-31	31	1.356	1.440	0.708	6	£9.04	£6.95

Helical Gears Parallel Axis Plastic DP 24

24.60



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH24-32	32	1.400	1.483	0.708	6	£9.20	£7.02
ZSH24-33	33	1.444	1.527	0.708	6	£9.32	£7.10
ZSH24-34	34	1.488	1.571	0.708	6	£9.47	£7.27
ZSH24-35	35	1.531	1.615	0.708	6	£9.55	£7.28
ZSH24-36	36	1.575	1.658	0.708	6	£10.94	£8.35
ZSH24-37	37	1.619	1.702	0.708	6	£10.97	£8.38
ZSH24-38	38	1.663	1.746	0.708	6	£11.10	£8.47
ZSH24-39	39	1.706	1.790	0.708	6	£11.12	£8.53
ZSH24-40	40	1.750	1.833	0.708	6	£11.15	£8.54
ZSH24-41	41	1.794	1.877	0.708	6	£11.28	£8.59
ZSH24-42	42	1.838	1.921	0.708	6	£11.33	£8.62
ZSH24-43	43	1.881	1.965	0.708	6	£13.68	£10.50
ZSH24-44	44	1.925	2.008	0.708	6	£13.78	£10.54
ZSH24-45	45	1.969	2.052	0.708	6	£13.93	£10.65
ZSH24-46	46	2.013	2.096	0.708	6	£14.46	£11.10
ZSH24-47	47	2.056	2.140	0.708	6	£14.50	£11.12
ZSH24-48	48	2.100	2.183	0.708	6	£14.78	£11.34
ZSH24-49	49	2.144	2.227	0.866	8	£15.42	£11.84
ZSH24-50	50	2.188	2.271	0.866	8	£16.09	£12.32
ZSH24-51	51	2.231	2.315	0.866	8	£16.13	£12.39
ZSH24-52	52	2.275	2.358	0.866	8	£16.29	£12.44
ZSH24-53	53	2.319	2.402	0.866	8	£18.66	£14.31
ZSH24-54	54	2.363	2.446	0.866	8	£18.94	£14.46
ZSH24-55	55	2.406	2.490	0.866	8	£19.04	£14.64
ZSH24-56	56	2.450	2.533	0.866	8	£19.54	£14.97
ZSH24-57	57	2.494	2.577	0.866	8	£19.93	£15.23
ZSH24-58	58	2.538	2.621	0.866	8	£20.29	£15.55
ZSH24-59	59	2.581	2.665	0.866	8	£20.64	£15.86
ZSH24-60	60	2.625	2.708	0.866	8	£21.01	£16.13
ZSH24-61	61	2.669	2.752	0.866	8	£21.48	£16.44
ZSH24-62	62	2.713	2.796	0.866	8	£21.62	£16.56
ZSH24-63	63	2.756	2.840	0.866	8	£21.91	£16.77
ZSH24-64	64	2.800	2.883	0.866	8	£22.36	£17.06
ZSH24-65	65	2.844	2.927	0.866	8	£22.57	£17.28
ZSH24-66	66	2.888	2.971	0.866	8	£24.38	£18.69
ZSH24-68	68	2.975	3.058	0.866	8	£25.12	£19.25
ZSH24-70	70	3.063	3.146	0.866	8	£25.13	£19.42
ZSH24-72	72	3.150	3.233	0.866	8	£25.36	£19.59
ZSH24-73	73	3.194	3.277	0.866	8	£25.74	£19.69
ZSH24-74	74	3.238	3.321	0.866	8	£26.09	£19.95
ZSH24-76	76	3.325	3.408	0.866	8	£26.44	£20.29
ZSH24-78	78	3.413	3.496	0.866	8	£26.85	£20.57
ZSH24-80	80	3.500	3.583	0.866	8	£30.43	£23.30
ZSH24-84	84	3.675	3.758	0.866	8	£31.24	£23.92
ZSH24-88	88	3.850	3.933	0.866	8	£33.32	£25.52
ZSH24-90	90	3.938	4.021	1.023	10	£38.27	£29.32
ZSH24-96	96	4.200	4.283	1.023	10	£47.64	£38.65
ZSH24-100	100	4.375	4.458	1.574	15	£60.91	£51.97
ZSH24-112	112	4.900	4.983	1.574	15	£78.20	£69.27
ZSH24-120	120	5.250	5.333	1.574	15	£99.49	£90.51

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

20 DP

17°45' H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 140

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	9.04	35.75	4.52	3.23
	K.W.	0.947	3.744	0.470	0.336



RH 17°45'

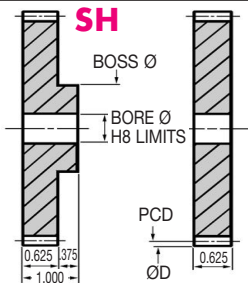


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



PSH

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH20-9	9	0.525	0.625	0.625	0.250	£12.41	£11.30
SH20-10	10	0.525	0.625	0.625	0.250	£12.42	£11.33
SH20-11	11	0.578	0.678	0.678	0.250	£12.43	£11.34
SH20-12	12	0.630	0.730	0.730	0.250	£12.44	£11.35
SH20-13	13	0.683	0.783	0.783	0.250	£13.03	£11.66
SH20-14	14	0.735	0.835	0.835	0.250	£13.75	£12.15
SH20-15	15	0.788	0.888	0.625	0.375	£14.27	£12.51
SH20-16	16	0.840	0.940	0.625	0.375	£14.90	£12.83
SH20-17	17	0.893	0.993	0.625	0.375	£15.07	£13.00
SH20-18	18	0.945	1.045	0.750	0.375	£15.33	£13.03
SH20-19	19	0.998	1.098	0.750	0.375	£15.61	£13.19
SH20-20	20	1.050	1.150	0.750	0.375	£15.93	£13.31
SH20-21	21	1.103	1.203	0.750	0.375	£16.17	£13.48
SH20-22	22	1.155	1.255	0.750	0.375	£16.44	£13.64
SH20-23	23	1.208	1.308	0.750	0.375	£16.68	£13.92
SH20-24	24	1.260	1.360	0.875	0.375	£16.90	£14.05
SH20-25	25	1.313	1.413	0.875	0.375	£17.31	£14.20
SH20-26	26	1.365	1.465	0.875	0.375	£17.77	£14.32
SH20-27	27	1.418	1.518	0.875	0.375	£18.17	£14.44
SH20-28	28	1.470	1.570	0.875	0.375	£18.61	£14.64
SH20-29	29	1.523	1.623	0.875	0.375	£19.00	£14.72
SH20-30	30	1.575	1.675	0.875	0.375	£19.46	£14.82
SH20-31	31	1.628	1.728	0.875	0.375	£19.73	£14.95

Helical Gears Parallel Axis Steel DP 20

24.62



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH20-32	32	1.680	1.780	0.875	0.375	£20.08	£15.02
SH20-33	33	1.733	1.833	0.875	0.375	£20.36	£15.19
SH20-34	34	1.785	1.885	0.875	0.375	£20.82	£15.38
SH20-35	35	1.838	1.938	0.875	0.375	£21.25	£15.39
SH20-36	36	1.890	1.990	0.875	0.375	£21.77	£15.82
SH20-37	37	1.943	2.043	0.875	0.375	£22.21	£15.93
SH20-38	38	1.995	2.095	0.875	0.375	£22.69	£16.19
SH20-39	39	2.048	2.148	0.875	0.375	£23.15	£16.38
SH20-40	40	2.100	2.200	0.875	0.500	£23.54	£16.49
SH20-41	41	2.153	2.253	0.875	0.500	£23.99	£16.72
SH20-42	42	2.205	2.305	0.875	0.500	£24.45	£16.83
SH20-43	43	2.258	2.358	0.875	0.500	£24.81	£16.95
SH20-44	44	2.310	2.410	0.875	0.500	£25.31	£17.13
SH20-45	45	2.363	2.463	0.875	0.500	£25.77	£17.28
SH20-46	46	2.415	2.515	0.875	0.500	£26.04	£17.37
SH20-47	47	2.468	2.568	0.875	0.500	£26.27	£17.51
SH20-48	48	2.520	2.620	0.875	0.500	£26.69	£17.77
SH20-49	49	2.573	2.673	0.875	0.500	£26.89	£17.98
SH20-50	50	2.625	2.725	0.875	0.500	£27.13	£18.23
SH20-51	51	2.678	2.778	0.875	0.500	£27.42	£18.43
SH20-52	52	2.730	2.830	0.875	0.500	£27.64	£18.67
SH20-53	53	2.783	2.883	0.875	0.500	£28.04	£18.77
SH20-54	54	2.835	2.935	0.875	0.500	£28.50	£18.87
SH20-55	55	2.888	2.988	0.875	0.500	£28.76	£19.04
SH20-56	56	2.940	3.040	0.875	0.500	£29.32	£19.15
SH20-57	57	2.993	3.093	0.875	0.500	£29.81	£19.27
SH20-58	58	3.045	3.145	0.875	0.500	£30.10	£19.41
SH20-59	59	3.098	3.198	0.875	0.500	£30.51	£19.61
SH20-60	60	3.150	3.250	0.875	0.500	£30.74	£19.73
SH20-61	61	3.203	3.303	0.875	0.500	£31.16	£19.98
SH20-62	62	3.255	3.355	0.875	0.500	£31.62	£20.42
SH20-63	63	3.308	3.408	0.875	0.500	£31.85	£20.73
SH20-64	64	3.360	3.460	0.875	0.500	£32.05	£21.21
SH20-65	65	3.413	3.513	0.875	0.500	£32.40	£21.84
SH20-66	66	3.465	3.565	0.875	0.500	£32.53	£22.45
SH20-68	68	3.570	3.670	0.875	0.500	£32.64	£23.08
SH20-70	70	3.675	3.775	0.875	0.500	£32.78	£23.74
SH20-72	72	3.780	3.880	0.875	0.500	£33.16	£26.89
SH20-73	73	3.833	3.933	0.875	0.500	£34.60	£27.31
SH20-74	74	3.885	3.985	0.875	0.500	£36.26	£27.87
SH20-76	76	3.990	4.090	0.875	0.500	£36.98	£28.37
SH20-78	78	4.095	4.195	0.875	0.500	£37.76	£28.76
SH20-80	80	4.200	4.300	0.875	0.500	£39.34	£29.27
SH20-84	84	4.410	4.510	0.875	0.500	£42.56	£32.05
SH20-88	88	4.620	4.720	0.875	0.500	£53.17	£42.53
SH20-90	90	4.725	4.825	0.875	0.500	£58.53	£46.74
SH20-96	96	5.040	5.140	1.500	0.750	£66.43	£53.14
SH20-100	100	5.250	5.350	1.500	0.750	£70.74	£56.58
SH20-112	112	5.880	5.980	1.500	0.750	£75.14	£60.09
SH20-120	120	6.300	6.400	1.500	0.750	£79.30	£63.41
SH20-130	130	6.825	6.925	1.500	0.750	£83.81	£67.01
SH20-140	140	7.350	7.450	1.500	0.750	£88.22	£70.54

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

20 DP

17°45' H.A.

20° P.A.

SPECIAL TEETH : between 9 - 120



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.50



RH 17°45'

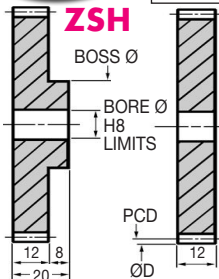


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPSH

DISCOUNTS

Quantity	Discount	List Price
1 - 5		List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH20-9	9	0.525	0.625	0.590	5	£6.43	£4.95
ZSH20-10	10	0.525	0.625	0.590	5	£6.44	£4.96
ZSH20-11	11	0.578	0.678	0.590	5	£6.46	£4.97
ZSH20-12	12	0.630	0.730	0.590	5	£6.50	£4.98
ZSH20-13	13	0.683	0.783	0.590	5	£6.50	£4.99
ZSH20-14	14	0.735	0.835	0.590	5	£6.87	£5.25
ZSH20-15	15	0.788	0.888	0.590	5	£7.10	£5.48
ZSH20-16	16	0.840	0.940	0.629	6	£7.45	£5.73
ZSH20-17	17	0.893	0.993	0.629	6	£7.63	£5.79
ZSH20-18	18	0.945	1.045	0.629	6	£7.72	£5.83
ZSH20-19	19	0.998	1.098	0.629	6	£7.82	£5.95
ZSH20-20	20	1.050	1.150	0.629	6	£7.99	£6.14
ZSH20-21	21	1.103	1.203	0.708	6	£8.10	£6.20
ZSH20-22	22	1.155	1.255	0.708	6	£8.20	£6.32
ZSH20-23	23	1.208	1.308	0.708	6	£9.20	£7.02
ZSH20-24	24	1.260	1.360	0.708	6	£9.47	£7.10
ZSH20-25	25	1.313	1.413	0.708	6	£9.55	£7.36
ZSH20-26	26	1.365	1.465	0.708	6	£9.82	£7.45
ZSH20-27	27	1.418	1.518	0.708	6	£10.04	£7.72
ZSH20-28	28	1.470	1.570	0.708	6	£10.25	£7.87
ZSH20-29	29	1.523	1.623	0.708	6	£10.50	£8.02
ZSH20-30	30	1.575	1.675	0.708	6	£12.22	£9.40
ZSH20-31	31	1.628	1.728	0.708	6	£12.42	£9.51

Helical Gears Parallel Axis Plastic DP 20

24.64



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH20-32	32	1.680	1.780	0.708	6	£12.66	£9.65
ZSH20-33	33	1.733	1.833	0.708	6	£12.78	£9.82
ZSH20-34	34	1.785	1.885	0.708	6	£13.05	£10.01
ZSH20-35	35	1.838	1.938	0.708	6	£13.31	£10.19
ZSH20-36	36	1.890	1.990	0.708	6	£16.60	£13.12
ZSH20-37	37	1.943	2.043	0.708	6	£16.77	£13.13
ZSH20-38	38	1.995	2.095	0.708	6	£17.13	£13.14
ZSH20-39	39	2.048	2.148	0.708	6	£17.51	£13.39
ZSH20-40	40	2.100	2.200	0.708	6	£17.78	£13.64
ZSH20-41	41	2.153	2.253	0.866	8	£18.13	£13.93
ZSH20-42	42	2.205	2.305	0.866	8	£18.45	£14.13
ZSH20-43	43	2.258	2.358	0.866	8	£18.74	£14.35
ZSH20-44	44	2.310	2.410	0.866	8	£21.68	£16.64
ZSH20-45	45	2.363	2.463	0.866	8	£22.11	£16.94
ZSH20-46	46	2.415	2.515	0.866	8	£22.36	£17.06
ZSH20-47	47	2.468	2.568	0.866	8	£22.47	£17.26
ZSH20-48	48	2.520	2.620	0.866	8	£22.90	£17.52
ZSH20-49	49	2.573	2.673	0.866	8	£23.07	£17.63
ZSH20-50	50	2.625	2.725	0.866	8	£23.26	£17.87
ZSH20-51	51	2.678	2.778	0.866	8	£23.53	£18.04
ZSH20-52	52	2.730	2.830	0.866	8	£23.68	£18.13
ZSH20-53	53	2.783	2.883	0.866	8	£24.07	£18.45
ZSH20-54	54	2.835	2.935	0.866	8	£24.40	£18.69
ZSH20-55	55	2.888	2.988	1.023	10	£26.11	£20.00
ZSH20-56	56	2.940	3.040	1.023	10	£26.66	£20.42
ZSH20-57	57	2.993	3.093	1.023	10	£27.04	£20.70
ZSH20-58	58	3.045	3.145	1.023	10	£27.39	£20.96
ZSH20-59	59	3.098	3.198	1.023	10	£27.68	£21.24
ZSH20-60	60	3.150	3.250	1.023	10	£27.91	£21.37
ZSH20-61	61	3.203	3.303	1.023	10	£28.28	£21.68
ZSH20-62	62	3.255	3.355	1.023	10	£28.69	£21.98
ZSH20-63	63	3.308	3.408	1.023	10	£28.91	£22.12
ZSH20-64	64	3.360	3.460	1.023	10	£29.10	£22.36
ZSH20-65	65	3.413	3.513	1.023	10	£29.40	£22.55
ZSH20-66	66	3.465	3.565	1.023	10	£32.83	£25.13
ZSH20-68	68	3.570	3.670	1.023	10	£32.97	£25.30
ZSH20-70	70	3.675	3.775	1.023	10	£33.07	£25.36
ZSH20-72	72	3.780	3.880	1.023	10	£33.44	£25.61
ZSH20-73	73	3.833	3.933	1.023	10	£34.93	£26.80
ZSH20-74	74	3.885	3.985	1.023	10	£40.28	£30.86
ZSH20-76	76	3.990	4.090	1.023	10	£41.03	£31.50
ZSH20-78	78	4.095	4.195	1.023	10	£41.90	£32.14
ZSH20-80	80	4.200	4.300	1.181	12	£43.69	£33.55
ZSH20-84	84	4.410	4.510	1.181	12	£47.27	£36.24
ZSH20-88	88	4.620	4.720	1.181	12	£59.02	£45.27
ZSH20-90	90	4.725	4.825	1.181	12	£70.87	£54.31
ZSH20-96	96	5.040	5.140	1.574	15	£80.22	£63.73
ZSH20-100	100	5.250	5.350	1.574	15	£93.51	£77.01
ZSH20-112	112	5.880	5.980	1.574	15	£110.90	£94.32
ZSH20-120	120	6.300	6.400	1.968	20	£132.14	£115.56

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

16 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 120

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	16.94	67.03	8.47	6.05
	K.W.	1.775	7.027	0.877	0.634



RH 17°45'

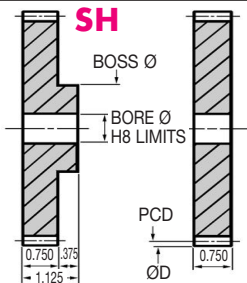


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH16-9	9	0.656	0.781	0.781	0.312	£13.93	£12.75
SH16-10	10	0.656	0.781	0.781	0.312	£13.94	£12.76
SH16-11	11	0.722	0.847	0.847	0.312	£13.95	£12.77
SH16-12	12	0.788	0.913	0.913	0.375	£13.96	£12.78
SH16-13	13	0.853	0.978	0.750	0.375	£13.97	£13.37
SH16-14	14	0.919	1.044	0.750	0.375	£14.25	£13.77
SH16-15	15	0.984	1.109	0.750	0.375	£14.67	£14.46
SH16-16	16	1.050	1.175	0.750	0.375	£15.55	£15.19
SH16-17	17	1.116	1.241	0.750	0.375	£16.17	£15.61
SH16-18	18	1.181	1.306	0.750	0.375	£16.94	£16.22
SH16-19	19	1.247	1.372	0.750	0.375	£17.37	£16.44
SH16-20	20	1.313	1.438	1.000	0.500	£17.81	£16.83
SH16-21	21	1.378	1.503	1.000	0.500	£18.87	£17.25
SH16-22	22	1.444	1.569	1.000	0.500	£19.73	£17.51
SH16-23	23	1.509	1.634	1.000	0.500	£20.36	£17.99
SH16-24	24	1.575	1.700	1.000	0.500	£20.87	£18.43
SH16-25	25	1.641	1.766	1.000	0.500	£21.09	£18.66
SH16-26	26	1.706	1.831	1.000	0.500	£21.77	£18.98
SH16-27	27	1.772	1.897	1.000	0.500	£22.11	£19.07
SH16-28	28	1.838	1.963	1.000	0.500	£22.55	£19.21
SH16-29	29	1.903	2.028	1.000	0.500	£22.81	£19.36
SH16-30	30	1.969	2.094	1.000	0.500	£23.22	£19.50
SH16-31	31	2.034	2.159	1.000	0.500	£23.81	£19.66

Helical Gears Parallel Axis Steel DP 16

24.66



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5 SH	PSH
SH16-32	32	2.100	2.225	1.000	0.500	£24.39	£19.81
SH16-33	33	2.166	2.291	1.000	0.500	£24.45	£19.98
SH16-34	34	2.231	2.356	1.000	0.500	£24.58	£20.12
SH16-35	35	2.297	2.422	1.000	0.500	£24.67	£20.25
SH16-36	36	2.363	2.488	1.250	0.625	£24.77	£24.07
SH16-37	37	2.428	2.553	1.250	0.625	£25.12	£24.73
SH16-38	38	2.494	2.619	1.250	0.625	£25.66	£25.40
SH16-39	39	2.559	2.684	1.250	0.625	£26.30	£25.93
SH16-40	40	2.625	2.750	1.250	0.625	£26.66	£26.61
SH16-41	41	2.691	2.816	1.250	0.625	£26.90	£26.70
SH16-42	42	2.756	2.881	1.250	0.625	£27.60	£27.21
SH16-43	43	2.822	2.947	1.250	0.625	£28.29	£27.33
SH16-44	44	2.888	3.013	1.250	0.625	£29.01	£28.14
SH16-45	45	2.953	3.078	1.250	0.625	£29.84	£28.66
SH16-46	46	3.019	3.144	1.250	0.625	£30.79	£29.10
SH16-47	47	3.084	3.209	1.250	0.625	£31.77	£29.73
SH16-48	48	3.150	3.275	1.250	0.625	£32.53	£30.26
SH16-49	49	3.216	3.341	1.250	0.625	£33.36	£31.06
SH16-50	50	3.281	3.406	1.250	0.625	£33.90	£31.68
SH16-51	51	3.347	3.472	1.250	0.625	£34.55	£32.22
SH16-52	52	3.413	3.538	1.250	0.625	£35.11	£33.20
SH16-53	53	3.478	3.603	1.250	0.625	£36.36	£33.50
SH16-54	54	3.544	3.669	1.250	0.625	£37.44	£34.13
SH16-55	55	3.609	3.734	1.250	0.625	£37.76	£34.60
SH16-56	56	3.675	3.800	1.250	0.625	£38.35	£35.15
SH16-57	57	3.741	3.866	1.250	0.625	£39.55	£35.82
SH16-58	58	3.806	3.931	1.250	0.625	£40.05	£36.44
SH16-59	59	3.872	3.997	1.250	0.625	£40.65	£37.08
SH16-60	60	3.938	4.063	1.250	0.625	£41.32	£37.71
SH16-61	61	4.003	4.128	1.250	0.625	£42.52	£37.80
SH16-62	62	4.069	4.194	1.250	0.625	£43.73	£38.86
SH16-63	63	4.134	4.259	1.250	0.625	£44.29	£39.34
SH16-64	64	4.200	4.325	1.250	0.625	£44.80	£39.93
SH16-65	65	4.266	4.391	1.250	0.625	£45.58	£40.56
SH16-66	66	4.331	4.456	1.250	0.625	£46.96	£41.31
SH16-68	68	4.463	4.588	1.250	0.625	£47.40	£41.66
SH16-70	70	4.594	4.719	1.250	0.625	£48.97	£43.13
SH16-72	72	4.725	4.850	1.250	0.625	£50.82	£44.67
SH16-73	73	4.791	4.916	1.250	0.625	£53.45	£47.02
SH16-74	74	4.856	4.981	1.250	0.625	£56.15	£49.44
SH16-76	76	4.988	5.113	1.250	0.625	£59.99	£52.77
SH16-78	78	5.119	5.244	1.250	0.625	£62.42	£54.92
SH16-80	80	5.250	5.375	1.250	0.625	£66.83	£58.81
SH16-84	84	5.512	5.637	1.250	0.625	£70.63	£62.15
SH16-88	88	5.775	5.900	1.250	0.625	£78.49	£69.13
SH16-90	90	5.906	6.031	1.250	0.625	£82.08	£72.24
SH16-96	96	6.300	6.425	1.500	0.750	£90.15	£79.36
SH16-100	100	6.563	6.688	1.500	0.750	£93.96	£82.67
SH16-105	105	6.890	7.015	1.500	0.750	£102.66	£90.31
SH16-110	110	7.218	7.343	1.500	0.750	£109.68	£96.57
SH16-115	115	7.547	7.672	1.500	0.750	£113.63	£99.96
SH16-120	120	7.875	8.000	1.500	0.750	£119.20	£104.91

Helical Gears Parallel Axis Steel DP 16

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

16 DP

17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 100

SPECIALS
ON DEMAND

TORQUE CHECK
50 teeth x 1000 rpm

variations at back	TORQUE Nm.	3.00
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RH 17°45'

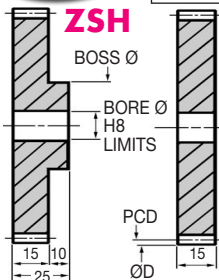


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	1 - 5	List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH16-9	9	0.656	0.781	0.708	6	£6.94	£5.23
ZSH16-10	10	0.656	0.781	0.708	6	£6.95	£5.25
ZSH16-11	11	0.722	0.847	0.708	6	£6.96	£5.27
ZSH16-12	12	0.788	0.913	0.708	6	£6.97	£5.29
ZSH16-13	13	0.853	0.978	0.708	6	£6.99	£5.30
ZSH16-14	14	0.919	1.044	0.787	8	£7.10	£5.48
ZSH16-15	15	0.984	1.109	0.787	8	£7.36	£5.58
ZSH16-16	16	1.050	1.175	0.787	8	£8.59	£6.54
ZSH16-17	17	1.116	1.241	0.787	8	£8.93	£6.77
ZSH16-18	18	1.181	1.306	0.944	8	£9.32	£7.14
ZSH16-19	19	1.247	1.372	0.984	8	£9.37	£7.36
ZSH16-20	20	1.313	1.438	0.984	8	£9.86	£7.49
ZSH16-21	21	1.378	1.503	0.984	8	£10.42	£7.99
ZSH16-22	22	1.444	1.569	0.984	8	£12.16	£8.47
ZSH16-23	23	1.509	1.634	0.984	8	£12.32	£9.40
ZSH16-24	24	1.575	1.700	0.984	8	£12.75	£9.51
ZSH16-25	25	1.641	1.766	0.984	8	£13.27	£10.15
ZSH16-26	26	1.706	1.831	0.984	8	£13.68	£10.50
ZSH16-27	27	1.772	1.897	0.984	8	£13.93	£10.65
ZSH16-28	28	1.838	1.963	0.984	8	£17.02	£13.04
ZSH16-29	29	1.903	2.028	0.984	8	£17.28	£13.27
ZSH16-30	30	1.969	2.094	0.984	8	£17.52	£13.41
ZSH16-31	31	2.034	2.159	1.102	10	£17.99	£13.78

Helical Gears Parallel Axis Plastic DP 16

24.68



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH16-32	32	2.100	2.225	1.102	10	£18.40	£14.08
ZSH16-33	33	2.166	2.291	1.102	10	£18.48	£14.13
ZSH16-34	34	2.231	2.356	1.102	10	£21.09	£16.13
ZSH16-35	35	2.297	2.422	1.102	10	£21.10	£16.22
ZSH16-38	38	2.494	2.619	1.102	10	£21.24	£16.25
ZSH16-39	39	2.559	2.684	1.102	10	£21.52	£16.53
ZSH16-40	40	2.625	2.750	1.181	12	£21.98	£16.81
ZSH16-41	41	2.691	2.816	1.181	12	£22.55	£17.28
ZSH16-42	42	2.756	2.881	1.181	12	£22.80	£17.51
ZSH16-43	43	2.822	2.947	1.181	12	£23.07	£17.67
ZSH16-44	44	2.888	3.013	1.181	12	£23.64	£18.13
ZSH16-45	45	2.953	3.078	1.181	12	£25.68	£19.66
ZSH16-46	46	3.019	3.144	1.181	12	£27.13	£20.73
ZSH16-47	47	3.084	3.209	1.181	12	£27.16	£20.82
ZSH16-48	48	3.150	3.275	1.181	12	£27.96	£21.39
ZSH16-49	49	3.216	3.341	1.181	12	£28.89	£22.12
ZSH16-50	50	3.281	3.406	1.181	12	£29.54	£22.68
ZSH16-51	51	3.347	3.472	1.181	12	£30.32	£23.20
ZSH16-52	52	3.413	3.538	1.181	12	£30.78	£23.56
ZSH16-53	53	3.478	3.603	1.181	12	£31.34	£24.07
ZSH16-54	54	3.544	3.669	1.181	12	£35.45	£27.21
ZSH16-55	55	3.609	3.734	1.181	12	£36.72	£28.15
ZSH16-56	56	3.675	3.800	1.181	12	£37.79	£28.97
ZSH16-57	57	3.741	3.866	1.181	12	£38.12	£29.26
ZSH16-58	58	3.806	3.931	1.181	12	£38.65	£29.67
ZSH16-59	59	3.872	3.997	1.181	12	£39.91	£30.55
ZSH16-60	60	3.938	4.063	1.181	12	£44.50	£34.15
ZSH16-61	61	4.003	4.128	1.181	12	£45.15	£34.61
ZSH16-62	62	4.069	4.194	1.181	12	£45.90	£35.17
ZSH16-63	63	4.134	4.259	1.181	12	£47.19	£36.22
ZSH16-64	64	4.200	4.325	1.181	12	£48.52	£37.20
ZSH16-65	65	4.266	4.391	1.181	12	£49.16	£37.68
ZSH16-66	66	4.331	4.456	1.574	12	£49.72	£38.15
ZSH16-68	68	4.463	4.588	1.574	12	£50.60	£38.77
ZSH16-70	70	4.594	4.719	1.574	12	£52.10	£39.96
ZSH16-71	71	4.659	4.784	1.574	12	£52.64	£40.32
ZSH16-72	72	4.725	4.850	1.574	12	£57.54	£45.60
ZSH16-73	73	4.791	4.916	1.574	12	£61.07	£50.92
ZSH16-74	74	4.856	4.981	1.574	12	£72.27	£61.30
ZSH16-75	75	4.922	5.047	1.574	12	£82.53	£65.62
ZSH16-76	76	4.988	5.113	1.574	12	£83.09	£65.62
ZSH16-78	78	5.119	5.244	1.574	12	£89.20	£74.22
ZSH16-80	80	5.250	5.375	1.574	12	£94.64	£77.59
ZSH16-86	86	5.644	5.769	1.574	12	£99.14	£83.18
ZSH16-90	90	5.906	6.031	1.574	15	£106.54	£84.86
ZSH16-96	96	6.300	6.425	1.574	15	£119.81	£98.17
ZSH16-98	98	6.431	6.556	1.574	15	£144.30	£122.66
ZSH16-100	100	6.563	6.688	1.968	20	£178.47	£156.82

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

12 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 120



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	40.16	158.89	20.08	14.34
	K.W.	9.21	16.650	2.104	1.506

RH 17°45'

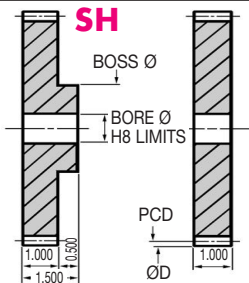


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH12-9	9	0.875	1.042	0.937	0.500	£17.88	£14.90
SH12-10	10	0.875	1.042	0.937	0.500	£17.89	£14.95
SH12-11	11	0.963	1.129	0.937	0.500	£17.90	£14.95
SH12-12	12	1.050	1.217	0.937	0.500	£17.94	£14.96
SH12-13	13	1.138	1.304	0.937	0.500	£17.98	£15.95
SH12-14	14	1.225	1.392	0.937	0.500	£20.12	£16.90
SH12-15	15	1.313	1.479	0.937	0.500	£21.21	£17.90
SH12-16	16	1.400	1.567	0.937	0.500	£22.26	£18.88
SH12-17	17	1.488	1.654	0.937	0.625	£22.81	£19.42
SH12-18	18	1.575	1.742	1.250	0.625	£23.31	£19.95
SH12-19	19	1.663	1.829	1.250	0.625	£23.91	£20.36
SH12-20	20	1.750	1.917	1.250	0.625	£24.40	£20.88
SH12-21	21	1.838	2.004	1.250	0.625	£25.40	£21.92
SH12-22	22	1.925	2.092	1.250	0.625	£26.66	£22.90
SH12-23	23	2.013	2.179	1.250	0.625	£27.42	£23.92
SH12-24	24	2.100	2.267	1.250	0.625	£28.69	£24.81
SH12-25	25	2.188	2.354	1.250	0.625	£29.10	£25.40
SH12-26	26	2.275	2.442	1.250	0.625	£29.89	£26.12
SH12-27	27	2.363	2.529	1.250	0.625	£30.81	£26.80
SH12-28	28	2.450	2.617	1.250	0.625	£31.77	£27.31
SH12-29	29	2.538	2.704	1.250	0.625	£32.33	£28.13
SH12-30	30	2.625	2.792	1.250	0.625	£32.99	£28.79
SH12-31	31	2.713	2.879	1.250	0.625	£33.97	£29.81

24.70



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH12-32	32	2.800	2.967	1.250	0.625	£33.99	£30.76
SH12-33	33	2.888	3.054	1.250	0.625	£38.50	£32.71
SH12-34	34	2.975	3.142	1.250	0.625	£40.02	£33.61
SH12-35	35	3.063	3.229	1.250	0.625	£40.93	£34.23
SH12-36	36	3.150	3.317	1.500	0.625	£41.82	£34.75
SH12-37	37	3.238	3.404	1.500	0.625	£42.91	£35.70
SH12-38	38	3.325	3.492	1.500	0.625	£43.73	£36.54
SH12-39	39	3.413	3.579	1.500	0.625	£45.11	£37.71
SH12-40	40	3.500	3.667	1.500	0.625	£48.48	£40.68
SH12-41	41	3.588	3.754	1.500	0.625	£48.90	£40.98
SH12-42	42	3.675	3.842	1.500	0.625	£49.39	£41.30
SH12-43	43	3.763	3.929	1.500	0.625	£49.84	£41.66
SH12-44	44	3.850	4.017	1.500	0.625	£50.19	£42.20
SH12-45	45	3.938	4.104	1.500	0.625	£50.60	£42.56
SH12-46	46	4.025	4.192	1.500	0.625	£50.99	£42.81
SH12-47	47	4.113	4.279	1.500	0.625	£51.45	£43.21
SH12-48	48	4.200	4.367	1.500	0.625	£51.77	£43.66
SH12-49	49	4.288	4.454	1.500	0.625	£53.15	£44.70
SH12-50	50	4.375	4.542	1.500	0.625	£54.36	£45.58
SH12-51	51	4.463	4.629	1.500	0.625	£55.46	£46.59
SH12-52	52	4.550	4.717	1.500	0.625	£56.91	£48.25
SH12-53	53	4.638	4.804	1.500	0.625	£58.18	£49.21
SH12-54	54	4.725	4.892	1.500	0.625	£59.01	£50.10
SH12-55	55	4.813	4.979	1.500	0.625	£60.31	£51.71
SH12-56	56	4.900	5.067	1.500	0.625	£61.66	£52.48
SH12-57	57	4.988	5.154	1.750	0.750	£62.71	£53.59
SH12-58	58	5.075	5.242	1.750	0.750	£64.17	£54.56
SH12-59	59	5.163	5.329	1.750	0.750	£66.12	£55.57
SH12-60	60	5.250	5.417	1.750	0.750	£68.40	£56.82
SH12-62	62	5.425	5.592	1.750	0.750	£71.57	£58.29
SH12-64	64	5.600	5.767	1.750	0.750	£73.96	£60.00
SH12-65	65	5.688	5.854	1.750	0.750	£76.57	£61.49
SH12-66	66	5.775	5.942	1.750	0.750	£80.04	£63.21
SH12-68	68	5.950	6.117	1.750	0.750	£80.23	£64.17
SH12-70	70	6.125	6.292	1.750	0.750	£82.37	£64.93
SH12-71	71	6.213	6.379	1.750	0.750	£83.29	£65.59
SH12-72	72	6.300	6.467	1.750	0.750	£85.29	£66.41
SH12-73	73	6.388	6.554	1.750	0.750	£90.49	£72.41
SH12-74	74	6.475	6.642	1.750	0.750	£94.86	£75.87
SH12-75	75	6.563	6.729	1.750	0.750	£99.60	£79.64
SH12-76	76	6.650	6.817	1.750	0.750	£103.62	£82.86
SH12-78	78	6.825	6.992	1.750	0.750	£111.09	£90.46
SH12-80	80	7.000	7.167	1.750	0.750	£121.14	£96.84
SH12-86	86	7.525	7.692	1.750	0.750	£131.92	£104.25
SH12-90	90	7.875	8.042	1.750	0.750	£138.96	£111.17
SH12-96	96	8.400	8.567	1.750	0.750	£146.50	£117.20
SH12-98	98	8.575	8.742	1.750	0.750	£154.80	£123.81
SH12-100	100	8.750	8.917	1.750	0.750	£168.58	£134.89
SH12-105	105	9.188	9.354	1.750	0.750	£183.88	£147.13
SH12-110	110	9.625	9.792	1.750	0.750	£197.75	£158.17
SH12-115	115	10.063	10.229	1.750	0.750	£213.12	£170.46
SH12-120	120	10.500	10.667	1.750	0.750	£229.82	£183.77

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

12 DP

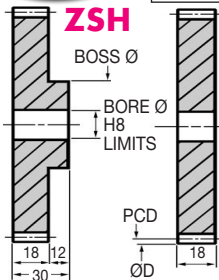
17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 96



SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 8.00



DISCOUNTS

Quantity	Discount	List Price
1 - 5		List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

RH 17°45'



LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH12-9	9	0.875	1.042	0.944	10	£8.93	£6.82
ZSH12-10	10	0.875	1.042	0.944	10	£8.94	£6.87
ZSH12-11	11	0.963	1.129	0.944	10	£8.96	£6.87
ZSH12-12	12	1.050	1.217	0.944	10	£9.86	£7.56
ZSH12-13	13	1.138	1.304	0.944	10	£9.93	£7.63
ZSH12-14	14	1.225	1.392	0.944	10	£11.12	£8.53
ZSH12-15	15	1.313	1.479	0.984	12	£11.73	£8.93
ZSH12-16	16	1.400	1.567	1.063	12	£13.99	£10.73
ZSH12-17	17	1.488	1.654	1.181	12	£14.35	£10.99
ZSH12-18	18	1.575	1.742	1.181	12	£14.66	£11.21
ZSH12-19	19	1.663	1.829	1.181	12	£15.06	£11.51
ZSH12-20	20	1.750	1.917	1.181	12	£15.38	£11.76
ZSH12-21	21	1.838	2.004	1.181	12	£19.20	£14.72
ZSH12-22	22	1.925	2.092	1.181	12	£20.12	£15.42
ZSH12-23	23	2.013	2.179	1.181	12	£20.70	£15.86
ZSH12-24	24	2.100	2.267	1.181	12	£21.68	£16.64
ZSH12-25	25	2.188	2.354	1.181	12	£21.98	£17.02
ZSH12-26	26	2.275	2.442	1.181	12	£25.61	£19.66
ZSH12-27	27	2.363	2.529	1.181	12	£26.44	£20.29
ZSH12-28	28	2.450	2.617	1.181	12	£27.51	£20.96
ZSH12-29	29	2.538	2.704	1.181	12	£27.68	£21.62
ZSH12-30	30	2.625	2.792	1.181	12	£28.28	£21.68
ZSH12-31	31	2.713	2.879	1.181	12	£29.16	£21.80

Helical Gears Parallel Axis Plastic DP 12

24.72



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH12-32	32	2.800	2.967	1.181	12	£29.65	£22.05
ZSH12-33	33	2.888	3.054	1.181	12	£30.41	£22.20
ZSH12-34	34	2.975	3.142	1.181	12	£36.34	£27.88
ZSH12-35	35	3.063	3.229	1.181	12	£37.15	£28.50
ZSH12-36	36	3.150	3.317	1.378	15	£37.98	£29.10
ZSH12-37	37	3.238	3.404	1.378	15	£38.90	£29.85
ZSH12-38	38	3.325	3.492	1.378	15	£39.68	£30.43
ZSH12-39	39	3.413	3.579	1.378	15	£45.51	£34.93
ZSH12-40	40	3.500	3.667	1.378	15	£48.92	£37.49
ZSH12-41	41	3.588	3.754	1.378	15	£49.35	£37.79
ZSH12-42	42	3.675	3.842	1.378	15	£49.84	£38.24
ZSH12-43	43	3.763	3.929	1.378	15	£55.36	£42.48
ZSH12-44	44	3.850	4.017	1.378	15	£55.76	£42.72
ZSH12-45	45	3.938	4.104	1.378	15	£56.13	£43.06
ZSH12-46	46	4.025	4.192	1.378	15	£56.60	£43.43
ZSH12-47	47	4.113	4.279	1.378	15	£57.12	£43.79
ZSH12-48	48	4.200	4.367	1.378	15	£57.49	£44.04
ZSH12-49	49	4.288	4.454	1.378	15	£59.00	£45.25
ZSH12-50	50	4.375	4.542	1.378	15	£60.31	£46.24
ZSH12-51	51	4.463	4.629	1.378	15	£61.52	£47.21
ZSH12-52	52	4.550	4.717	1.378	15	£63.21	£48.48
ZSH12-53	53	4.638	4.804	1.378	15	£70.48	£54.04
ZSH12-54	54	4.725	4.892	1.378	15	£71.47	£54.83
ZSH12-55	55	4.813	4.979	1.378	15	£73.03	£56.04
ZSH12-56	56	4.900	5.067	1.378	15	£74.69	£57.27
ZSH12-57	57	4.988	5.154	1.378	15	£75.91	£58.75
ZSH12-58	58	5.075	5.242	1.378	15	£77.72	£59.63
ZSH12-59	59	5.163	5.329	1.378	15	£80.05	£61.46
ZSH12-60	60	5.250	5.417	1.378	15	£82.82	£63.54
ZSH12-62	62	5.425	5.592	1.378	15	£89.57	£68.83
ZSH12-64	64	5.600	5.767	1.378	15	£93.93	£72.10
ZSH12-65	65	5.688	5.854	1.574	15	£97.92	£77.08
ZSH12-66	66	5.775	5.942	1.574	15	£104.07	£80.59
ZSH12-68	68	5.950	6.117	1.574	15	£105.31	£80.76
ZSH12-70	70	6.125	6.292	1.574	15	£108.11	£82.88
ZSH12-71	71	6.213	6.379	1.574	15	£126.06	£96.78
ZSH12-72	72	6.300	6.467	1.574	15	£129.15	£99.07
ZSH12-73	73	6.388	6.554	1.574	15	£137.03	£105.12
ZSH12-74	74	6.475	6.642	1.574	15	£143.61	£110.20
ZSH12-75	75	6.563	6.729	1.968	20	£150.81	£115.65
ZSH12-76	76	6.650	6.817	1.968	20	£156.88	£120.34
ZSH12-78	78	6.825	6.992	1.968	20	£168.18	£129.04
ZSH12-80	80	7.000	7.167	1.968	20	£183.39	£140.69
ZSH12-86	86	7.525	7.692	1.968	20	£199.63	£153.15
ZSH12-90	90	7.875	8.042	1.968	20	£231.49	£177.63
ZSH12-96	96	8.400	8.567	1.968	20	£243.99	£187.20

Helical Gears Parallel Axis Plastic Dp 12

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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24.73

Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

10 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIALS : up to Ø750 mm

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	69.40	274.55	34.70	24.79
	K.W.	7.273	28.773	3.640	2.596



RH 17°45'

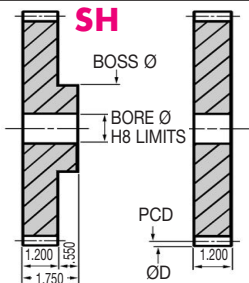


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



PSH

DISCOUNTS

	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH10-9	9	1.050	1.250	1.200	0.625	£24.67	£16.29
SH10-10	10	1.050	1.250	1.200	0.625	£24.70	£16.32
SH10-11	11	1.155	1.355	1.200	0.625	£24.72	£16.35
SH10-12	12	1.260	1.460	1.200	0.625	£24.73	£16.38
SH10-13	13	1.365	1.565	1.200	0.625	£25.31	£16.99
SH10-14	14	1.470	1.670	1.200	0.625	£26.53	£18.18
SH10-15	15	1.575	1.775	1.200	0.625	£28.14	£19.98
SH10-16	16	1.680	1.880	1.200	0.625	£29.81	£21.91
SH10-17	17	1.785	1.985	1.200	0.625	£30.55	£21.97
SH10-18	18	1.890	2.090	1.500	0.750	£31.50	£23.74
SH10-19	19	1.995	2.195	1.500	0.750	£32.35	£24.58
SH10-20	20	2.100	2.300	1.750	0.750	£33.50	£25.69
SH10-21	21	2.205	2.405	1.750	0.750	£34.77	£26.67
SH10-22	22	2.310	2.510	1.750	0.750	£35.47	£27.64
SH10-23	23	2.415	2.615	1.750	0.750	£36.67	£28.57
SH10-24	24	2.520	2.720	1.750	0.750	£37.47	£29.52
SH10-25	25	2.625	2.825	1.750	0.750	£38.58	£30.48
SH10-26	26	2.730	2.930	1.750	0.750	£39.55	£31.50
SH10-27	27	2.835	3.035	1.750	0.750	£40.59	£32.35
SH10-28	28	2.940	3.140	1.750	0.750	£41.53	£33.43
SH10-29	29	3.045	3.245	1.750	0.750	£42.76	£34.47
SH10-30	30	3.150	3.350	1.750	0.750	£43.56	£35.44
SH10-31	31	3.255	3.455	1.750	0.750	£44.91	£37.34

24.74



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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Helical Gears Parallel Axis Steel DP10

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH10-32	32	3.360	3.560	1.750	0.750	£46.48	£39.05
SH10-33	33	3.465	3.665	1.750	0.750	£47.35	£40.34
SH10-34	34	3.570	3.770	1.750	0.750	£48.25	£41.53
SH10-35	35	3.675	3.875	1.750	0.750	£49.27	£42.76
SH10-36	36	3.780	3.980	1.750	0.750	£52.23	£46.36
SH10-37	37	3.885	4.085	1.750	0.750	£53.45	£47.51
SH10-38	38	3.990	4.190	1.750	0.750	£54.13	£48.40
SH10-39	39	4.095	4.295	1.750	0.750	£54.53	£49.35
SH10-40	40	4.200	4.400	1.970	0.750	£55.09	£50.10
SH10-41	41	4.305	4.505	1.970	0.750	£57.36	£51.71
SH10-42	42	4.410	4.610	1.970	0.750	£59.65	£53.59
SH10-43	43	4.515	4.715	1.970	0.750	£61.12	£54.53
SH10-44	44	4.620	4.820	1.970	0.750	£62.31	£55.46
SH10-45	45	4.725	4.925	1.970	0.750	£64.26	£57.07
SH10-46	46	4.830	5.030	1.970	0.750	£65.75	£58.01
SH10-47	47	4.935	5.135	1.970	0.750	£67.38	£58.93
SH10-48	48	5.040	5.240	1.970	0.750	£68.84	£60.54
SH10-49	49	5.145	5.345	1.970	0.750	£70.73	£62.31
SH10-50	50	5.250	5.450	1.970	0.750	£72.63	£64.06
SH10-51	51	5.355	5.555	1.970	0.750	£73.27	£64.86
SH10-52	52	5.460	5.660	1.970	0.750	£74.09	£65.75
SH10-53	53	5.565	5.765	1.970	0.750	£74.93	£66.70
SH10-54	54	5.670	5.870	1.970	0.750	£75.78	£67.53
SH10-55	55	5.775	5.975	1.970	0.750	£83.17	£71.06
SH10-56	56	5.880	6.080	1.970	0.750	£84.70	£71.56
SH10-57	57	5.985	6.185	1.970	0.750	£86.02	£72.27
SH10-58	58	6.090	6.290	1.970	0.750	£87.81	£72.94
SH10-59	59	6.195	6.395	1.970	0.750	£88.63	£73.68
SH10-60	60	6.300	6.500	1.970	0.750	£90.14	£74.45
SH10-62	62	6.510	6.710	1.970	0.750	£101.19	£79.67
SH10-64	64	6.720	6.920	1.970	0.750	£115.86	£85.39
SH10-66	66	6.930	7.130	1.970	0.750	£123.51	£89.11
SH10-68	68	7.140	7.340	1.970	0.750	£137.94	£94.72
SH10-70	70	7.350	7.550	1.970	0.750	£141.88	£98.88
SH10-71	71	7.455	7.655	1.970	0.750	£149.32	£103.68
SH10-72	72	7.560	7.760	1.970	0.750	£155.26	£105.64
SH10-73	73	7.665	7.865	1.970	0.750	£162.98	£108.43
SH10-74	74	7.770	7.970	1.970	0.750	£175.50	£110.39
SH10-75	75	7.875	8.075	1.970	0.750	£182.48	£115.07
SH10-76	76	7.980	8.180	1.970	0.750	£189.44	£118.22
SH10-78	78	8.190	8.390	1.970	0.750	£196.40	£132.32
SH10-80	80	8.400	8.600	1.970	0.750	£199.95	£138.90
SH10-86	86	9.030	9.230	1.970	0.750	£203.50	£145.60
SH10-90	90	9.450	9.650	1.970	0.750	£207.42	£165.90
SH10-96	96	10.080	10.280	1.970	0.750	£226.88	£181.49
SH10-98	98	10.290	10.490	1.970	0.750	£256.09	£204.86
SH10-100	100	10.500	10.700	1.970	0.750	£258.26	£206.62
SH10-105	105	11.025	11.225	1.970	0.750	£276.48	£221.17
SH10-110	110	11.550	11.750	1.970	0.750	£303.37	£242.66

Up to Ø750 mm

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

10 DP

17°45' H.A.
20° P.A.

SPECIALS : between Ø750 mm



SPECIALS
ON DEMAND

TORQUE CHECK 50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	12.00

RH 17°45'

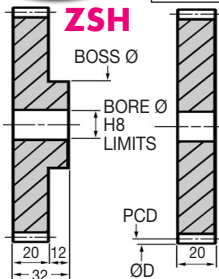


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPSH

DISCOUNTS

Quantity	Discount	List Price
1 - 5		List Price
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH10-9	9	1.050	1.250	1.181	10	£13.63	£10.43
ZSH10-10	10	1.050	1.250	1.181	10	£13.64	£10.44
ZSH10-11	11	1.155	1.355	1.181	10	£13.65	£10.45
ZSH10-12	12	1.260	1.460	1.181	12	£13.68	£10.46
ZSH10-13	13	1.365	1.565	1.181	12	£15.93	£12.16
ZSH10-14	14	1.470	1.670	1.181	12	£16.68	£12.78
ZSH10-15	15	1.575	1.775	1.181	12	£17.67	£13.57
ZSH10-16	16	1.680	1.880	1.181	12	£18.74	£14.35
ZSH10-17	17	1.785	1.985	1.181	12	£23.08	£17.67
ZSH10-18	18	1.890	2.090	1.181	12	£23.83	£18.23
ZSH10-19	19	1.995	2.195	1.181	12	£24.46	£18.74
ZSH10-20	20	2.100	2.300	1.181	12	£25.33	£19.40
ZSH10-21	21	2.205	2.405	1.181	12	£26.30	£20.15
ZSH10-22	22	2.310	2.510	1.181	12	£26.85	£20.57
ZSH10-23	23	2.415	2.615	1.181	12	£27.68	£21.24
ZSH10-24	24	2.520	2.720	1.181	12	£28.37	£21.71
ZSH10-25	25	2.625	2.825	1.181	12	£29.16	£22.36
ZSH10-26	26	2.730	2.930	1.181	12	£33.88	£25.97
ZSH10-27	27	2.835	3.035	1.181	12	£34.84	£26.68
ZSH10-28	28	2.940	3.140	1.378	15	£35.58	£27.30
ZSH10-29	29	3.045	3.245	1.378	15	£36.67	£28.13
ZSH10-30	30	3.150	3.350	1.378	15	£37.34	£28.66
ZSH10-31	31	3.255	3.455	1.378	15	£38.47	£29.67

Helical Gears Parallel Axis Plastic DP 10

24.76



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH10-32	32	3.360	3.560	1.378	15	£42.17	£30.55
ZSH10-33	33	3.465	3.665	1.378	15	£43.00	£31.42
ZSH10-34	34	3.570	3.770	1.378	15	£43.79	£33.61
ZSH10-35	35	3.675	3.875	1.378	15	£44.73	£34.29
ZSH10-36	36	3.780	3.980	1.771	17	£47.44	£36.34
ZSH10-37	37	3.885	4.085	1.771	17	£53.87	£41.36
ZSH10-38	38	3.990	4.190	1.771	17	£54.57	£41.89
ZSH10-39	39	4.095	4.295	1.771	17	£55.01	£42.17
ZSH10-40	40	4.200	4.400	1.771	17	£55.52	£42.60
ZSH10-41	41	4.305	4.505	1.771	17	£57.91	£44.38
ZSH10-42	42	4.410	4.610	1.771	17	£60.21	£46.16
ZSH10-43	43	4.515	4.715	1.771	17	£61.60	£47.27
ZSH10-44	44	4.620	4.820	1.771	17	£62.84	£48.24
ZSH10-45	45	4.725	4.925	1.771	17	£71.35	£54.69
ZSH10-46	46	4.830	5.030	1.771	17	£73.00	£56.03
ZSH10-47	47	4.935	5.135	1.771	17	£74.74	£57.36
ZSH10-48	48	5.040	5.240	1.771	17	£76.42	£58.63
ZSH10-49	49	5.145	5.345	1.771	17	£77.48	£60.21
ZSH10-50	50	5.250	5.450	1.771	17	£80.64	£61.83
ZSH10-51	51	5.355	5.555	1.771	17	£81.33	£62.42
ZSH10-52	52	5.460	5.660	1.771	17	£89.75	£69.01
ZSH10-53	53	5.565	5.765	1.771	17	£90.75	£69.61
ZSH10-54	54	5.670	5.870	1.771	17	£91.71	£70.39
ZSH10-55	55	5.775	5.975	1.771	17	£100.69	£77.24
ZSH10-56	56	5.880	6.080	1.771	17	£102.58	£78.67
ZSH10-57	57	5.985	6.185	2.362	20	£104.13	£79.99
ZSH10-58	58	6.090	6.290	2.362	20	£106.31	£81.59
ZSH10-59	59	6.195	6.395	2.362	20	£116.24	£89.22
ZSH10-60	60	6.300	6.500	2.362	20	£118.29	£100.86
ZSH10-62	62	6.510	6.710	2.362	20	£132.70	£101.89
ZSH10-64	64	6.720	6.920	2.362	20	£152.01	£116.59
ZSH10-66	66	6.930	7.130	2.362	20	£162.03	£124.40
ZSH10-68	68	7.140	7.340	2.362	20	£180.90	£138.83
ZSH10-70	70	7.350	7.550	2.362	20	£186.11	£142.80
ZSH10-71	71	7.455	7.655	2.362	20	£195.90	£150.28
ZSH10-72	72	7.560	7.760	2.362	20	£203.69	£154.62
ZSH10-73	73	7.665	7.865	2.362	20	£246.70	£189.33
ZSH10-74	74	7.770	7.970	2.362	20	£265.69	£203.94
ZSH10-75	75	7.875	8.075	2.362	20	£276.18	£211.94

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

8 DP

17°45' H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	135.55	536.24	67.77	48.41
	K.W.	14.20	56.196	7.101	5.072

RH 17°45'

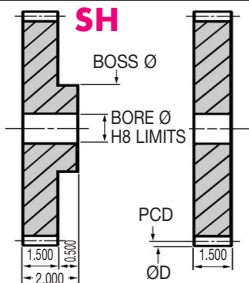


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS

	List Price
1 - 5	-
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH8-9	9	1.313	1.563	1.375	0.750	£30.53	£26.44
SH8-10	10	1.313	1.563	1.375	0.750	£30.54	£26.47
SH8-11	11	1.444	1.694	1.375	0.750	£30.55	£26.48
SH8-12	12	1.575	1.825	1.375	0.750	£30.57	£26.53
SH8-13	13	1.706	1.956	1.375	0.750	£31.85	£27.88
SH8-14	14	1.838	2.088	1.375	0.750	£33.04	£29.05
SH8-15	15	1.969	2.219	1.375	0.750	£33.99	£31.58
SH8-16	16	2.100	2.350	1.375	0.750	£36.06	£34.17
SH8-17	17	2.231	2.481	1.375	0.750	£38.04	£35.22
SH8-18	18	2.363	2.613	1.970	0.750	£40.21	£36.73
SH8-19	19	2.494	2.744	1.970	0.875	£41.70	£38.04
SH8-20	20	2.625	2.875	1.970	0.875	£43.03	£39.27
SH8-21	21	2.756	3.006	1.970	0.875	£44.64	£39.95
SH8-22	22	2.888	3.138	1.970	0.875	£46.34	£41.62
SH8-23	23	3.019	3.269	1.970	0.875	£47.46	£42.87
SH8-24	24	3.150	3.400	1.970	0.875	£48.84	£43.97
SH8-25	25	3.281	3.531	1.970	0.875	£50.33	£45.02
SH8-26	26	3.413	3.663	1.970	0.875	£51.77	£46.26
SH8-27	27	3.544	3.794	1.970	0.875	£53.38	£47.35
SH8-28	28	3.675	3.925	1.970	0.875	£54.61	£48.55
SH8-29	29	3.806	4.056	1.970	0.875	£56.15	£49.80
SH8-30	30	3.938	4.188	1.970	0.875	£57.59	£50.99
SH8-31	31	4.069	4.319	1.970	0.875	£59.75	£53.19

Helical Gears Parallel Axis Steel DP 8

24.78



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH8-32	32	4.200	4.450	2.375	0.875	£62.07	£55.82
SH8-33	33	4.331	4.581	2.375	0.875	£64.29	£58.29
SH8-34	34	4.463	4.713	2.375	0.875	£66.63	£60.72
SH8-35	35	4.594	4.844	2.375	0.875	£69.42	£60.80
SH8-36	36	4.725	4.975	2.375	0.875	£71.60	£60.88
SH8-37	37	4.856	5.106	2.375	0.875	£81.20	£68.97
SH8-38	38	4.988	5.238	2.375	0.875	£87.34	£74.26
SH8-39	39	5.119	5.369	2.375	0.875	£95.95	£81.58
SH8-40	40	5.250	5.500	2.375	0.875	£104.07	£88.39
SH8-41	41	5.381	5.631	2.375	0.875	£109.56	£93.15
SH8-42	42	5.513	5.763	2.375	0.875	£114.56	£98.51
SH8-43	43	5.644	5.894	2.375	0.875	£121.22	£103.06
SH8-44	44	5.775	6.025	2.375	0.875	£124.25	£105.63
SH8-45	45	5.906	6.156	2.375	0.875	£126.95	£107.89
SH8-46	46	6.038	6.288	2.375	0.875	£129.30	£109.88
SH8-47	47	6.169	6.419	2.375	0.875	£136.16	£115.73
SH8-48	48	6.300	6.550	2.375	0.875	£139.29	£118.39
SH8-49	49	6.431	6.681	2.375	0.875	£146.29	£124.30
SH8-50	50	6.563	6.813	2.375	0.875	£149.65	£127.22
SH8-51	51	6.694	6.944	2.375	0.875	£153.42	£130.39
SH8-52	52	6.825	7.075	2.375	0.875	£158.87	£135.07
SH8-53	53	6.956	7.206	2.375	0.875	£161.41	£137.20
SH8-54	54	7.088	7.338	2.375	0.875	£165.41	£140.59
SH8-55	55	7.219	7.469	2.375	0.875	£168.68	£143.32
SH8-56	56	7.350	7.600	2.375	0.875	£171.41	£145.76
SH8-57	57	7.481	7.731	2.375	0.875	£177.85	£151.18
SH8-58	58	7.613	7.863	2.375	0.875	£181.91	£156.15
SH8-59	59	7.744	7.994	2.375	0.875	£183.73	£157.21
SH8-60	60	7.875	8.125	2.375	0.875	£189.46	£161.08
SH8-61	61	8.006	8.256	2.375	0.875	£194.34	£165.24
SH8-62	62	8.138	8.388	2.375	0.875	£201.19	£171.00
SH8-63	63	8.269	8.519	2.375	0.875	£205.21	£174.41
SH8-64	64	8.400	8.650	2.375	0.875	£209.52	£178.09
SH8-65	65	8.531	8.781	2.375	0.875	£237.39	£201.80
SH8-68	68	8.925	9.175	2.375	0.875	£263.93	£224.32
SH8-70	70	9.188	9.438	2.375	0.875	£266.04	£226.15
SH8-72	72	9.450	9.700	2.375	0.875	£280.20	£238.17
SH8-75	75	9.844	10.094	2.375	0.875	£294.47	£250.31
SH8-76	76	9.975	10.225	2.375	0.875	£310.78	£264.14
SH8-78	78	10.238	10.488	2.375	0.875	£325.66	£276.83
SH8-80	80	10.500	10.750	2.375	0.875	£351.92	£299.12
SH8-82	82	10.763	11.013	2.375	0.875	£373.69	£317.57
SH8-84	84	11.025	11.275	2.375	0.875	£387.57	£329.43
SH8-86	86	11.288	11.538	2.375	0.875	£399.66	£339.66
SH8-88	88	11.550	11.800	2.375	0.875	£425.77	£361.89
SH8-90	90	11.813	12.063	2.375	1.000	£442.85	£376.42
Up to Ø750 mm							

Helical Gears Parallel Axis Steel Dp 8

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Plastic - Parallel Axis

STD : White Delrin
(fully machined)

8 DP

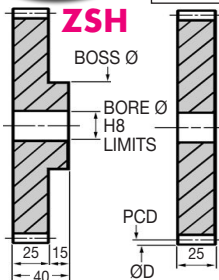
17°45' H.A.
20° P.A.

SPECIALS : up to Ø750 mm



SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 20.00



DISCOUNTS

	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

RH 17°45'



LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH8-9	9	1.313	1.563	1.417	12	£16.64	£12.76
ZSH8-10	10	1.313	1.563	1.417	12	£16.65	£12.77
ZSH8-11	11	1.444	1.694	1.417	12	£16.68	£12.78
ZSH8-12	12	1.575	1.825	1.417	15	£16.94	£13.02
ZSH8-13	13	1.706	1.956	1.417	15	£20.00	£15.38
ZSH8-14	14	1.838	2.088	1.417	15	£24.98	£19.16
ZSH8-15	15	1.969	2.219	1.574	15	£25.68	£19.69
ZSH8-16	16	2.100	2.350	1.574	15	£27.30	£20.91
ZSH8-17	17	2.231	2.481	1.574	15	£32.61	£25.03
ZSH8-18	18	2.363	2.613	1.574	15	£34.51	£26.44
ZSH8-19	19	2.494	2.744	1.574	15	£35.72	£27.40
ZSH8-20	20	2.625	2.875	1.574	15	£36.93	£28.24
ZSH8-21	21	2.756	3.006	1.574	15	£40.48	£31.11
ZSH8-22	22	2.888	3.138	1.574	15	£42.07	£32.27
ZSH8-23	23	3.019	3.269	1.574	15	£43.06	£33.07
ZSH8-24	24	3.150	3.400	1.574	15	£44.31	£34.02
ZSH8-25	25	3.281	3.531	1.574	15	£45.71	£35.02
ZSH8-26	26	3.413	3.663	1.968	20	£52.23	£40.04
ZSH8-27	27	3.544	3.794	1.968	20	£53.84	£41.30
ZSH8-28	28	3.675	3.925	1.968	20	£55.11	£42.25
ZSH8-29	29	3.806	4.056	1.968	20	£62.32	£47.81
ZSH8-30	30	3.938	4.188	1.968	20	£63.95	£49.00
ZSH8-31	31	4.069	4.319	1.968	20	£66.32	£50.87

Helical Gears Parallel Axis Plastic DP 8

24.80



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH8-32	32	4.200	4.450	1.968	20	£68.90	£52.85
ZSH8-33	33	4.331	4.581	1.968	20	£71.37	£54.78
ZSH8-34	34	4.463	4.713	1.968	20	£73.96	£56.72
ZSH8-35	35	4.594	4.844	1.968	20	£84.13	£64.52
ZSH8-36	36	4.725	4.975	1.968	20	£86.77	£66.48
ZSH8-37	37	4.856	5.106	1.968	20	£98.36	£75.43
ZSH8-38	38	4.988	5.238	1.968	20	£105.81	£81.03
ZSH8-39	39	5.119	5.369	1.968	20	£116.22	£89.20
ZSH8-40	40	5.250	5.500	1.968	20	£126.01	£96.67
ZSH8-41	41	5.381	5.631	1.968	20	£143.70	£110.26
ZSH8-42	42	5.513	5.763	2.362	20	£147.01	£114.27
ZSH8-43	43	5.644	5.894	2.362	20	£159.06	£122.03
ZSH8-44	44	5.775	6.025	2.362	20	£188.29	£125.03
ZSH8-45	45	5.906	6.156	2.362	20	£191.80	£127.77
ZSH8-46	46	6.038	6.288	2.362	20	£205.21	£130.12
ZSH8-47	47	6.169	6.419	2.362	20	£206.09	£158.13
ZSH8-48	48	6.300	6.550	2.362	20	£210.94	£161.83
ZSH8-49	49	6.431	6.681	2.362	20	£221.52	£169.96
ZSH8-50	50	6.563	6.813	2.362	20	£226.54	£173.81
ZSH8-51	51	6.694	6.944	2.362	20	£232.21	£178.21
ZSH8-52	52	6.825	7.075	2.362	20	£240.51	£184.57
ZSH8-53	53	6.956	7.206	2.362	20	£244.35	£187.42
ZSH8-54	54	7.088	7.338	2.755	20	£250.40	£192.16
ZSH8-55	55	7.219	7.469	2.755	20	£255.31	£195.90
ZSH8-56	56	7.350	7.600	2.755	20	£259.60	£199.10
ZSH8-57	57	7.481	7.731	2.755	20	£269.20	£206.58
ZSH8-58	58	7.613	7.863	2.755	20	£278.12	£213.40
ZSH8-59	59	7.744	7.994	2.755	20	£307.93	£236.43
ZSH8-60	60	7.875	8.125	2.755	20	£315.55	£242.10

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

6 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	321.30	1271.09	160.65	114.75
	K.W.	33.67	133.21	16.83	12.02

RH 17°45'

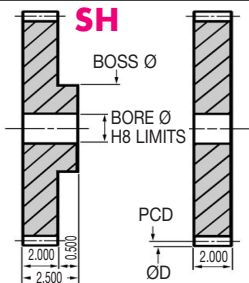


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



PSH

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH6-9	9	1.750	2.083	1.625	0.750	£41.97	£36.97
SH6-10	10	1.750	2.083	1.625	0.750	£42.02	£36.98
SH6-11	11	1.925	2.258	1.625	0.750	£42.02	£37.00
SH6-12	12	2.100	2.433	1.625	0.750	£42.04	£37.02
SH6-13	13	2.275	2.608	1.625	0.750	£44.29	£39.95
SH6-14	14	2.450	2.783	1.625	0.750	£48.53	£42.56
SH6-15	15	2.625	2.958	1.625	1.000	£55.09	£47.81
SH6-16	16	2.800	3.133	1.625	1.000	£64.53	£51.20
SH6-17	17	2.975	3.308	2.000	1.000	£70.61	£59.99
SH6-18	18	3.150	3.483	2.000	1.000	£74.41	£63.26
SH6-19	19	3.325	3.658	2.000	1.000	£77.56	£65.92
SH6-20	20	3.500	3.833	2.000	1.000	£79.48	£67.49
SH6-21	21	3.675	4.008	2.000	1.000	£84.49	£71.74
SH6-22	22	3.850	4.183	2.000	1.000	£90.64	£77.02
SH6-23	23	4.025	4.358	2.000	1.000	£95.40	£81.10
SH6-24	24	4.200	4.533	2.000	1.000	£101.53	£86.26
SH6-25	25	4.375	4.708	2.000	1.000	£103.98	£88.37
SH6-26	26	4.550	4.883	2.000	1.000	£106.13	£90.15
SH6-27	27	4.725	5.058	2.500	1.250	£111.69	£94.95
SH6-28	28	4.900	5.233	2.500	1.250	£115.09	£97.82
SH6-29	29	5.075	5.408	2.500	1.250	£118.34	£100.56
SH6-30	30	5.250	5.583	2.500	1.250	£125.39	£106.53
SH6-31	31	5.425	5.758	2.500	1.250	£138.84	£117.95

Helical Gears Parallel Axis Steel DP 6

24.82



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH6-32	32	5.600	5.933	2.500	1.250	£145.81	£123.94
SH6-33	33	5.775	6.108	2.500	1.250	£152.57	£129.67
SH6-34	34	5.950	6.283	2.500	1.250	£156.01	£132.56
SH6-35	35	6.125	6.458	2.500	1.250	£159.16	£135.30
SH6-36	36	6.300	6.633	2.500	1.250	£161.81	£138.03
SH6-37	37	6.475	6.808	2.500	1.250	£168.47	£143.16
SH6-38	38	6.650	6.983	2.500	1.250	£174.98	£148.71
SH6-39	39	6.825	7.158	2.500	1.250	£194.31	£165.11
SH6-40	40	7.000	7.333	2.500	1.250	£201.10	£170.95
SH6-41	41	7.175	7.508	2.500	1.250	£203.10	£172.64
SH6-42	42	7.350	7.683	2.500	1.250	£207.50	£176.41
SH6-43	43	7.525	7.858	2.500	1.250	£222.70	£186.73
SH6-44	44	7.700	8.033	2.500	1.250	£226.38	£192.39
SH6-45	45	7.875	8.208	2.500	1.250	£233.97	£198.86
SH6-46	46	8.050	8.383	2.500	1.250	£243.99	£207.37
SH6-47	47	8.225	8.558	2.500	1.250	£258.68	£219.82
SH6-48	48	8.400	8.733	2.500	1.250	£268.77	£224.97
SH6-49	49	8.575	8.908	2.500	1.250	£269.43	£229.03
SH6-50	50	8.750	9.083	2.500	1.250	£278.75	£236.92
SH6-51	51	8.925	9.258	2.500	1.250	£303.84	£258.26
SH6-52	52	9.100	9.433	2.500	1.250	£311.84	£265.11
SH6-53	53	9.275	9.608	2.500	1.250	£317.21	£269.61
SH6-54	54	9.450	9.783	2.500	1.250	£323.88	£275.31
SH6-55	55	9.625	9.958	2.500	1.250	£330.38	£280.86
SH6-56	56	9.800	10.133	2.500	1.250	£336.95	£286.37
SH6-57	57	9.975	10.308	2.500	1.250	£343.95	£292.35
SH6-58	58	10.150	10.483	2.500	1.250	£347.92	£295.74
SH6-59	59	10.325	10.658	2.500	1.250	£360.78	£306.66
SH6-60	60	10.500	10.833	2.500	1.250	£369.03	£313.62
SH6-61	61	10.675	11.008	2.500	1.250	£439.77	£373.81
SH6-62	62	10.850	11.183	2.500	1.250	£443.45	£376.97
SH6-63	63	11.025	11.358	2.500	1.250	£450.91	£383.22
SH6-64	64	11.200	11.533	2.500	1.250	£459.58	£390.62
SH6-65	65	11.375	11.708	2.500	1.250	£477.48	£405.88
SH6-66	66	11.550	11.883	2.500	1.250	£492.62	£418.75
SH6-67	67	11.725	12.058	2.500	1.250	£508.93	£432.50

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



TECHNICAL REQUEST

Non-Standard Helical Gears

photocopy double

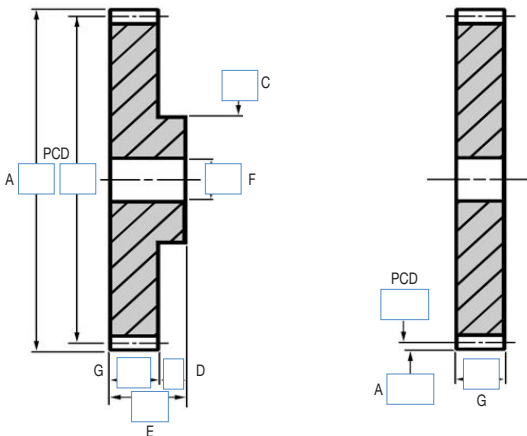
size and fax on

+44 (0)1246 260003

QUANTITY	_____	FACE WIDTH (G)	_____
MATERIAL	_____	FIXING SCREW (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
NUMBER OF TEETH	_____	FIXING SCREW LOCATION	_____
PITCH CIRCLE DIAMETER (PCD)	_____	KEYWAY (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
OUTSIDE DIAMETER (A)	_____	HELIX ANGLE	_____
PITCH MOD OR DP	_____	HARDENED (✓)	YES <input type="checkbox"/> NO <input type="checkbox"/>
BOSS DIAMETER (C)	_____	LEFT HAND (✓) <input type="checkbox"/> or RIGHT HAND (✓) <input type="checkbox"/>	
BOSS WIDTH (D)	_____	CENTRE DISTANCE	_____
OVERALL WIDTH (E)	_____	PARALLEL (✓) <input type="checkbox"/> or CROSSED (✓) <input type="checkbox"/>	
BORE DIAMETER (F)	_____		

Note: In case MOD, DP or Helix Angle are not known, the samples will be required.

SPECIAL FEATURES



Crossed Axis Helical Gears

Pages 25.2-25.79

TECHNICAL

Pages 27.49 – 27.53



For non-standard Parallel and Crossed Helicals use form on opposite page or send a drawing or sample for a free, no-obligation quote.

Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin

0.4 MOD

20° P.A.

SPECIAL TEETH : between 10-250

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	0.056	0.375	0.029	0.020
	K.W.	0.006	0.039	0.003	0.002

Helical Gears Crossed Axis Steel MOD 0.4



RH 45°

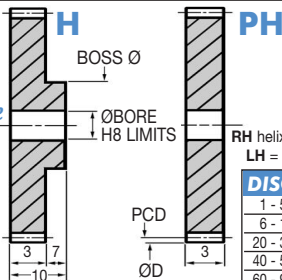


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H0.4-10	10	5.66	6.46	6.46	2	0.0006	0.0005	£9.61	£8.91
H0.4-11	11	6.22	7.02	7.02	2	0.0007	0.0006	£9.62	£8.93
H0.4-12	12	6.79	7.59	7.59	2	0.0008	0.0008	£9.65	£9.03
H0.4-13	13	7.35	8.15	8.15	2	0.0010	0.0009	£9.67	£9.09
H0.4-14	14	7.92	8.72	8.42	2	0.0011	0.0011	£9.68	£9.26
H0.4-15	15	8.49	9.29	9.29	2	0.0013	0.0012	£9.70	£9.31
H0.4-16	16	9.05	9.85	9.85	2	0.0015	0.0014	£9.72	£9.37
H0.4-17	17	9.62	10.42	10.42	2	0.0017	0.0016	£9.82	£9.47
H0.4-18	18	10.18	10.98	8.00	3	0.0019	0.0017	£9.83	£9.49
H0.4-19	19	10.75	11.55	8.00	3	0.0021	0.0019	£9.84	£9.55
H0.4-20	20	11.31	12.11	8.00	3	0.0023	0.0021	£9.94	£9.57
H0.4-21	21	11.88	12.68	8.00	3	0.0025	0.0024	£9.96	£9.60
H0.4-22	22	12.45	13.25	8.00	3	0.0028	0.0026	£10.01	£9.61
H0.4-23	23	13.01	13.81	8.00	3	0.0031	0.0029	£10.02	£9.62
H0.4-24	24	13.58	14.38	8.00	3	0.0033	0.0032	£10.09	£9.65
H0.4-25	25	14.14	14.94	8.00	3	0.0036	0.0034	£10.19	£9.67
H0.4-26	26	14.71	15.51	8.00	3	0.0039	0.0037	£10.22	£9.68
H0.4-27	27	15.27	16.07	8.00	3	0.0042	0.0040	£10.32	£9.70
H0.4-28	28	15.84	16.64	8.00	3	0.0045	0.0044	£10.42	£9.72
H0.4-29	29	16.40	17.20	8.00	3	0.0048	0.0047	£10.46	£9.74
H0.4-30	30	16.97	17.77	12.00	3	0.0052	0.0050	£10.65	£9.76
H0.4-31	31	17.54	18.34	12.00	3	0.0055	0.0054	£10.72	£9.77
H0.4-32	32	18.10	18.90	12.00	3	0.0059	0.0057	£10.80	£9.82



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
HO.4-33	33	18.67	19.47	12	3	0.0063	0.0061	£10.87	£9.82
HO.4-34	34	19.23	20.03	12	3	0.0067	0.0065	£10.99	£9.83
HO.4-35	35	19.80	20.60	12	3	0.0071	0.0069	£11.15	£9.84
HO.4-36	36	20.36	21.16	12	3	0.0075	0.0073	£11.20	£9.93
HO.4-37	37	20.93	21.73	12	3	0.0079	0.0077	£11.30	£9.96
HO.4-38	38	21.50	22.30	12	3	0.0083	0.0082	£11.35	£10.01
HO.4-39	39	22.06	22.86	12	3	0.0088	0.0086	£11.50	£10.09
HO.4-40	40	22.63	23.43	12	4	0.0092	0.0089	£11.65	£10.22
HO.4-41	41	23.19	23.99	12	4	0.0097	0.0094	£11.73	£10.24
HO.4-42	42	23.76	24.56	12	4	0.0102	0.0099	£11.91	£10.28
HO.4-43	43	24.32	25.12	12	4	0.0107	0.0104	£12.06	£10.32
HO.4-44	44	24.89	25.69	12	4	0.0112	0.0109	£12.23	£10.43
HO.4-45	45	25.46	26.26	12	4	0.0117	0.0114	£12.34	£10.57
HO.4-46	46	26.02	26.82	12	4	0.0122	0.0119	£12.62	£10.70
HO.4-47	47	26.59	27.39	12	4	0.0127	0.0125	£12.64	£10.73
HO.4-48	48	27.15	27.95	12	4	0.0133	0.0130	£12.65	£10.75
HO.4-49	49	27.72	28.52	12	4	0.0139	0.0136	£12.69	£10.79
HO.4-50	50	28.28	29.08	12	4	0.0144	0.0141	£12.77	£10.81
HO.4-51	51	28.85	29.65	12	4	0.0150	0.0147	£12.79	£10.82
HO.4-52	52	29.42	30.22	12	4	0.0156	0.0153	£12.83	£10.94
HO.4-53	53	29.98	30.78	12	4	0.0162	0.0159	£12.84	£10.97
HO.4-54	54	30.55	31.35	12	4	0.0168	0.0165	£12.93	£11.06
HO.4-55	55	31.11	31.91	12	4	0.0175	0.0172	£12.94	£11.20
HO.4-56	56	31.68	32.48	12	4	0.0181	0.0178	£12.95	£11.30
HO.4-57	57	32.24	33.04	12	4	0.0187	0.0185	£13.05	£11.53
HO.4-58	58	32.81	33.61	12	4	0.0194	0.0191	£13.09	£11.81
HO.4-59	59	33.38	34.18	12	4	0.0201	0.0198	£13.09	£12.22
HO.4-60	60	33.94	34.74	12	4	0.0208	0.0205	£13.27	£12.34
HO.4-61	61	34.51	35.31	12	4	0.0215	0.0212	£13.46	£12.56
HO.4-62	62	35.07	35.87	12	4	0.0222	0.0219	£13.46	£12.69
HO.4-63	63	35.64	36.44	12	4	0.0229	0.0226	£13.68	£12.77
HO.4-64	64	36.20	37.00	12	4	0.0236	0.0233	£13.94	£13.37
HO.4-65	65	36.77	37.57	12	4	0.0244	0.0241	£13.95	£13.70
HO.4-68	68	38.47	39.27	12	4	0.0267	0.0264	£14.13	£14.05
HO.4-70	70	39.60	40.40	12	4	0.0283	0.0280	£14.15	£14.46
HO.4-72	72	40.73	41.53	12	4	0.0299	0.0296	£14.36	£14.73
HO.4-75	75	42.43	43.23	12	4	0.0325	0.0322	£14.61	£15.12
HO.4-77	77	43.56	44.36	12	4	0.0342	0.0339	£14.73	£15.14
HO.4-80	80	45.25	46.05	12	5	0.0369	0.0365	£15.14	£15.23
HO.4-84	84	47.52	48.32	12	5	0.0407	0.0403	£15.41	£15.39
HO.4-86	86	48.65	49.45	12	5	0.0427	0.0422	£15.83	£15.57
HO.4-88	88	49.78	50.58	12	5	0.0447	0.0442	£16.94	£15.82
HO.4-90	90	50.91	51.71	12	5	0.0467	0.0463	£17.89	£16.19
HO.4-96	96	54.31	55.11	12	5	0.0532	0.0527	£18.71	£16.38
HO.4-100	100	56.57	57.37	12	5	0.0577	0.0572	£19.50	£17.62
HO.4-120	120	67.88	68.68	12	5	0.0831	0.0826	£23.31	£20.73

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

0.5 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEETH : between 10-250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.127	0.705	0.054	0.038
	K.W.	0.011	0.074	0.006	0.0037



RH 45°

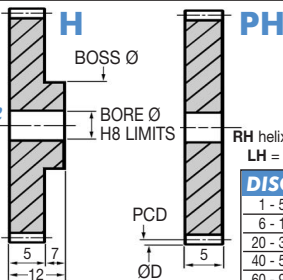


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H0.5-10	10	7.07	8.07	8.07	3	0.0036	0.0012	£10.54	£8.83
H0.5-11	11	7.78	8.78	8.50	3	0.0042	0.0015	£10.72	£9.18
H0.5-12	12	8.49	9.49	8.50	3	0.0046	0.0019	£10.79	£9.32
H0.5-13	13	9.19	10.19	8.50	4	0.0044	0.0021	£10.99	£9.55
H0.5-14	14	9.90	10.90	8.50	4	0.0048	0.0025	£11.20	£9.61
H0.5-15	15	10.61	11.61	8.50	4	0.0053	0.0029	£11.47	£9.72
H0.5-16	16	11.31	12.31	8.50	5	0.0051	0.0031	£11.59	£9.82
H0.5-17	17	12.02	13.02	10.00	5	0.0067	0.0036	£11.85	£9.84
H0.5-18	18	12.73	13.73	10.00	5	0.0073	0.0041	£12.04	£9.97
H0.5-19	19	13.44	14.44	10.00	5	0.0078	0.0047	£12.15	£10.02
H0.5-20	20	14.14	15.14	10.00	5	0.0084	0.0053	£12.34	£10.22
H0.5-21	21	14.85	15.85	10.00	5	0.0090	0.0059	£12.40	£10.24
H0.5-22	22	15.56	16.56	10.00	5	0.0097	0.0065	£12.69	£10.30
H0.5-23	23	16.26	17.26	10.00	5	0.0103	0.0072	£12.83	£10.42
H0.5-24	24	16.97	17.97	10.00	5	0.0111	0.0079	£13.00	£10.47
H0.5-25	25	17.68	18.68	10.00	5	0.0118	0.0086	£13.27	£10.65
H0.5-26	26	18.38	19.38	10.00	5	0.0126	0.0094	£13.40	£10.80
H0.5-27	27	19.09	20.09	10.00	5	0.0134	0.0102	£13.68	£10.95
H0.5-28	28	19.80	20.80	10.00	5	0.0142	0.0110	£13.82	£11.28
H0.5-29	29	20.51	21.51	10.00	5	0.0150	0.0119	£14.08	£11.35
H0.5-30	30	21.21	22.21	10.00	5	0.0159	0.0128	£14.25	£11.66
H0.5-31	31	21.92	22.92	10.00	5	0.0168	0.0137	£14.36	£11.81
H0.5-32	32	22.63	23.63	10.00	5	0.0178	0.0146	£14.67	£12.09

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H0.5-33	33	23.33	24.33	10	5	0.0188	0.0156	£14.77	£12.15
H0.5-34	34	24.04	25.04	10	5	0.0198	0.0166	£15.07	£12.22
H0.5-35	35	24.75	25.75	10	5	0.0208	0.0177	£15.23	£12.40
H0.5-36	36	25.46	26.46	10	5	0.0219	0.0187	£15.38	£12.51
H0.5-37	37	26.16	27.16	10	5	0.0230	0.0198	£15.55	£12.75
H0.5-38	38	26.87	27.87	10	5	0.0241	0.0209	£15.65	£12.83
H0.5-39	39	27.58	28.58	10	5	0.0253	0.0221	£15.87	£13.03
H0.5-40	40	28.28	29.28	10	5	0.0264	0.0233	£15.95	£13.14
H0.5-41	41	28.99	29.99	10	5	0.0277	0.0245	£16.12	£13.27
H0.5-42	42	29.70	30.70	10	5	0.0289	0.0258	£16.35	£13.37
H0.5-43	43	30.41	31.41	10	5	0.0302	0.0270	£16.38	£13.59
H0.5-44	44	31.11	32.11	10	5	0.0315	0.0283	£16.60	£13.68
H0.5-45	45	31.82	32.82	10	5	0.0328	0.0297	£16.72	£13.93
H0.5-46	46	32.53	33.53	10	5	0.0342	0.0310	£16.93	£13.98
H0.5-47	47	33.23	34.23	10	5	0.0356	0.0324	£16.94	£14.02
H0.5-48	48	33.94	34.94	10	5	0.0370	0.0339	£16.95	£14.05
H0.5-49	49	34.65	35.65	10	5	0.0385	0.0353	£17.13	£14.13
H0.5-50	50	35.36	36.36	12	6	0.0410	0.0365	£17.29	£14.15
H0.5-51	51	36.06	37.06	12	6	0.0425	0.0380	£17.38	£14.20
H0.5-52	52	36.77	37.77	12	6	0.0441	0.0395	£17.43	£14.47
H0.5-53	53	37.48	38.48	12	6	0.0457	0.0411	£17.44	£14.50
H0.5-54	54	38.18	39.18	12	6	0.0473	0.0427	£17.65	£14.77
H0.5-55	55	38.89	39.89	12	6	0.0489	0.0444	£17.77	£15.06
H0.5-56	56	39.60	40.60	12	6	0.0506	0.0460	£17.81	£15.07
H0.5-57	57	40.31	41.31	12	6	0.0523	0.0477	£17.90	£15.42
H0.5-58	58	41.01	42.01	12	6	0.0540	0.0495	£17.94	£15.45
H0.5-59	59	41.72	42.72	12	6	0.0558	0.0512	£17.98	£15.47
H0.5-60	60	42.43	43.43	12	6	0.0576	0.0530	£18.17	£15.55
H0.5-61	61	43.13	44.13	12	6	0.0594	0.0548	£18.29	£15.57
H0.5-62	62	43.84	44.84	12	6	0.0612	0.0567	£18.30	£15.76
H0.5-63	63	44.55	45.55	12	6	0.0631	0.0586	£18.50	£15.90
H0.5-64	64	45.25	46.25	12	6	0.0650	0.0604	£18.68	£16.48
H0.5-65	65	45.96	46.96	12	6	0.0669	0.0624	£18.69	£16.49
H0.5-68	68	48.08	49.08	12	6	0.0729	0.0684	£18.76	£17.73
H0.5-70	70	49.50	50.50	12	6	0.0771	0.0725	£18.77	£17.76
H0.5-72	72	50.91	51.91	12	6	0.0813	0.0768	£22.68	£20.34
H0.5-75	75	53.03	54.03	12	6	0.0880	0.0834	£22.69	£20.35
H0.5-77	77	54.45	55.45	12	6	0.0926	0.0880	£22.71	£20.36
H0.5-80	80	56.57	57.57	12	6	0.0996	0.0951	£22.73	£20.37
H0.5-84	84	59.40	60.40	12	6	0.1095	0.1049	£22.74	£20.42
H0.5-86	86	60.81	61.81	12	6	0.1146	0.1100	£27.09	£21.60
H0.5-88	88	62.23	63.23	12	6	0.1198	0.1153	£27.13	£21.61
H0.5-90	90	63.64	64.64	12	6	0.1252	0.1206	£27.16	£21.62
H0.5-96	96	67.88	68.88	16	6	0.1466	0.1374	£27.18	£21.65
H0.5-100	100	70.71	71.71	16	6	0.1584	0.1492	£30.03	£23.88
H0.5-120	120	84.85	85.85	20	8	0.2245	0.2153	£33.41	£27.60
H0.5-140	140	98.99	99.99	20	8	0.3026	0.2934	£36.49	£31.99
H0.5-150	150	106.07	107.07	20	10	0.3463	0.3370	£39.79	£34.60
H0.5-180	180	127.28	128.28	20	10	0.4948	0.4856	£44.64	£38.08

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

0.5 MOD

45° H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 10 - 120



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.03



RH 45°

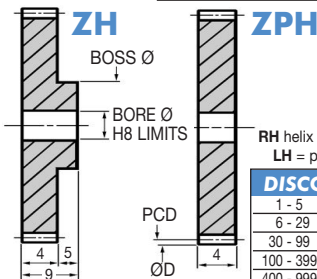


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH0.5-10	10	7.07	8.07	8.07	2	0.0007	0.0003	£5.48	£4.01
ZH0.5-11	11	7.78	8.78	8.78	2	0.0008	0.0003	£5.49	£4.08
ZH0.5-12	12	8.49	9.49	9.49	2	0.0009	0.0004	£5.50	£4.20
ZH0.5-13	13	9.19	10.19	10.00	3	0.0010	0.0005	£5.52	£4.21
ZH0.5-14	14	9.90	10.90	10.00	3	0.0011	0.0005	£5.58	£4.28
ZH0.5-15	15	10.61	11.61	10.00	3	0.0012	0.0006	£5.73	£4.35
ZH0.5-16	16	11.31	12.31	10.00	3	0.0013	0.0007	£5.81	£4.44
ZH0.5-17	17	12.02	13.02	10.00	3	0.0014	0.0008	£5.90	£4.51
ZH0.5-18	18	12.73	13.73	10.00	3	0.0015	0.0009	£6.04	£4.59
ZH0.5-19	19	13.44	14.44	10.00	3	0.0016	0.0010	£6.06	£4.62
ZH0.5-20	20	14.14	15.14	10.00	3	0.0017	0.0012	£6.15	£4.73
ZH0.5-21	21	14.85	15.85	10.00	3	0.0018	0.0013	£6.20	£4.75
ZH0.5-22	22	15.56	16.56	14.00	4	0.0025	0.0014	£6.38	£4.83
ZH0.5-23	23	16.26	17.26	14.00	4	0.0026	0.0015	£6.39	£4.85
ZH0.5-24	24	16.97	17.97	14.00	4	0.0027	0.0016	£6.51	£4.97
ZH0.5-25	25	17.68	18.68	14.00	4	0.0029	0.0018	£6.65	£5.06
ZH0.5-26	26	18.38	19.38	14.00	4	0.0030	0.0020	£6.72	£5.09
ZH0.5-27	27	19.09	20.09	14.00	4	0.0032	0.0021	£6.87	£5.25
ZH0.5-28	28	19.80	20.80	14.00	4	0.0034	0.0023	£6.95	£5.30
ZH0.5-29	29	20.51	21.51	14.00	4	0.0035	0.0025	£7.04	£5.33
ZH0.5-30	30	21.21	22.21	14.00	4	0.0037	0.0026	£7.09	£5.48
ZH0.5-31	31	21.92	22.92	14.00	4	0.0039	0.0028	£7.27	£5.52
ZH0.5-32	32	22.63	23.63	14.00	4	0.0041	0.0030	£7.36	£5.58

Helical Gears Crossed Axis Plastic MOD 0.5

25.6



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH0.5-33	33	23.33	24.33	14	4	0.0043	0.0032	£7.40	£5.67
ZH0.5-34	34	24.04	25.04	14	4	0.0045	0.0034	£7.63	£5.79
ZH0.5-35	35	24.75	25.75	14	4	0.0047	0.0036	£7.64	£5.82
ZH0.5-36	36	25.46	26.46	14	4	0.0049	0.0038	£7.72	£5.83
ZH0.5-37	37	26.16	27.16	14	4	0.0051	0.0041	£7.75	£5.95
ZH0.5-38	38	26.87	27.87	14	4	0.0054	0.0043	£7.82	£6.03
ZH0.5-39	39	27.58	28.58	14	4	0.0056	0.0045	£7.94	£6.06
ZH0.5-40	40	28.28	29.28	14	4	0.0058	0.0047	£7.99	£6.50
ZH0.5-41	41	28.99	29.99	14	4	0.0061	0.0050	£8.91	£6.75
ZH0.5-42	42	29.70	30.70	14	4	0.0063	0.0052	£9.03	£6.87
ZH0.5-43	43	30.41	31.41	14	4	0.0066	0.0055	£9.04	£6.95
ZH0.5-44	44	31.11	32.11	14	4	0.0069	0.0058	£9.18	£7.02
ZH0.5-45	45	31.82	32.82	14	4	0.0071	0.0060	£9.26	£7.04
ZH0.5-46	46	32.53	33.53	14	4	0.0074	0.0063	£9.30	£7.10
ZH0.5-47	47	33.23	34.23	14	4	0.0077	0.0066	£9.31	£7.12
ZH0.5-48	48	33.94	34.94	14	4	0.0080	0.0069	£9.32	£7.14
ZH0.5-49	49	34.65	35.65	14	4	0.0083	0.0072	£9.47	£7.27
ZH0.5-50	50	35.36	36.36	16	5	0.0088	0.0074	£9.55	£7.36
ZH0.5-51	51	36.06	37.06	16	5	0.0091	0.0077	£9.61	£7.37
ZH0.5-52	52	36.77	37.77	16	5	0.0094	0.0080	£9.62	£7.38
ZH0.5-53	53	37.48	38.48	16	5	0.0098	0.0084	£9.65	£7.39
ZH0.5-54	54	38.18	39.18	16	5	0.0101	0.0087	£9.76	£7.45
ZH0.5-55	55	38.89	39.89	16	5	0.0104	0.0090	£11.12	£8.54
ZH0.5-56	56	39.60	40.60	16	5	0.0108	0.0094	£11.15	£8.59
ZH0.5-57	57	40.31	41.31	16	5	0.0111	0.0097	£11.21	£8.60
ZH0.5-58	58	41.01	42.01	16	5	0.0114	0.0100	£11.25	£8.62
ZH0.5-59	59	41.72	42.72	16	5	0.0118	0.0104	£11.28	£8.63
ZH0.5-60	60	42.43	43.43	16	5	0.0122	0.0108	£11.47	£8.73
ZH0.5-61	61	43.13	44.13	16	5	0.0125	0.0111	£11.50	£8.78
ZH0.5-62	62	43.84	44.84	16	5	0.0129	0.0115	£11.51	£8.81
ZH0.5-63	63	44.55	45.55	16	5	0.0133	0.0119	£11.59	£8.91
ZH0.5-64	64	45.25	46.25	16	5	0.0137	0.0123	£11.70	£8.94
ZH0.5-65	65	45.96	46.96	16	5	0.0140	0.0126	£11.73	£8.96
ZH0.5-68	68	48.08	49.08	16	5	0.0153	0.0139	£14.20	£10.82
ZH0.5-70	70	49.50	50.50	16	5	0.0161	0.0147	£14.25	£10.87
ZH0.5-72	72	50.91	51.91	16	5	0.0170	0.0156	£17.13	£13.09
ZH0.5-75	75	53.03	54.03	16	5	0.0183	0.0169	£17.13	£13.09
ZH0.5-77	77	54.45	55.45	16	5	0.0192	0.0178	£17.15	£13.12
ZH0.5-80	80	56.57	57.57	16	5	0.0206	0.0192	£17.18	£13.13
ZH0.5-84	84	59.40	60.40	18	6	0.0230	0.0212	£19.42	£14.90
ZH0.5-86	86	60.81	61.81	18	6	0.0241	0.0223	£23.25	£17.81
ZH0.5-88	88	62.23	63.23	18	6	0.0251	0.0233	£23.26	£17.83
ZH0.5-90	90	63.64	64.64	18	6	0.0262	0.0244	£23.28	£17.87
ZH0.5-96	96	67.88	68.88	18	6	0.0296	0.0278	£23.30	£17.88
ZH0.5-100	100	70.71	71.71	18	6	0.0320	0.0301	£27.25	£20.90
ZH0.5-120	120	84.85	85.85	18	8	0.0453	0.0435	£30.34	£23.26

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10
 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
0.7 MOD 20° P.A. SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	0.272	1.791	0.136	0.097
	K.W.	0.028	0.188	0.014	0.0104

Helical Gears Crossed Axis Steel MOD 0.7



RH 45°

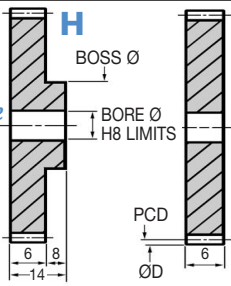


LH available on request.

RH 45°

RH runs with RH
 Popular sizes in stock.

Any two part numbers of this pitch will run together.



PH

RH helix is standard.
 LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H0.7-9	9	8.91	10.31	10.31	4	0.007	0.002	£11.70	£8.86
H0.7-10	10	9.90	11.30	11.30	4	0.008	0.003	£12.22	£8.87
H0.7-11	11	10.89	12.29	12.00	5	0.009	0.003	£12.51	£8.97
H0.7-12	12	11.88	13.28	12.00	5	0.010	0.004	£12.93	£9.03
H0.7-13	13	12.87	14.27	12.00	5	0.011	0.005	£13.31	£9.22
H0.7-14	14	13.86	15.26	12.00	5	0.012	0.006	£13.46	£9.38
H0.7-15	15	14.85	16.25	12.00	5	0.013	0.007	£13.75	£9.49
H0.7-16	16	15.84	17.24	12.00	5	0.014	0.008	£13.93	£9.51
H0.7-17	17	16.83	18.23	12.00	5	0.015	0.009	£14.15	£9.72
H0.7-18	18	17.82	19.22	12.00	5	0.016	0.011	£14.32	£9.96
H0.7-19	19	18.81	20.21	12.00	5	0.018	0.012	£14.44	£10.02
H0.7-20	20	19.80	21.20	12.00	5	0.019	0.013	£14.65	£10.19
H0.7-21	21	20.79	22.19	12.00	5	0.020	0.015	£14.72	£10.47
H0.7-22	22	21.78	23.18	12.00	5	0.022	0.016	£14.77	£10.94
H0.7-23	23	22.77	24.17	12.00	5	0.024	0.018	£14.82	£11.21
H0.7-24	24	23.76	25.16	12.00	5	0.025	0.019	£14.83	£11.35
H0.7-25	25	24.75	26.15	12.00	5	0.027	0.021	£14.95	£11.65
H0.7-26	26	25.74	27.14	12.00	5	0.029	0.023	£14.96	£11.81
H0.7-27	27	26.73	28.13	16.00	6	0.035	0.024	£15.02	£11.85
H0.7-28	28	27.72	29.12	16.00	6	0.037	0.026	£15.07	£12.22
H0.7-29	29	28.71	30.11	16.00	6	0.039	0.028	£15.14	£12.34
H0.7-30	30	29.70	31.10	16.00	6	0.041	0.031	£15.18	£12.50
H0.7-31	31	30.69	32.09	16.00	6	0.043	0.033	£15.19	£12.66

25.8



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
 Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
HO.7-32	32	31.68	33.08	16	6	0.045	0.035	£15.36	£12.84
HO.7-33	33	32.67	34.07	16	6	0.048	0.037	£15.38	£12.95
HO.7-34	34	33.66	35.06	16	6	0.050	0.040	£15.47	£13.02
HO.7-35	35	34.65	36.05	16	6	0.053	0.042	£15.55	£13.13
HO.7-36	36	35.64	37.04	16	6	0.055	0.045	£15.61	£13.59
HO.7-37	37	36.63	38.03	16	6	0.058	0.047	£15.77	£13.64
HO.7-38	38	37.62	39.02	16	6	0.060	0.050	£15.83	£13.93
HO.7-39	39	38.61	40.01	16	6	0.063	0.052	£15.95	£13.98
HO.7-40	40	39.60	41.00	16	6	0.066	0.055	£16.04	£14.15
HO.7-41	41	40.59	41.99	16	6	0.069	0.058	£16.13	£14.38
HO.7-42	42	41.58	42.98	16	6	0.072	0.061	£16.24	£14.61
HO.7-43	43	42.57	43.97	16	6	0.075	0.064	£16.29	£14.66
HO.7-44	44	43.56	44.96	16	6	0.078	0.067	£16.45	£14.67
HO.7-45	45	44.55	45.95	16	6	0.081	0.070	£16.49	£15.23
HO.7-46	46	45.54	46.94	16	6	0.084	0.073	£16.68	£16.27
HO.7-47	47	46.53	47.93	16	6	0.087	0.077	£16.70	£16.35
HO.7-48	48	47.52	48.92	16	6	0.091	0.080	£16.72	£16.48
HO.7-49	49	48.51	49.91	16	6	0.094	0.084	£16.94	£16.49
HO.7-50	50	49.50	50.90	16	6	0.098	0.087	£17.44	£16.60
HO.7-51	51	50.49	51.89	16	6	0.101	0.091	£17.48	£16.93
HO.7-52	52	51.48	52.88	16	6	0.105	0.094	£17.51	£16.94
HO.7-53	53	52.47	53.87	16	6	0.109	0.098	£17.51	£17.36
HO.7-54	54	53.46	54.86	16	6	0.112	0.102	£18.09	£17.37
HO.7-55	55	54.45	55.85	16	6	0.116	0.106	£18.10	£17.38
HO.7-56	56	55.44	56.84	16	6	0.120	0.110	£18.12	£17.43
HO.7-57	57	56.43	57.83	16	6	0.124	0.114	£18.40	£17.44
HO.7-58	58	57.42	58.82	16	6	0.128	0.118	£18.79	£17.98
HO.7-59	59	58.41	59.81	16	6	0.132	0.122	£19.25	£18.24
HO.7-60	60	59.40	60.80	16	6	0.137	0.126	£19.29	£18.25
HO.7-61	61	60.39	61.79	16	6	0.141	0.130	£19.44	£18.29
HO.7-62	62	61.38	62.78	16	6	0.145	0.135	£19.46	£18.30
HO.7-63	63	62.37	63.77	16	6	0.150	0.139	£20.11	£20.09
HO.7-64	64	63.36	64.76	16	6	0.154	0.143	£20.91	£21.65
HO.7-66	66	65.34	66.74	16	6	0.163	0.153	£20.92	£22.78
HO.7-68	68	67.32	68.72	16	6	0.173	0.162	£24.23	£24.22
HO.7-70	70	69.30	70.70	20	8	0.187	0.171	£24.24	£25.61
HO.7-75	75	74.25	75.65	20	8	0.213	0.196	£27.62	£25.62
HO.7-76	76	75.24	76.64	20	8	0.218	0.202	£27.63	£27.21
HO.7-80	80	79.20	80.60	20	8	0.240	0.224	£33.19	£29.52
HO.7-86	86	85.14	86.54	20	8	0.275	0.259	£34.02	£30.57
HO.7-88	88	87.12	88.52	20	8	0.288	0.271	£34.03	£31.68
HO.7-90	90	89.10	90.50	20	8	0.300	0.284	£34.72	£33.76
HO.7-96	96	95.04	96.44	20	8	0.340	0.323	£37.79	£34.51
HO.7-100	100	98.99	100.39	20	10	0.367	0.351	£40.99	£34.72
HO.7-112	112	110.87	112.27	20	10	0.457	0.441	£44.67	£37.34
HO.7-120	120	118.79	120.19	20	10	0.524	0.508	£47.24	£41.91
HO.7-127	127	125.72	127.12	30	12	0.584	0.568	£52.37	£42.25
HO.7-128	128	126.71	128.11	30	12	0.593	0.577	£52.46	£46.88
HO.7-140	140	138.59	139.99	30	12	0.706	0.690	£52.48	£48.91

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10
0.8 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
 20° P.A. SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.395	2.596	0.197	0.141
	K.W.	0.041	0.272	0.021	0.015

Helical Gears Crossed Axis Steel MOD 0.8



RH 45°

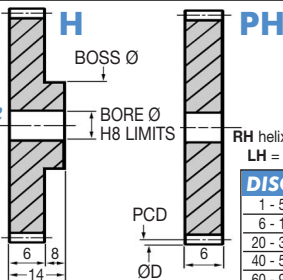


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H0.8-9	9	11.31	12.91	9	5	0.006	0.004	£11.70	£9.72
H0.8-10	10	11.31	12.91	9	5	0.006	0.004	£12.22	£9.94
H0.8-11	11	12.45	14.05	9	5	0.007	0.005	£12.51	£10.30
H0.8-12	12	13.58	15.18	11	5	0.010	0.006	£12.93	£10.32
H0.8-13	13	14.71	16.31	11	5	0.012	0.007	£13.31	£10.72
H0.8-14	14	15.84	17.44	11	5	0.013	0.008	£13.54	£10.82
H0.8-15	15	16.97	18.57	12	5	0.015	0.009	£13.75	£11.21
H0.8-16	16	18.10	19.70	12	5	0.017	0.011	£13.93	£11.35
H0.8-17	17	19.23	20.83	12	5	0.018	0.012	£14.15	£11.49
H0.8-18	18	20.36	21.96	12	5	0.020	0.014	£14.32	£11.81
H0.8-19	19	21.50	23.10	12	5	0.021	0.016	£14.44	£11.91
H0.8-20	20	22.63	24.23	12	5	0.023	0.018	£14.65	£12.22
H0.8-21	21	23.76	25.36	12	5	0.025	0.019	£14.72	£12.34
H0.8-22	22	24.89	26.49	12	5	0.027	0.021	£14.77	£12.50
H0.8-23	23	26.02	27.62	12	5	0.029	0.024	£14.82	£12.68
H0.8-24	24	27.15	28.75	16	6	0.036	0.025	£14.83	£12.69
H0.8-25	25	28.28	29.88	16	6	0.038	0.028	£14.95	£12.83
H0.8-26	26	29.42	31.02	16	6	0.040	0.030	£14.96	£12.93
H0.8-27	27	30.55	32.15	16	6	0.043	0.032	£15.02	£13.00
H0.8-28	28	31.68	33.28	16	6	0.045	0.035	£15.07	£13.13
H0.8-29	29	32.81	34.41	16	6	0.048	0.038	£15.14	£13.19
H0.8-30	30	33.94	35.54	16	6	0.051	0.040	£15.18	£13.31
H0.8-31	31	35.07	36.67	16	6	0.054	0.043	£15.19	£13.40

25.10



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
 Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
HO.8-32	32	36.20	37.80	16	6	0.057	0.046	£16.24	£13.54
HO.8-33	33	37.34	38.94	16	6	0.060	0.049	£16.27	£13.61
HO.8-34	34	38.47	40.07	16	6	0.063	0.052	£16.35	£13.68
HO.8-35	35	39.60	41.20	16	6	0.066	0.055	£16.44	£13.82
HO.8-36	36	40.73	42.33	16	6	0.069	0.059	£16.48	£13.93
HO.8-37	37	41.86	43.46	16	6	0.072	0.062	£16.49	£13.96
HO.8-38	38	42.99	44.59	16	6	0.076	0.065	£16.81	£13.98
HO.8-39	39	44.12	45.72	16	6	0.079	0.069	£16.93	£13.99
HO.8-40	40	45.25	46.85	16	6	0.083	0.073	£17.13	£14.05
HO.8-41	41	46.39	47.99	16	6	0.087	0.076	£17.37	£14.32
HO.8-42	42	47.52	49.12	16	6	0.091	0.080	£17.80	£14.90
HO.8-43	43	48.65	50.25	16	6	0.095	0.084	£18.04	£15.14
HO.8-44	44	49.78	51.38	16	6	0.099	0.088	£18.43	£15.38
HO.8-45	45	50.91	52.51	16	6	0.103	0.092	£18.67	£15.83
HO.8-46	46	52.04	53.64	16	6	0.107	0.096	£19.36	£16.24
HO.8-47	47	53.17	54.77	16	6	0.111	0.101	£19.54	£16.73
HO.8-48	48	54.31	55.91	16	6	0.116	0.105	£19.77	£16.77
HO.8-49	49	55.44	57.04	16	6	0.120	0.110	£20.32	£16.98
HO.8-50	50	56.57	58.17	16	6	0.125	0.114	£21.21	£17.76
HO.8-51	51	57.70	59.30	16	6	0.129	0.119	£21.42	£17.89
HO.8-52	52	58.83	60.43	16	6	0.134	0.124	£22.44	£18.09
HO.8-53	53	59.96	61.56	16	6	0.139	0.128	£22.89	£18.61
HO.8-54	54	61.09	62.69	16	6	0.144	0.133	£23.25	£19.07
HO.8-55	55	62.23	63.83	16	6	0.149	0.138	£23.55	£19.29
HO.8-56	56	63.36	64.96	16	6	0.154	0.143	£23.87	£19.42
HO.8-57	57	64.49	66.09	16	6	0.159	0.149	£24.38	£19.69
HO.8-58	58	65.62	67.22	16	6	0.165	0.154	£24.85	£19.95
HO.8-59	59	66.75	68.35	16	6	0.170	0.159	£24.89	£19.98
HO.8-60	60	67.88	69.48	20	8	0.180	0.164	£25.18	£20.16
HO.8-61	61	69.01	70.61	20	8	0.186	0.169	£25.40	£20.59
HO.8-62	62	70.15	71.75	20	8	0.191	0.175	£25.61	£20.68
HO.8-63	63	71.28	72.88	20	8	0.197	0.181	£26.12	£21.17
HO.8-64	64	72.41	74.01	20	8	0.203	0.187	£26.90	£21.23
HO.8-66	66	74.67	76.27	20	8	0.215	0.199	£27.22	£21.67
HO.8-68	68	76.93	78.53	20	8	0.227	0.211	£27.54	£21.70
HO.8-70	70	79.20	80.80	20	8	0.240	0.224	£28.13	£22.69
HO.8-75	75	84.85	86.45	20	8	0.273	0.257	£29.10	£23.93
HO.8-76	76	85.98	87.58	20	8	0.280	0.264	£29.89	£23.99
HO.8-80	80	90.51	92.11	20	8	0.309	0.293	£34.84	£24.32
HO.8-86	86	97.30	98.90	20	8	0.355	0.339	£36.93	£24.51
HO.8-88	88	99.56	101.16	20	10	0.371	0.355	£37.79	£24.70
HO.8-90	90	101.82	103.42	20	10	0.388	0.372	£39.30	£24.89
HO.8-96	96	108.61	110.21	20	10	0.439	0.423	£43.69	£35.11
HO.8-100	100	113.14	114.74	20	10	0.475	0.459	£44.40	£36.26
HO.8-112	112	126.71	128.31	30	12	0.593	0.577	£49.39	£39.47
HO.8-120	120	135.76	137.36	30	12	0.678	0.662	£51.25	£42.76
HO.8-127	127	143.68	145.28	30	12	0.758	0.742	£58.55	£46.54
HO.8-128	128	144.82	146.42	30	12	0.770	0.754	£59.49	£49.61

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

0.8 MOD

45° H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 110



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.10



RH 45°

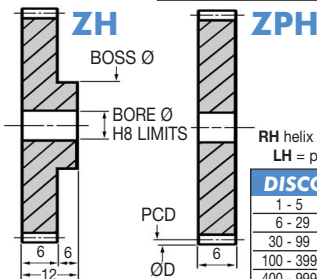


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic MOD 0.8

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH0.8-9	9	11.31	12.91	12.91	4	0.0016	0.0011	£6.14	£4.42
ZH0.8-10	10	11.31	12.91	12.91	4	0.0021	0.0011	£6.24	£4.62
ZH0.8-11	11	12.45	14.05	14.05	4	0.0024	0.0014	£6.34	£4.79
ZH0.8-12	12	13.58	15.18	12.00	4	0.0027	0.0017	£6.43	£4.97
ZH0.8-13	13	14.71	16.31	12.00	4	0.0031	0.0020	£6.69	£5.09
ZH0.8-14	14	15.84	17.44	14.00	4	0.0038	0.0024	£6.70	£5.19
ZH0.8-15	15	16.97	18.57	14.00	4	0.0042	0.0027	£6.71	£5.25
ZH0.8-16	16	18.10	19.70	14.00	4	0.0046	0.0031	£6.72	£5.32
ZH0.8-17	17	19.23	20.83	14.00	4	0.0050	0.0036	£6.75	£5.46
ZH0.8-18	18	20.36	21.96	14.00	4	0.0055	0.0040	£6.87	£5.48
ZH0.8-19	19	21.50	23.10	14.00	4	0.0060	0.0045	£6.99	£5.52
ZH0.8-20	20	22.63	24.23	14.00	4	0.0065	0.0050	£7.04	£5.55
ZH0.8-21	21	23.76	25.36	14.00	4	0.0070	0.0055	£7.14	£5.58
ZH0.8-22	22	24.89	26.49	16.00	5	0.0079	0.0060	£7.27	£5.63
ZH0.8-23	23	26.02	27.62	16.00	5	0.0085	0.0066	£7.36	£5.67
ZH0.8-24	24	27.15	28.75	16.00	5	0.0091	0.0072	£7.38	£5.72
ZH0.8-25	25	28.28	29.88	16.00	5	0.0097	0.0078	£7.39	£5.73
ZH0.8-26	26	29.42	31.02	16.00	5	0.0104	0.0085	£7.40	£5.76
ZH0.8-27	27	30.55	32.15	16.00	5	0.0110	0.0092	£7.45	£5.79
ZH0.8-28	28	31.68	33.28	16.00	5	0.0118	0.0099	£7.49	£5.87
ZH0.8-29	29	32.81	34.41	16.00	5	0.0125	0.0106	£8.20	£6.38
ZH0.8-30	30	33.94	35.54	16.00	5	0.0132	0.0114	£8.32	£6.39
ZH0.8-31	31	35.07	36.67	16.00	5	0.0140	0.0122	£8.35	£6.40

25.12



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZHO.8-32	32	36.20	37.80	16	5	0.0148	0.0130	£8.36	£6.43
ZHO.8-33	33	37.34	38.94	16	5	0.0157	0.0138	£8.38	£6.44
ZHO.8-34	34	38.47	40.07	16	5	0.0166	0.0147	£8.45	£6.50
ZHO.8-35	35	39.60	41.20	16	5	0.0175	0.0156	£8.50	£6.51
ZHO.8-36	36	40.73	42.33	16	5	0.0184	0.0165	£8.52	£7.45
ZHO.8-37	37	41.86	43.46	16	5	0.0193	0.0174	£8.53	£7.49
ZHO.8-38	38	42.99	44.59	16	5	0.0203	0.0184	£9.77	£7.63
ZHO.8-39	39	44.12	45.72	16	5	0.0213	0.0194	£9.86	£7.64
ZHO.8-40	40	45.25	46.85	16	5	0.0223	0.0204	£9.94	£7.70
ZHO.8-41	41	46.39	47.99	16	5	0.0233	0.0215	£9.99	£7.75
ZHO.8-42	42	47.52	49.12	16	5	0.0244	0.0226	£10.01	£9.40
ZHO.8-43	43	48.65	50.25	16	5	0.0255	0.0237	£10.04	£9.47
ZHO.8-44	44	49.78	51.38	16	5	0.0266	0.0248	£10.15	£9.51
ZHO.8-45	45	50.91	52.51	16	5	0.0278	0.0259	£12.29	£9.55
ZHO.8-46	46	52.04	53.64	16	5	0.0290	0.0271	£12.39	£9.57
ZHO.8-47	47	53.17	54.77	16	5	0.0302	0.0283	£12.43	£9.60
ZHO.8-48	48	54.31	55.91	16	5	0.0314	0.0295	£12.44	£9.65
ZHO.8-49	49	55.44	57.04	16	5	0.0327	0.0308	£12.51	£9.77
ZHO.8-50	50	56.57	58.17	16	5	0.0339	0.0321	£12.52	£9.82
ZHO.8-51	51	57.70	59.30	16	5	0.0352	0.0334	£12.66	£11.11
ZHO.8-52	52	58.83	60.43	16	5	0.0366	0.0347	£12.77	£11.12
ZHO.8-53	53	59.96	61.56	16	5	0.0379	0.0361	£12.78	£11.65
ZHO.8-54	54	61.09	62.69	16	5	0.0393	0.0374	£14.73	£11.66
ZHO.8-55	55	62.23	63.83	16	5	0.0407	0.0389	£14.74	£11.67
ZHO.8-56	56	63.36	64.96	16	5	0.0422	0.0403	£15.20	£11.84
ZHO.8-57	57	64.49	66.09	16	5	0.0436	0.0418	£15.22	£11.85
ZHO.8-58	58	65.62	67.22	16	5	0.0451	0.0432	£15.23	£11.86
ZHO.8-59	59	66.75	68.35	16	5	0.0466	0.0447	£15.42	£12.07
ZHO.8-60	60	67.88	69.48	18	6	0.0485	0.0462	£15.45	£12.08
ZHO.8-61	61	69.01	70.61	18	6	0.0501	0.0477	£15.47	£12.33
ZHO.8-62	62	70.15	71.75	18	6	0.0517	0.0493	£15.48	£12.52
ZHO.8-63	63	71.28	72.88	18	6	0.0533	0.0510	£15.55	£13.30
ZHO.8-64	64	72.41	74.01	18	6	0.0549	0.0526	£15.77	£13.74
ZHO.8-66	66	74.67	76.27	18	6	0.0583	0.0560	£15.78	£13.75
ZHO.8-68	68	76.93	78.53	18	6	0.0617	0.0594	£16.90	£16.09
ZHO.8-70	70	79.20	80.80	18	8	0.0653	0.0630	£16.92	£16.42
ZHO.8-75	75	84.85	86.45	18	8	0.0747	0.0724	£21.39	£17.34
ZHO.8-76	76	85.98	87.58	18	8	0.0766	0.0743	£25.68	£17.90
ZHO.8-80	80	90.51	92.11	18	8	0.0847	0.0824	£28.26	£17.98
ZHO.8-86	86	97.30	98.90	18	8	0.0976	0.0953	£29.26	£22.00
ZHO.8-88	88	99.56	101.16	20	10	0.1021	0.0997	£30.78	£22.05
ZHO.8-90	90	101.82	103.42	20	10	0.1067	0.1043	£38.88	£27.88
ZHO.8-96	96	108.61	110.21	20	10	0.1211	0.1188	£44.51	£33.47
ZHO.8-100	100	113.14	114.74	20	10	0.1313	0.1289	£52.85	£36.85
ZHO.8-110	110	124.45	125.90	20	10	0.1584	0.1561	£60.11	£38.03

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin

1 MOD

20° P.A. SPECIAL TEETH : between 9 - 150

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations	TORQUE Nm.	0.747	4.908	0.373	0.267
at back	K.W.	0.078	0.514	0.039	0.028



RH 45°

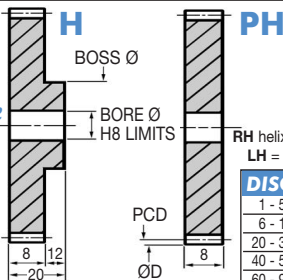


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H1-9	9	14.14	16.14	11	6	0.014	0.009	£10.30	£9.82
H1-10	10	14.14	16.14	11	6	0.014	0.009	£10.72	£10.32
H1-11	11	15.56	17.56	11	6	0.016	0.011	£10.96	£10.65
H1-12	12	16.97	18.97	14	6	0.024	0.014	£11.06	£10.87
H1-13	13	18.38	20.38	14	6	0.026	0.016	£11.49	£11.47
H1-14	14	19.80	21.80	15	6	0.031	0.019	£11.85	£11.84
H1-15	15	21.21	23.21	15	6	0.034	0.021	£12.09	£11.89
H1-16	16	22.63	24.63	15	6	0.037	0.024	£12.15	£11.91
H1-17	17	24.04	26.04	15	6	0.040	0.027	£12.75	£12.06
H1-18	18	25.46	27.46	15	6	0.043	0.031	£13.19	£12.23
H1-19	19	26.87	28.87	15	6	0.047	0.034	£13.46	£12.34
H1-20	20	28.28	30.28	15	6	0.050	0.038	£14.13	£12.56
H1-21	21	29.70	31.70	15	6	0.054	0.042	£14.36	£12.66
H1-22	22	31.11	33.11	15	6	0.058	0.046	£14.72	£12.78
H1-23	23	32.53	34.53	15	6	0.063	0.051	£14.90	£12.84
H1-24	24	33.94	35.94	20	8	0.077	0.055	£15.07	£12.95
H1-25	25	35.36	37.36	20	8	0.081	0.060	£15.41	£13.09
H1-26	26	36.77	38.77	20	8	0.086	0.065	£15.57	£13.14
H1-27	27	38.18	40.18	20	8	0.091	0.070	£16.17	£13.26
H1-28	28	39.60	41.60	20	8	0.097	0.075	£16.44	£13.37
H1-29	29	41.01	43.01	20	8	0.102	0.080	£16.56	£13.41
H1-30	30	42.43	44.43	20	8	0.108	0.086	£16.65	£13.61
H1-31	31	43.84	45.84	20	8	0.114	0.092	£16.72	£13.75

Helical Gears Crossed Axis Steel MOD 1

25.14



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H1-32	32	45.25	47.25	20	8	0.120	0.098	£16.83	£14.08
H1-33	33	46.67	48.67	20	8	0.126	0.104	£16.92	£14.33
H1-34	34	48.08	50.08	20	8	0.132	0.111	£17.80	£14.50
H1-35	35	49.50	51.50	20	8	0.139	0.117	£18.69	£14.90
H1-36	36	50.91	52.91	20	8	0.146	0.124	£18.98	£15.14
H1-37	37	52.33	54.33	20	8	0.153	0.131	£19.46	£15.61
H1-38	38	53.74	55.74	20	8	0.160	0.138	£19.72	£15.90
H1-39	39	55.15	57.15	20	8	0.167	0.146	£20.09	£16.29
H1-40	40	56.57	58.57	20	8	0.175	0.153	£20.42	£16.60
H1-41	41	57.98	59.98	20	8	0.183	0.161	£20.66	£16.83
H1-42	42	59.40	61.40	20	8	0.191	0.169	£21.15	£17.29
H1-43	43	60.81	62.81	20	8	0.199	0.177	£21.42	£17.62
H1-44	44	62.23	64.23	20	8	0.207	0.186	£22.45	£17.90
H1-45	45	63.64	65.64	20	8	0.216	0.194	£22.85	£18.13
H1-46	46	65.05	67.05	20	8	0.225	0.203	£23.88	£18.30
H1-47	47	66.47	68.47	20	8	0.234	0.212	£24.59	£18.84
H1-48	48	67.88	69.88	25	10	0.255	0.221	£24.61	£18.87
H1-49	49	69.30	71.30	25	10	0.264	0.230	£25.12	£19.13
H1-50	50	70.71	72.71	25	10	0.273	0.240	£25.66	£19.40
H1-51	51	72.12	74.12	25	10	0.283	0.250	£26.33	£19.41
H1-52	52	73.54	75.54	25	10	0.293	0.260	£27.02	£19.98
H1-53	53	74.95	76.95	25	10	0.303	0.270	£27.39	£20.42
H1-54	54	76.37	78.37	25	10	0.313	0.280	£27.74	£20.70
H1-55	55	77.78	79.78	25	10	0.324	0.290	£27.79	£20.73
H1-56	56	79.20	81.20	25	10	0.335	0.301	£28.37	£21.21
H1-57	57	80.61	82.61	25	10	0.345	0.312	£28.74	£23.00
H1-58	58	82.02	84.02	25	10	0.357	0.323	£28.75	£23.04
H1-59	59	83.44	85.44	25	10	0.368	0.334	£28.76	£23.06
H1-60	60	84.85	86.85	25	10	0.379	0.346	£29.35	£23.89
H1-61	61	86.27	88.27	25	10	0.391	0.357	£29.37	£23.91
H1-62	62	87.68	89.68	25	10	0.403	0.369	£29.38	£23.92
H1-63	63	89.10	91.10	25	10	0.415	0.381	£30.32	£25.12
H1-64	64	90.51	92.51	25	10	0.427	0.393	£33.55	£27.04
H1-65	65	91.92	93.92	25	10	0.439	0.406	£33.56	£27.05
H1-66	66	93.34	95.34	25	10	0.452	0.418	£33.58	£27.07
H1-68	68	96.17	98.17	25	10	0.478	0.444	£34.00	£29.37
H1-70	70	98.99	100.99	25	10	0.504	0.471	£34.02	£29.38
H1-72	72	101.82	103.82	25	10	0.532	0.498	£42.53	£35.30
H1-73	73	103.24	105.24	25	10	0.546	0.512	£42.54	£35.67
H1-74	74	104.65	106.65	25	10	0.556	0.522	£42.56	£35.98
H1-76	76	107.48	109.48	25	10	0.588	0.555	£42.58	£36.34
H1-78	78	110.31	112.31	25	10	0.618	0.585	£42.60	£37.34
H1-80	80	113.14	115.14	25	10	0.649	0.615	£48.17	£37.35
H1-84	84	118.79	120.79	30	12	0.712	0.678	£48.18	£41.13
H1-88	88	124.45	126.45	30	12	0.778	0.744	£54.61	£44.62
H1-90	90	127.28	129.28	30	12	0.812	0.778	£54.62	£46.17
H1-96	96	135.76	137.76	30	12	0.919	0.886	£64.06	£49.63
H1-100	100	141.42	143.42	30	12	0.995	0.961	£64.10	£53.48
H1-112	112	158.39	160.39	40	15	1.239	1.206	£70.87	£60.44
H1-120	120	169.71	171.71	40	15	1.418	1.384	£73.53	£63.11
H1-130	130	183.85	185.85	50	20	1.658	1.625	£80.67	£70.23
H1-150	150	212.13	214.13	50	20	2.197	2.163	£92.49	£81.97

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin

(fully machined)

1 MOD

45° H.A.

20° P.A.

SPECIAL TEETH : between 9 - 100



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.18



RH 45°

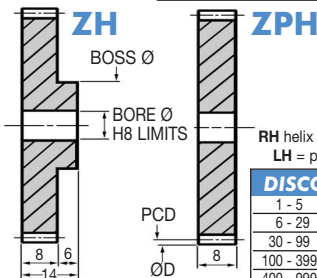


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic MOD 1

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1-9	9	14.14	16.14	12	4	0.0033	0.0022	£5.19	£3.96
ZH1-10	10	14.14	16.14	12	4	0.0033	0.0022	£5.33	£4.08
ZH1-11	11	15.56	17.56	12	4	0.0038	0.0027	£5.48	£4.21
ZH1-12	12	16.97	18.97	15	6	0.0046	0.0031	£5.54	£4.24
ZH1-13	13	18.38	20.38	15	6	0.0052	0.0037	£5.72	£4.38
ZH1-14	14	19.80	21.80	15	6	0.0058	0.0043	£5.90	£4.57
ZH1-15	15	21.21	23.21	18	6	0.0073	0.0050	£6.04	£4.61
ZH1-16	16	22.63	24.63	18	6	0.0081	0.0058	£6.06	£4.62
ZH1-17	17	24.04	26.04	18	6	0.0089	0.0066	£6.38	£4.83
ZH1-18	18	25.46	27.46	18	6	0.0097	0.0074	£6.65	£5.06
ZH1-19	19	26.87	28.87	18	6	0.0106	0.0083	£6.72	£5.19
ZH1-20	20	28.28	30.28	18	6	0.0116	0.0093	£7.74	£5.95
ZH1-21	21	29.70	31.70	18	6	0.0126	0.0103	£7.75	£6.06
ZH1-22	22	31.11	33.11	18	6	0.0136	0.0113	£8.12	£6.15
ZH1-23	23	32.53	34.53	18	6	0.0147	0.0124	£8.20	£6.30
ZH1-24	24	33.94	35.94	18	6	0.0159	0.0135	£8.35	£6.38
ZH1-25	25	35.36	37.36	18	6	0.0170	0.0147	£8.50	£6.51
ZH1-26	26	36.77	38.77	18	6	0.0183	0.0160	£8.59	£6.61
ZH1-27	27	38.18	40.18	18	6	0.0196	0.0172	£10.15	£7.75
ZH1-28	28	39.60	41.60	18	6	0.0209	0.0186	£10.30	£7.87
ZH1-29	29	41.01	43.01	18	6	0.0223	0.0199	£10.42	£7.99
ZH1-30	30	42.43	44.43	18	6	0.0237	0.0214	£10.47	£8.01
ZH1-31	31	43.84	45.84	18	6	0.0252	0.0229	£10.50	£8.02

25.16



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1-32	32	45.25	47.25	18	6	0.0267	0.0244	£10.54	£8.10
ZH1-33	33	46.67	48.67	18	6	0.0283	0.0260	£10.62	£8.12
ZH1-34	34	48.08	50.08	18	6	0.0299	0.0276	£13.41	£10.30
ZH1-35	35	49.50	51.50	18	6	0.0316	0.0293	£14.08	£10.79
ZH1-36	36	50.91	52.91	22	8	0.0340	0.0306	£14.29	£10.97
ZH1-37	37	52.33	54.33	22	8	0.0358	0.0324	£14.36	£11.28
ZH1-38	38	53.74	55.74	22	8	0.0376	0.0342	£14.72	£11.47
ZH1-39	39	55.15	57.15	22	8	0.0395	0.0361	£15.18	£11.59
ZH1-40	40	56.57	58.57	22	8	0.0414	0.0380	£15.42	£11.76
ZH1-41	41	57.98	59.98	22	8	0.0434	0.0400	£15.60	£11.96
ZH1-42	42	59.40	61.40	22	8	0.0454	0.0420	£18.13	£13.93
ZH1-43	43	60.81	62.81	22	8	0.0474	0.0440	£18.40	£14.08
ZH1-44	44	62.23	64.23	22	8	0.0496	0.0462	£19.25	£14.74
ZH1-45	45	63.64	65.64	22	8	0.0517	0.0483	£19.60	£15.00
ZH1-46	46	65.05	67.05	22	8	0.0539	0.0505	£20.47	£15.68
ZH1-47	47	66.47	68.47	22	8	0.0562	0.0528	£21.08	£16.17
ZH1-48	48	67.88	69.88	22	8	0.0585	0.0551	£21.09	£16.18
ZH1-49	49	69.30	71.30	22	8	0.0608	0.0574	£21.52	£16.55
ZH1-50	50	70.71	72.71	22	8	0.0632	0.0598	£21.98	£16.81
ZH1-51	51	72.12	74.12	22	8	0.0657	0.0623	£22.66	£17.28
ZH1-52	52	73.54	75.54	22	8	0.0682	0.0648	£23.56	£18.79
ZH1-53	53	74.95	76.95	22	8	0.0707	0.0673	£23.74	£19.04
ZH1-54	54	76.37	78.37	22	8	0.0733	0.0699	£23.80	£19.25
ZH1-55	55	77.78	79.78	22	8	0.0759	0.0725	£23.81	£19.54
ZH1-56	56	79.20	81.20	22	8	0.0786	0.0752	£25.74	£19.71
ZH1-57	57	80.61	82.61	22	8	0.0814	0.0780	£26.09	£19.97
ZH1-58	58	82.02	84.02	22	8	0.0842	0.0808	£26.10	£19.98
ZH1-59	59	83.44	85.44	22	8	0.0870	0.0836	£26.11	£20.00
ZH1-60	60	84.85	86.85	22	8	0.0899	0.0865	£26.66	£20.44
ZH1-61	61	86.27	88.27	22	8	0.0928	0.0894	£26.67	£20.46
ZH1-62	62	87.68	89.68	22	8	0.0958	0.0924	£26.68	£20.47
ZH1-63	63	89.10	91.10	22	8	0.0988	0.0954	£30.55	£23.45
ZH1-64	64	90.51	92.51	26	8	0.1035	0.0985	£33.86	£25.96
ZH1-65	65	91.92	93.92	26	8	0.1066	0.1016	£33.87	£25.97
ZH1-66	66	93.34	95.34	26	8	0.1098	0.1048	£33.88	£26.00
ZH1-68	68	96.17	98.17	26	8	0.1163	0.1113	£34.33	£26.33
ZH1-70	70	98.99	100.99	26	10	0.1229	0.1180	£37.76	£28.98
ZH1-72	72	101.82	103.82	26	10	0.1298	0.1249	£47.21	£36.19
ZH1-73	73	103.24	105.24	26	10	0.1334	0.1284	£47.24	£36.21
ZH1-74	74	104.65	106.65	26	10	0.1359	0.1310	£47.25	£36.22
ZH1-76	76	107.48	109.48	26	10	0.1442	0.1392	£47.27	£36.23
ZH1-78	78	110.31	112.31	26	10	0.1516	0.1467	£47.29	£36.24
ZH1-80	80	113.14	115.14	26	10	0.1593	0.1544	£53.45	£40.99
ZH1-84	84	118.79	120.79	30	12	0.1752	0.1703	£58.32	£44.73
ZH1-88	88	124.45	126.45	30	12	0.1919	0.1869	£66.14	£50.70
ZH1-90	90	127.28	129.28	30	12	0.2005	0.1956	£66.19	£50.75
ZH1-96	96	135.76	137.76	30	12	0.2276	0.2226	£78.12	£62.70
ZH1-100	100	141.42	143.42	30	12	0.2466	0.2416	£92.98	£77.58

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

1.25 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEETH : between 9 - 140

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	1.386	9.108	0.693	0.495
	K.W.	0.145	0.954	0.072	0.052



RH 45°

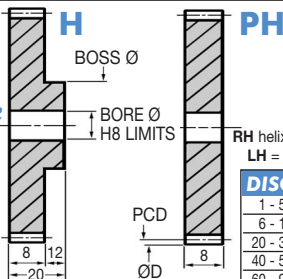


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H1.25-9	9	17.68	20.18	15	6	0.027	0.013	£13.75	£11.15
H1.25-10	10	17.68	20.18	15	6	0.027	0.013	£14.27	£11.53
H1.25-11	11	19.45	21.95	15	6	0.030	0.016	£14.72	£12.22
H1.25-12	12	21.21	23.71	15	6	0.034	0.020	£15.12	£12.34
H1.25-13	13	22.98	25.48	15	6	0.037	0.024	£16.13	£12.50
H1.25-14	14	24.75	27.25	15	6	0.041	0.028	£16.29	£12.69
H1.25-15	15	26.52	29.02	15	6	0.046	0.032	£16.72	£13.00
H1.25-16	16	28.28	30.78	20	8	0.060	0.035	£16.94	£13.19
H1.25-17	17	30.05	32.55	20	8	0.065	0.040	£17.59	£13.40
H1.25-18	18	31.82	34.32	20	8	0.070	0.046	£17.80	£13.61
H1.25-19	19	33.59	36.09	20	8	0.075	0.051	£18.18	£13.75
H1.25-20	20	35.36	37.86	20	8	0.081	0.057	£19.46	£13.99
H1.25-21	21	37.12	39.62	20	8	0.087	0.063	£20.11	£14.13
H1.25-22	22	38.89	41.39	20	8	0.094	0.070	£20.95	£14.20
H1.25-23	23	40.66	43.16	20	8	0.101	0.076	£21.37	£14.46
H1.25-24	24	42.43	44.93	20	8	0.108	0.083	£21.65	£14.67
H1.25-25	25	44.19	46.69	20	8	0.115	0.091	£22.49	£15.02
H1.25-26	26	45.96	48.46	20	8	0.123	0.098	£22.66	£15.18
H1.25-27	27	47.73	50.23	20	8	0.131	0.106	£23.15	£15.41
H1.25-28	28	49.50	52.00	20	8	0.139	0.115	£23.31	£15.76
H1.25-29	29	51.27	53.77	20	8	0.148	0.123	£23.54	£15.90
H1.25-30	30	53.03	55.53	20	8	0.156	0.132	£23.67	£16.19
H1.25-31	31	54.80	57.30	20	8	0.166	0.141	£23.80	£16.27

Helical Gears Crossed Axis Steel MOD 1.25

25.18



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H1.25-32	32	56.57	59.07	20	8	0.175	0.151	£23.92	£16.56
H1.25-33	33	58.34	60.84	20	8	0.185	0.161	£24.10	£16.72
H1.25-34	34	60.10	62.60	20	8	0.195	0.171	£24.70	£16.92
H1.25-35	35	61.87	64.37	20	8	0.205	0.181	£24.89	£17.34
H1.25-36	36	63.64	66.14	20	8	0.216	0.192	£25.18	£17.59
H1.25-37	37	65.41	67.91	20	8	0.227	0.203	£25.62	£17.87
H1.25-38	38	67.18	69.68	20	8	0.238	0.214	£25.80	£17.98
H1.25-39	39	68.94	71.44	20	8	0.250	0.225	£27.13	£18.13
H1.25-40	40	70.71	73.21	25	10	0.273	0.236	£28.39	£18.30
H1.25-41	41	72.48	74.98	25	10	0.286	0.248	£28.50	£18.45
H1.25-42	42	74.25	76.75	25	10	0.298	0.260	£30.05	£18.79
H1.25-43	43	76.01	78.51	25	10	0.311	0.273	£30.34	£19.04
H1.25-44	44	77.78	80.28	25	10	0.324	0.286	£31.09	£19.73
H1.25-45	45	79.55	82.05	25	10	0.337	0.299	£31.42	£20.16
H1.25-46	46	81.32	83.82	25	10	0.351	0.313	£32.29	£20.73
H1.25-47	47	83.09	85.59	25	10	0.365	0.327	£33.04	£21.95
H1.25-48	48	84.85	87.35	25	10	0.379	0.341	£33.06	£21.96
H1.25-49	49	86.62	89.12	25	10	0.394	0.356	£33.63	£22.57
H1.25-50	50	88.39	90.89	25	10	0.409	0.371	£33.85	£25.62
H1.25-51	51	90.16	92.66	25	10	0.424	0.386	£33.99	£26.00
H1.25-52	52	91.92	94.42	25	10	0.439	0.401	£34.19	£26.55
H1.25-53	53	93.69	96.19	25	10	0.455	0.417	£34.77	£27.02
H1.25-54	54	95.46	97.96	25	10	0.471	0.433	£35.97	£27.32
H1.25-55	55	97.23	99.73	25	10	0.488	0.450	£35.98	£27.39
H1.25-56	56	98.99	101.49	25	10	0.504	0.466	£38.36	£27.87
H1.25-57	57	100.76	103.26	25	10	0.521	0.483	£38.61	£30.55
H1.25-58	58	102.53	105.03	25	10	0.538	0.501	£38.64	£31.21
H1.25-59	59	104.30	106.80	25	10	0.556	0.518	£38.65	£34.02
H1.25-60	60	106.07	108.57	25	10	0.574	0.536	£42.53	£37.06
H1.25-61	61	107.83	110.33	25	10	0.592	0.554	£42.54	£40.51
H1.25-62	62	109.60	112.10	25	10	0.611	0.573	£42.56	£41.18
H1.25-63	63	111.37	113.87	25	10	0.629	0.592	£42.92	£41.22
H1.25-64	64	113.14	115.64	25	10	0.649	0.611	£49.36	£41.34
H1.25-65	65	114.90	117.40	25	10	0.668	0.630	£49.37	£41.36
H1.25-66	66	116.67	119.17	25	10	0.688	0.650	£49.39	£42.20
H1.25-68	68	120.21	122.71	25	12	0.728	0.690	£50.16	£42.78
H1.25-70	70	123.74	126.24	25	12	0.769	0.731	£50.19	£43.00
H1.25-72	72	127.28	129.78	25	12	0.813	0.775	£55.52	£44.29
H1.25-73	73	129.05	131.55	25	12	0.834	0.796	£56.32	£45.25
H1.25-74	74	130.81	133.31	25	12	0.856	0.818	£56.91	£47.60
H1.25-76	76	134.35	136.85	25	12	0.901	0.863	£58.58	£49.44
H1.25-78	78	137.89	140.39	25	12	0.947	0.909	£58.59	£50.58
H1.25-80	80	141.42	143.92	25	12	0.995	0.957	£59.41	£52.23
H1.25-84	84	148.49	150.99	30	15	1.093	1.055	£61.84	£56.13
H1.25-88	88	155.56	158.06	30	15	1.197	1.159	£66.24	£63.80
H1.25-90	90	159.10	161.60	30	15	1.250	1.212	£66.48	£63.82
H1.25-96	96	169.71	172.21	30	15	1.418	1.380	£71.56	£67.13
H1.25-100	100	176.78	179.28	30	15	1.536	1.498	£76.68	£68.95
H1.25-112	112	197.99	200.49	40	20	1.918	1.880	£85.97	£74.37

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Plastic Crossed Axis @ 90°

STD : White Delrin

(fully machined)

1.25 MOD 45° H.A.

20° P.A.

SPECIAL TEETH : between 9 - 90



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.40



RH 45°

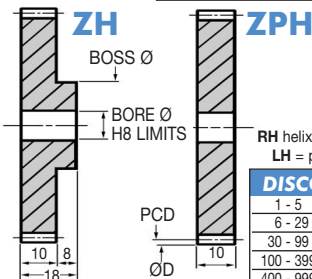


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1.25-9	9	17.68	20.18	15	5	0.0051	0.0035	£6.87	£5.25
ZH1.25-10	10	17.68	20.18	15	5	0.0051	0.0035	£7.09	£5.48
ZH1.25-11	11	19.45	21.95	15	6	0.0057	0.0041	£7.38	£5.58
ZH1.25-12	12	21.21	23.71	15	6	0.0065	0.0050	£7.63	£5.81
ZH1.25-13	13	22.98	25.48	16	6	0.0077	0.0060	£8.10	£6.15
ZH1.25-14	14	24.75	27.25	16	6	0.0088	0.0070	£8.18	£6.30
ZH1.25-15	15	26.52	29.02	18	6	0.0104	0.0081	£8.35	£6.38
ZH1.25-16	16	28.28	30.78	18	6	0.0116	0.0093	£9.32	£7.14
ZH1.25-17	17	30.05	32.55	18	6	0.0128	0.0105	£9.68	£7.40
ZH1.25-18	18	31.82	34.32	18	6	0.0142	0.0118	£9.82	£7.49
ZH1.25-19	19	33.59	36.09	18	6	0.0156	0.0132	£10.04	£7.70
ZH1.25-20	20	35.36	37.86	18	6	0.0170	0.0147	£10.76	£8.20
ZH1.25-21	21	37.12	39.62	18	6	0.0186	0.0163	£12.66	£9.68
ZH1.25-22	22	38.89	41.39	18	6	0.0202	0.0179	£13.18	£10.30
ZH1.25-23	23	40.66	43.16	18	6	0.0219	0.0196	£13.37	£10.36
ZH1.25-24	24	42.43	44.93	18	6	0.0237	0.0214	£13.61	£10.42
ZH1.25-25	25	44.19	46.69	18	6	0.0256	0.0232	£14.02	£10.73
ZH1.25-26	26	45.96	48.46	18	6	0.0275	0.0252	£14.25	£10.81
ZH1.25-27	27	47.73	50.23	18	6	0.0295	0.0272	£17.51	£13.39
ZH1.25-28	28	49.50	52.00	22	8	0.0323	0.0289	£17.62	£13.49
ZH1.25-29	29	51.27	53.77	22	8	0.0345	0.0311	£17.80	£13.64
ZH1.25-30	30	53.03	55.53	22	8	0.0367	0.0333	£17.88	£13.68
ZH1.25-31	31	54.80	57.30	22	8	0.0390	0.0356	£17.98	£13.75

Helical Gears Crossed Axis Plastic MOD 1.25

25.20



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1.25-32	32	56.57	59.07	22	8	0.0414	0.0380	£18.10	£13.92
ZH1.25-33	33	58.34	60.84	22	8	0.0439	0.0405	£20.66	£15.83
ZH1.25-34	34	60.10	62.60	22	8	0.0464	0.0430	£21.17	£16.22
ZH1.25-35	35	61.87	64.37	22	8	0.0490	0.0456	£21.36	£16.42
ZH1.25-36	36	63.64	66.14	22	8	0.0517	0.0483	£21.60	£16.55
ZH1.25-37	37	65.41	67.91	22	8	0.0545	0.0511	£21.96	£16.81
ZH1.25-38	38	67.18	69.68	22	8	0.0573	0.0539	£22.06	£16.93
ZH1.25-39	39	68.94	71.44	26	10	0.0610	0.0564	£23.26	£18.66
ZH1.25-40	40	70.71	73.21	26	10	0.0640	0.0594	£24.31	£19.81
ZH1.25-41	41	72.48	74.98	26	10	0.0671	0.0625	£25.86	£20.91
ZH1.25-42	42	74.25	76.75	26	10	0.0703	0.0656	£27.30	£21.09
ZH1.25-43	43	76.01	78.51	26	10	0.0735	0.0688	£27.57	£21.65
ZH1.25-44	44	77.78	80.28	26	10	0.0768	0.0721	£28.23	£21.91
ZH1.25-45	45	79.55	82.05	26	10	0.0801	0.0755	£28.50	£22.44
ZH1.25-46	46	81.32	83.82	26	10	0.0836	0.0789	£29.28	£22.99
ZH1.25-47	47	83.09	85.59	26	10	0.0871	0.0825	£30.00	£22.99
ZH1.25-48	48	84.85	87.35	26	10	0.0907	0.0860	£30.04	£23.42
ZH1.25-49	49	86.62	89.12	26	10	0.0944	0.0897	£30.53	£26.16
ZH1.25-50	50	88.39	90.89	26	10	0.0981	0.0935	£34.17	£26.31
ZH1.25-51	51	90.16	92.66	26	10	0.1020	0.0973	£34.33	£26.90
ZH1.25-52	52	91.92	94.42	26	10	0.1058	0.1012	£35.08	£27.88
ZH1.25-53	53	93.69	96.19	26	10	0.1098	0.1052	£36.34	£30.61
ZH1.25-54	54	95.46	97.96	26	10	0.1139	0.1092	£39.96	£32.63
ZH1.25-55	55	97.23	99.73	26	10	0.1180	0.1134	£42.60	£32.91
ZH1.25-56	56	98.99	101.49	26	10	0.1222	0.1176	£42.97	£32.97
ZH1.25-57	57	100.76	103.26	30	10	0.1283	0.1218	£42.99	£36.22
ZH1.25-58	58	102.53	105.03	30	10	0.1327	0.1262	£43.00	£36.23
ZH1.25-59	59	104.30	106.80	30	10	0.1371	0.1306	£47.25	£36.24
ZH1.25-60	60	106.07	108.57	30	10	0.1416	0.1351	£47.27	£36.55
ZH1.25-61	61	107.83	110.33	30	10	0.1462	0.1397	£47.29	£42.04
ZH1.25-62	62	109.60	112.10	30	10	0.1508	0.1444	£47.67	£45.92
ZH1.25-63	63	111.37	113.87	30	10	0.1556	0.1491	£54.78	£46.58
ZH1.25-64	64	113.14	115.64	30	10	0.1604	0.1539	£54.80	£46.59
ZH1.25-65	65	114.90	117.40	30	10	0.1653	0.1588	£59.79	£51.63
ZH1.25-66	66	116.67	119.17	30	10	0.1702	0.1638	£60.74	£51.93
ZH1.25-68	68	120.21	122.71	30	10	0.1804	0.1739	£60.75	£52.10
ZH1.25-70	70	123.74	126.24	30	10	0.1908	0.1844	£67.25	£52.23
ZH1.25-72	72	127.28	129.78	30	10	0.2019	0.1954	£68.51	£52.31
ZH1.25-74	74	130.81	133.31	30	10	0.2126	0.2062	£77.84	£61.66
ZH1.25-78	78	137.89	140.39	30	10	0.2357	0.2292	£91.13	£75.00
ZH1.25-84	84	148.49	150.99	30	15	0.2725	0.2660	£108.50	£92.35
ZH1.25-90	90	159.10	161.60	30	15	0.3120	0.3056	£129.71	£113.56

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

1.5 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEETH : between 9- 120

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations	TORQUE Nm.	2.325	15.278	1.162	0.830
at back	K.W.	0.244	1.601	0.122	0.087



RH 45°

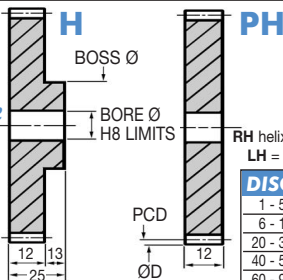


LH available on request.

RH 45°

RH runs with RH
 Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
 LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H1.5-9	9	21.21	24.21	17	8	0.045	0.028	£12.93	£12.75
H1.5-10	10	21.21	24.21	17	8	0.045	0.028	£13.61	£13.13
H1.5-11	11	23.23	26.33	19	8	0.058	0.034	£13.96	£13.71
H1.5-12	12	25.46	28.46	20	10	0.063	0.040	£14.36	£14.08
H1.5-13	13	27.58	30.58	20	10	0.071	0.048	£15.39	£14.29
H1.5-14	14	29.70	32.70	20	10	0.080	0.056	£16.17	£15.23
H1.5-15	15	31.82	34.82	20	10	0.089	0.066	£16.48	£15.49
H1.5-16	16	33.94	36.94	25	12	0.110	0.073	£16.77	£15.71
H1.5-17	17	36.06	39.06	25	12	0.121	0.083	£17.81	£17.34
H1.5-18	18	38.18	41.18	25	12	0.132	0.095	£18.67	£18.09
H1.5-19	19	40.31	43.31	25	12	0.144	0.107	£19.25	£18.17
H1.5-20	20	42.43	45.43	30	15	0.166	0.114	£20.12	£18.43
H1.5-21	21	44.55	47.55	30	15	0.180	0.127	£20.70	£18.61
H1.5-22	22	46.67	49.67	30	15	0.194	0.141	£21.42	£18.87
H1.5-23	23	48.79	51.79	30	15	0.208	0.155	£21.65	£19.04
H1.5-24	24	50.91	53.91	30	15	0.223	0.171	£21.85	£19.16
H1.5-25	25	53.03	56.03	40	15	0.294	0.187	£23.22	£22.85
H1.5-26	26	55.15	58.15	40	15	0.311	0.203	£23.74	£23.54
H1.5-27	27	57.28	60.28	40	15	0.328	0.220	£24.77	£24.67
H1.5-28	28	59.40	62.40	40	15	0.346	0.238	£25.31	£25.08
H1.5-29	29	61.52	64.52	40	15	0.364	0.257	£25.32	£25.18
H1.5-30	30	63.64	66.64	40	15	0.383	0.276	£25.33	£25.21
H1.5-31	31	65.76	68.76	40	15	0.403	0.296	£26.86	£25.34

Helical Gears Crossed Axis Steel MOD 1.5

25.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H1.5-32	32	67.88	70.88	40	15	0.424	0.316	£26.89	£26.44
H1.5-33	33	70.00	73.00	40	15	0.445	0.337	£27.05	£26.90
H1.5-34	34	72.12	75.12	40	15	0.466	0.359	£28.89	£28.39
H1.5-35	35	74.25	77.25	40	15	0.489	0.381	£30.86	£28.60
H1.5-36	36	76.37	79.37	40	15	0.512	0.404	£31.82	£28.76
H1.5-37	37	78.49	81.49	40	15	0.536	0.428	£32.98	£28.90
H1.5-38	38	80.61	83.61	40	15	0.560	0.452	£33.10	£29.01
H1.5-39	39	82.73	85.73	40	15	0.585	0.477	£33.56	£30.03
H1.5-40	40	84.85	87.85	40	15	0.610	0.503	£33.86	£30.61
H1.5-41	41	86.97	89.97	40	15	0.637	0.529	£34.02	£31.21
H1.5-42	42	89.10	92.10	40	15	0.664	0.556	£34.34	£32.40
H1.5-43	43	91.22	94.22	40	15	0.691	0.584	£35.02	£32.60
H1.5-44	44	93.34	96.34	40	15	0.720	0.612	£35.45	£33.58
H1.5-45	45	95.46	98.46	40	15	0.748	0.641	£35.47	£33.76
H1.5-46	46	97.58	100.58	40	15	0.778	0.670	£37.70	£34.52
H1.5-47	47	99.70	102.70	40	15	0.808	0.701	£38.52	£35.11
H1.5-48	48	101.82	104.82	40	15	0.839	0.731	£38.54	£35.47
H1.5-49	49	103.94	106.94	40	15	0.870	0.763	£39.93	£35.88
H1.5-50	50	106.07	109.07	40	15	0.903	0.795	£40.99	£36.23
H1.5-51	51	108.19	111.19	40	15	0.935	0.828	£43.22	£39.12
H1.5-52	52	110.31	113.31	40	15	0.969	0.861	£44.70	£41.30
H1.5-53	53	112.43	115.43	40	15	1.003	0.895	£45.00	£41.46
H1.5-54	54	114.55	117.55	40	15	1.038	0.930	£47.40	£41.88
H1.5-55	55	116.67	119.67	40	15	1.073	0.965	£47.44	£45.35
H1.5-56	56	118.79	121.79	40	15	1.109	1.001	£49.18	£45.54
H1.5-57	57	120.92	123.92	40	15	1.146	1.038	£52.82	£51.56
H1.5-58	58	123.04	126.04	40	15	1.183	1.076	£52.83	£52.23
H1.5-59	59	125.16	128.16	40	15	1.221	1.114	£52.85	£52.35
H1.5-60	60	127.28	130.28	40	15	1.260	1.152	£52.86	£52.40
H1.5-62	62	131.52	134.52	40	15	1.339	1.231	£56.60	£55.29
H1.5-64	64	135.76	138.76	40	15	1.420	1.313	£60.38	£59.26
H1.5-65	65	137.89	140.89	40	15	1.462	1.355	£60.38	£59.86
H1.5-66	66	140.01	143.01	40	15	1.505	1.398	£60.38	£60.01
H1.5-68	68	144.25	147.25	40	15	1.592	1.484	£64.10	£64.10
H1.5-70	70	148.49	151.49	40	15	1.681	1.574	£68.27	£67.02
H1.5-71	71	150.61	153.61	40	15	1.727	1.620	£72.71	£71.89
H1.5-72	72	152.74	155.74	40	15	1.774	1.666	£72.72	£72.16
H1.5-73	73	154.86	157.86	40	15	1.821	1.713	£72.73	£72.41
H1.5-74	74	156.98	159.98	40	15	1.868	1.761	£72.76	£72.49
H1.5-75	75	159.10	162.10	40	15	1.917	1.809	£78.48	£76.34
H1.5-76	76	161.22	164.22	40	15	1.966	1.858	£78.49	£77.02
H1.5-78	78	165.46	168.46	40	15	2.066	1.958	£87.46	£86.96
H1.5-80	80	169.71	172.71	40	15	2.168	2.061	£90.96	£88.28
H1.5-86	86	182.43	185.43	40	15	2.491	2.384	£93.46	£92.62
H1.5-90	90	190.92	193.92	40	15	2.720	2.613	£99.57	£96.34
H1.5-96	96	203.65	206.65	50	20	3.082	2.975	£107.20	£100.24
H1.5-98	98	207.89	210.89	50	20	3.208	3.101	£111.02	£104.09
H1.5-100	100	212.13	215.13	50	20	3.337	3.229	£114.91	£104.53
H1.5-105	105	222.74	225.74	50	20	3.657	3.549	£118.71	£108.30
H1.5-110	110	233.35	236.35	50	20	4.018	3.911	£121.93	£111.53
H1.5-115	115	243.95	246.95	50	20	4.383	4.276	£125.72	£115.29
H1.5-120	120	254.56	257.56	50	20	4.765	4.657	£133.46	£123.04

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin

(fully machined)

1.5 MOD

45° H.A.

20° P.A.

SPECIAL TEETH : between 9 - 75



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.70

Helical Gears Crossed Axis Plastic MOD 1.5



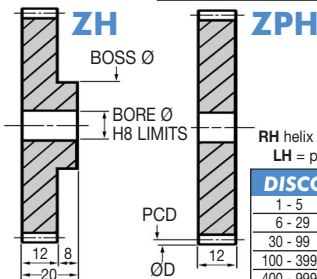
RH 45°

LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1.5-9	9	21.21	24.21	20	8	0.0092	0.0058	£6.43	£4.97
ZH1.5-10	10	21.21	24.21	20	8	0.0092	0.0058	£6.77	£5.22
ZH1.5-11	11	23.23	26.33	20	8	0.0106	0.0072	£6.99	£5.33
ZH1.5-12	12	25.46	28.46	20	8	0.0122	0.0089	£7.27	£5.52
ZH1.5-13	13	27.58	30.58	24	8	0.0157	0.0106	£7.49	£6.43
ZH1.5-14	14	29.70	32.70	25	8	0.0181	0.0124	£8.93	£6.77
ZH1.5-15	15	31.82	34.82	25	8	0.0200	0.0144	£9.08	£6.99
ZH1.5-16	16	33.94	36.94	25	8	0.0221	0.0165	£9.26	£7.04
ZH1.5-17	17	36.06	39.06	25	8	0.0244	0.0187	£9.86	£7.49
ZH1.5-18	18	38.18	41.18	25	8	0.0268	0.0211	£10.01	£7.87
ZH1.5-19	19	40.31	43.31	25	8	0.0293	0.0236	£12.08	£9.26
ZH1.5-20	20	42.43	45.43	25	8	0.0320	0.0263	£12.68	£9.68
ZH1.5-21	21	44.55	47.55	25	8	0.0348	0.0291	£13.03	£9.96
ZH1.5-22	22	46.67	49.67	28	10	0.0384	0.0315	£13.49	£10.30
ZH1.5-23	23	48.79	51.79	28	10	0.0415	0.0345	£13.61	£10.42
ZH1.5-24	24	50.91	53.91	28	10	0.0447	0.0378	£16.55	£12.66
ZH1.5-25	25	53.03	56.03	28	10	0.0480	0.0411	£17.52	£13.41
ZH1.5-26	26	55.15	58.15	28	10	0.0515	0.0446	£17.98	£13.75
ZH1.5-27	27	57.28	60.28	28	10	0.0551	0.0482	£18.69	£14.35
ZH1.5-28	28	59.40	62.40	30	12	0.0589	0.0513	£19.07	£14.66
ZH1.5-29	29	61.52	64.52	30	12	0.0628	0.0552	£21.70	£16.60
ZH1.5-30	30	63.64	66.64	30	12	0.0668	0.0592	£21.71	£16.61
ZH1.5-31	31	65.76	68.76	30	12	0.0710	0.0633	£21.73	£16.64

25.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1.5-32	32	67.88	70.88	30	12	0.0753	0.0676	£22.68	£17.37
ZH1.5-33	33	70.00	73.00	30	12	0.0797	0.0721	£23.20	£17.77
ZH1.5-34	34	72.12	75.12	30	12	0.0843	0.0766	£24.73	£18.98
ZH1.5-35	35	74.25	77.25	30	12	0.0890	0.0813	£26.48	£20.32
ZH1.5-36	36	76.37	79.37	36	12	0.0978	0.0862	£28.89	£22.12
ZH1.5-37	37	78.49	81.49	36	12	0.1028	0.0912	£29.93	£22.99
ZH1.5-38	38	80.61	83.61	36	12	0.1079	0.0963	£30.08	£23.16
ZH1.5-39	39	82.73	85.73	36	12	0.1131	0.1015	£30.44	£23.31
ZH1.5-40	40	84.85	87.85	36	12	0.1185	0.1069	£30.76	£23.55
ZH1.5-41	41	86.97	89.97	36	12	0.1240	0.1124	£30.87	£23.68
ZH1.5-42	42	89.10	92.10	36	12	0.1297	0.1181	£34.63	£26.57
ZH1.5-43	43	91.22	94.22	36	12	0.1355	0.1239	£35.32	£27.07
ZH1.5-44	44	93.34	96.34	36	12	0.1414	0.1298	£35.73	£27.40
ZH1.5-45	45	95.46	98.46	36	12	0.1475	0.1359	£35.82	£27.41
ZH1.5-46	46	97.58	100.58	36	12	0.1537	0.1421	£41.82	£32.03
ZH1.5-47	47	99.70	102.70	48	12	0.1702	0.1484	£42.76	£32.81
ZH1.5-48	48	101.82	104.82	48	12	0.1767	0.1549	£42.76	£32.83
ZH1.5-49	49	103.94	106.94	48	12	0.1833	0.1615	£44.33	£33.97
ZH1.5-50	50	106.07	109.07	48	12	0.1901	0.1683	£45.54	£34.93
ZH1.5-51	51	108.19	111.19	48	12	0.1970	0.1752	£47.97	£36.81
ZH1.5-52	52	110.31	113.31	48	12	0.2040	0.1822	£49.63	£38.05
ZH1.5-53	53	112.43	115.43	48	12	0.2111	0.1893	£49.97	£38.30
ZH1.5-54	54	114.55	117.55	48	12	0.2184	0.1966	£52.18	£40.39
ZH1.5-55	55	116.67	119.67	48	12	0.2259	0.2040	£52.64	£40.42
ZH1.5-56	56	118.79	121.79	48	12	0.2334	0.2116	£59.52	£45.71
ZH1.5-57	57	120.92	123.92	48	12	0.2412	0.2193	£63.94	£49.01
ZH1.5-58	58	123.04	126.04	48	12	0.2490	0.2272	£63.95	£49.05
ZH1.5-59	59	125.16	128.16	48	12	0.2570	0.2351	£63.99	£49.08
ZH1.5-60	60	127.28	130.28	48	12	0.2651	0.2433	£63.99	£49.12
ZH1.5-62	62	131.52	134.52	48	12	0.2817	0.2599	£68.57	£52.64
ZH1.5-64	64	135.76	138.76	48	12	0.2989	0.2770	£73.16	£56.07
ZH1.5-65	65	137.89	140.89	48	12	0.3077	0.2859	£79.19	£60.74
ZH1.5-66	66	140.01	143.01	48	12	0.3166	0.2948	£79.21	£60.75
ZH1.5-68	68	144.25	147.25	48	12	0.3349	0.3131	£84.24	£64.52
ZH1.5-70	70	148.49	151.49	48	15	0.3537	0.3319	£89.61	£68.76
ZH1.5-71	71	150.61	153.61	48	15	0.3633	0.3415	£95.48	£73.25
ZH1.5-73	73	154.86	157.86	48	15	0.3830	0.3611	£108.78	£86.53
ZH1.5-75	75	159.10	162.10	48	15	0.4031	0.3813	£126.07	£103.91

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

2 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIAL TEETH : between 9-120

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	5.201	34.178	2.601	1.858
	K.W.	0.537	3.581	0.272	0.195



RH 45°

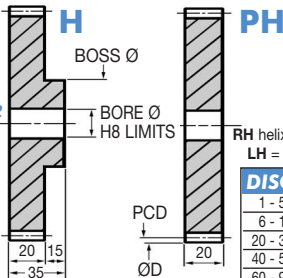


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H2-9	9	28.28	32.28	22	12	0.109	0.079	£18.13	£15.19
H2-10	10	28.28	32.28	22	12	0.109	0.079	£20.16	£17.13
H2-11	11	31.11	35.11	25	12	0.142	0.099	£21.15	£17.99
H2-12	12	33.94	37.94	25	12	0.165	0.121	£21.65	£18.50
H2-13	13	36.77	40.77	30	15	0.196	0.135	£22.78	£19.36
H2-14	14	36.90	43.60	30	15	0.197	0.137	£23.25	£19.85
H2-15	15	42.43	46.43	30	15	0.250	0.189	£24.24	£21.84
H2-16	16	45.25	49.25	30	15	0.280	0.219	£24.77	£22.79
H2-17	17	48.08	52.08	30	15	0.312	0.251	£26.70	£24.21
H2-18	18	50.91	54.91	40	20	0.372	0.263	£27.57	£24.85
H2-19	19	53.74	57.74	40	20	0.407	0.299	£28.55	£25.58
H2-20	20	56.57	60.57	40	20	0.445	0.337	£29.16	£26.70
H2-21	21	59.40	63.40	40	20	0.484	0.376	£30.55	£27.40
H2-22	22	62.23	66.23	50	20	0.607	0.417	£33.19	£28.39
H2-23	23	65.05	69.05	50	20	0.650	0.461	£33.85	£31.16
H2-24	24	67.88	71.88	50	20	0.695	0.506	£35.47	£32.02
H2-25	25	70.71	74.71	50	20	0.742	0.553	£38.68	£33.09
H2-26	26	73.54	77.54	50	20	0.791	0.602	£39.20	£33.99
H2-27	27	76.37	80.37	50	20	0.842	0.653	£41.16	£35.89
H2-28	28	79.20	83.20	50	20	0.895	0.706	£41.91	£38.72
H2-29	29	82.02	86.02	50	20	0.950	0.761	£43.21	£39.04
H2-30	30	84.85	88.85	50	20	1.007	0.817	£43.73	£39.68
H2-31	31	87.68	91.68	50	20	1.065	0.876	£44.39	£40.15

Helical Gears Crossed Axis Steel MOD 2

25.26



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H2-32	32	90.51	94.51	50	20	1.126	0.937	£46.15	£40.75
H2-33	33	93.34	97.34	50	20	1.188	0.999	£47.19	£41.15
H2-34	34	96.17	100.17	50	20	1.253	1.064	£50.09	£42.58
H2-35	35	98.99	102.99	50	20	1.319	1.130	£51.96	£43.36
H2-36	36	101.82	105.82	50	20	1.387	1.198	£53.01	£44.38
H2-37	37	104.65	108.65	50	20	1.458	1.268	£53.90	£46.88
H2-38	38	107.48	111.48	50	20	1.530	1.340	£55.46	£47.66
H2-39	39	110.31	114.31	50	20	1.604	1.415	£60.88	£49.97
H2-40	40	113.14	117.14	50	20	1.680	1.491	£63.41	£51.04
H2-41	41	115.97	119.97	50	20	1.758	1.568	£64.51	£52.08
H2-42	42	118.79	122.79	50	20	1.837	1.648	£66.19	£54.07
H2-43	43	121.62	125.62	50	20	1.919	1.730	£67.80	£55.50
H2-44	44	124.45	128.45	50	20	2.003	1.814	£69.42	£57.13
H2-45	45	127.28	131.28	50	20	2.088	1.899	£72.76	£58.54
H2-46	46	130.11	134.11	50	20	2.176	1.987	£73.96	£58.57
H2-47	47	132.94	136.94	50	20	2.266	2.076	£75.06	£61.09
H2-48	48	135.76	139.76	50	20	2.357	2.167	£75.07	£61.12
H2-49	49	138.59	142.59	50	20	2.450	2.261	£76.99	£61.84
H2-50	50	141.42	145.42	50	20	2.545	2.356	£81.25	£62.46
H2-51	51	144.25	148.25	50	20	2.642	2.453	£89.65	£68.95
H2-52	52	147.08	151.08	50	20	2.741	2.552	£92.19	£72.25
H2-53	53	149.91	153.91	50	20	2.842	2.653	£95.26	£75.85
H2-54	54	152.74	156.74	50	20	2.945	2.756	£105.10	£86.13
H2-55	55	155.56	159.56	50	20	3.050	2.861	£105.11	£86.15
H2-56	56	158.39	162.39	50	20	3.157	2.967	£115.33	£92.23
H2-57	57	161.22	165.22	50	20	3.265	3.076	£124.06	£96.80
H2-58	58	164.05	168.05	50	20	3.376	3.187	£124.07	£97.82
H2-59	59	166.88	170.88	50	20	3.489	3.299	£124.08	£99.30
H2-60	60	169.71	173.71	50	20	3.603	3.414	£124.13	£102.16
H2-62	62	175.36	179.36	50	20	3.838	3.648	£137.69	£105.88
H2-64	64	181.02	185.02	50	20	4.080	3.891	£147.35	£109.32
H2-65	65	183.85	187.85	50	20	4.204	4.015	£147.38	£111.64
H2-66	66	186.68	190.68	50	20	4.330	4.141	£147.41	£114.27
H2-68	68	192.33	196.33	50	20	4.588	4.398	£160.44	£117.94
H2-70	70	197.99	201.99	50	20	4.853	4.664	£171.24	£128.45
H2-71	71	200.82	204.82	50	20	4.989	4.799	£177.54	£131.11
H2-72	72	203.65	207.65	50	20	5.126	4.937	£177.55	£134.15
H2-73	73	206.48	210.48	50	20	5.266	5.077	£177.57	£137.02
H2-74	74	209.30	213.30	50	20	5.407	5.217	£177.58	£140.06
H2-75	75	212.13	216.13	50	20	5.550	5.361	£189.72	£147.12
H2-76	76	214.96	218.96	50	20	5.695	5.506	£189.73	£154.12
H2-78	78	220.62	224.62	50	20	5.992	5.802	£202.84	£161.25
H2-80	80	226.27	230.27	50	20	6.295	6.106	£202.95	£162.72
H2-86	86	243.24	247.24	50	20	7.253	7.064	£234.98	£168.57
H2-90	90	254.56	258.56	50	20	7.930	7.741	£277.68	£175.19
H2-96	96	271.53	275.53	50	20	9.003	8.814	£306.46	£188.29
H2-98	98	277.19	281.19	50	20	9.378	9.191	£321.43	£208.51
H2-100	100	282.84	286.84	50	20	9.757	9.568	£341.08	£230.55
H2-105	105	296.98	300.98	50	20	10.743	10.553	£363.04	£248.03
H2-110	110	311.13	315.13	50	20	11.777	11.588	£383.67	£271.46
H2-115	115	325.27	329.27	50	20	12.858	12.669	£400.62	£294.47
H2-120	120	339.41	343.41	50	20	13.988	13.799	£417.71	£320.49

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

2 MOD

45° H.A.

20° P.A.

STD: White Delrin
(fully machined)

SPECIAL TEETH: between 9 - 70



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.50

Helical Gears Crossed Axis Plastic MOD 2

RH 45°

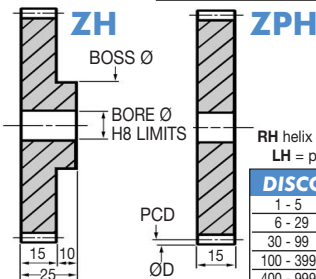


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH2-9	9	28.28	32.28	25	12	0.0178	0.0119	£10.01	£7.70
ZH2-10	10	28.28	32.28	25	12	0.0178	0.0119	£11.15	£8.53
ZH2-11	11	31.11	35.11	27	12	0.0221	0.0150	£11.67	£8.93
ZH2-12	12	33.94	37.94	30	12	0.0275	0.0183	£11.96	£9.18
ZH2-13	13	36.77	40.77	30	12	0.0311	0.0220	£12.62	£9.65
ZH2-14	14	36.90	43.60	30	12	0.0313	0.0221	£14.64	£11.21
ZH2-15	15	42.43	46.43	30	12	0.0393	0.0301	£18.34	£11.67
ZH2-16	16	45.25	49.25	30	12	0.0438	0.0346	£18.69	£14.35
ZH2-17	17	48.08	52.08	35	12	0.0525	0.0394	£20.20	£15.47
ZH2-18	18	50.91	54.91	35	12	0.0576	0.0445	£20.82	£15.95
ZH2-19	19	53.74	57.74	35	12	0.0630	0.0499	£21.60	£16.55
ZH2-20	20	56.57	60.57	35	12	0.0687	0.0556	£25.03	£19.16
ZH2-21	21	59.40	63.40	35	12	0.0746	0.0615	£26.16	£20.08
ZH2-22	22	62.23	66.23	35	12	0.0809	0.0678	£28.48	£21.74
ZH2-23	23	65.05	69.05	35	12	0.0874	0.0743	£28.98	£22.26
ZH2-24	24	67.88	71.88	35	12	0.0943	0.0811	£30.44	£23.30
ZH2-25	25	70.71	74.71	35	12	0.1014	0.0883	£35.11	£26.93
ZH2-26	26	73.54	77.54	45	15	0.1160	0.0942	£35.59	£27.30
ZH2-27	27	76.37	80.37	45	15	0.1238	0.1019	£37.34	£28.66
ZH2-28	28	79.20	83.20	45	15	0.1318	0.1099	£38.05	£29.26
ZH2-29	29	82.02	86.02	45	15	0.1400	0.1182	£39.22	£30.08
ZH2-30	30	84.85	88.85	45	15	0.1486	0.1268	£44.15	£33.85
ZH2-31	31	87.68	91.68	45	15	0.1575	0.1357	£44.79	£34.35

25.28



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

2.5 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	9.715	63.840	4.857	3.470
	K.W.	1.018	6.690	0.508	0.363

RH 45°

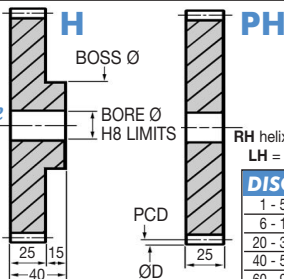


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H2.5-9	9	35.36	40.36	28	15	0.204	0.154	£24.10	£16.22
H2.5-10	10	35.36	40.36	28	15	0.204	0.154	£26.80	£19.04
H2.5-11	11	38.89	43.89	30	15	0.254	0.193	£28.39	£20.87
H2.5-12	12	42.43	47.43	30	15	0.298	0.237	£28.95	£20.92
H2.5-13	13	45.96	50.96	30	15	0.344	0.284	£30.79	£23.42
H2.5-14	14	49.50	54.50	40	20	0.416	0.308	£31.91	£24.45
H2.5-15	15	53.03	58.03	40	20	0.471	0.362	£33.86	£26.32
H2.5-16	16	56.57	61.57	40	20	0.529	0.421	£34.72	£27.21
H2.5-17	17	60.10	65.10	40	20	0.591	0.483	£37.67	£28.13
H2.5-18	18	63.64	68.64	50	20	0.738	0.548	£39.58	£30.00
H2.5-19	19	67.18	72.18	50	20	0.807	0.618	£40.42	£30.79
H2.5-20	20	70.71	75.71	50	20	0.880	0.691	£42.81	£32.78
H2.5-21	21	74.25	79.25	50	20	0.958	0.768	£44.29	£33.72
H2.5-22	22	77.78	82.78	50	20	1.038	0.849	£46.96	£37.21
H2.5-23	23	81.32	86.32	50	20	1.123	0.933	£47.51	£38.40
H2.5-24	24	84.85	89.85	50	20	1.211	1.022	£48.65	£40.68
H2.5-25	25	88.39	93.39	50	20	1.303	1.114	£52.47	£44.16
H2.5-26	26	91.92	96.92	50	20	1.399	1.209	£53.17	£45.21
H2.5-27	27	95.46	100.46	50	20	1.498	1.309	£55.49	£47.01
H2.5-28	28	98.99	103.99	50	20	1.602	1.412	£56.84	£47.66
H2.5-29	29	102.53	107.53	50	20	1.709	1.519	£60.44	£49.24
H2.5-30	30	106.07	111.07	50	20	1.820	1.630	£61.22	£51.93
H2.5-31	31	109.60	114.60	50	20	1.934	1.745	£62.64	£52.82

Helical Gears Crossed Axis Steel MOD 2.5

25.30



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H2.5-32	32	113.14	118.14	50	20	2.053	1.863	£65.57	£55.26
H2.5-33	33	116.67	121.67	50	20	2.174	1.985	£67.37	£56.12
H2.5-34	34	120.21	125.21	50	20	2.300	2.111	£69.75	£57.66
H2.5-35	35	123.74	128.74	50	20	2.430	2.240	£70.73	£60.98
H2.5-36	36	127.28	132.28	50	20	2.563	2.374	£71.47	£61.80
H2.5-37	37	130.81	135.81	50	20	2.700	2.511	£79.19	£63.49
H2.5-38	38	134.35	139.35	50	20	2.841	2.652	£80.59	£64.34
H2.5-39	39	137.89	142.89	50	20	2.986	2.797	£83.29	£68.15
H2.5-40	40	141.42	146.42	50	20	3.134	2.945	£84.49	£68.84
H2.5-41	41	144.96	149.96	50	20	3.286	3.097	£84.50	£69.42
H2.5-42	42	148.49	153.49	50	20	3.442	3.253	£85.85	£70.88
H2.5-43	43	152.03	157.03	50	20	3.602	3.413	£85.88	£75.89
H2.5-44	44	155.56	160.56	50	20	3.765	3.576	£97.24	£80.22
H2.5-45	45	159.10	164.10	50	20	3.932	3.743	£109.67	£81.33
H2.5-46	46	162.63	167.63	50	20	4.103	3.914	£109.77	£84.80
H2.5-47	47	166.17	171.17	50	20	4.278	4.089	£129.36	£93.12
H2.5-48	48	169.71	174.71	50	20	4.457	4.267	£135.07	£94.14
H2.5-49	49	173.24	178.24	50	20	4.639	4.449	£143.20	£98.71
H2.5-50	50	176.78	181.78	50	20	4.825	4.635	£151.98	£100.62
H2.5-51	51	180.31	185.31	50	20	5.014	4.825	£167.15	£105.11
H2.5-52	52	183.85	188.85	50	20	5.208	5.018	£173.76	£109.60
H2.5-53	53	187.38	192.38	50	20	5.405	5.215	£180.41	£112.60
H2.5-54	54	190.92	195.92	50	20	5.606	5.417	£190.35	£128.98
H2.5-55	55	194.45	199.45	50	20	5.810	5.621	£190.43	£132.29
H2.5-56	56	197.99	202.99	50	20	6.019	5.830	£193.82	£138.65
H2.5-57	57	201.53	206.53	50	20	6.232	6.042	£194.23	£158.00
H2.5-58	58	205.06	210.06	50	20	6.447	6.258	£196.03	£161.11
H2.5-59	59	208.60	213.60	50	20	6.667	6.478	£196.46	£166.13
H2.5-60	60	212.13	217.13	50	20	6.890	6.701	£197.53	£172.85
H2.5-62	62	219.20	224.20	50	20	7.349	7.159	£216.05	£195.08
H2.5-64	64	226.27	231.27	50	20	7.822	7.632	£229.54	£198.57
H2.5-65	65	229.81	234.81	50	20	8.064	7.875	£231.19	£203.45
H2.5-66	66	233.35	238.35	50	20	8.311	8.121	£232.60	£205.57
H2.5-68	68	240.42	245.42	50	20	8.814	8.625	£245.96	£210.82
H2.5-70	70	247.49	252.49	50	20	9.332	9.143	£276.00	£222.99
H2.5-71	71	251.02	256.02	50	20	9.597	9.407	£286.56	£231.14
H2.5-72	72	254.56	259.56	50	20	9.866	9.676	£291.68	£239.55
H2.5-73	73	258.09	263.09	50	20	10.137	9.948	£296.09	£244.21
H2.5-74	74	261.63	266.63	50	20	10.414	10.225	£299.42	£248.36
H2.5-75	75	265.17	270.17	50	20	10.694	10.505	£312.95	£252.40
H2.5-76	76	268.70	273.70	50	20	10.977	10.788	£317.80	£256.01
H2.5-78	78	275.77	280.77	50	20	11.556	11.366	£342.19	£260.43
H2.5-80	80	282.84	287.84	50	20	12.149	11.960	£346.16	£279.37
H2.5-86	86	304.06	309.06	50	20	14.020	13.831	£366.53	£296.68
H2.5-90	90	318.20	323.20	50	20	15.342	15.153	£395.90	£319.53
H2.5-96	96	339.41	344.41	50	20	17.438	17.249	£421.62	£340.20
H2.5-98	98	346.48	351.48	50	20	18.166	17.977	£437.15	£355.77
H2.5-100	100	353.55	358.55	50	20	18.910	18.721	£450.01	£365.57

Up to Ø750 mm

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

2.5 MOD 45° H.A.
20° P.A.

STD : White Delrin
(fully machined)

SPECIALS : up to Ø750 mm



RH 45°



LH available
on request.

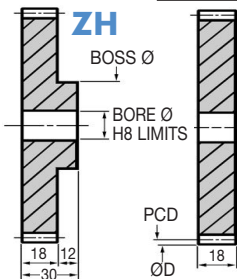
RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.

SPECIALS
ON DEMAND

TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 3.00



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							ZH	ZPH	
ZH2.5-9	9	35.36	40.36	30	12	0.0315	0.0223	£13.32	£10.19
ZH2.5-10	10	35.36	40.36	30	12	0.0315	0.0223	£14.78	£11.35
ZH2.5-11	11	38.89	43.89	30	12	0.0368	0.0276	£15.71	£12.06
ZH2.5-12	12	42.43	47.43	30	12	0.0426	0.0335	£18.18	£13.95
ZH2.5-13	13	45.96	50.96	36	12	0.0537	0.0398	£19.40	£14.83
ZH2.5-14	14	49.50	54.50	36	12	0.0605	0.0466	£20.08	£15.38
ZH2.5-15	15	53.03	58.03	36	12	0.0679	0.0539	£25.60	£19.60
ZH2.5-16	16	56.57	61.57	36	12	0.0757	0.0617	£26.24	£20.11
ZH2.5-17	17	60.10	65.10	36	12	0.0840	0.0701	£32.27	£24.73
ZH2.5-18	18	63.64	68.64	36	12	0.0929	0.0789	£33.91	£25.97
ZH2.5-19	19	67.18	72.18	36	12	0.1022	0.0883	£34.61	£26.55
ZH2.5-20	20	70.71	75.71	45	15	0.1183	0.0965	£36.69	£28.14
ZH2.5-21	21	74.25	79.25	45	15	0.1286	0.1068	£37.98	£29.10
ZH2.5-22	22	77.78	82.78	45	15	0.1395	0.1177	£42.60	£32.70
ZH2.5-23	23	81.32	86.32	45	15	0.1509	0.1290	£43.13	£33.07
ZH2.5-24	24	84.85	89.85	45	15	0.1627	0.1409	£44.16	£33.88
ZH2.5-25	25	88.39	93.39	45	15	0.1751	0.1533	£47.64	£36.55
ZH2.5-26	26	91.92	96.92	50	17	0.1916	0.1648	£53.67	£41.15
ZH2.5-27	27	95.46	100.46	50	17	0.2050	0.1782	£56.00	£42.92
ZH2.5-28	28	98.99	103.99	50	17	0.2189	0.1921	£57.30	£43.98
ZH2.5-29	29	102.53	107.53	50	17	0.2333	0.2065	£67.10	£51.45
ZH2.5-30	30	106.07	111.07	50	17	0.2482	0.2214	£68.04	£52.12
ZH2.5-31	31	109.60	114.60	50	17	0.2636	0.2368	£69.53	£53.38

Helical Gears Crossed Axis Plastic MOD 2.5

25.32



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH2.5-32	32	113.14	118.14	50	17	0.2795	0.2527	£72.78	£55.85
ZH2.5-33	33	116.67	121.67	50	17	0.2959	0.2691	£74.74	£57.35
ZH2.5-34	34	120.21	125.21	50	17	0.3129	0.2861	£84.49	£64.83
ZH2.5-35	35	123.74	128.74	50	17	0.3303	0.3035	£85.67	£65.73
ZH2.5-36	36	127.28	132.28	50	17	0.3482	0.3214	£86.53	£66.43
ZH2.5-37	37	130.81	135.81	50	17	0.3666	0.3398	£95.92	£73.53
ZH2.5-38	38	134.35	139.35	50	17	0.3856	0.3588	£97.58	£74.85
ZH2.5-39	39	137.89	142.89	50	17	0.4050	0.3782	£109.32	£83.81
ZH2.5-40	40	141.42	146.42	65	20	0.4423	0.3959	£110.90	£85.09
ZH2.5-41	41	144.96	149.96	65	20	0.4627	0.4164	£111.62	£86.19
ZH2.5-42	42	148.49	153.49	65	20	0.4837	0.4373	£112.71	£86.45
ZH2.5-43	43	152.03	157.03	65	20	0.5052	0.4588	£127.56	£97.86
ZH2.5-44	44	155.56	160.56	65	20	0.5271	0.4807	£165.24	£126.77
ZH2.5-45	45	159.10	164.10	65	20	0.5496	0.5032	£166.16	£127.48
ZH2.5-46	46	162.63	167.63	65	20	0.5725	0.5262	£195.79	£150.27
ZH2.5-47	47	166.17	171.17	65	20	0.5961	0.5497	£202.58	£156.90
ZH2.5-48	48	169.71	174.71	65	20	0.6201	0.5737	£204.41	£166.36
ZH2.5-49	49	173.24	178.24	65	20	0.6445	0.5982	£216.79	£176.53
ZH2.5-50	50	176.78	181.78	65	20	0.6696	0.6232	£230.08	£184.09
ZH2.5-51	51	180.31	185.31	65	20	0.6950	0.6487	£253.04	£201.82
ZH2.5-52	52	183.85	188.85	65	20	0.7211	0.6747	£263.04	£209.53
ZH2.5-53	53	187.38	192.38	65	20	0.7475	0.7012	£273.10	£213.71
ZH2.5-54	54	190.92	195.92	65	20	0.7746	0.7282	£284.77	£217.94
ZH2.5-55	55	194.45	199.45	65	20	0.8021	0.7557	£288.28	£221.18

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

3 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIALS : up to Ø750 mm



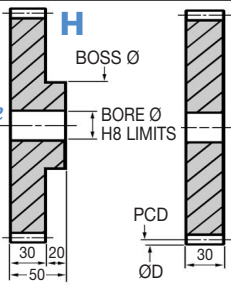
LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	16.175	106.291	8.087	5.777
	K.W.	1.694	11.138	0.847	0.605



PH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H3-9	9	42.43	48.43	34	20	0.343	0.252	£30.11	£26.53
H3-10	10	42.43	48.43	34	20	0.343	0.252	£32.40	£26.60
H3-11	11	46.67	52.67	34	20	0.411	0.321	£34.47	£26.80
H3-12	12	50.91	56.91	34	20	0.486	0.395	£36.36	£32.55
H3-13	13	55.15	61.15	40	20	0.621	0.476	£39.73	£32.98
H3-14	14	59.40	65.40	50	25	0.749	0.523	£40.98	£34.17
H3-15	15	63.64	69.64	50	25	0.843	0.618	£43.79	£36.36
H3-16	16	67.88	73.88	50	25	0.943	0.718	£45.18	£37.60
H3-17	17	72.12	78.12	50	25	1.050	0.825	£49.27	£38.59
H3-18	18	76.37	82.37	50	25	1.164	0.939	£52.08	£40.84
H3-19	19	80.61	86.61	50	25	1.284	1.059	£53.38	£41.87
H3-20	20	84.85	90.85	60	25	1.543	1.185	£57.07	£44.80
H3-21	21	89.10	95.10	60	25	1.676	1.319	£59.13	£45.35
H3-22	22	93.34	99.34	60	25	1.816	1.458	£63.43	£47.72
H3-23	23	97.58	103.58	60	25	1.962	1.604	£66.85	£48.98
H3-24	24	101.82	107.82	60	25	2.114	1.757	£68.20	£54.54
H3-25	25	106.07	112.07	60	25	2.273	1.916	£76.33	£54.76
H3-26	26	110.31	116.31	60	25	2.439	2.081	£77.79	£59.16
H3-27	27	114.55	120.55	60	25	2.611	2.253	£79.91	£67.96
H3-28	28	118.79	124.79	60	25	2.789	2.432	£81.10	£77.70
H3-29	29	123.04	129.04	60	25	2.974	2.617	£83.53	£82.22
H3-30	30	127.28	133.28	60	25	3.166	2.808	£91.04	£88.08
H3-31	31	131.52	137.52	60	25	3.364	3.006	£102.16	£98.51

Helical Gears Crossed Axis Steel MOD 3

25.34



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H3-32	32	135.76	141.76	60	25	3.568	3.210	£120.86	£101.38
H3-33	33	140.01	146.01	60	25	3.810	3.452	£121.83	£106.95
H3-34	34	144.25	150.25	60	25	3.997	3.639	£127.93	£111.94
H3-35	35	148.49	154.49	60	25	4.220	3.863	£132.69	£117.18
H3-36	36	152.74	158.74	60	25	4.451	4.094	£137.39	£117.65
H3-37	37	156.98	162.98	60	25	4.688	4.330	£146.87	£124.17
H3-38	38	161.22	167.22	60	25	4.931	4.574	£151.34	£127.39
H3-39	39	165.46	171.46	60	25	5.181	4.823	£161.08	£132.27
H3-40	40	169.71	175.71	60	25	5.438	5.080	£163.59	£140.86
H3-41	41	173.95	179.95	60	25	5.701	5.343	£166.16	£142.22
H3-42	42	178.19	184.19	60	25	5.970	5.612	£175.71	£146.86
H3-43	43	182.43	188.43	60	25	6.245	5.888	£180.44	£150.87
H3-44	44	186.68	192.68	60	25	6.542	6.184	£190.04	£156.35
H3-45	45	190.92	196.92	60	25	6.817	6.459	£194.33	£163.09
H3-46	46	195.16	201.16	60	25	7.112	6.754	£207.66	£171.38
H3-47	47	199.40	205.40	60	25	7.414	7.056	£208.69	£175.80
H3-48	48	203.65	209.65	60	25	7.723	7.365	£209.31	£181.00
H3-49	49	207.89	213.89	60	25	8.037	7.680	£226.10	£182.87
H3-50	50	212.13	218.13	60	25	8.358	8.001	£233.38	£194.31
H3-51	51	216.37	222.37	60	25	8.686	8.328	£246.42	£199.34
H3-52	52	220.62	226.62	60	25	9.021	8.663	£249.10	£205.95
H3-53	53	224.86	230.86	60	25	9.361	9.004	£251.37	£214.83
H3-54	54	229.10	235.10	60	25	9.708	9.351	£264.15	£231.15
H3-55	55	233.35	239.35	60	25	10.063	9.705	£266.88	£241.89
H3-56	56	237.59	243.59	60	25	10.423	10.065	£280.42	£252.36
H3-57	57	241.83	247.83	60	25	10.789	10.432	£295.96	£263.48
H3-58	58	246.07	252.07	60	25	11.162	10.805	£308.51	£269.95
H3-59	59	250.32	256.32	60	25	11.543	11.185	£310.19	£281.20
H3-60	60	254.56	260.56	60	25	11.928	11.571	£335.16	£290.99
H3-61	61	258.80	264.80	60	25	12.321	11.963	£355.83	£305.67
H3-62	62	263.04	269.04	60	25	12.720	12.362	£367.12	£312.20
H3-63	63	267.29	273.29	60	25	13.126	12.769	£369.06	£325.96
H3-64	64	271.53	277.53	60	25	13.538	13.181	£379.13	£339.62
H3-65	65	275.77	281.77	60	25	13.957	13.599	£380.57	£353.30
H3-68	68	288.50	294.50	60	25	15.252	14.894	£399.05	£372.48
H3-70	70	296.98	302.98	60	25	16.147	15.789	£411.11	£385.28
H3-72	72	305.47	311.47	60	25	17.069	16.711	£420.68	£404.43
H3-75	75	318.20	324.20	60	25	18.501	18.143	£436.71	£417.48
H3-76	76	322.44	328.44	60	25	18.990	18.633	£449.51	£427.37
H3-78	78	330.93	336.93	60	25	19.990	19.633	£465.84	£440.55
H3-80	80	339.41	345.41	60	25	21.015	20.658	£486.04	£454.13
H3-82	82	347.90	353.90	60	25	22.067	21.710	£505.73	£470.12
H3-84	84	356.38	362.38	60	25	23.144	22.787	£523.08	£480.82
H3-86	86	364.87	370.87	60	25	24.248	23.891	£549.10	£493.86
H3-88	88	373.35	379.35	60	25	25.377	25.019	£565.30	£500.34
H3-90	90	381.84	387.84	60	25	26.533	26.175	£588.10	£503.62

Up to Ø750 mm

Helical Gears Crossed Axis Steel MOD 3

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

45° H.A.

3 MOD

20° P.A.

STD : White Delrin
(fully machined)

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 5.00



RH 45°

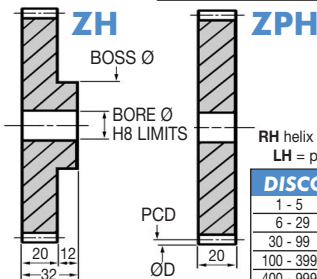


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic MOD 3

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH3-9	9	42.43	48.43	36	15	0.056	0.040	£16.94	£14.63
ZH3-10	10	42.43	48.43	40	15	0.061	0.040	£20.42	£15.60
ZH3-11	11	46.67	52.67	40	15	0.070	0.049	£21.70	£16.64
ZH3-12	12	50.91	56.91	40	15	0.081	0.060	£27.51	£21.09
ZH3-13	13	55.15	61.15	48	15	0.103	0.071	£30.04	£23.07
ZH3-14	14	59.40	65.40	48	15	0.115	0.083	£31.01	£23.80
ZH3-15	15	63.64	69.64	48	15	0.128	0.097	£37.56	£28.84
ZH3-16	16	67.88	73.88	48	15	0.142	0.111	£38.74	£29.68
ZH3-17	17	72.12	78.12	48	15	0.157	0.126	£42.16	£32.27
ZH3-18	18	76.37	82.37	48	15	0.173	0.142	£47.29	£36.24
ZH3-19	19	80.61	86.61	60	20	0.202	0.154	£48.45	£37.15
ZH3-20	20	84.85	90.85	60	20	0.220	0.172	£51.81	£39.72
ZH3-21	21	89.10	95.10	60	20	0.239	0.190	£53.67	£41.17
ZH3-22	22	93.34	99.34	60	20	0.258	0.210	£63.99	£49.12
ZH3-23	23	97.58	103.58	60	20	0.279	0.230	£67.46	£51.77
ZH3-24	24	101.82	107.82	60	20	0.300	0.252	£75.74	£58.07
ZH3-25	25	106.07	112.07	60	20	0.322	0.274	£84.74	£64.99
ZH3-26	26	110.31	116.31	60	20	0.346	0.297	£86.36	£66.24
ZH3-27	27	114.55	120.55	60	20	0.370	0.321	£88.71	£68.08
ZH3-28	28	118.79	124.79	60	20	0.395	0.346	£89.09	£68.40
ZH3-29	29	123.04	129.04	60	20	0.421	0.372	£101.16	£77.60
ZH3-30	30	127.28	133.28	60	20	0.447	0.399	£110.26	£84.59
ZH3-31	31	131.52	137.52	60	20	0.475	0.427	£123.73	£94.91

25.36



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH3-32	32	135.76	141.76	60	20	0.504	0.455	£146.41	£112.34
ZH3-33	33	140.01	146.01	60	20	0.538	0.489	£159.82	£122.66
ZH3-34	34	144.25	150.25	60	20	0.564	0.515	£167.86	£128.78
ZH3-35	35	148.49	154.49	60	20	0.595	0.547	£174.11	£133.60
ZH3-36	36	152.74	158.74	60	20	0.627	0.579	£180.22	£138.30
ZH3-37	37	156.98	162.98	60	20	0.661	0.612	£222.41	£170.64
ZH3-38	38	161.22	167.22	60	20	0.695	0.646	£229.17	£175.79
ZH3-39	39	165.46	171.46	60	20	0.730	0.681	£243.84	£187.11
ZH3-40	40	169.71	175.71	80	20	0.808	0.717	£247.64	£189.99
ZH3-41	41	173.95	179.95	80	20	0.845	0.754	£251.49	£193.03
ZH3-42	42	178.19	184.19	80	20	0.883	0.792	£265.99	£204.06
ZH3-43	43	182.43	188.43	80	20	0.921	0.830	£273.06	£209.63
ZH3-44	44	186.88	192.68	80	20	0.963	0.872	£286.10	£220.75
ZH3-45	45	190.92	196.92	80	20	1.001	0.910	£294.20	£225.78
ZH3-46	46	195.16	201.16	80	20	1.043	0.952	£342.77	£259.04
ZH3-47	47	199.40	205.40	80	20	1.085	0.994	£346.01	£261.49
ZH3-48	48	203.65	209.65	80	20	1.128	1.037	£348.53	£266.93
ZH3-49	49	207.89	213.89	80	20	1.172	1.081	£376.48	£288.89
ZH3-50	50	212.13	218.13	80	20	1.217	1.126	£388.55	£298.18

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10
4 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
 20° P.A. SPECIALS : up to Ø750 mm



Helical Gears Crossed Axis Steel MOD 4

RH 45°

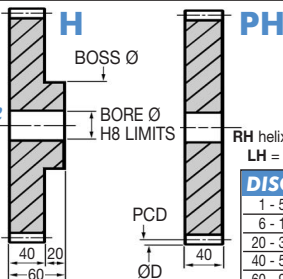
LH available on request.

RH 45°

RH runs with RH
 Popular sizes in stock.

Any two part numbers of this pitch will run together.

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	36.076	237.070	18.038	12.884
	K.W.	3.781	24.844	1.890	1.350



RH helix is standard.
 LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)	PRICE EACH 1 - 5		
							H	PH	
H4-9	9	56.57	64.57	45	25	0.787	0.619	£43.18	£34.77
H4-10	10	56.57	64.57	45	25	0.787	0.619	£54.40	£42.27
H4-11	11	62.23	70.23	50	25	1.006	0.781	£58.18	£45.51
H4-12	12	67.88	75.88	50	25	1.183	0.957	£61.29	£53.85
H4-13	13	73.54	81.54	50	25	1.375	1.150	£66.83	£59.50
H4-14	14	79.20	87.20	50	25	1.583	1.358	£69.21	£60.31
H4-15	15	84.85	92.85	50	25	1.806	1.581	£76.33	£66.85
H4-16	16	90.51	98.51	80	30	2.414	1.753	£77.84	£73.39
H4-17	17	96.17	104.17	80	30	2.668	2.007	£82.58	£77.37
H4-18	18	101.82	109.82	80	30	2.937	2.276	£85.88	£80.49
H4-19	19	107.48	115.48	80	30	3.222	2.561	£89.72	£84.95
H4-20	20	113.14	121.14	80	30	3.522	2.861	£96.38	£88.78
H4-21	21	118.79	126.79	80	30	3.837	3.176	£99.91	£99.36
H4-22	22	124.45	132.45	80	30	4.168	3.507	£112.63	£104.99
H4-23	23	130.11	138.11	80	30	4.514	3.853	£119.33	£108.47
H4-24	24	135.76	143.76	80	30	4.875	4.214	£128.87	£114.58
H4-25	25	141.42	149.42	80	30	5.253	4.592	£147.98	£120.19
H4-26	26	147.08	155.08	80	30	5.645	4.984	£156.90	£129.04
H4-27	27	152.74	160.74	80	30	6.053	5.392	£168.18	£132.84
H4-28	28	158.39	166.39	80	30	6.476	5.815	£173.81	£139.31
H4-29	29	164.05	172.05	80	30	6.914	6.253	£196.74	£145.36
H4-30	30	169.71	177.71	80	30	7.369	6.708	£200.06	£150.46
H4-31	31	175.36	183.36	80	30	7.837	7.176	£203.45	£157.92

25.38



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
 Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H4-32	32	181.02	189.02	80	30	8.322	7.661	£209.15	£164.80
H4-33	33	186.68	194.68	80	30	8.823	8.161	£211.52	£176.66
H4-34	34	192.33	200.33	80	30	9.337	8.676	£218.67	£185.69
H4-35	35	197.99	205.99	80	30	9.868	9.207	£223.48	£190.78
H4-36	36	203.65	211.65	80	30	10.415	9.754	£228.94	£213.46
H4-37	37	209.30	217.30	80	30	10.976	10.315	£240.94	£224.32
H4-38	38	214.96	222.96	80	30	11.553	10.892	£250.80	£240.22
H4-39	39	220.62	228.62	80	30	12.146	11.485	£288.39	£249.12
H4-40	40	226.27	234.27	80	30	12.753	12.092	£295.03	£258.76
H4-41	41	231.93	239.93	80	30	13.376	12.715	£298.89	£266.04
H4-42	42	237.59	245.59	80	30	14.015	13.354	£318.95	£322.38
H4-43	43	243.24	251.24	80	30	14.668	14.007	£386.32	£326.46
H4-44	44	248.90	256.90	80	30	15.338	14.677	£398.85	£353.34
H4-45	45	254.56	262.56	80	30	16.023	15.362	£405.19	£365.37
H4-46	46	260.22	268.22	80	30	16.723	16.062	£436.66	£376.27
H4-47	47	265.87	273.87	80	30	17.438	16.777	£452.19	£384.38
H4-48	48	271.53	279.53	80	30	18.169	17.508	£465.59	£395.52
H4-49	49	277.19	285.19	80	30	18.916	18.255	£487.84	£408.68
H4-50	50	282.84	290.84	80	30	19.676	19.015	£515.71	£425.40
H4-51	51	288.50	296.50	80	30	20.454	19.793	£545.84	£443.30
H4-52	52	294.16	302.16	80	30	21.247	20.585	£584.81	£448.92
H4-53	53	299.81	307.81	80	30	22.053	21.392	£617.32	£456.52
H4-54	54	305.47	313.47	80	30	22.877	22.216	£636.86	£475.40
H4-55	55	311.13	319.13	80	30	23.716	23.055	£672.57	£486.56
H4-56	56	316.78	324.78	80	30	24.569	23.908	£711.58	£495.75
H4-57	57	322.44	330.44	80	30	25.439	24.777	£747.28	£509.10
H4-58	58	328.10	336.10	80	30	26.324	25.663	£779.81	£514.64
H4-59	59	333.75	341.75	80	30	27.223	26.562	£802.56	£522.95
H4-60	60	339.41	347.41	80	30	28.139	27.478	£812.29	£539.74

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

64 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.056	0.375	0.029	0.020
	K.W.	0.006	0.039	0.003	0.002



RH 45°



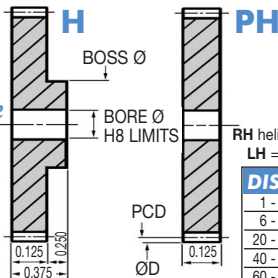
LH available
on request.

RH 45°

RH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H64-10	10	0.221	0.252	0.252	0.093	£9.83	£8.91
H64-11	11	0.243	0.274	0.274	0.093	£9.93	£9.32
H64-12	12	0.265	0.296	0.296	0.093	£10.02	£9.67
H64-13	13	0.287	0.319	0.319	0.093	£10.19	£9.96
H64-14	14	0.309	0.341	0.341	0.093	£10.42	£10.19
H64-15	15	0.331	0.363	0.363	0.093	£10.76	£10.35
H64-16	16	0.354	0.385	0.375	0.093	£10.94	£10.46
H64-17	17	0.376	0.407	0.375	0.093	£11.06	£10.57
H64-18	18	0.398	0.429	0.375	0.125	£11.21	£10.70
H64-19	19	0.420	0.451	0.375	0.125	£11.53	£10.82
H64-20	20	0.442	0.473	0.375	0.125	£11.77	£11.21
H64-21	21	0.464	0.495	0.375	0.125	£11.89	£11.35
H64-22	22	0.486	0.517	0.375	0.125	£12.09	£11.53
H64-23	23	0.508	0.539	0.375	0.125	£12.40	£11.73
H64-24	24	0.530	0.562	0.375	0.125	£12.65	£12.09
H64-25	25	0.552	0.584	0.375	0.125	£12.95	£12.44
H64-26	26	0.575	0.606	0.375	0.125	£13.00	£12.50
H64-27	27	0.597	0.628	0.375	0.125	£13.03	£12.51
H64-28	28	0.619	0.650	0.500	0.187	£13.13	£12.65
H64-29	29	0.641	0.672	0.500	0.187	£13.27	£12.68
H64-30	30	0.663	0.694	0.500	0.187	£13.31	£12.78
H64-31	31	0.685	0.716	0.500	0.187	£13.40	£12.84
H64-32	32	0.707	0.738	0.500	0.187	£13.46	£12.95

Helical Gears Crossed Axis Steel DP 64

25.40



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H64-33	33	0.729	0.760	0.500	0.187	£13.61	£13.09
H64-34	34	0.751	0.783	0.500	0.187	£13.68	£13.14
H64-35	35	0.773	0.805	0.500	0.187	£13.77	£13.30
H64-36	36	0.795	0.827	0.500	0.187	£13.95	£13.37
H64-37	37	0.818	0.849	0.500	0.187	£13.96	£13.41
H64-38	38	0.840	0.871	0.500	0.187	£14.08	£13.48
H64-39	39	0.862	0.893	0.500	0.187	£14.15	£13.59
H64-40	40	0.884	0.915	0.500	0.187	£14.27	£13.68
H64-41	41	0.906	0.937	0.500	0.187	£14.33	£13.70
H64-42	42	0.928	0.959	0.500	0.187	£14.36	£13.75
H64-43	43	0.950	0.981	0.500	0.187	£14.46	£13.82
H64-44	44	0.972	1.004	0.500	0.187	£14.64	£13.95
H64-45	45	0.994	1.026	0.500	0.187	£14.77	£14.05
H64-46	46	1.016	1.048	0.500	0.187	£14.90	£14.13
H64-47	47	1.039	1.070	0.500	0.187	£14.97	£14.20
H64-48	48	1.061	1.092	0.500	0.187	£15.00	£14.20
H64-49	49	1.083	1.114	0.500	0.187	£15.12	£14.27
H64-50	50	1.105	1.136	0.500	0.187	£15.18	£14.32
H64-51	51	1.127	1.158	0.500	0.187	£15.19	£14.33
H64-52	52	1.149	1.180	0.500	0.187	£15.36	£14.38
H64-53	53	1.171	1.202	0.500	0.187	£15.40	£14.39
H64-54	54	1.193	1.224	0.500	0.187	£15.41	£14.44
H64-55	55	1.215	1.246	0.500	0.187	£15.61	£14.46
H64-56	56	1.237	1.269	0.500	0.187	£15.83	£14.47
H64-57	57	1.260	1.291	0.500	0.187	£16.77	£14.50
H64-58	58	1.282	1.313	0.500	0.187	£16.77	£14.51
H64-59	59	1.304	1.335	0.500	0.187	£16.78	£14.63
H64-60	60	1.326	1.357	0.500	0.187	£16.81	£14.65
H64-61	61	1.348	1.379	0.500	0.187	£16.83	£14.67
H64-62	62	1.370	1.401	0.500	0.187	£17.81	£15.47
H64-63	63	1.392	1.423	0.500	0.187	£19.46	£16.24
H64-64	64	1.414	1.445	0.500	0.187	£20.56	£17.80
H64-65	65	1.436	1.468	0.500	0.187	£20.57	£17.83
H64-68	68	1.503	1.534	0.500	0.187	£20.59	£17.87
H64-70	70	1.547	1.578	0.500	0.187	£21.85	£19.00
H64-72	72	1.591	1.622	0.500	0.187	£23.26	£20.29
H64-75	75	1.657	1.689	0.500	0.187	£23.30	£20.32
H64-77	77	1.701	1.733	0.500	0.187	£23.37	£20.34
H64-80	80	1.768	1.799	0.500	0.187	£23.39	£20.36
H64-84	84	1.856	1.887	0.500	0.187	£23.43	£20.42
H64-86	86	1.900	1.932	0.500	0.187	£24.63	£21.37
H64-88	88	1.945	1.976	0.500	0.187	£24.67	£21.39
H64-90	90	1.989	2.020	0.500	0.187	£24.72	£21.42
H64-96	96	2.121	2.153	0.500	0.187	£24.73	£21.48
H64-100	100	2.210	2.241	0.625	0.250	£26.27	£22.79
H64-120	120	2.652	2.683	0.625	0.250	£27.91	£24.22

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

48 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.125	0.823	0.626	0.449
	K.W.	0.013	0.087	0.065	0.047



RH 45°



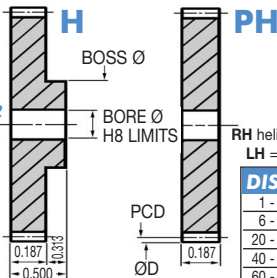
LH available
on request.

RH 45°

RH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	H	PH
H48-10	10	0.295	0.336	0.312	0.125	£10.42	£8.83	
H48-11	11	0.324	0.366	0.312	0.125	£10.72	£9.18	
H48-12	12	0.354	0.395	0.312	0.125	£10.76	£9.32	
H48-13	13	0.383	0.425	0.312	0.125	£10.97	£9.55	
H48-14	14	0.412	0.454	0.312	0.125	£11.15	£9.61	
H48-15	15	0.442	0.484	0.375	0.187	£11.30	£9.72	
H48-16	16	0.471	0.513	0.375	0.187	£11.49	£9.82	
H48-17	17	0.501	0.543	0.375	0.187	£11.50	£9.84	
H48-18	18	0.530	0.572	0.437	0.187	£11.73	£9.97	
H48-19	19	0.560	0.601	0.437	0.187	£11.84	£10.02	
H48-20	20	0.589	0.631	0.500	0.187	£12.06	£10.22	
H48-21	21	0.619	0.660	0.500	0.187	£12.15	£10.24	
H48-22	22	0.648	0.690	0.500	0.187	£12.40	£10.30	
H48-23	23	0.678	0.719	0.500	0.187	£12.56	£10.42	
H48-24	24	0.707	0.749	0.500	0.187	£12.69	£10.47	
H48-25	25	0.737	0.778	0.500	0.187	£12.83	£10.65	
H48-26	26	0.766	0.808	0.500	0.187	£13.30	£10.80	
H48-27	27	0.795	0.837	0.500	0.187	£13.63	£10.95	
H48-28	28	0.825	0.867	0.500	0.187	£13.64	£11.28	
H48-29	29	0.854	0.896	0.500	0.187	£13.98	£11.35	
H48-30	30	0.884	0.926	0.500	0.250	£14.33	£11.66	
H48-31	31	0.913	0.955	0.500	0.250	£14.50	£11.81	
H48-32	32	0.943	0.984	0.500	0.250	£14.77	£12.09	

Helical Gears Crossed Axis Steel DP 48

25.42



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H48-33	33	0.972	1.014	0.500	0.250	£14.83	£12.15
H48-34	34	1.002	1.043	0.500	0.250	£15.23	£12.22
H48-35	35	1.031	1.073	0.500	0.250	£15.45	£12.40
H48-36	36	1.061	1.102	0.500	0.250	£15.55	£12.51
H48-37	37	1.090	1.132	0.500	0.250	£15.77	£12.75
H48-38	38	1.120	1.161	0.500	0.250	£15.87	£12.83
H48-39	39	1.149	1.191	0.500	0.250	£16.12	£13.03
H48-40	40	1.179	1.220	0.500	0.250	£16.19	£13.14
H48-41	41	1.208	1.250	0.500	0.250	£16.27	£13.27
H48-42	42	1.237	1.279	0.500	0.250	£16.38	£13.37
H48-43	43	1.267	1.309	0.500	0.250	£16.60	£13.59
H48-44	44	1.296	1.338	0.500	0.250	£16.72	£13.68
H48-45	45	1.326	1.367	0.500	0.250	£16.92	£13.93
H48-46	46	1.355	1.397	0.500	0.250	£16.95	£13.98
H48-47	47	1.385	1.426	0.500	0.250	£16.96	£14.02
H48-48	48	1.414	1.456	0.500	0.250	£16.98	£14.05
H48-49	49	1.444	1.485	0.500	0.250	£17.06	£14.13
H48-50	50	1.473	1.515	0.500	0.250	£17.09	£14.15
H48-51	51	1.503	1.544	0.500	0.250	£17.13	£14.20
H48-52	52	1.532	1.574	0.500	0.250	£17.38	£14.46
H48-53	53	1.562	1.603	0.500	0.250	£17.44	£14.50
H48-54	54	1.591	1.633	0.500	0.250	£17.76	£14.77
H48-55	55	1.620	1.662	0.500	0.250	£17.90	£15.04
H48-56	56	1.650	1.692	0.500	0.250	£17.98	£15.07
H48-57	57	1.679	1.721	0.500	0.250	£18.23	£15.40
H48-58	58	1.709	1.751	0.500	0.250	£18.25	£15.42
H48-59	59	1.738	1.780	0.500	0.250	£18.30	£15.47
H48-60	60	1.768	1.809	0.500	0.250	£18.71	£15.51
H48-61	61	1.797	1.839	0.500	0.250	£18.76	£15.57
H48-62	62	1.827	1.868	0.500	0.250	£19.27	£15.76
H48-63	63	1.856	1.898	0.500	0.250	£19.46	£15.90
H48-64	64	1.886	1.927	0.500	0.250	£19.69	£16.46
H48-65	65	1.915	1.957	0.500	0.250	£19.71	£16.49
H48-68	68	2.003	2.045	0.750	0.312	£19.73	£17.69
H48-70	70	2.062	2.104	0.750	0.312	£20.42	£17.76
H48-72	72	2.121	2.163	0.750	0.312	£22.99	£20.31
H48-75	75	2.210	2.251	0.750	0.312	£23.84	£20.34
H48-77	77	2.269	2.310	0.750	0.312	£23.92	£20.35
H48-80	80	2.357	2.399	0.750	0.312	£24.73	£20.37
H48-84	84	2.475	2.517	0.750	0.312	£24.77	£20.42
H48-86	86	2.534	2.575	0.750	0.312	£27.18	£21.52
H48-88	88	2.593	2.634	0.750	0.312	£27.69	£21.60
H48-90	90	2.652	2.693	0.750	0.312	£29.27	£21.62
H48-96	96	2.828	2.870	0.750	0.312	£30.72	£21.65
H48-100	100	2.946	2.988	0.750	0.312	£33.47	£23.88
H48-120	120	3.536	3.577	0.750	0.375	£36.91	£27.60
H48-140	140	4.125	4.166	0.750	0.375	£39.96	£31.99

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

48 DP

45° H.A.
20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 250



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.03



RH 45°

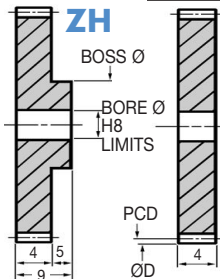


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic DP 48

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	ZH	ZPH
ZH48-10	10	0.295	0.336	0.336	2	£5.48	£4.04	
ZH48-11	11	0.324	0.366	0.366	2	£5.49	£4.07	
ZH48-12	12	0.354	0.395	0.395	2	£5.50	£4.08	
ZH48-13	13	0.383	0.425	0.393	3	£5.52	£4.21	
ZH48-14	14	0.412	0.454	0.393	3	£5.54	£4.24	
ZH48-15	15	0.442	0.484	0.393	3	£5.67	£4.27	
ZH48-16	16	0.471	0.513	0.393	3	£5.79	£4.36	
ZH48-17	17	0.501	0.543	0.393	3	£5.85	£4.38	
ZH48-18	18	0.530	0.572	0.393	3	£5.90	£4.44	
ZH48-19	19	0.560	0.601	0.393	3	£6.04	£4.49	
ZH48-20	20	0.589	0.631	0.393	3	£6.06	£4.61	
ZH48-21	21	0.619	0.660	0.393	3	£6.20	£4.62	
ZH48-22	22	0.648	0.690	0.551	4	£6.30	£4.75	
ZH48-23	23	0.678	0.719	0.551	4	£6.38	£4.79	
ZH48-24	24	0.707	0.749	0.551	4	£6.39	£4.83	
ZH48-25	25	0.737	0.778	0.551	4	£6.68	£4.85	
ZH48-26	26	0.766	0.808	0.551	4	£6.76	£5.09	
ZH48-27	27	0.795	0.837	0.551	4	£6.77	£5.19	
ZH48-28	28	0.825	0.867	0.551	4	£7.02	£5.22	
ZH48-29	29	0.854	0.896	0.551	4	£7.14	£5.33	
ZH48-30	30	0.884	0.926	0.551	4	£7.31	£5.52	
ZH48-31	31	0.913	0.955	0.551	4	£7.38	£5.54	
ZH48-32	32	0.943	0.984	0.551	4	£7.40	£5.67	

25.44



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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5 ZH	ZPH
ZH48-33	33	0.972	1.014	0.551	4	£7.64	£5.72
ZH48-34	34	1.002	1.043	0.551	4	£7.73	£5.85
ZH48-35	35	1.031	1.073	0.551	4	£7.75	£5.90
ZH48-36	36	1.061	1.102	0.551	4	£7.87	£5.95
ZH48-37	37	1.090	1.132	0.551	4	£8.73	£6.06
ZH48-38	38	1.120	1.161	0.551	4	£8.88	£6.72
ZH48-39	39	1.149	1.191	0.551	4	£8.93	£6.75
ZH48-40	40	1.179	1.220	0.551	4	£8.96	£6.77
ZH48-41	41	1.208	1.250	0.551	4	£9.04	£6.87
ZH48-42	42	1.237	1.279	0.551	4	£9.18	£6.95
ZH48-43	43	1.267	1.309	0.551	4	£9.26	£7.02
ZH48-44	44	1.296	1.338	0.551	4	£9.30	£7.04
ZH48-45	45	1.326	1.367	0.551	4	£9.32	£7.09
ZH48-46	46	1.355	1.397	0.551	4	£9.38	£7.10
ZH48-47	47	1.385	1.426	0.551	4	£9.40	£7.12
ZH48-48	48	1.414	1.456	0.551	4	£9.47	£7.14
ZH48-49	49	1.444	1.485	0.551	4	£9.47	£7.40
ZH48-50	50	1.473	1.515	0.629	5	£9.48	£7.45
ZH48-51	51	1.503	1.544	0.629	5	£9.49	£7.49
ZH48-52	52	1.532	1.574	0.629	5	£10.95	£8.36
ZH48-53	53	1.562	1.603	0.629	5	£10.97	£8.38
ZH48-54	54	1.591	1.633	0.629	5	£11.12	£8.53
ZH48-55	55	1.620	1.662	0.629	5	£11.28	£8.59
ZH48-56	56	1.650	1.692	0.629	5	£11.49	£8.62
ZH48-57	57	1.679	1.721	0.629	5	£11.50	£8.73
ZH48-58	58	1.709	1.751	0.629	5	£11.51	£8.77
ZH48-59	59	1.738	1.780	0.629	5	£11.74	£8.81
ZH48-60	60	1.768	1.809	0.629	5	£11.76	£9.02
ZH48-61	61	1.797	1.839	0.629	5	£11.96	£9.04
ZH48-62	62	1.827	1.868	0.629	5	£12.22	£9.30
ZH48-63	63	1.856	1.898	0.629	5	£12.62	£9.31
ZH48-64	64	1.886	1.927	0.629	5	£14.83	£9.32
ZH48-65	65	1.915	1.957	0.629	5	£14.90	£11.28
ZH48-68	68	2.003	2.045	0.629	5	£15.42	£11.47
ZH48-70	70	2.062	2.104	0.629	5	£17.34	£11.76
ZH48-72	72	2.121	2.163	0.629	5	£17.99	£13.30
ZH48-75	75	2.210	2.251	0.629	5	£20.55	£13.78
ZH48-77	77	2.269	2.310	0.629	5	£21.15	£15.71
ZH48-80	80	2.357	2.399	0.629	5	£21.24	£16.23
ZH48-84	84	2.475	2.517	0.708	6	£23.30	£16.25
ZH48-86	86	2.534	2.575	0.708	6	£23.80	£17.87
ZH48-88	88	2.593	2.634	0.708	6	£25.22	£18.18
ZH48-90	90	2.652	2.693	0.708	6	£26.31	£19.59
ZH48-96	96	2.828	2.870	0.708	6	£28.69	£20.11
ZH48-100	100	2.946	2.988	0.708	6	£37.08	£21.98
ZH48-120	120	3.536	3.577	0.787	8	£37.20	£28.58
ZH48-128	128	3.771	3.813	0.787	8	£48.45	£39.79

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10
 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin
 40 DP 20° P.A. SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.208	1.370	0.104	0.074
	K.W.	0.021	0.143	0.011	0.008



RH 45°

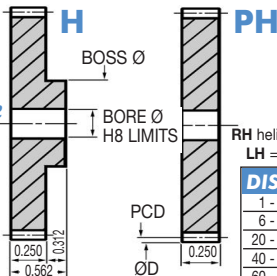


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H40-9	9	0.318	0.368	0.368	0.187	£11.12	£8.86
H40-10	10	0.354	0.404	0.404	0.187	£11.15	£8.87
H40-11	11	0.389	0.439	0.439	0.187	£11.28	£8.97
H40-12	12	0.424	0.474	0.474	0.187	£11.30	£9.03
H40-13	13	0.460	0.510	0.500	0.187	£11.50	£9.22
H40-14	14	0.495	0.545	0.500	0.187	£11.85	£9.38
H40-15	15	0.530	0.580	0.500	0.187	£11.89	£9.49
H40-16	16	0.566	0.616	0.500	0.187	£11.91	£9.51
H40-17	17	0.601	0.651	0.500	0.187	£12.15	£9.72
H40-18	18	0.636	0.686	0.500	0.187	£12.44	£9.96
H40-19	19	0.672	0.722	0.500	0.187	£12.65	£10.02
H40-20	20	0.707	0.757	0.500	0.187	£12.69	£10.19
H40-21	21	0.742	0.792	0.500	0.187	£13.14	£10.47
H40-22	22	0.778	0.828	0.500	0.187	£13.68	£10.94
H40-23	23	0.813	0.863	0.500	0.187	£13.99	£11.21
H40-24	24	0.849	0.899	0.500	0.187	£14.25	£11.35
H40-25	25	0.884	0.934	0.500	0.187	£14.61	£11.65
H40-26	26	0.919	0.969	0.500	0.187	£14.73	£11.81
H40-27	27	0.955	1.005	0.625	0.250	£14.83	£11.85
H40-28	28	0.990	1.040	0.625	0.250	£15.33	£12.22
H40-29	29	1.025	1.075	0.625	0.250	£15.45	£12.34
H40-30	30	1.061	1.111	0.625	0.250	£15.65	£12.50
H40-31	31	1.096	1.146	0.625	0.250	£15.82	£12.66

Helical Gears Crossed Axis Steel DP 40

25.46



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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H40-32	32	1.131	1.181	0.625	0.250	£16.13	£12.84
H40-33	33	1.167	1.217	0.625	0.250	£16.22	£12.95
H40-34	34	1.202	1.252	0.625	0.250	£16.35	£13.02
H40-35	35	1.237	1.287	0.625	0.250	£16.44	£13.13
H40-36	36	1.273	1.323	0.625	0.250	£16.56	£13.26
H40-37	37	1.308	1.358	0.625	0.250	£16.60	£13.27
H40-38	38	1.344	1.394	0.625	0.250	£16.77	£13.40
H40-39	39	1.379	1.429	0.625	0.250	£16.83	£13.46
H40-40	40	1.414	1.464	0.625	0.250	£16.95	£13.59
H40-41	41	1.450	1.500	0.625	0.250	£17.13	£13.64
H40-42	42	1.485	1.535	0.625	0.250	£17.34	£13.93
H40-43	43	1.520	1.570	0.625	0.250	£17.48	£13.98
H40-44	44	1.556	1.606	0.625	0.250	£17.76	£14.15
H40-45	45	1.591	1.641	0.625	0.250	£17.99	£14.38
H40-46	46	1.626	1.676	0.625	0.250	£18.18	£14.61
H40-47	47	1.662	1.712	0.625	0.250	£18.25	£14.65
H40-48	48	1.697	1.747	0.625	0.250	£18.30	£14.67
H40-49	49	1.732	1.782	0.625	0.250	£19.07	£15.03
H40-50	50	1.768	1.818	0.625	0.250	£20.42	£15.06
H40-51	51	1.803	1.853	0.625	0.250	£20.46	£15.12
H40-52	52	1.838	1.888	0.625	0.250	£20.61	£15.19
H40-53	53	1.874	1.924	0.625	0.250	£20.66	£15.23
H40-54	54	1.909	1.959	0.625	0.250	£20.73	£16.60
H40-55	55	1.945	1.995	0.625	0.250	£22.06	£17.63
H40-56	56	1.980	2.030	0.625	0.250	£22.12	£17.67
H40-57	57	2.015	2.065	0.750	0.250	£22.74	£18.05
H40-58	58	2.051	2.101	0.750	0.250	£22.81	£18.09
H40-59	59	2.086	2.136	0.750	0.250	£23.08	£18.12
H40-60	60	2.121	2.171	0.750	0.250	£23.26	£18.13
H40-61	61	2.157	2.207	0.750	0.250	£23.54	£18.17
H40-62	62	2.192	2.242	0.750	0.250	£23.84	£19.04
H40-63	63	2.227	2.277	0.750	0.250	£24.22	£19.36
H40-64	64	2.263	2.313	0.750	0.250	£24.26	£19.46
H40-66	66	2.333	2.383	0.750	0.250	£24.37	£19.54
H40-68	68	2.404	2.454	0.750	0.250	£24.45	£19.59
H40-70	70	2.475	2.525	0.750	0.250	£24.77	£19.77
H40-75	75	2.652	2.702	0.750	0.250	£25.66	£21.65
H40-76	76	2.687	2.737	0.750	0.250	£25.69	£22.78
H40-80	80	2.828	2.878	0.750	0.250	£26.86	£24.22
H40-86	86	3.041	3.091	0.750	0.312	£28.48	£25.59
H40-88	88	3.111	3.161	0.750	0.312	£28.57	£25.62
H40-90	90	3.182	3.232	0.750	0.312	£30.55	£27.21
H40-96	96	3.394	3.444	0.750	0.312	£33.41	£29.52
H40-100	100	3.536	3.586	0.750	0.375	£35.67	£31.26
H40-112	112	3.960	4.010	0.750	0.375	£42.20	£33.64
H40-120	120	4.243	4.293	0.750	0.375	£42.24	£33.76

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

40 DP

45° H.A.
20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 118

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.06



RH 45°



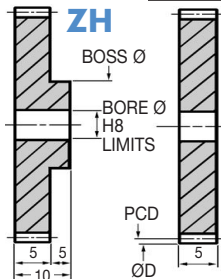
LH available on request.

RH 45°

RH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	ZH	ZPH
ZH40-9	9	0.318	0.368	0.368	3	£6.04	£4.21	
ZH40-10	10	0.354	0.404	0.404	3	£6.06	£4.22	
ZH40-11	11	0.389	0.439	0.439	3	£6.07	£4.24	
ZH40-12	12	0.424	0.474	0.474	3	£6.08	£4.27	
ZH40-13	13	0.460	0.510	0.510	3	£6.10	£4.38	
ZH40-14	14	0.495	0.545	0.545	3	£6.14	£4.54	
ZH40-15	15	0.530	0.580	0.580	3	£6.14	£4.56	
ZH40-16	16	0.566	0.616	0.616	3	£6.15	£4.57	
ZH40-17	17	0.601	0.651	0.651	3	£6.16	£4.61	
ZH40-18	18	0.636	0.686	0.551	4	£6.20	£4.75	
ZH40-19	19	0.672	0.722	0.551	4	£6.32	£4.79	
ZH40-20	20	0.707	0.757	0.551	4	£6.38	£4.83	
ZH40-21	21	0.742	0.792	0.551	4	£6.61	£5.06	
ZH40-22	22	0.778	0.828	0.551	4	£6.87	£5.25	
ZH40-23	23	0.813	0.863	0.551	4	£7.02	£5.33	
ZH40-24	24	0.849	0.899	0.551	4	£7.09	£5.48	
ZH40-25	25	0.884	0.934	0.551	4	£7.28	£5.54	
ZH40-26	26	0.919	0.969	0.551	4	£7.38	£5.67	
ZH40-27	27	0.955	1.005	0.551	4	£7.40	£5.72	
ZH40-28	28	0.990	1.040	0.551	4	£7.70	£5.85	
ZH40-29	29	1.025	1.075	0.551	4	£7.73	£5.90	
ZH40-30	30	1.061	1.111	0.551	4	£7.82	£6.04	
ZH40-31	31	1.096	1.146	0.551	4	£7.94	£6.06	

Helical Gears Crossed Axis Plastic DP 40

25.48



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH40-32	32	1.131	1.181	0.551	4	£8.88	£6.77
ZH40-33	33	1.167	1.217	0.551	4	£8.93	£6.87
ZH40-34	34	1.202	1.252	0.551	4	£8.96	£6.87
ZH40-35	35	1.237	1.287	0.551	4	£9.04	£6.95
ZH40-36	36	1.273	1.323	0.551	4	£9.15	£6.99
ZH40-37	37	1.308	1.358	0.551	4	£9.18	£7.02
ZH40-38	38	1.344	1.394	0.551	4	£9.26	£7.04
ZH40-39	39	1.379	1.429	0.629	5	£9.30	£7.09
ZH40-40	40	1.414	1.464	0.629	5	£9.32	£7.14
ZH40-41	41	1.450	1.500	0.629	5	£9.47	£7.27
ZH40-42	42	1.485	1.535	0.629	5	£9.60	£7.36
ZH40-43	43	1.520	1.570	0.629	5	£9.65	£7.38
ZH40-44	44	1.556	1.606	0.629	5	£11.12	£8.53
ZH40-45	45	1.591	1.641	0.629	5	£11.33	£8.62
ZH40-46	46	1.626	1.676	0.629	5	£11.47	£8.73
ZH40-47	47	1.662	1.712	0.629	5	£11.50	£8.81
ZH40-48	48	1.697	1.747	0.629	5	£11.51	£9.21
ZH40-49	49	1.732	1.782	0.629	5	£11.96	£9.77
ZH40-50	50	1.768	1.818	0.629	5	£12.75	£9.82
ZH40-51	51	1.803	1.853	0.629	5	£12.78	£9.94
ZH40-52	52	1.838	1.888	0.629	5	£12.79	£9.96
ZH40-53	53	1.874	1.924	0.629	5	£12.94	£10.01
ZH40-54	54	1.909	1.959	0.629	5	£13.03	£12.77
ZH40-55	55	1.945	1.995	0.629	5	£16.73	£12.78
ZH40-56	56	1.980	2.030	0.629	5	£17.18	£13.14
ZH40-57	57	2.015	2.065	0.629	5	£17.28	£13.27
ZH40-58	58	2.051	2.101	0.629	5	£17.43	£13.32
ZH40-59	59	2.086	2.136	0.629	5	£17.61	£13.48
ZH40-60	60	2.121	2.171	0.629	5	£17.80	£13.64
ZH40-61	61	2.157	2.207	0.629	5	£17.99	£13.78
ZH40-62	62	2.192	2.242	0.629	5	£18.37	£14.05
ZH40-63	63	2.227	2.277	0.629	5	£18.47	£14.13
ZH40-64	64	2.263	2.313	0.629	5	£20.55	£15.38
ZH40-66	66	2.333	2.383	0.629	5	£20.91	£16.04
ZH40-68	68	2.404	2.454	0.629	5	£21.24	£16.25
ZH40-70	70	2.475	2.525	0.629	6	£22.00	£16.85
ZH40-75	75	2.652	2.702	0.629	6	£22.05	£16.92
ZH40-76	76	2.687	2.737	0.787	8	£24.39	£18.69
ZH40-80	80	2.828	2.878	0.787	8	£25.93	£19.81
ZH40-86	86	3.041	3.091	0.787	8	£25.95	£19.85
ZH40-88	88	3.111	3.161	0.787	8	£27.75	£21.27
ZH40-90	90	3.182	3.232	0.787	8	£30.34	£23.26
ZH40-96	96	3.394	3.444	0.787	8	£35.97	£27.62
ZH40-100	100	3.536	3.586	0.787	8	£46.83	£35.91
ZH40-112	112	3.960	4.010	0.787	8	£46.86	£35.96

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

32 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.390	2.559	0.195	0.139
	K.W.	0.041	0.269	0.020	0.014



RH 45°

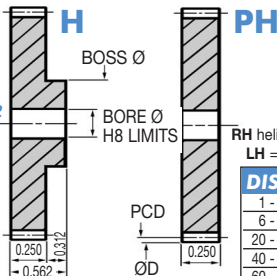


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	H	PH
H32-9	9	0.442	0.504	0.468	0.250	£12.43	£9.72	
H32-10	10	0.442	0.504	0.468	0.250	£12.44	£9.94	
H32-11	11	0.486	0.549	0.468	0.250	£13.19	£10.30	
H32-12	12	0.530	0.593	0.500	0.250	£13.31	£10.32	
H32-13	13	0.575	0.637	0.500	0.250	£13.61	£10.72	
H32-14	14	0.619	0.681	0.500	0.250	£13.75	£10.82	
H32-15	15	0.663	0.725	0.500	0.250	£13.99	£11.21	
H32-16	16	0.707	0.770	0.500	0.250	£14.15	£11.35	
H32-17	17	0.751	0.814	0.500	0.250	£14.33	£11.49	
H32-18	18	0.795	0.858	0.500	0.312	£14.72	£11.81	
H32-19	19	0.840	0.902	0.500	0.312	£14.82	£11.91	
H32-20	20	0.884	0.946	0.625	0.312	£15.02	£12.22	
H32-21	21	0.928	0.991	0.625	0.312	£15.14	£12.34	
H32-22	22	0.972	1.035	0.625	0.312	£15.33	£12.50	
H32-23	23	1.016	1.079	0.625	0.312	£15.49	£12.68	
H32-24	24	1.061	1.123	0.625	0.312	£15.55	£12.69	
H32-25	25	1.105	1.167	0.625	0.375	£15.70	£12.83	
H32-26	26	1.149	1.212	0.625	0.375	£15.76	£12.93	
H32-27	27	1.193	1.256	0.750	0.375	£15.77	£13.00	
H32-28	28	1.237	1.300	0.750	0.375	£15.83	£13.13	
H32-29	29	1.282	1.344	0.750	0.375	£15.87	£13.19	
H32-30	30	1.326	1.388	0.750	0.375	£15.93	£13.31	
H32-31	31	1.370	1.433	0.750	0.375	£15.95	£13.40	

Helical Gears Crossed Axis Steel DP32

25.50



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H32-32	32	1.414	1.477	0.750	0.375	£16.04	£13.54
H32-33	33	1.458	1.521	0.750	0.375	£16.12	£13.61
H32-34	34	1.503	1.565	0.750	0.375	£16.13	£13.68
H32-35	35	1.547	1.609	0.750	0.375	£16.19	£13.82
H32-36	36	1.591	1.653	0.750	0.375	£16.22	£13.93
H32-37	37	1.635	1.698	0.750	0.375	£16.27	£13.96
H32-38	38	1.679	1.742	0.750	0.375	£16.29	£13.98
H32-39	39	1.724	1.786	0.750	0.375	£16.35	£13.99
H32-40	40	1.768	1.830	1.000	0.500	£16.44	£14.05
H32-41	41	1.812	1.874	1.000	0.500	£16.48	£14.46
H32-42	42	1.856	1.919	1.000	0.500	£16.72	£14.90
H32-43	43	1.900	1.963	1.000	0.500	£16.98	£15.14
H32-44	44	1.945	2.007	1.000	0.500	£17.44	£15.38
H32-45	45	1.989	2.051	1.000	0.500	£18.66	£15.83
H32-46	46	2.033	2.095	1.000	0.500	£19.00	£16.24
H32-47	47	2.077	2.140	1.000	0.500	£19.33	£16.73
H32-48	48	2.121	2.184	1.000	0.500	£19.36	£16.77
H32-49	49	2.166	2.228	1.000	0.500	£20.08	£16.98
H32-50	50	2.210	2.272	1.000	0.500	£20.32	£17.63
H32-51	51	2.254	2.316	1.000	0.500	£20.35	£17.67
H32-52	52	2.298	2.361	1.000	0.500	£20.37	£17.73
H32-53	53	2.342	2.405	1.000	0.500	£20.42	£17.76
H32-54	54	2.386	2.449	1.000	0.500	£20.87	£19.02
H32-55	55	2.431	2.493	1.000	0.500	£20.90	£19.04
H32-56	56	2.475	2.537	1.000	0.500	£20.92	£19.07
H32-57	57	2.519	2.582	1.000	0.500	£21.42	£19.82
H32-58	58	2.563	2.626	1.000	0.500	£21.44	£19.85
H32-59	59	2.607	2.670	1.000	0.500	£21.52	£19.92
H32-60	60	2.652	2.714	1.000	0.500	£21.58	£19.94
H32-61	61	2.696	2.758	1.000	0.500	£21.59	£19.95
H32-62	62	2.740	2.803	1.000	0.500	£22.30	£20.68
H32-63	63	2.784	2.847	1.000	0.500	£23.62	£21.15
H32-64	64	2.828	2.891	1.000	0.500	£23.67	£21.23
H32-66	66	2.917	2.979	1.000	0.500	£24.88	£21.65
H32-68	68	3.005	3.068	1.000	0.500	£24.89	£21.70
H32-70	70	3.094	3.156	1.000	0.500	£26.10	£23.91
H32-75	75	3.315	3.377	1.000	0.500	£27.61	£23.93
H32-76	76	3.359	3.421	1.000	0.500	£27.63	£23.99
H32-80	80	3.536	3.598	1.000	0.500	£29.05	£24.32
H32-86	86	3.801	3.863	1.000	0.500	£33.04	£24.63
H32-88	88	3.889	3.952	1.000	0.500	£33.09	£24.70
H32-90	90	3.977	4.040	1.000	0.500	£36.67	£24.89
H32-96	96	4.243	4.305	1.000	0.500	£40.48	£35.11
H32-100	100	4.419	4.482	1.500	0.500	£45.35	£36.26

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin
(fully machined)

32 DP

45° H.A.
20° P.A.

SPECIAL TEETH : between 9 - 108



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.10



RH 45°

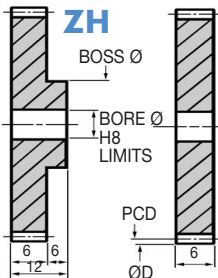


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH32-9	9	0.442	0.504	0.504	4	£6.54	£4.74
ZH32-10	10	0.442	0.504	0.504	4	£6.63	£4.75
ZH32-11	11	0.486	0.549	0.549	4	£6.65	£5.06
ZH32-12	12	0.530	0.593	0.472	4	£6.68	£5.09
ZH32-13	13	0.575	0.637	0.472	4	£6.77	£5.22
ZH32-14	14	0.619	0.681	0.551	4	£6.87	£5.25
ZH32-15	15	0.663	0.725	0.551	4	£7.02	£5.33
ZH32-16	16	0.707	0.770	0.551	4	£7.04	£5.46
ZH32-17	17	0.751	0.814	0.551	4	£7.14	£5.52
ZH32-18	18	0.795	0.858	0.551	4	£7.38	£5.58
ZH32-19	19	0.840	0.902	0.551	4	£7.40	£5.67
ZH32-20	20	0.884	0.946	0.551	4	£7.49	£5.79
ZH32-21	21	0.928	0.991	0.551	4	£7.63	£5.81
ZH32-22	22	0.972	1.035	0.629	5	£7.70	£5.85
ZH32-23	23	1.016	1.079	0.629	5	£7.75	£5.95
ZH32-24	24	1.061	1.123	0.629	5	£8.63	£6.65
ZH32-25	25	1.105	1.167	0.629	5	£8.66	£6.66
ZH32-26	26	1.149	1.212	0.629	5	£8.67	£6.68
ZH32-27	27	1.193	1.256	0.629	5	£8.73	£6.69
ZH32-28	28	1.237	1.300	0.629	5	£8.73	£6.70
ZH32-29	29	1.282	1.344	0.629	5	£8.78	£6.71
ZH32-30	30	1.326	1.388	0.629	5	£8.81	£6.72
ZH32-31	31	1.370	1.433	0.629	5	£8.84	£6.75

Helical Gears Crossed Axis Plastic DP 32

25.52



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5 ZH	ZPH
ZH32-32	32	1.414	1.477	0.629	5	£8.88	£6.76
ZH32-33	33	1.458	1.521	0.629	5	£10.12	£7.64
ZH32-34	34	1.503	1.565	0.629	5	£10.15	£7.74
ZH32-35	35	1.547	1.609	0.629	5	£10.19	£7.75
ZH32-36	36	1.591	1.653	0.629	5	£10.22	£7.80
ZH32-37	37	1.635	1.698	0.629	5	£10.24	£7.81
ZH32-38	38	1.679	1.742	0.629	5	£10.25	£7.82
ZH32-39	39	1.724	1.786	0.629	5	£10.30	£7.87
ZH32-40	40	1.768	1.830	0.629	5	£10.35	£7.94
ZH32-41	41	1.812	1.874	0.629	5	£10.50	£8.02
ZH32-42	42	1.856	1.919	0.629	5	£12.79	£9.82
ZH32-43	43	1.900	1.963	0.629	5	£13.18	£10.12
ZH32-44	44	1.945	2.007	0.629	5	£14.05	£10.76
ZH32-45	45	1.989	2.051	0.629	5	£14.35	£10.97
ZH32-46	46	2.033	2.095	0.629	5	£14.63	£11.21
ZH32-47	47	2.077	2.140	0.629	5	£14.64	£11.56
ZH32-48	48	2.121	2.184	0.629	5	£15.14	£11.59
ZH32-49	49	2.166	2.228	0.629	5	£15.18	£11.73
ZH32-50	50	2.210	2.272	0.629	5	£15.40	£11.76
ZH32-51	51	2.254	2.316	0.629	5	£15.42	£13.37
ZH32-52	52	2.298	2.361	0.629	5	£17.48	£13.39
ZH32-53	53	2.342	2.405	0.629	5	£17.51	£13.64
ZH32-54	54	2.386	2.449	0.629	5	£17.87	£13.70
ZH32-55	55	2.431	2.493	0.629	5	£17.90	£13.75
ZH32-56	56	2.475	2.537	0.629	5	£17.98	£13.98
ZH32-57	57	2.519	2.582	0.629	5	£18.34	£14.05
ZH32-58	58	2.563	2.626	0.629	5	£18.40	£14.07
ZH32-59	59	2.607	2.670	0.629	5	£18.43	£14.13
ZH32-60	60	2.652	2.714	0.708	6	£18.47	£14.66
ZH32-61	61	2.696	2.758	0.708	6	£18.49	£15.49
ZH32-62	62	2.740	2.803	0.708	6	£20.00	£15.55
ZH32-63	63	2.784	2.847	0.708	6	£20.24	£17.29
ZH32-64	64	2.828	2.891	0.708	6	£20.29	£17.34
ZH32-66	66	2.917	2.979	0.708	6	£22.51	£18.04
ZH32-68	68	3.005	3.068	0.708	6	£22.66	£18.10
ZH32-70	70	3.094	3.156	0.708	6	£23.64	£18.13
ZH32-75	75	3.315	3.377	0.708	8	£23.67	£22.47
ZH32-76	76	3.359	3.421	0.708	8	£23.68	£22.90
ZH32-80	80	3.536	3.598	0.708	8	£29.32	£28.14
ZH32-86	86	3.801	3.863	0.708	8	£33.35	£31.24
ZH32-88	88	3.889	3.952	0.787	10	£36.73	£34.51
ZH32-90	90	3.977	4.040	0.787	10	£40.68	£38.58

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

24 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIAL TEETH : between 9 - 150

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.867	5.698	0.434	0.310
	K.W.	0.091	0.597	0.045	0.032



RH 45°



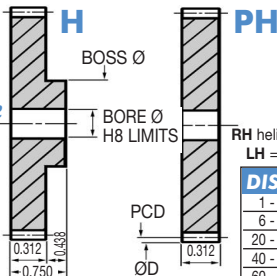
LH available
on request.

RH 45°

RH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	H	PH
H24-9	9	0.589	0.673	0.562	0.250	£10.81	£9.82	
H24-10	10	0.589	0.673	0.562	0.250	£10.82	£10.32	
H24-11	11	0.648	0.732	0.562	0.375	£11.30	£10.65	
H24-12	12	0.707	0.790	0.562	0.375	£11.50	£10.87	
H24-13	13	0.766	0.849	0.562	0.375	£12.06	£11.47	
H24-14	14	0.825	0.908	0.562	0.375	£12.23	£11.84	
H24-15	15	0.884	0.967	0.750	0.375	£12.75	£11.89	
H24-16	16	0.943	1.026	0.750	0.375	£12.95	£11.91	
H24-17	17	1.002	1.085	0.750	0.375	£13.19	£12.06	
H24-18	18	1.061	1.144	0.750	0.375	£14.61	£12.23	
H24-19	19	1.120	1.203	0.750	0.375	£14.82	£12.34	
H24-20	20	1.179	1.262	1.000	0.500	£15.18	£12.56	
H24-21	21	1.237	1.321	1.000	0.500	£15.41	£12.66	
H24-22	22	1.296	1.380	1.000	0.500	£15.87	£12.78	
H24-23	23	1.355	1.439	1.000	0.500	£16.13	£12.84	
H24-24	24	1.414	1.498	1.000	0.500	£16.27	£12.95	
H24-25	25	1.473	1.556	1.000	0.500	£16.49	£13.09	
H24-26	26	1.532	1.615	1.000	0.500	£16.68	£13.14	
H24-27	27	1.591	1.674	1.000	0.500	£16.90	£13.26	
H24-28	28	1.650	1.733	1.000	0.500	£16.94	£13.37	
H24-29	29	1.709	1.792	1.000	0.500	£17.06	£13.41	
H24-30	30	1.768	1.851	1.000	0.500	£17.28	£13.61	
H24-31	31	1.827	1.910	1.000	0.500	£17.37	£13.75	

Helical Gears Crossed Axis Steel DP 24

25.54



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H24-32	32	1.886	1.969	1.000	0.500	£17.87	£14.08
H24-33	33	1.945	2.028	1.000	0.500	£18.24	£14.33
H24-34	34	2.003	2.087	1.000	0.500	£18.69	£14.50
H24-35	35	2.062	2.146	1.000	0.500	£20.24	£14.90
H24-36	36	2.121	2.205	1.250	0.625	£20.56	£15.14
H24-37	37	2.180	2.264	1.250	0.625	£20.70	£15.61
H24-38	38	2.239	2.323	1.250	0.625	£20.95	£15.90
H24-39	39	2.298	2.381	1.250	0.625	£21.70	£16.29
H24-40	40	2.357	2.440	1.250	0.625	£22.12	£16.60
H24-41	41	2.416	2.499	1.250	0.625	£22.49	£16.83
H24-42	42	2.475	2.558	1.250	0.625	£23.31	£17.29
H24-43	43	2.534	2.617	1.250	0.625	£23.84	£17.62
H24-44	44	2.593	2.676	1.250	0.625	£24.24	£17.90
H24-45	45	2.652	2.735	1.250	0.625	£24.77	£18.13
H24-46	46	2.711	2.794	1.250	0.625	£25.12	£18.30
H24-47	47	2.770	2.853	1.250	0.625	£25.96	£18.79
H24-48	48	2.828	2.912	1.250	0.625	£26.00	£18.87
H24-49	49	2.887	2.971	1.250	0.625	£26.37	£19.13
H24-50	50	2.946	3.030	1.250	0.625	£26.66	£19.36
H24-51	51	3.005	3.089	1.250	0.625	£26.95	£19.41
H24-52	52	3.064	3.147	1.250	0.625	£27.33	£19.98
H24-53	53	3.123	3.206	1.250	0.625	£27.69	£20.42
H24-54	54	3.182	3.265	1.250	0.625	£28.13	£20.69
H24-55	55	3.241	3.324	1.250	0.625	£28.15	£20.73
H24-56	56	3.300	3.383	1.250	0.625	£28.69	£21.21
H24-57	57	3.359	3.442	1.250	0.625	£29.33	£22.99
H24-58	58	3.418	3.501	1.250	0.625	£29.38	£23.00
H24-59	59	3.477	3.560	1.250	0.625	£29.43	£23.06
H24-60	60	3.536	3.619	1.250	0.625	£31.01	£23.84
H24-61	61	3.594	3.678	1.250	0.625	£31.06	£23.88
H24-62	62	3.653	3.737	1.250	0.625	£31.11	£23.92
H24-63	63	3.712	3.796	1.250	0.625	£32.78	£25.12
H24-64	64	3.771	3.855	1.250	0.625	£37.40	£27.02
H24-65	65	3.830	3.913	1.250	0.625	£37.41	£27.04
H24-66	66	3.889	3.972	1.250	0.625	£37.44	£27.07
H24-68	68	4.007	4.090	1.250	0.625	£41.34	£29.32
H24-70	70	4.125	4.208	1.250	0.625	£41.39	£29.38
H24-72	72	4.243	4.326	1.250	0.625	£43.93	£35.28
H24-73	73	4.302	4.385	1.250	0.625	£43.99	£35.30
H24-74	74	4.360	4.444	1.250	0.625	£44.02	£35.67
H24-76	76	4.478	4.562	1.250	0.625	£44.10	£35.98
H24-78	78	4.596	4.680	1.575	0.625	£44.14	£36.34
H24-80	80	4.714	4.797	1.575	0.625	£46.59	£37.31
H24-84	84	4.950	5.033	1.575	0.625	£46.66	£37.35
H24-88	88	5.185	5.269	1.575	0.625	£51.40	£41.13
H24-90	90	5.303	5.387	1.575	0.625	£54.97	£44.62
H24-96	96	5.657	5.740	1.575	0.625	£57.66	£49.63
H24-100	100	5.893	5.976	1.575	0.625	£61.46	£53.12
H24-112	112	6.600	6.683	1.575	0.625	£68.48	£60.44
H24-120	120	7.071	7.154	1.575	0.625	£71.96	£63.11
H24-130	130	7.660	7.744	1.575	0.625	£78.49	£70.23
H24-150	150	8.839	8.922	1.575	0.625	£89.06	£82.08

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin
(fully machined)

24 DP

45° H.A.
20° P.A.

SPECIAL TEETH : between 9 - 90



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.18



RH 45°



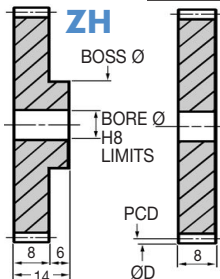
LH available on request.

RH 45°

RH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic DP 24

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH24-9	9	0.589	0.673	0.472	4	£5.46	£4.09
ZH24-10	10	0.589	0.673	0.472	4	£5.46	£4.14
ZH24-11	11	0.648	0.732	0.472	4	£5.67	£4.28
ZH24-12	12	0.707	0.790	0.590	6	£5.79	£4.38
ZH24-13	13	0.766	0.849	0.590	6	£6.04	£4.59
ZH24-14	14	0.825	0.908	0.590	6	£6.14	£4.73
ZH24-15	15	0.884	0.967	0.708	6	£6.38	£4.83
ZH24-16	16	0.943	1.026	0.708	6	£6.43	£4.97
ZH24-17	17	1.002	1.085	0.708	6	£6.65	£5.06
ZH24-18	18	1.061	1.144	0.708	6	£7.31	£5.54
ZH24-19	19	1.120	1.203	0.708	6	£8.18	£6.30
ZH24-20	20	1.179	1.262	0.708	6	£8.36	£6.40
ZH24-21	21	1.237	1.321	0.708	6	£8.50	£6.50
ZH24-22	22	1.296	1.380	0.708	6	£8.73	£6.71
ZH24-23	23	1.355	1.439	0.708	6	£8.88	£6.77
ZH24-24	24	1.414	1.498	0.708	6	£8.96	£6.87
ZH24-25	25	1.473	1.556	0.708	6	£9.08	£6.99
ZH24-26	26	1.532	1.615	0.708	6	£9.21	£7.02
ZH24-27	27	1.591	1.674	0.708	6	£9.26	£7.10
ZH24-28	28	1.650	1.733	0.708	6	£9.32	£7.14
ZH24-29	29	1.709	1.792	0.708	6	£9.40	£7.27
ZH24-30	30	1.768	1.851	0.708	6	£9.55	£7.28
ZH24-31	31	1.827	1.910	0.708	6	£9.60	£7.36

25.56



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5 ZH	ZPH
ZH24-32	32	1.886	1.969	0.708	6	£9.86	£7.49
ZH24-33	33	1.945	2.028	0.708	6	£13.78	£10.54
ZH24-34	34	2.003	2.087	0.708	6	£14.08	£10.79
ZH24-35	35	2.062	2.146	0.708	6	£15.36	£11.73
ZH24-36	36	2.121	2.205	0.866	8	£15.48	£11.85
ZH24-37	37	2.180	2.264	0.866	8	£15.68	£11.96
ZH24-38	38	2.239	2.323	0.866	8	£15.82	£12.09
ZH24-39	39	2.298	2.381	0.866	8	£18.61	£14.27
ZH24-40	40	2.357	2.440	0.866	8	£18.98	£14.50
ZH24-41	41	2.416	2.499	0.866	8	£19.33	£14.78
ZH24-42	42	2.475	2.558	0.866	8	£20.00	£15.36
ZH24-43	43	2.534	2.617	0.866	8	£20.42	£15.69
ZH24-44	44	2.593	2.676	0.866	8	£20.82	£15.93
ZH24-45	45	2.652	2.735	0.866	8	£21.24	£16.25
ZH24-46	46	2.711	2.794	0.866	8	£21.52	£16.53
ZH24-47	47	2.770	2.853	0.866	8	£22.29	£17.02
ZH24-48	48	2.828	2.912	0.866	8	£22.31	£17.06
ZH24-49	49	2.887	2.971	0.866	8	£23.92	£18.37
ZH24-50	50	2.946	3.030	0.866	8	£24.22	£18.55
ZH24-51	51	3.005	3.089	0.866	8	£24.46	£18.74
ZH24-52	52	3.064	3.147	0.866	8	£24.81	£19.00
ZH24-53	53	3.123	3.206	0.866	8	£25.13	£19.25
ZH24-54	54	3.182	3.265	0.866	8	£25.58	£19.59
ZH24-55	55	3.241	3.324	0.866	8	£25.59	£19.61
ZH24-56	56	3.300	3.383	0.866	8	£26.09	£19.95
ZH24-57	57	3.359	3.442	0.866	8	£26.67	£20.47
ZH24-58	58	3.418	3.501	0.866	8	£26.70	£20.55
ZH24-59	59	3.477	3.560	0.866	8	£29.69	£22.79
ZH24-60	60	3.536	3.619	0.866	8	£31.32	£23.92
ZH24-61	61	3.594	3.678	0.866	8	£31.35	£24.02
ZH24-62	62	3.653	3.737	0.866	8	£31.35	£24.07
ZH24-63	63	3.712	3.796	0.866	8	£33.07	£25.36
ZH24-64	64	3.771	3.855	0.866	8	£37.52	£28.94
ZH24-65	65	3.830	3.913	0.866	8	£37.79	£28.97
ZH24-66	66	3.889	3.972	0.866	8	£41.63	£31.90
ZH24-68	68	4.007	4.090	0.866	10	£45.95	£35.19
ZH24-70	70	4.125	4.208	0.866	10	£48.76	£35.26
ZH24-72	72	4.243	4.326	0.866	10	£48.80	£37.40
ZH24-73	73	4.302	4.385	0.866	10	£48.83	£37.44
ZH24-74	74	4.360	4.444	0.866	10	£48.90	£37.47
ZH24-76	76	4.478	4.562	0.866	10	£48.93	£37.49
ZH24-78	78	4.596	4.680	0.866	10	£48.97	£37.52
ZH24-80	80	4.714	4.797	0.866	10	£56.58	£43.35
ZH24-84	84	4.950	5.033	1.023	12	£73.89	£60.73
ZH24-90	90	5.303	5.387	1.023	12	£95.15	£81.96

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

20 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIAL TEETH : between 9 - 140



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	1.454	9.615	0.732	0.523
	K.W.	0.152	1.007	0.077	0.054

Helical Gears Crossed Axis Steel DP20

RH 45°

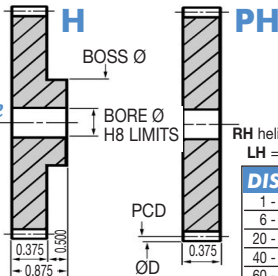


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H20-9	9	0.707	0.807	0.562	0.375	£13.09	£11.52
H20-10	10	0.707	0.807	0.562	0.375	£13.09	£11.53
H20-11	11	0.778	0.878	0.562	0.375	£14.15	£12.22
H20-12	12	0.849	0.949	0.687	0.500	£14.33	£12.34
H20-13	13	0.919	1.019	0.687	0.500	£14.82	£12.50
H20-14	14	0.990	1.090	0.750	0.500	£14.83	£12.69
H20-15	15	1.061	1.161	0.875	0.500	£15.61	£13.00
H20-16	16	1.131	1.231	1.000	0.500	£15.87	£13.19
H20-17	17	1.202	1.302	1.000	0.500	£16.12	£13.40
H20-18	18	1.273	1.373	1.000	0.500	£16.92	£13.61
H20-19	19	1.344	1.444	1.000	0.500	£17.29	£13.75
H20-20	20	1.414	1.514	1.000	0.500	£18.12	£13.99
H20-21	21	1.485	1.585	1.000	0.500	£18.61	£14.13
H20-22	22	1.556	1.656	1.000	0.500	£18.79	£14.20
H20-23	23	1.626	1.726	1.000	0.500	£19.36	£14.46
H20-24	24	1.697	1.797	1.000	0.500	£19.77	£14.67
H20-25	25	1.768	1.868	1.000	0.500	£20.70	£15.02
H20-26	26	1.838	1.938	1.500	0.625	£21.10	£15.18
H20-27	27	1.909	2.009	1.500	0.625	£21.59	£15.41
H20-28	28	1.980	2.080	1.500	0.625	£22.43	£15.76
H20-29	29	2.051	2.151	1.500	0.625	£22.81	£15.90
H20-30	30	2.121	2.221	1.500	0.625	£23.67	£16.19
H20-31	31	2.192	2.292	1.500	0.625	£24.10	£16.27

25.58



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H20-32	32	2.263	2.363	1.500	0.625	£24.77	£16.56
H20-33	33	2.333	2.433	1.500	0.625	£25.05	£16.72
H20-34	34	2.404	2.504	1.500	0.625	£25.40	£16.92
H20-35	35	2.475	2.575	1.500	0.625	£25.81	£17.34
H20-36	36	2.546	2.646	1.500	0.625	£26.12	£17.59
H20-37	37	2.616	2.716	1.500	0.625	£26.69	£17.87
H20-38	38	2.687	2.787	1.500	0.625	£27.13	£17.98
H20-39	39	2.758	2.858	1.500	0.625	£27.39	£18.13
H20-40	40	2.828	2.928	1.500	0.625	£28.39	£18.30
H20-41	41	2.899	2.999	1.500	0.625	£28.66	£18.45
H20-42	42	2.970	3.070	1.500	0.625	£29.29	£18.79
H20-43	43	3.041	3.141	1.500	0.625	£29.68	£19.04
H20-44	44	3.111	3.211	1.500	0.625	£30.34	£19.73
H20-45	45	3.182	3.282	1.500	0.625	£30.55	£20.16
H20-46	46	3.253	3.353	1.500	0.625	£30.81	£20.73
H20-47	47	3.323	3.423	1.500	0.625	£31.07	£21.92
H20-48	48	3.394	3.494	1.500	0.625	£31.11	£21.96
H20-49	49	3.465	3.565	1.500	0.625	£31.22	£22.57
H20-50	50	3.536	3.636	1.500	0.625	£31.54	£25.62
H20-51	51	3.606	3.706	1.500	0.625	£31.58	£26.00
H20-52	52	3.677	3.777	1.500	0.625	£34.55	£26.55
H20-53	53	3.748	3.848	1.500	0.625	£35.22	£27.02
H20-54	54	3.818	3.918	1.500	0.625	£35.93	£27.33
H20-55	55	3.889	3.989	1.500	0.625	£35.97	£27.39
H20-56	56	3.960	4.060	1.500	0.625	£37.47	£27.87
H20-57	57	4.031	4.131	1.500	0.625	£40.48	£30.55
H20-58	58	4.101	4.201	1.500	0.625	£40.50	£31.21
H20-59	59	4.172	4.272	1.500	0.625	£40.56	£34.02
H20-60	60	4.243	4.343	1.500	0.625	£50.57	£37.06
H20-61	61	4.313	4.413	2.000	0.625	£50.60	£40.51
H20-62	62	4.384	4.484	2.000	0.625	£50.65	£41.18
H20-63	63	4.455	4.555	2.000	0.625	£55.75	£44.62
H20-64	64	4.525	4.625	2.000	0.625	£63.08	£50.60
H20-65	65	4.596	4.696	2.000	0.625	£63.13	£50.89
H20-66	66	4.667	4.767	2.000	0.625	£63.23	£51.69
H20-68	68	4.808	4.908	2.000	0.625	£63.27	£52.09
H20-70	70	4.950	5.050	2.000	0.625	£67.38	£53.89
H20-72	72	5.091	5.191	2.000	0.625	£71.22	£55.15
H20-73	73	5.162	5.262	2.000	0.625	£71.35	£56.15
H20-74	74	5.233	5.333	2.000	0.625	£71.43	£57.22
H20-76	76	5.374	5.474	2.000	0.625	£71.50	£57.97
H20-78	78	5.515	5.615	2.000	0.625	£71.56	£58.59
H20-80	80	5.657	5.757	2.000	0.625	£75.24	£60.40
H20-84	84	5.940	6.040	2.000	0.625	£75.47	£62.02
H20-88	88	6.223	6.323	2.000	0.750	£79.61	£63.67
H20-90	90	6.364	6.464	2.000	0.750	£79.83	£63.82
H20-96	96	6.788	6.888	2.000	0.750	£83.97	£67.13
H20-100	100	7.071	7.171	2.000	0.750	£84.30	£68.95
H20-112	112	7.920	8.020	2.000	0.750	£89.06	£74.37
H20-120	120	8.485	8.585	2.000	0.750	£92.73	£79.43
H20-130	130	9.192	9.292	2.000	0.750	£99.78	£86.52
H20-140	140	9.899	9.999	2.000	0.750	£106.81	£93.33

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

20 DP

45° H.A.
20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 9 - 84

SPECIALS
ON DEMAND

TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.40



RH 45°

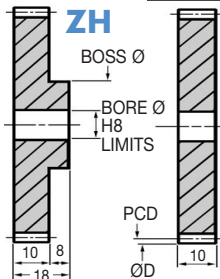


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount	List Price
1 - 5		
6 - 29	- 22%	
30 - 99	- 44%	
100 - 399	- 47%	
400 - 999	- 50%	
1000 - 5000	- 53%	

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	ZH	ZPH
ZH20-9	9	0.707	0.807	0.590	5	£6.51	£4.98	
ZH20-10	10	0.707	0.807	0.590	5	£6.54	£4.99	
ZH20-11	11	0.778	0.878	0.629	5	£7.04	£5.46	
ZH20-12	12	0.849	0.949	0.629	6	£7.14	£5.52	
ZH20-13	13	0.919	1.019	0.629	6	£7.39	£5.72	
ZH20-14	14	0.990	1.090	0.708	6	£7.40	£5.73	
ZH20-15	15	1.061	1.161	0.708	6	£8.62	£6.65	
ZH20-16	16	1.131	1.231	0.708	6	£8.73	£6.71	
ZH20-17	17	1.202	1.302	0.708	6	£8.91	£6.75	
ZH20-18	18	1.273	1.373	0.708	6	£9.32	£7.10	
ZH20-19	19	1.344	1.444	0.708	6	£9.55	£7.36	
ZH20-20	20	1.414	1.514	0.708	6	£10.01	£7.64	
ZH20-21	21	1.485	1.585	0.708	6	£11.67	£8.93	
ZH20-22	22	1.556	1.656	0.708	6	£11.84	£9.04	
ZH20-23	23	1.626	1.726	0.708	6	£12.16	£9.30	
ZH20-24	24	1.697	1.797	0.708	6	£12.42	£9.51	
ZH20-25	25	1.768	1.868	0.708	6	£13.04	£9.95	
ZH20-26	26	1.838	1.938	0.708	6	£15.95	£12.22	
ZH20-27	27	1.909	2.009	0.708	6	£16.29	£12.44	
ZH20-28	28	1.980	2.080	0.866	8	£16.94	£13.02	
ZH20-29	29	2.051	2.151	0.866	8	£17.28	£13.27	
ZH20-30	30	2.121	2.221	0.866	8	£17.88	£13.68	
ZH20-31	31	2.192	2.292	0.866	8	£18.18	£13.95	

Helical Gears Crossed Axis Plastic DP 20

25.60



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH20-32	32	2.263	2.363	0.866	8	£21.24	£16.25
ZH20-33	33	2.333	2.433	0.866	8	£21.48	£16.44
ZH20-34	34	2.404	2.504	0.866	8	£21.74	£16.68
ZH20-35	35	2.475	2.575	0.866	8	£22.12	£16.98
ZH20-36	36	2.546	2.646	0.866	8	£22.38	£17.18
ZH20-37	37	2.616	2.716	0.866	8	£22.90	£17.52
ZH20-38	38	2.687	2.787	0.866	8	£23.26	£17.87
ZH20-39	39	2.758	2.858	0.866	10	£23.45	£17.99
ZH20-40	40	2.828	2.928	1.023	10	£25.79	£18.66
ZH20-41	41	2.899	2.999	1.023	10	£26.04	£19.93
ZH20-42	42	2.970	3.070	1.023	10	£26.55	£20.37
ZH20-43	43	3.041	3.141	1.023	10	£26.93	£20.66
ZH20-44	44	3.111	3.211	1.023	10	£27.54	£21.09
ZH20-45	45	3.182	3.282	1.023	10	£27.74	£21.27
ZH20-46	46	3.253	3.353	1.023	10	£27.99	£21.48
ZH20-47	47	3.323	3.423	1.023	10	£28.23	£21.60
ZH20-48	48	3.394	3.494	1.023	10	£28.24	£21.62
ZH20-49	49	3.465	3.565	1.023	10	£31.50	£24.16
ZH20-50	50	3.536	3.636	1.023	10	£31.82	£24.38
ZH20-51	51	3.606	3.706	1.023	10	£31.86	£24.40
ZH20-52	52	3.677	3.777	1.023	10	£34.88	£26.70
ZH20-53	53	3.748	3.848	1.023	10	£35.54	£27.25
ZH20-54	54	3.818	3.918	1.023	10	£36.27	£27.88
ZH20-55	55	3.889	3.989	1.023	10	£37.02	£30.72
ZH20-56	56	3.960	4.060	1.023	10	£37.68	£32.37
ZH20-57	57	4.031	4.131	1.181	10	£44.91	£34.40
ZH20-58	58	4.101	4.201	1.181	10	£45.01	£34.51
ZH20-59	59	4.172	4.272	1.181	10	£45.04	£34.53
ZH20-60	60	4.243	4.343	1.181	10	£56.13	£43.04
ZH20-61	61	4.313	4.413	1.181	10	£56.21	£43.05
ZH20-62	62	4.384	4.484	1.181	10	£56.26	£43.13
ZH20-63	63	4.455	4.555	1.181	10	£61.83	£47.44
ZH20-64	64	4.525	4.625	1.181	10	£70.15	£53.82
ZH20-65	65	4.596	4.696	1.181	10	£70.23	£53.87
ZH20-66	66	4.667	4.767	1.181	10	£76.57	£58.72
ZH20-68	68	4.808	4.908	1.181	10	£76.64	£58.81
ZH20-70	70	4.950	5.050	1.181	10	£81.59	£62.61
ZH20-72	72	5.091	5.191	1.181	10	£86.42	£66.23
ZH20-73	73	5.162	5.262	1.574	12	£86.49	£66.32
ZH20-74	74	5.233	5.333	1.574	12	£86.53	£66.41
ZH20-76	76	5.374	5.474	1.574	12	£86.62	£66.44
ZH20-78	78	5.515	5.615	1.574	12	£86.64	£66.46
ZH20-80	80	5.657	5.757	1.574	12	£91.31	£70.02
ZH20-84	84	5.940	6.040	1.574	12	£91.39	£70.11

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

16 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEETH : between 9 - 120



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	2.716	17.823	1.356	0.969
	K.W.	0.285	1.868	0.142	0.102

Helical Gears Crossed Axis Steel DP 16

RH 45°

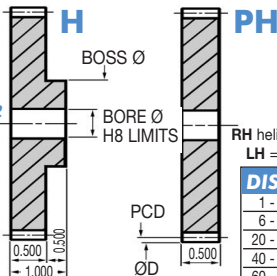


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H16-9	9	0.884	1.009	0.750	0.500	£13.49	£12.75
H16-10	10	0.884	1.009	0.750	0.500	£13.54	£13.13
H16-11	11	0.972	1.097	0.750	0.500	£14.82	£14.46
H16-12	12	1.061	1.186	0.875	0.500	£15.39	£14.83
H16-13	13	1.149	1.274	0.875	0.500	£16.56	£15.61
H16-14	14	1.237	1.362	1.000	0.500	£16.94	£16.04
H16-15	15	1.326	1.451	1.000	0.500	£18.79	£16.72
H16-16	16	1.414	1.539	1.250	0.625	£19.36	£17.18
H16-17	17	1.503	1.628	1.250	0.625	£19.81	£17.59
H16-18	18	1.591	1.716	1.250	0.625	£20.70	£18.09
H16-19	19	1.679	1.804	1.250	0.625	£21.07	£18.17
H16-20	20	1.768	1.893	1.250	0.625	£21.77	£18.43
H16-21	21	1.856	1.981	1.250	0.625	£22.11	£18.61
H16-22	22	1.945	2.070	1.500	0.625	£23.22	£18.87
H16-23	23	2.033	2.158	1.500	0.625	£23.30	£19.04
H16-24	24	2.121	2.246	1.500	0.625	£23.37	£19.16
H16-25	25	2.210	2.335	1.500	0.625	£23.60	£22.85
H16-26	26	2.298	2.423	1.500	0.625	£23.88	£23.54
H16-27	27	2.386	2.511	1.500	0.625	£25.07	£24.67
H16-28	28	2.475	2.600	1.500	0.625	£25.34	£25.18
H16-29	29	2.563	2.688	1.500	0.625	£25.66	£25.43
H16-30	30	2.652	2.777	1.500	0.625	£26.90	£26.32
H16-31	31	2.740	2.865	1.500	0.625	£27.63	£26.86

25.62



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H16-32	32	2.828	2.953	1.500	0.625	£29.33	£27.69
H16-33	33	2.917	3.042	1.500	0.625	£30.26	£28.31
H16-34	34	3.005	3.130	1.500	0.750	£31.74	£29.53
H16-35	35	3.094	3.219	1.500	0.750	£32.29	£30.17
H16-36	36	3.182	3.307	1.500	0.750	£32.81	£30.73
H16-37	37	3.270	3.395	1.500	0.750	£34.61	£31.90
H16-38	38	3.359	3.484	1.500	0.750	£35.70	£32.53
H16-39	39	3.447	3.572	1.500	0.750	£37.10	£33.50
H16-40	40	3.536	3.661	1.500	0.750	£37.67	£34.06
H16-41	41	3.624	3.749	1.500	0.750	£38.14	£34.63
H16-42	42	3.712	3.837	1.500	0.750	£39.34	£35.89
H16-43	43	3.801	3.926	1.500	0.750	£40.49	£36.03
H16-44	44	3.889	4.014	1.500	0.750	£41.57	£37.06
H16-45	45	3.977	4.102	1.500	0.750	£41.63	£37.29
H16-46	46	4.066	4.191	1.500	0.750	£42.58	£38.02
H16-47	47	4.154	4.279	1.500	0.750	£43.29	£38.59
H16-48	48	4.243	4.368	1.500	0.750	£43.36	£38.99
H16-49	49	4.331	4.456	2.000	0.750	£44.70	£39.28
H16-50	50	4.419	4.544	2.000	0.750	£45.11	£39.68
H16-51	51	4.508	4.633	2.000	0.750	£48.40	£42.56
H16-52	52	4.596	4.721	2.000	0.750	£50.89	£44.72
H16-53	53	4.685	4.810	2.000	0.750	£53.48	£47.04
H16-54	54	4.773	4.898	2.000	0.750	£59.40	£52.18
H16-55	55	4.861	4.986	2.000	0.750	£59.46	£52.30
H16-56	56	4.950	5.075	2.000	0.750	£63.61	£55.94
H16-57	57	5.038	5.163	2.000	0.750	£67.08	£58.53
H16-58	58	5.127	5.252	2.000	0.750	£67.18	£59.15
H16-59	59	5.215	5.340	2.000	0.750	£67.28	£61.29
H16-60	60	5.303	5.428	2.000	0.750	£67.30	£63.11
H16-62	62	5.480	5.605	2.000	0.750	£74.75	£65.76
H16-64	64	5.657	5.782	2.000	0.750	£77.92	£67.38
H16-65	65	5.745	5.870	2.000	0.750	£77.99	£68.80
H16-66	66	5.834	5.959	2.000	0.750	£78.12	£73.88
H16-68	68	6.010	6.135	2.000	0.750	£85.85	£75.48
H16-70	70	6.187	6.312	2.000	0.750	£89.47	£78.74
H16-71	71	6.276	6.401	2.000	0.750	£97.36	£85.05
H16-72	72	6.364	6.489	2.000	0.750	£97.42	£86.02
H16-73	73	6.452	6.577	2.000	0.750	£97.60	£87.35
H16-74	74	6.541	6.666	2.500	0.750	£97.72	£89.80
H16-75	75	6.629	6.754	2.500	0.750	£104.38	£91.83
H16-76	76	6.718	6.843	2.500	0.750	£104.53	£91.92
H16-78	78	6.894	7.019	2.500	0.750	£108.12	£95.24
H16-80	80	7.071	7.196	2.500	0.750	£108.22	£95.40
H16-86	86	7.601	7.726	2.500	0.750	£113.46	£99.57
H16-90	90	7.955	8.080	2.500	0.750	£115.34	£103.31
H16-96	96	8.485	8.610	2.500	0.750	£119.00	£107.20
H16-98	98	8.662	8.787	2.500	0.750	£122.96	£111.02
H16-100	100	8.839	8.964	2.500	0.750	£129.84	£114.91
H16-105	105	9.281	9.406	2.500	0.750	£133.86	£118.71
H16-110	110	9.723	9.848	2.500	0.750	£137.66	£121.93
H16-115	115	10.165	10.290	2.500	0.750	£141.88	£125.72
H16-120	120	10.607	10.732	2.500	0.750	£148.41	£133.46

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin
(fully machined)

16 DP

45° H.A.
20° P.A.

SPECIAL TEETH : between 9 - 70



TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.70



RH 45°

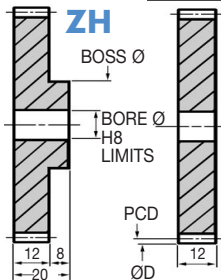


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic DP 16

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	ZH	ZPH
ZH16-9	9	0.884	1.009	0.787	6	£6.71	£5.12	
ZH16-10	10	0.884	1.009	0.787	8	£6.75	£5.19	
ZH16-11	11	0.972	1.097	0.787	8	£7.40	£5.67	
ZH16-12	12	1.061	1.186	0.787	8	£8.47	£6.44	
ZH16-13	13	1.149	1.274	0.944	8	£9.18	£6.99	
ZH16-14	14	1.237	1.362	0.984	8	£9.32	£7.14	
ZH16-15	15	1.326	1.451	0.984	8	£10.42	£7.94	
ZH16-16	16	1.414	1.539	0.984	8	£10.73	£8.18	
ZH16-17	17	1.503	1.628	0.984	8	£12.42	£9.55	
ZH16-18	18	1.591	1.716	0.984	8	£13.04	£9.95	
ZH16-19	19	1.679	1.804	0.984	8	£13.27	£10.15	
ZH16-20	20	1.768	1.893	0.984	8	£13.68	£10.50	
ZH16-21	21	1.856	1.981	0.984	8	£16.68	£12.78	
ZH16-22	22	1.945	2.070	1.102	10	£17.52	£13.41	
ZH16-23	23	2.033	2.158	1.102	10	£17.61	£13.49	
ZH16-24	24	2.121	2.246	1.102	10	£17.63	£13.57	
ZH16-25	25	2.210	2.335	1.102	10	£17.87	£13.64	
ZH16-26	26	2.298	2.423	1.102	10	£20.47	£15.69	
ZH16-27	27	2.386	2.511	1.102	10	£21.48	£16.46	
ZH16-28	28	2.475	2.600	1.181	12	£21.71	£16.64	
ZH16-29	29	2.563	2.688	1.181	12	£21.98	£16.81	
ZH16-30	30	2.652	2.777	1.181	12	£23.07	£17.67	
ZH16-31	31	2.740	2.865	1.181	12	£23.64	£18.13	

25.64



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH16-32	32	2.828	2.953	1.181	12	£25.13	£19.25
ZH16-33	33	2.917	3.042	1.181	12	£27.42	£21.09
ZH16-34	34	3.005	3.130	1.181	12	£28.84	£22.11
ZH16-35	35	3.094	3.219	1.181	12	£29.28	£22.44
ZH16-36	36	3.182	3.307	1.417	12	£29.79	£22.80
ZH16-37	37	3.270	3.395	1.417	12	£31.42	£24.13
ZH16-38	38	3.359	3.484	1.417	12	£32.37	£24.86
ZH16-39	39	3.447	3.572	1.417	12	£37.44	£28.69
ZH16-40	40	3.536	3.661	1.417	12	£37.98	£29.10
ZH16-41	41	3.624	3.749	1.417	12	£38.52	£29.54
ZH16-42	42	3.712	3.837	1.417	12	£39.68	£30.43
ZH16-43	43	3.801	3.926	1.417	12	£40.84	£31.34
ZH16-44	44	3.889	4.014	1.417	12	£46.10	£35.19
ZH16-45	45	3.977	4.102	1.417	12	£46.21	£35.45
ZH16-46	46	4.066	4.191	1.417	12	£47.35	£36.34
ZH16-47	47	4.154	4.279	1.889	12	£48.06	£36.82
ZH16-48	48	4.243	4.368	1.889	12	£48.19	£36.97
ZH16-49	49	4.331	4.456	1.889	12	£49.72	£38.15
ZH16-50	50	4.419	4.544	1.889	12	£50.10	£38.41
ZH16-51	51	4.508	4.633	1.889	12	£53.75	£41.17
ZH16-52	52	4.596	4.721	1.889	12	£56.49	£43.34
ZH16-53	53	4.685	4.810	1.889	12	£64.82	£49.71
ZH16-54	54	4.773	4.898	1.889	12	£71.91	£55.01
ZH16-55	55	4.861	4.986	1.889	12	£71.96	£55.27
ZH16-56	56	4.950	5.075	1.889	12	£77.02	£59.12
ZH16-57	57	5.038	5.163	1.889	12	£80.76	£61.82
ZH16-58	58	5.127	5.252	1.889	12	£81.04	£62.05
ZH16-59	59	5.215	5.340	1.889	12	£81.22	£62.21
ZH16-60	60	5.303	5.428	1.889	15	£81.47	£62.53
ZH16-62	62	5.480	5.605	1.889	15	£98.11	£75.29
ZH16-64	64	5.657	5.782	1.889	15	£101.96	£78.43
ZH16-65	65	5.745	5.870	1.889	15	£102.26	£78.59
ZH16-66	66	5.834	5.959	1.889	15	£102.58	£78.73
ZH16-68	68	6.010	6.135	1.889	15	£112.64	£86.45
ZH16-70	70	6.187	6.312	1.889	15	£124.41	£97.72

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.

Crossed Helical Gears *Materials*

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

12 DP 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEETH : between 9 - 100



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	6.078	39.941	3.042	2.173
	K.W.	0.637	4.185	0.318	0.227

Helical Gears Crossed Axis Steel DP 12



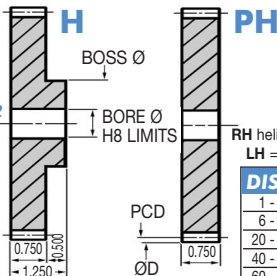
RH 45°

LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H12-9	9	1.179	1.345	0.875	0.500	£20.12	£15.19
H12-10	10	1.179	1.345	0.875	0.500	£20.16	£17.13
H12-11	11	1.296	1.463	1.000	0.500	£21.15	£17.99
H12-12	12	1.414	1.581	1.000	0.500	£21.77	£18.50
H12-13	13	1.532	1.699	1.250	0.625	£22.78	£19.36
H12-14	14	1.650	1.817	1.250	0.625	£23.25	£19.85
H12-15	15	1.768	1.934	1.375	0.625	£25.31	£21.84
H12-16	16	1.886	2.052	1.375	0.750	£26.12	£22.79
H12-17	17	2.003	2.170	1.375	0.750	£27.69	£24.21
H12-18	18	2.121	2.288	1.750	0.750	£28.50	£24.85
H12-19	19	2.239	2.406	1.750	0.750	£29.37	£25.58
H12-20	20	2.357	2.524	1.750	0.750	£30.00	£26.70
H12-21	21	2.475	2.642	1.750	0.750	£31.35	£27.40
H12-22	22	2.593	2.759	1.750	0.750	£32.33	£28.39
H12-23	23	2.711	2.877	1.750	0.750	£36.62	£31.16
H12-24	24	2.828	2.995	1.970	0.750	£38.12	£32.02
H12-25	25	2.946	3.113	1.970	0.750	£39.79	£33.09
H12-26	26	3.064	3.231	1.970	0.750	£40.84	£33.99
H12-27	27	3.182	3.349	1.970	0.750	£42.97	£35.89
H12-28	28	3.300	3.466	1.970	0.750	£46.17	£38.72
H12-29	29	3.418	3.584	1.970	0.750	£46.54	£39.04
H12-30	30	3.536	3.702	1.970	0.750	£47.47	£39.68
H12-31	31	3.653	3.820	1.970	0.750	£47.78	£40.15

25.66



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H12-32	32	3.771	3.938	1.970	0.750	£48.53	£40.75
H12-33	33	3.889	4.056	1.970	0.750	£48.97	£41.15
H12-34	34	4.007	4.174	1.970	0.750	£50.64	£42.58
H12-35	35	4.125	4.291	1.970	0.750	£51.69	£43.36
H12-36	36	4.243	4.409	1.970	0.750	£52.79	£44.38
H12-37	37	4.360	4.527	1.970	0.750	£55.45	£46.88
H12-38	38	4.478	4.645	1.970	0.750	£56.20	£47.66
H12-39	39	4.596	4.763	1.970	0.750	£58.65	£49.97
H12-40	40	4.714	4.881	1.970	0.750	£59.67	£51.04
H12-41	41	4.832	4.999	1.970	0.750	£61.12	£52.08
H12-42	42	4.950	5.116	1.970	0.750	£65.09	£54.07
H12-43	43	5.068	5.234	1.970	0.750	£68.19	£55.50
H12-44	44	5.185	5.352	1.970	0.750	£70.13	£57.13
H12-45	45	5.303	5.470	1.970	0.750	£70.43	£58.26
H12-46	46	5.421	5.588	1.970	0.750	£72.94	£58.57
H12-47	47	5.539	5.706	1.970	0.750	£76.37	£60.72
H12-48	48	5.657	5.824	1.970	0.750	£76.03	£61.12
H12-49	49	5.775	5.941	1.970	0.750	£78.45	£61.84
H12-50	50	5.893	6.059	2.950	0.750	£79.36	£62.46
H12-51	51	6.010	6.177	2.950	0.750	£86.18	£68.95
H12-52	52	6.128	6.295	2.950	0.750	£90.34	£72.25
H12-53	53	6.246	6.413	2.950	0.750	£94.82	£75.85
H12-54	54	6.364	6.531	2.950	0.750	£97.11	£85.67
H12-55	55	6.482	6.648	2.950	0.750	£103.16	£86.15
H12-56	56	6.600	6.766	2.950	0.750	£110.69	£92.23
H12-57	57	6.718	6.884	2.950	0.750	£123.13	£96.80
H12-58	58	6.835	7.002	2.950	0.750	£123.55	£97.82
H12-59	59	6.953	7.120	2.950	0.750	£123.88	£102.35
H12-60	60	7.071	7.238	2.950	0.750	£124.18	£102.36
H12-62	62	7.307	7.473	2.950	0.750	£132.34	£105.88
H12-64	64	7.542	7.709	2.950	0.750	£138.65	£109.63
H12-65	65	7.660	7.827	2.950	0.750	£139.19	£110.40
H12-66	66	7.778	7.945	2.950	0.750	£139.25	£111.64
H12-68	68	8.014	8.181	2.950	1.000	£147.41	£117.94
H12-70	70	8.250	8.416	2.950	1.000	£160.56	£128.45
H12-71	71	8.367	8.534	2.950	1.000	£173.03	£131.11
H12-72	72	8.485	8.652	2.950	1.000	£173.83	£134.16
H12-73	73	8.603	8.770	2.950	1.000	£174.54	£137.29
H12-74	74	8.721	8.888	2.950	1.000	£174.76	£140.06
H12-75	75	8.839	9.006	2.950	1.000	£187.91	£150.56
H12-76	76	8.957	9.123	2.950	1.000	£188.31	£154.12
H12-78	78	9.192	9.359	2.950	1.000	£201.92	£161.25
H12-80	80	9.428	9.595	2.950	1.000	£202.95	£162.72
H12-86	86	10.135	10.302	2.950	1.000	£206.49	£165.11
H12-90	90	10.607	10.773	2.950	1.000	£217.34	£175.19
H12-96	96	11.314	11.480	2.950	1.000	£230.74	£188.29
H12-98	98	11.549	11.716	2.950	1.000	£274.11	£208.51
H12-100	100	11.785	11.952	2.950	1.000	£291.04	£230.55

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin
(fully machined)

12 DP

45° H.A.
20° P.A.

SPECIAL TEETH : between 9 - 66

SPECIALS
ON DEMAND

TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.50



RH 45°

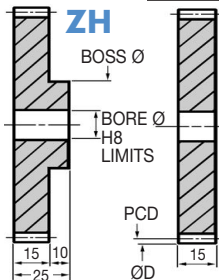


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic DP 12

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	ZH	ZPH
ZH12-9	9	1.179	1.345	0.984	12	£11.11	£8.51	
ZH12-10	10	1.179	1.345	0.984	12	£11.15	£8.53	
ZH12-11	11	1.296	1.463	1.063	12	£13.30	£10.15	
ZH12-12	12	1.414	1.581	1.181	12	£13.68	£10.50	
ZH12-13	13	1.532	1.699	1.181	12	£14.35	£10.97	
ZH12-14	14	1.650	1.817	1.181	12	£14.64	£11.21	
ZH12-15	15	1.768	1.934	1.181	12	£15.93	£12.16	
ZH12-16	16	1.886	2.052	1.181	12	£16.44	£12.62	
ZH12-17	17	2.003	2.170	1.378	12	£20.91	£16.09	
ZH12-18	18	2.121	2.288	1.378	12	£21.52	£16.53	
ZH12-19	19	2.239	2.406	1.378	12	£25.13	£19.33	
ZH12-20	20	2.357	2.524	1.378	12	£25.74	£19.69	
ZH12-21	21	2.475	2.642	1.378	12	£26.90	£20.64	
ZH12-22	22	2.593	2.759	1.378	12	£27.68	£21.24	
ZH12-23	23	2.711	2.877	1.378	12	£31.35	£24.07	
ZH12-24	24	2.828	2.995	1.378	12	£34.61	£26.55	
ZH12-25	25	2.946	3.113	1.378	12	£36.11	£27.68	
ZH12-26	26	3.064	3.231	1.771	15	£37.05	£28.40	
ZH12-27	27	3.182	3.349	1.771	15	£38.96	£29.93	
ZH12-28	28	3.300	3.466	1.771	15	£41.90	£32.14	
ZH12-29	29	3.418	3.584	1.771	15	£46.96	£35.98	
ZH12-30	30	3.536	3.702	1.771	15	£47.92	£36.74	
ZH12-31	31	3.653	3.820	1.771	15	£48.24	£36.97	

25.68



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

10 DP

45°H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	10.129	66.560	5.064	3.617
	K.W.	1.062	6.975	0.5304	0.229

RH 45°

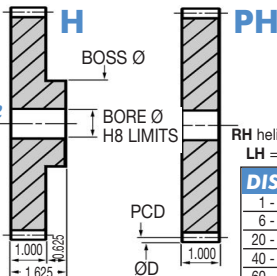


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H10-9	9	1.414	1.614	1.000	0.625	£26.71	£16.22
H10-10	10	1.414	1.614	1.000	0.625	£26.80	£19.04
H10-11	11	1.556	1.756	1.250	0.625	£28.39	£20.87
H10-12	12	1.697	1.897	1.375	0.750	£29.07	£20.92
H10-13	13	1.838	2.038	1.375	0.750	£30.79	£23.42
H10-14	14	1.980	2.180	1.375	0.750	£31.91	£24.45
H10-15	15	2.121	2.321	1.500	0.750	£33.85	£26.32
H10-16	16	2.263	2.463	1.500	0.750	£34.93	£27.21
H10-17	17	2.404	2.604	1.500	0.750	£35.71	£28.13
H10-18	18	2.546	2.746	1.500	0.875	£37.67	£30.00
H10-19	19	2.687	2.887	1.500	0.875	£38.65	£30.79
H10-20	20	2.828	3.028	1.970	0.875	£40.68	£32.78
H10-21	21	2.970	3.170	1.970	0.875	£41.47	£33.72
H10-22	22	3.111	3.311	1.970	0.875	£44.27	£37.21
H10-23	23	3.253	3.453	1.970	0.875	£45.08	£38.40
H10-24	24	3.394	3.594	1.970	0.875	£45.93	£40.68
H10-25	25	3.536	3.736	1.970	0.875	£49.72	£44.16
H10-26	26	3.677	3.877	1.970	0.875	£50.89	£45.21
H10-27	27	3.818	4.018	2.375	0.875	£51.93	£47.01
H10-28	28	3.960	4.160	2.375	0.875	£52.47	£47.66
H10-29	29	4.101	4.301	2.375	0.875	£54.61	£49.27
H10-30	30	4.243	4.443	2.375	0.875	£58.18	£51.93
H10-31	31	4.384	4.584	2.375	0.875	£59.35	£52.82

Helical Gears Crossed Axis Steel DP 10

25.70



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H10-32	32	4.525	4.725	2.375	0.875	£62.64	£55.26
H10-33	33	4.667	4.867	2.375	0.875	£64.17	£56.12
H10-34	34	4.808	5.008	2.375	0.875	£65.57	£57.66
H10-35	35	4.950	5.150	2.375	0.875	£69.19	£60.98
H10-36	36	5.091	5.291	2.375	0.875	£69.75	£61.80
H10-37	37	5.233	5.433	2.375	0.875	£71.36	£63.49
H10-38	38	5.374	5.574	2.375	0.875	£76.17	£64.34
H10-39	39	5.515	5.715	2.375	0.875	£80.67	£68.15
H10-40	40	5.657	5.857	2.375	0.875	£81.94	£68.84
H10-41	41	5.798	5.998	2.375	0.875	£83.61	£69.42
H10-42	42	5.940	6.140	4.000	0.875	£85.85	£70.88
H10-43	43	6.081	6.281	4.000	0.875	£96.38	£75.89
H10-44	44	6.223	6.423	4.000	0.875	£110.22	£81.22
H10-45	45	6.364	6.564	4.000	0.875	£110.35	£81.33
H10-46	46	6.505	6.705	4.000	0.875	£117.63	£84.80
H10-47	47	6.647	6.847	4.000	0.875	£135.04	£94.08
H10-48	48	6.788	6.988	4.000	0.875	£135.14	£94.14
H10-49	49	6.930	7.130	4.000	0.875	£142.22	£98.71
H10-50	50	7.071	7.271	4.000	0.875	£147.85	£100.62
H10-51	51	7.212	7.412	4.000	0.875	£167.15	£105.11
H10-52	52	7.354	7.554	4.000	0.875	£173.76	£109.60
H10-53	53	7.495	7.695	4.000	0.875	£180.41	£112.60
H10-54	54	7.637	7.837	4.000	0.875	£190.16	£133.31
H10-55	55	7.778	7.978	4.000	0.875	£190.43	£132.29
H10-56	56	7.920	8.120	5.000	1.000	£193.82	£138.65
H10-57	57	8.061	8.261	5.000	1.000	£194.53	£157.72
H10-58	58	8.202	8.402	5.000	1.000	£195.76	£158.00
H10-59	59	8.344	8.544	5.000	1.000	£196.46	£161.11
H10-60	60	8.485	8.685	5.000	1.000	£197.53	£166.13
H10-62	62	8.768	8.968	5.000	1.000	£216.05	£172.85
H10-64	64	9.051	9.251	5.000	1.000	£241.09	£195.08
H10-65	65	9.192	9.392	5.000	1.000	£242.26	£198.57
H10-66	66	9.334	9.534	5.000	1.000	£243.90	£203.45
H10-68	68	9.617	9.817	5.000	1.000	£245.96	£206.53
H10-70	70	9.899	10.099	5.000	1.000	£263.33	£210.62
H10-71	71	10.041	10.241	5.000	1.000	£275.93	£231.14
H10-72	72	10.182	10.382	5.000	1.000	£285.71	£239.55
H10-73	73	10.324	10.524	5.000	1.000	£288.07	£244.21
H10-74	74	10.465	10.665	5.000	1.000	£288.92	£248.36
H10-75	75	10.607	10.807	5.000	1.000	£311.59	£252.40
H10-76	76	10.748	10.948	5.000	1.000	£315.57	£256.01
H10-78	78	11.031	11.231	5.000	1.000	£358.69	£260.43
H10-80	80	11.314	11.514	5.000	1.000	£386.61	£279.37

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

STD : White Delrin
(fully machined)

10 DP

45° H.A.
20° P.A.

SPECIALS : up to Ø750 mm



RH 45°



LH available
on request.

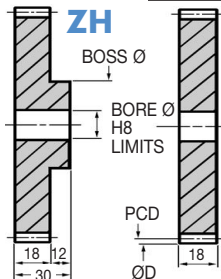
RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 3.00



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	List Price
1 - 5	
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic DP 10

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH10-9	9	1.414	1.614	1.181	12	£14.76	£11.30
ZH10-10	10	1.414	1.614	1.181	12	£14.78	£11.34
ZH10-11	11	1.556	1.756	1.181	12	£15.71	£12.06
ZH10-12	12	1.697	1.897	1.181	12	£21.98	£16.81
ZH10-13	13	1.838	2.038	1.417	12	£23.30	£17.87
ZH10-14	14	1.980	2.180	1.417	12	£24.13	£18.48
ZH10-15	15	2.121	2.321	1.417	12	£28.97	£22.26
ZH10-16	16	2.263	2.463	1.417	12	£29.93	£22.94
ZH10-17	17	2.404	2.604	1.417	12	£30.72	£23.53
ZH10-18	18	2.546	2.746	1.417	12	£32.27	£24.73
ZH10-19	19	2.687	2.887	1.417	12	£35.11	£26.93
ZH10-20	20	2.828	3.028	1.771	15	£36.97	£28.28
ZH10-21	21	2.970	3.170	1.771	15	£37.68	£28.89
ZH10-22	22	3.111	3.311	1.771	15	£38.77	£30.78
ZH10-23	23	3.253	3.453	1.771	15	£40.93	£31.35
ZH10-24	24	3.394	3.594	1.771	15	£46.34	£35.58
ZH10-25	25	3.536	3.736	1.771	15	£50.10	£38.47
ZH10-26	26	3.677	3.877	1.968	17	£51.37	£39.36
ZH10-27	27	3.818	4.018	1.968	17	£57.62	£44.16
ZH10-28	28	3.960	4.160	1.968	17	£58.22	£44.67
ZH10-29	29	4.101	4.301	1.968	17	£60.59	£46.51
ZH10-30	30	4.243	4.443	1.968	17	£64.56	£48.01
ZH10-31	31	4.384	4.584	1.968	17	£65.87	£50.58

25.72



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH10-32	32	4.525	4.725	1.968	17	£75.87	£58.20
ZH10-33	33	4.667	4.867	1.968	17	£77.72	£59.63
ZH10-34	34	4.808	5.008	1.968	17	£79.43	£60.91
ZH10-35	35	4.950	5.150	1.968	17	£82.75	£64.26
ZH10-36	36	5.091	5.291	1.968	17	£84.49	£64.82
ZH10-37	37	5.233	5.433	1.968	17	£86.42	£66.26
ZH10-38	38	5.374	5.574	1.968	17	£87.41	£67.01
ZH10-39	39	5.515	5.715	1.968	17	£101.25	£76.12
ZH10-40	40	5.657	5.857	2.559	20	£107.40	£82.42
ZH10-41	41	5.798	5.998	2.559	20	£122.74	£84.15
ZH10-42	42	5.940	6.140	2.559	20	£145.87	£86.45
ZH10-43	43	6.081	6.281	2.559	20	£166.76	£112.00
ZH10-44	44	6.223	6.423	2.559	20	£167.02	£127.73
ZH10-45	45	6.364	6.564	2.559	20	£178.10	£128.15
ZH10-46	46	6.505	6.705	2.559	20	£204.15	£136.63
ZH10-47	47	6.647	6.847	2.559	20	£204.60	£155.97
ZH10-48	48	6.788	6.988	2.559	20	£215.31	£156.99
ZH10-49	49	6.930	7.130	2.559	20	£223.83	£165.21
ZH10-50	50	7.071	7.271	2.559	20	£253.04	£171.73
ZH10-51	51	7.212	7.412	2.559	20	£263.04	£194.52
ZH10-52	52	7.354	7.554	2.559	20	£273.08	£201.80
ZH10-53	53	7.495	7.695	2.559	20	£286.21	£209.52
ZH10-54	54	7.637	7.837	2.559	20	£287.49	£220.90
ZH10-55	55	7.778	7.978	2.559	20	£288.28	£221.18

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

8 DP 45°H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A. SPECIALS : up to Ø750 mm

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	18.918	124.127	9.459	6.746
	K.W.	1.982	13.008	0.991	0.707



RH 45°



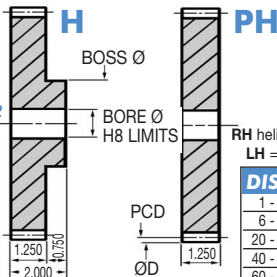
LH available
on request.

RH 45°

RH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H8-9	9	1.768	2.018	1.375	0.750	£36.21	£26.69
H8-10	10	1.768	2.018	1.375	0.750	£36.23	£26.71
H8-11	11	1.945	2.195	1.500	0.750	£38.28	£26.80
H8-12	12	2.121	2.371	1.625	1.000	£39.69	£33.50
H8-13	13	2.298	2.548	1.750	1.000	£42.48	£36.23
H8-14	14	2.475	2.725	2.000	1.000	£44.14	£37.40
H8-15	15	2.652	2.902	2.000	1.000	£46.51	£39.63
H8-16	16	2.828	3.078	2.000	1.000	£47.92	£40.84
H8-17	17	3.005	3.255	2.000	1.000	£49.27	£41.88
H8-18	18	3.182	3.432	2.000	1.000	£52.02	£44.04
H8-19	19	3.359	3.609	2.000	1.000	£53.48	£45.08
H8-20	20	3.536	3.786	2.000	1.000	£56.90	£48.05
H8-21	21	3.712	3.962	2.000	1.000	£59.12	£48.53
H8-22	22	3.889	4.139	2.000	1.000	£63.43	£53.15
H8-23	23	4.066	4.316	2.000	1.000	£66.12	£55.50
H8-24	24	4.243	4.493	2.500	1.250	£68.06	£57.76
H8-25	25	4.419	4.669	2.500	1.250	£68.20	£57.99
H8-26	26	4.596	4.846	2.500	1.250	£77.31	£65.70
H8-27	27	4.773	5.023	2.500	1.250	£91.44	£77.70
H8-28	28	4.950	5.200	2.500	1.250	£99.07	£84.17
H8-29	29	5.127	5.377	2.500	1.250	£104.25	£88.72
H8-30	30	5.303	5.553	2.500	1.250	£115.44	£98.11
H8-31	31	5.480	5.730	2.500	1.250	£118.36	£100.56

Helical Gears Crossed Axis Steel DP 8

25.74



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H8-32	32	5.657	5.907	2.500	1.250	£123.13	£104.65
H8-33	33	5.834	6.084	2.500	1.250	£129.66	£110.20
H8-34	34	6.010	6.260	2.500	1.250	£139.31	£118.44
H8-35	35	6.187	6.437	2.500	1.250	£142.55	£121.15
H8-36	36	6.364	6.614	4.000	1.250	£146.11	£124.18
H8-37	37	6.541	6.791	4.000	1.250	£153.73	£130.63
H8-38	38	6.718	6.968	4.000	1.250	£157.53	£133.91
H8-39	39	6.894	7.144	4.000	1.250	£163.25	£138.81
H8-40	40	7.071	7.321	4.000	1.250	£169.37	£143.98
H8-41	41	7.248	7.498	4.000	1.250	£175.01	£148.73
H8-42	42	7.425	7.675	4.000	1.250	£180.42	£153.39
H8-43	43	7.601	7.851	4.000	1.250	£185.13	£157.35
H8-44	44	7.778	8.028	4.000	1.250	£195.43	£166.06
H8-45	45	7.955	8.205	4.000	1.250	£199.56	£169.57
H8-46	46	8.132	8.382	4.000	1.250	£250.17	£212.51
H8-47	47	8.309	8.559	4.000	1.250	£250.72	£212.92
H8-48	48	8.485	8.735	6.000	1.250	£251.37	£213.61
H8-49	49	8.662	8.912	6.000	1.250	£253.38	£215.36
H8-50	50	8.839	9.089	6.000	1.250	£266.88	£226.80
H8-51	51	9.016	9.266	6.000	1.250	£279.53	£231.85
H8-52	52	9.192	9.442	6.000	1.250	£279.98	£238.35
H8-53	53	9.369	9.619	6.000	1.250	£280.42	£248.10
H8-54	54	9.546	9.796	6.000	1.250	£309.89	£263.64
H8-55	55	9.723	9.973	6.000	1.250	£310.19	£274.37
H8-56	56	9.899	10.149	6.000	1.250	£335.16	£284.88
H8-57	57	10.076	10.326	6.000	1.250	£355.46	£295.96
H8-58	58	10.253	10.503	6.000	1.250	£355.83	£302.45
H8-59	59	10.430	10.680	6.000	1.250	£369.06	£313.72
H8-60	60	10.607	10.857	6.000	1.250	£380.57	£323.52
H8-61	61	10.783	11.033	6.000	1.250	£400.12	£338.20
H8-62	62	10.960	11.210	6.000	1.250	£405.50	£344.65
H8-63	63	11.137	11.387	6.000	1.250	£421.73	£358.44
H8-64	64	11.314	11.564	6.000	1.250	£438.02	£372.48
H8-65	65	11.490	11.740	6.000	1.250	£450.62	£384.11
H8-68	68	12.021	12.271	6.000	1.250	£469.82	£403.76
H8-70	70	12.374	12.624	6.000	1.250	£486.68	£420.29

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

8 DP

45° H.A.
20° P.A.

STD : White Delrin
(fully machined)

SPECIALS : up to Ø750 mm



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 5.00

RH 45°

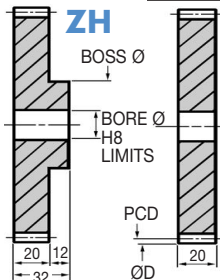


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

RH helix is standard.
LH = price + 33%.

DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

Helical Gears Crossed Axis Plastic DP 8

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH8-9	9	1.768	2.018	1.417	15	£27.39	£20.94
ZH8-10	10	1.768	2.018	1.574	15	£27.40	£20.96
ZH8-11	11	1.945	2.195	1.574	15	£28.97	£22.20
ZH8-12	12	2.121	2.371	1.574	15	£34.02	£26.09
ZH8-13	13	2.298	2.548	1.889	15	£36.36	£27.91
ZH8-14	14	2.475	2.725	1.889	15	£37.85	£28.99
ZH8-15	15	2.652	2.902	1.889	15	£39.91	£30.55
ZH8-16	16	2.828	3.078	1.889	15	£43.53	£33.35
ZH8-17	17	3.005	3.255	1.889	15	£44.73	£34.29
ZH8-18	18	3.182	3.432	1.889	15	£47.27	£36.24
ZH8-19	19	3.359	3.609	2.362	20	£48.55	£37.29
ZH8-20	20	3.536	3.786	2.362	20	£54.69	£39.63
ZH8-21	21	3.712	3.962	2.362	20	£65.62	£50.34
ZH8-22	22	3.889	4.139	2.362	20	£70.39	£53.96
ZH8-23	23	4.066	4.316	2.362	20	£73.39	£56.32
ZH8-24	24	4.243	4.493	2.362	20	£75.59	£57.96
ZH8-25	25	4.419	4.669	2.362	20	£75.74	£58.07
ZH8-26	26	4.596	4.846	2.362	20	£85.80	£65.84
ZH8-27	27	4.773	5.023	2.362	20	£110.70	£84.95
ZH8-28	28	4.950	5.200	2.362	20	£129.97	£99.71
ZH8-29	29	5.127	5.377	2.362	20	£136.85	£104.99
ZH8-30	30	5.303	5.553	2.362	20	£151.48	£116.22
ZH8-31	31	5.480	5.730	2.362	20	£155.30	£119.13

25.76



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZH	ZPH
ZH8-32	32	5.657	5.907	2.362	20	£161.49	£123.94
ZH8-33	33	5.834	6.084	2.362	20	£170.16	£130.51
ZH8-34	34	6.010	6.260	2.362	20	£182.80	£140.27
ZH8-35	35	6.187	6.437	2.362	20	£215.78	£165.57
ZH8-36	36	6.364	6.614	2.362	20	£221.13	£169.68
ZH8-37	37	6.541	6.791	2.362	20	£232.70	£178.56
ZH8-38	38	6.718	6.968	2.362	20	£238.47	£183.03
ZH8-39	39	6.894	7.144	2.362	20	£247.12	£189.62
ZH8-40	40	7.071	7.321	3.149	20	£256.41	£196.75
ZH8-41	41	7.248	7.498	3.149	20	£264.89	£203.31
ZH8-42	42	7.425	7.675	3.149	20	£273.31	£209.70
ZH8-43	43	7.601	7.851	3.149	20	£280.24	£215.05
ZH8-44	44	7.778	8.028	3.149	20	£325.02	£249.35
ZH8-45	45	7.955	8.205	3.149	20	£325.42	£249.78

Up to Ø750 mm

Helical Gears Crossed Axis Plastic DP 8

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

6 DP 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	42.338	278.485	21.169	15.121
	K.W.	4.436	29.184	2.218	1.584

RH 45°

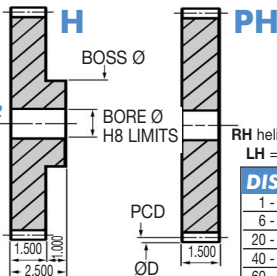


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H6-9	9	2.357	2.690	1.750	1.000	£42.20	£38.04
H6-10	10	2.357	2.690	1.750	1.000	£52.47	£45.54
H6-11	11	2.593	2.926	1.750	1.000	£61.46	£48.79
H6-12	12	2.828	3.162	2.000	1.250	£67.19	£57.12
H6-13	13	3.064	3.397	2.000	1.250	£73.88	£62.76
H6-14	14	3.300	3.633	2.000	1.250	£75.66	£64.28
H6-15	15	3.536	3.869	2.500	1.500	£86.36	£73.35
H6-16	16	3.771	4.105	2.500	1.500	£90.86	£77.24
H6-17	17	4.007	4.340	2.500	1.500	£99.00	£84.16
H6-18	18	4.243	4.576	2.500	1.500	£103.02	£85.88
H6-19	19	4.478	4.812	2.500	1.500	£109.61	£90.42
H6-20	20	4.714	5.047	3.000	1.500	£112.68	£95.77
H6-21	21	4.950	5.283	3.000	1.500	£119.39	£101.46
H6-22	22	5.185	5.519	3.000	1.500	£138.86	£118.03
H6-23	23	5.421	5.754	3.000	1.500	£145.33	£123.51
H6-24	24	5.657	5.990	3.000	1.500	£148.55	£126.27
H6-25	25	5.893	6.226	3.000	1.500	£154.64	£131.46
H6-26	26	6.128	6.462	3.000	1.500	£160.41	£136.32
H6-27	27	6.364	6.697	4.000	1.500	£184.14	£156.96
H6-28	28	6.600	6.933	4.000	1.500	£191.52	£162.72
H6-29	29	6.835	7.169	4.000	1.500	£193.42	£164.46
H6-30	30	7.071	7.404	4.000	1.500	£209.19	£177.83
H6-31	31	7.307	7.640	4.000	1.500	£215.60	£183.19

Helical Gears Crossed Axis Steel DP 6

25.78



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H6-32	32	7.542	7.876	4.000	1.500	£232.37	£197.50
H6-33	33	7.778	8.112	6.000	1.500	£246.34	£209.38
H6-34	34	8.014	8.347	6.000	1.500	£256.66	£218.11
H6-35	35	8.250	8.583	6.000	1.500	£265.49	£225.64
H6-36	36	8.485	8.819	6.000	1.500	£289.39	£245.96
H6-37	37	8.721	9.054	6.000	1.500	£302.13	£256.79
H6-38	38	8.957	9.290	6.000	1.500	£308.43	£272.72
H6-39	39	9.192	9.526	6.000	1.500	£320.86	£281.59
H6-40	40	9.428	9.761	6.000	1.500	£327.56	£292.03
H6-41	41	9.664	9.997	6.000	1.500	£331.37	£298.70
H6-42	42	9.899	10.233	6.000	1.500	£351.44	£358.99
H6-43	43	10.135	10.469	6.000	1.500	£418.82	£364.97
H6-44	44	10.371	10.704	6.000	1.500	£429.41	£386.52
H6-45	45	10.607	10.940	6.000	1.500	£437.72	£398.80
H6-46	46	10.842	11.176	6.000	1.500	£469.12	£408.10
H6-47	47	11.078	11.411	6.000	1.500	£484.66	£417.24
H6-48	48	11.314	11.647	6.000	1.500	£513.34	£427.40
H6-49	49	11.549	11.883	6.000	1.500	£542.57	£437.93
H6-50	50	11.785	12.118	6.000	1.500	£571.84	£445.53
H6-51	51	12.021	12.354	8.000	1.500	£601.08	£454.99
H6-52	52	12.257	12.590	8.000	1.500	£627.06	£467.80
H6-53	53	12.492	12.826	8.000	1.500	£646.57	£475.82
H6-54	54	12.728	13.061	8.000	1.500	£662.81	£486.49
H6-55	55	12.964	13.297	8.000	1.500	£692.06	£496.75
H6-56	56	13.199	13.533	8.000	1.500	£718.03	£509.50
H6-57	57	13.435	13.768	8.000	1.500	£753.80	£518.46
H6-58	58	13.671	14.004	8.000	1.500	£789.58	£532.69
H6-59	59	13.906	14.240	8.000	1.500	£809.02	£540.61
H6-60	60	14.142	14.475	8.000	1.500	£822.10	£550.39

Up to Ø750 mm

'Never Knowingly Outpriced'

Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.



Engineering Materials

Pages 26.2 – 26.6

TECHNICAL

Pages 27.11 – 27.14



STD : Acetal Copolymer in Natural or Black

Acetal Copolymer

Properties

- Strong and rigid, tough, good sliding properties
- Resistant to dilute acids, cleaning agents, numerous solvents
- Very good electrical insulation, easily machined
- Not resistant long term to water over 60°C, easily welded

Preferred Fields

- Mechanical engineering, automotive engineering
- Transport and conveyor technology, electrical engineering
- Precision engineering, household appliances
- Food technology, medical technology

Applications

- Friction bearings, gears, tool support, housing parts, rollers
- Friction strips, plugs, insulators, agitators and kneading elements, seals

Other diameter bars and lengths available on request.



DISCOUNTS

1 - 19	List Price
20 - 39	- 10%
40 +	- 20%

NATURAL

PART NUMBER	PART NUMBER	Nominal Diameter	PRICE 1-19 1 metre	PRICE 1-19 2 metre
ACE04N1	ACE04N2	4	£1.31	£2.75
ACE05N1	ACE05N2	5	£2.04	£4.21
ACE06N1	ACE06N2	6	£2.52	£5.12
ACE08N1	ACE08N2	8	£3.70	£7.49
ACE10N1	ACE10N2	10	£5.19	£10.44
ACE12N1	ACE12N2	12	£7.53	£15.19
ACE14N1	ACE14N2	14	£10.44	£20.95
ACE16N1	ACE16N2	16	£12.79	£25.74
ACE18N1	ACE18N2	18	£16.14	£32.33
ACE20N1	ACE20N2	20	£16.77	£33.63
ACE22N1	ACE22N2	22	£22.66	£45.36
ACE25N1	ACE25N2	25	£23.32	£52.81
ACE28N1	ACE28N2	28	£35.23	£70.54
ACE30N1	ACE30N2	30	£35.98	£72.10
ACE32N1	ACE32N2	32	£45.89	£91.85
ACE36N1	ACE36N2	36	£51.25	£102.59
ACE40N1	ACE40N2	40	£63.53	£127.13
ACE45N1	ACE45N2	45	£80.83	£161.73
ACE50N1	ACE50N2	50	£92.07	£184.22
ACE56N1	ACE56N2	56	£120.91	£241.96
ACE60N1	ACE60N2	60	£132.00	£264.16
ACE65N1	ACE65N2	65	£154.27	£308.69
ACE70N1	ACE70N2	70	£230.40	£460.90
ACE75N1	ACE75N2	75	£265.40	£530.94
ACE80N1	ACE80N2	80	£313.91	£627.94
ACE90N1	ACE90N2	90	£396.97	£794.05
ACE100N1	ACE100N2	100	£488.43	£976.85
ACE150N1	ACE150N2	150	£736.18	£1472.36
ACE200N1	ACE200N2	200	£983.93	£1967.87
ACE250N1	ACE250N2	250	£1191.58	£2383.16
ACE300N1	ACE300N2	300	£1963.15	£3926.30

BLACK

PART NUMBER	PART NUMBER	Nominal Diameter	PRICE 1-19 1 metre	PRICE 1-19 2 metre
ACE05B1	ACE05B2	5	£2.04	£4.21
ACE06B1	ACE06B2	6	£2.51	£5.12
ACE08B1	ACE08B2	8	£3.70	£7.49
ACE10B1	ACE10B2	10	£5.19	£10.44
ACE12B1	ACE12B2	12	£7.53	£15.19
ACE14B1	ACE14B2	14	£10.44	£20.95
ACE16B1	ACE16B2	16	£12.79	£25.74
ACE18B1	ACE18B2	18	£16.14	£32.33
ACE20B1	ACE20B2	20	£16.77	£33.63
ACE22B1	ACE22B2	22	£22.66	£45.36
ACE25B1	ACE25B2	25	£26.33	£52.81
ACE28B1	ACE28B2	28	£35.23	£70.54
ACE30B1	ACE30B2	30	£35.98	£72.10
ACE32B1	ACE32B2	32	£45.89	£91.85
ACE36B1	ACE36B2	36	£51.25	£102.59
ACE40B1	ACE40B2	40	£63.53	£127.13
ACE45B1	ACE45B2	45	£80.83	£161.73
ACE50B1	ACE50B2	50	£92.07	£184.22
ACE56B1	ACE56B2	56	£120.91	£241.96
ACE60B1	ACE60B2	60	£132.00	£264.16
ACE70B1	ACE70B2	70	£230.40	£460.90
ACE75B1	ACE75B2	75	£265.40	£530.94
ACE80B1	ACE80B2	80	£313.91	£627.94
ACE90B1	ACE90B2	90	£396.97	£794.05
ACE100B1	ACE100B2	100	£488.43	£976.85
ACE150B1	ACE150B2	150	£736.18	£1472.36
ACE200B1	ACE200B2	200	£983.93	£1967.87
ACE250B1	ACE250B2	250	£1191.58	£2383.16
ACE300B1	ACE300B2	300	£1963.15	£3926.30

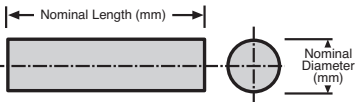
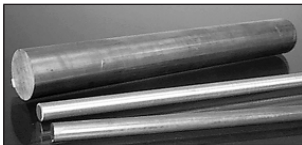
Engineering Materials
TYPE ACE

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

Telephone +44(0)1246 268080 Fax +44(0)1246 260003



26.3



DISCOUNTS

1 - 19	List Price
20 - 39	- 10%
40 +	- 20%

ALUMINIUM

Maximum machinability, good strength, reduced corrosion resistance. Free Machining.

Applications Light gears, pulleys, housings.

BRASS

High Speed machining = low cost production.

ALUMINIUM

BRASS

PART NUMBER	Nominal Diameter	Weight Approx kg / 300mm	PRICE EACH 1 - 19
ALU-6.35	6.35 x 300	0.08	£2.15
ALU-12.70	12.70 x 300	0.32	£2.19
ALU-15.88	15.88 x 300	0.51	£2.62
ALU-19.05	19.05 x 300	0.73	£3.36
ALU-22.22	22.22 x 300	1.00	£4.36
ALU-25.40	25.40 x 300	1.31	£5.36
ALU-28.57	28.57 x 300	1.65	£6.78
ALU-31.75	31.75 x 300	2.06	£9.29
ALU-34.92	34.92 x 300	2.47	£9.77
ALU-38.10	38.10 x 300	2.94	£11.53
ALU-44.45	44.45 x 300	4.09	£16.42
ALU-50.80	50.80 x 300	5.24	£21.95
ALU-76.20	76.20 x 300	8.00	£44.13
ALU-101.00	101 x 300	15.00	£82.56
ALU-127.00	127 x 300	23.00	£122.03
ALU-152.00	152 x 300	32.00	£174.23
ALU-203.00	203 x 300	60.00	£323.60

Other diameter bars and lengths available on request.

All sizes in mm.

Tolerances: ± 1 mm on Diameter
 ± 5 mm on Length

All sizes in mm.

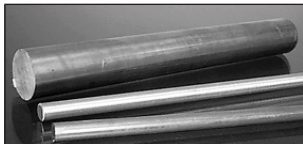
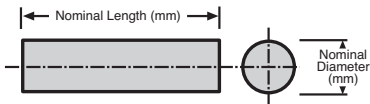
PART NUMBER	Nominal Diameter	Weight Approx kg / 300mm	PRICE EACH 1 - 19
CZB-3	3.00 x 300	0.05	£2.35
CZB-3.18	3.18 x 300	0.06	£2.50
CZB-4	4.00 x 300	0.09	£3.16
CZB-5	5.00 x 300	0.15	£3.37
CZB-6	6.00 x 300	0.21	£3.79
CZB-6.35	6.35 x 300	0.24	£4.56
CZB-8	8.00 x 300	0.38	£6.36
CZB-9.52	9.52 x 300	0.55	£7.72
CZB-10	10.00 x 300	0.60	£8.32
CZB-12	12.00 x 300	0.87	£5.29
CZB-12.70	12.70 x 300	0.97	£9.37
CZB-15.88	15.88 x 300	1.52	£10.75
CZB-16	16.00 x 300	1.55	£11.50
CZB-19.05	19.05 x 300	2.20	£12.09
CZB-20	20.00 x 300	2.42	£15.78
CZB-22.22	22.22 x 300	2.99	£19.90
CZB-24	24.00 x 300	3.49	£21.13
CZB-25.40	25.40 x 300	3.91	£23.10
CZB-28.57	28.57 x 300	4.95	£33.69
CZB-30	30.00 x 300	5.46	£36.26
CZB-31.75	31.75 x 300	6.11	£40.62
CZB-34.92	34.92 x 300	7.40	£49.15
CZB-38.10	38.10 x 300	8.80	£58.47
CZB-40	40.00 x 300	9.71	£79.67
CZB-44.45	44.45 x 300	11.99	£91.13
CZB-50	50.00 x 300	15.17	£104.09
CZB-50.80	50.80 x 300	15.66	£110.22
CZB-76.20	76.20 x 300	18.00	£212.84
CZB-101	101 x 300	10.00	£236.25
CZB-152	152 x 300	46.00	£544.96
CZB-203	203 x 300	82.00	£998.20

Materials

Engineering Materials

STD : Steel (En202) BS 214 M15
and (En24) BS 817 M40

Steel



En202 BRIGHT

A range of bright mild steel rod, suitable for case hardening. Used for a wide range of lightly stressed components. The steel possesses good machining properties and can be readily welded.

Applications

Natural State - shafts, pins, rollers, etc.
Case Hardened State - gears, cams, collets, ratchets, etc.

Other diameter bars and lengths available on request.

All sizes in mm.

**Tolerances: ± 1 mm on Diameter
± 5mm on Length**

En24 BRIGHT

A range of popular direct hardening alloy steel suitable for heat treating to a wide range of mechanical properties. Exhibits good resistance to wear, ductility and shock resistance.

Applications

Gears, shafts, axles, etc.

DISCOUNTS

	List Price
1 - 19	
20 - 39	- 10%
40 +	- 20%

En202 BRIGHT

PART NUMBER	Nom dia. x Nom Length	Weight Approx.	PRICE EACH 1 - 19
214-12.70	12.70 x 300	0.28	£2.22
214-15.88	15.88 x 300	0.43	£3.07
214-19.05	19.05 x 300	0.62	£4.53
214-22.22	22.22 x 300	0.82	£6.14
214-25.40	25.40 x 300	1.12	£7.87
214-28.57	28.57 x 300	1.41	£10.28
214-31.75	31.75 x 300	1.75	£12.68
214-34.92	34.92 x 300	2.11	£15.39
214-38.10	38.10 x 300	2.51	£18.37
214-50.80	50.80 x 300	4.48	£32.66
214-63.50	63.50 x 300	7.20	£55.45
214-76.20	76.20 x 300	25.00	£84.34
214-88.90	88.90 x 300	33.00	£97.80

En24 BRIGHT

PART NUMBER	Nom dia. x Nom Length	Weight Approx.	PRICE EACH 1 - 19
817-12.70	12.70 x 300	0.28	£3.37
817-15.88	15.88 x 300	0.43	£4.53
817-19.05	19.05 x 300	0.62	£6.24
817-22.22	22.22 x 300	0.82	£9.15
817-25.40	25.40 x 300	1.12	£10.28
817-28.57	28.57 x 300	1.41	£16.44
817-31.75	31.75 x 300	1.75	£17.24
817-34.92	34.92 x 300	2.11	£21.41
817-38.10	38.10 x 300	2.51	£24.70
817-50.80	50.80 x 300	4.48	£42.56
817-63.50	63.50 x 300	7.20	£64.88
817-76.20	76.20 x 300	25.00	£102.64
817-88.90	88.90 x 300	33.00	£135.36

Please consult our Sales Department for larger diameter and other lengths.

Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN

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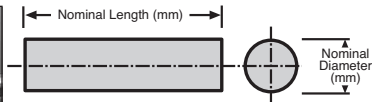
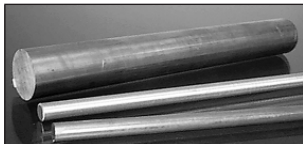


26.5

Engineering Materials
TYPE 214,817

**Stainless Steel, Bronze
& Aluminium Bronze**

**STD : Stainless Steel (303 S21), Lead Bronze
(SAE660), Aluminium Bronze (CA104)**



*Other diameter bars & lengths
available on request.
All sizes in mm.*

**Tolerances: ± 1 mm on Diameter
 ± 5 mm on Length**

BEARING BRONZE SAE660

PART NUMBER	Nom dia. x Nom Length	Weight Approx.	PRICE 1 - 19
BRO-12.70	12.70 x 300	1.20	£17.45
BRO-15.88	15.88 x 300	1.59	£20.67
BRO-19.05	19.05 x 300	1.59	£24.80
BRO-25.40	25.40 x 300	1.59	£37.86
BRO-31.75	31.75 x 300	6.94	£61.40
BRO-38.10	38.10 x 300	9.92	£82.85
BRO-44.45	44.45 x 300	12.83	£113.34
BRO-50.80	50.80 x 300	17.75	£184.04
BRO-76.20	76.20 x 300	17.75	£476.63
BRO-101	101 x 300	17.75	£560.39
BRO-152	152 x 300	17.75	£1053.53
BRO-203	203 x 300	17.75	£1815.67

STAINLESS STEEL

Austenitic, free machining, high corrosion resistance, suitable for repetition components.

BEARING BRONZE

General purpose free-machining lead bronze with good bearing properties.

ALUMINIUM BRONZE

Suitable applications for this material are gears, bearings and turbine parts, where wear and corrosion resistance are important. Used in high strength applications.

DISCOUNTS

1 - 19	List Price
20 - 39	- 10%
40 +	- 20%

STAINLESS STEEL 303S21

ALUM. BRONZE CA104

PART NUMBER	Nom dia. x Nom Length	Weight Approx.	PRICE 1 - 19
ALBR-9.53	9.53 x 300	0.49	£16.54
ALBR-12.70	12.70 x 300	0.87	£21.73
ALBR-15.88	15.88 x 300	1.37	£25.25
ALBR-19.05	19.05 x 300	1.97	£32.99
ALBR-22.22	22.22 x 300	2.69	£45.19
ALBR-25.40	25.40 x 300	3.51	£50.17
ALBR-31.75	31.75 x 300	5.49	£73.53
ALBR-38.10	38.10 x 300	7.91	£91.99
ALBR-44.45	44.45 x 300	10.76	£121.55
ALBR-50.80	50.80 x 300	14.06	£159.90
ALBR-76.20	76.20 x 300	21	£428.25
ALBR-101	101 x 300	25	£503.77
ALBR-152	152 x 300	47	£947.35
ALBR-203	203 x 300	81	£1633.99

PART NUMBER	Nom dia. x Nom Length	Weight Approx.	PRICE 1 - 19
STA-12	12 x 300	0.81	£3.64
STA-13	13 x 300	0.95	£3.94
STA-14	14 x 300	1.11	£5.70
STA-15	15 x 300	1.27	£6.28
STA-16	16 x 300	1.45	£6.69
STA-18	18 x 300	1.84	£7.03
STA-19	19 x 300	2.05	£7.56
STA-20	20 x 300	2.27	£8.45
STA-22	22 x 300	2.74	£10.22
STA-25	25 x 300	2.74	£13.25
STA-30	30 x 300	5.03	£19.03
STA-40	40 x 300	8.94	£33.97
STA-50	50 x 300	13.97	£53.13
STA-75	75 x 300	18.00	£121.04
STA-100	100 x 300	20.00	£134.49
STA-150	150 x 300	42.00	£282.44
STA-200	200 x 300	76.00	£511.08

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For free technical support

call **+44 (0)1246 268080**

or e-mail:

technical@hpcgears.com

All figures given are as a guide only and no responsibility is taken by HPC Gears Ltd for the use thereof.

For confirmation of any values please refer to British Standards.



METRIC

BORE or SHAFT Ø	KEYWAY	PIN HOLE Ø	GRUB SCREW
OVER UPTO			
4 - 6	-	1.50	M3
6 - 8	K2	2.00	M3
8 - 10	K3	3.00	M3
10 - 12	K4	4.00	M4
12 - 17	K5	5.00	M5
17 - 22	K6	6.00	M6
22 - 30	K8	8.00	M8
30 - 38	K10	10.00	M10
38 - 44	K12	10.00	M10
44 - 50	K14	10.00	M12
50 - 58	K16	10.00	M12

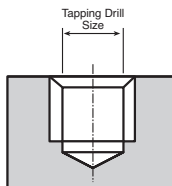
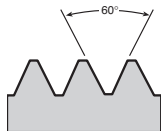
METRIC THREAD







TAPPING DRILL Ø (mm)	THREAD	PITCH (mm)	OUTSIDE Ø (mm)
1.60	M2	0.40	2.00
2.05	M2.5	0.45	2.50
2.50	M3	0.50	3.00
3.30	M4	0.70	4.00
4.20	M5	0.80	5.00
5.00	M6	1.00	6.00
6.00	M7	1.00	7.00
6.80	M8	1.25	8.00
8.50	M10	1.50	10.00
10.20	M12	1.75	12.00
12.00	M14	2.00	14.00
14.00	M16	2.00	16.00
15.50	M18	2.50	18.00
17.50	M20	2.50	20.00
19.50	M22	2.50	22.00
21.00	M24	3.00	24.00

IMPERIAL

BORE or SHAFT Ø (inches)	PIN HOLE Ø (inches)	GRUB SCREW
OVER UP TO		
0.156 - 0.312	0.031	M2.5
0.313 - 0.437	0.062	M3
0.438 - 0.562	0.125	M4
0.563 - 0.875	0.187	M5
0.876 - 1.250	0.250	M6
1.251 - 1.375	0.250	M8
1.376 - 1.750	0.375	M10
1.751 - 2.250	0.500	M12

Diameter of Shaft		Key size
Over	Up to and including	W x T
1/4	1/2	1/8 x 1/8
1/2	3/4	3/16 x 3/16
3/4	1	1/4 x 1/4
1	1 1/4	5/16 x 5/16
1 1/4	1 1/2	3/8 x 3/8
1 1/2	1 3/4	7/16 x 7/16
1 3/4	2	1/2 x 1/2
2	2 1/2	5/8 x 5/8
2 1/2	3	3/4 x 3/4



THREAD	Ø Hole for Tapping	Pitch mm	(TPI)	ØD mm	THREAD	Ø Hole for Tapping	Pitch mm	(TPI)	ØD mm
UNF 60° 					BSP 55° 				
2-64 UNF	1.90	0.40	64	2.18	1/8 BSP	8.75	0.91	28	9.73
3-56 UNF	2.15	0.45	56	2.51	1/4 BSP	11.80	1.34	19	13.16
4-48 UNF	2.40	0.53	48	2.84	3/8 BSP	15.25	1.34	19	16.66
6-40 UNF	2.95	0.64	40	3.51	1/2 BSP	19.05	1.81	14	20.96
8-36 UNF	3.55	0.71	36	4.17	5/8 BSP	21.03	1.81	14	22.91
10-32 UNF	4.10	0.79	32	4.83	3/4 BSP	24.50	1.81	14	26.44
12-28 UNF	4.65	0.91	28	5.49	7/8 BSP	28.25	1.81	14	30.20
1/4-28 UNF	5.50	0.91	28	6.35	1 BSP	30.75	2.31	11	33.25
5/16-24 UNF	6.90	1.06	24	7.94	1 1/4 BSP	39.50	2.31	11	41.91
3/8-24 UNF	8.50	1.06	24	9.53	1 1/2 BSP	45.24	2.31	11	47.80
7/16-20 UNF	9.90	1.27	20	11.11	1 3/4 BSP	51.00	2.31	11	53.75
1/2-20 UNF	11.50	1.27	20	12.70	2 BSP	57.00	2.31	11	59.61
9/16-18 UNF	12.90	1.41	18	14.29					
5/8-18 UNF	14.50	1.41	18	15.88	BSF 55° 				
3/4-16 UNF	17.46	1.59	16	19.05	3/16 BSF	4.00	0.79	32	4.76
7/8-14 UNF	20.42	1.81	14	22.23	1/4 BSF	5.30	0.98	26	6.35
1-12 UNF	23.25	2.12	12	25.40	5/16 BSF	6.80	1.15	22	7.94
					3/8 BSF	8.25	1.27	20	9.53
UNC 60° 					7/16 BSF	9.70	1.41	18	11.11
2-56 UNC	1.85	0.45	56	2.18	1/2 BSF	11.11	1.59	16	12.70
3-48 UNC	2.10	0.53	48	2.51	9/16 BSF	12.70	1.59	16	14.29
4-40 UNC	2.35	0.64	40	2.84	5/8 BSF	14.00	1.84	14	15.88
6-32 UNC	2.84	0.79	32	3.51	3/4 BSF	16.75	2.12	12	19.05
8-32 UNC	3.50	0.79	32	4.17	7/8 BSF	19.75	2.31	11	22.23
10-24 UNC	3.90	1.06	24	4.83	1 BSF	22.75	2.54	10	25.40
12-24 UNC	4.55	1.06	24	5.49					
1/4-20 UNC	5.10	1.27	20	6.35	BSW 55° 				
5/16-18 UNC	6.60	1.41	18	7.94	1/8 BSW	2.55	0.64	40	3.18
3/8-16 UNC	8.00	1.59	16	9.53	3/16 BSW	3.70	1.06	24	4.76
7/16-14 UNC	9.40	1.81	14	11.11	1/4 BSW	5.10	1.27	20	6.35
1/2-13 UNC	10.80	1.95	13	12.70	5/16 BSW	6.50	1.41	18	7.94
9/16-12 UNC	12.20	2.12	12	14.29	3/8 BSW	7.94	1.59	16	9.53
5/8-11 UNC	13.50	2.31	11	15.88	7/16 BSW	9.36	1.81	14	11.11
3/4-10 UNC	16.50	2.54	10	19.05	1/2 BSW	10.50	2.12	12	12.70
7/8-9 UNC	19.50	2.82	9	22.23	9/16 BSW	12.10	2.12	12	14.29
1-8 UNC	22.25	3.18	8	25.40	5/8 BSW	13.50	2.31	11	15.88
					3/4 BSW	16.27	2.54	10	19.05
BA 47.5° 					7/8 BSW	19.25	2.82	9	22.23
0-BA	5.10	1.00	25.38	6.00	1 BSW	22.00	3.18	8	25.40
1-BA	4.50	0.90	28.25	5.30					
2-BA	4.00	0.81	31.35	4.70					
3-BA	3.40	0.73	34.84	4.10					
4-BA	3.00	0.66	38.46	3.60					
5-BA	2.65	0.59	43.10	3.20					
6-BA	2.30	0.53	47.85	2.80					
7-BA	2.05	0.48	52.91	2.50					
8-BA	1.80	0.43	59.71	2.20					



METRIC

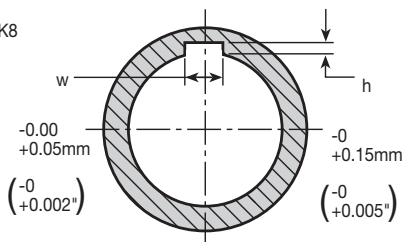
IMPERIAL

REF	w mm	h mm	P mm
K2	2	1.07	1.25
K3	3	1.50	1.85
K4	4	1.86	2.55
K5	5	2.35	3.05
K6	6	2.83	3.55
K8	8	3.34	4.10
K10	10	3.34	5.10
K12	12	3.35	5.10
K14	14	3.80	5.50
K16	16	4.30	6.00

REF	w inches	h inches	P inches
K3/32	0.0937	0.062	0.070
K1/8	0.1250	0.065	0.075
K5/32	0.1562	0.075	0.090
K3/16	0.1875	0.094	0.110
K1/4	0.2500	0.120	0.145
K5/16	0.3125	0.145	0.180
K3/8	0.3750	0.178	0.216
K1/2	0.5000	0.229	0.286

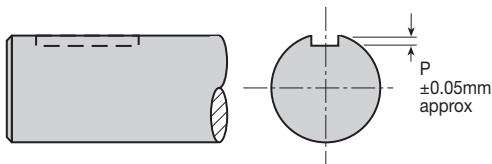
HOLE KEY

K2-K8



K10 - K16
 width $-0.00 +0.10$
 height $-0.00 +0.25$

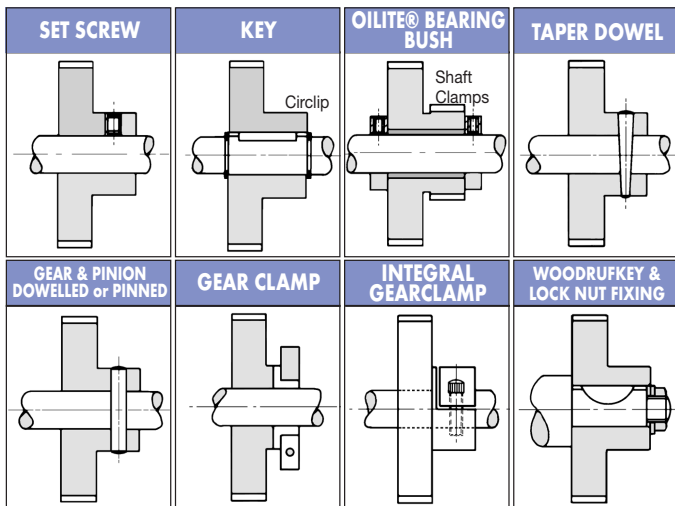
SHAFT KEY



FIXATIONS - SECURING OF GEARS TO SHAFTS

BORE or SHAFT DIAMETER		KEYWAY	PIN HOLE DIAMETER	SET SCREW SIZE
over Ø4	up to Ø6	-	1.50	M3
Ø6	Ø8	K2	2.00	M3
Ø8	Ø10	K3	3.00	M3
Ø10	Ø12	K4	4.00	M4
Ø12	Ø17	K5	5.00	M5
Ø17	Ø22	K6	6.00	M6
Ø22	Ø30	K8	8.00	M8
Ø30	Ø38	K10	10.00	M10
Ø38	Ø44	K12	10.00	M10
Ø44	Ø50	K14	10.00	M12
Ø50	Ø58	K16	10.00	M12

SAMPLES OF ALTERNATIVE FIXINGS



SHAFT DIAMETERS

APPROX TORQUE TRANSMITTED N/M

MATERIAL	SHAFT DIAMETER (mm)											
	Ø6	Ø10	Ø12	Ø15	Ø17	Ø20	Ø25	Ø30	Ø40	Ø50	Ø75	Ø100
N.m. MILD STEEL EN1A EN3 35000 N/m ²	1,50	6,60	11,50	23	34	55	105	180	440	840	2800	6600
N.m. EN8 EN32 EN58 45000 N/m ²	1,90	8,50	15	28	43	70	135	230	550	1000	3600	8500
N.m. EN16 EN19 EN24 EN36 60000 N/m ²	2,50	12,00	20	39	56	95	180	310	750	1500	4800	12000

SHAFT ROTATION

KW = HP x 0,746

SHAFT ROTATION - H.P. TRANSMITTED FOR GIVEN R.P.M. AND Nm

Nm	0,1	0,5	1	2	5	8	10	15	20	25	30	50	100	200	500	1000
RPM 5								0,01	0,014	0,017	0,002	0,035	0,07	0,15	0,35	0,70
10						0,011	0,014	0,02	0,028	0,038	0,041	0,07	0,15	0,28	0,70	1,40
20				0,014	0,023	0,028	0,04	0,056	0,07	0,085	0,14	0,28	0,55	1,40	2,80	
50			0,014	0,038	0,055	0,007	0,10	0,14	0,17	0,21	0,35	0,70	1,40	3,50	7	
100		0,014	0,028	0,07	0,115	0,14	0,21	0,28	0,35	0,41	0,70	1,45	2,80	7	14	
200	0,014	0,028	0,055	0,14	0,23	0,28	0,42	0,57	0,70	0,85	1,50	2,90	5,60	14	28	
300	0,021	0,420	0,82	0,21	0,35	0,41	0,62	0,85	1,05	1,25	2,10	4,20	8,50	21	42	
400	0,028	0,055	0,11	0,28	0,45	0,55	0,85	1,10	1,40	1,70	2,80	5,60	11	28	56	
500	0,035	0,07	0,14	0,35	0,56	0,70	1,05	1,40	1,75	2,10	3,50	7,00	14	35	70	
750	0,010	0,051	0,10	0,21	0,52	0,85	1,05	1,60	2,10	2,70	3,10	5,20	10,40	21	52	107
1000	0,015	0,07	0,14	0,28	0,70	1,15	1,40	2,10	2,80	3,50	4,20	7,00	14	28	70	140
1500	0,022	0,10	0,21	0,40	1,00	1,70	2,10	3,10	4,20	5,10	6,20	10,50	21	41	100	210
2000	0,029	0,16	0,28	0,55	1,40	2,30	2,80	4,10	5,50	7	8,40	14	28	56	140	280
3000	0,044	0,24	0,42	0,82	2,10	3,50	4,20	6,20	8,50	10	12,50	21	43	85	210	420
4000	0,060	0,27	0,56	1,10	2,80	4,50	5,50	8,50	11	14	18	28	58	110	280	560
5000	0,072	0,35	0,70	1,40	3,50	5,60	7	10,50	14	17	21	35	70	140	350	700
8000	0,120	0,55	1,10	2,30	5,50	9,20	11	17	23	28	34	56	115	230	550	1150
10000	0,150	0,70	1,40	2,80	7,00	11,50	14	21	29	35	42	71	140	280	700	1400



Gear tooth shape is an involute curve. Module BS4582 Pt 1 Fig 1 DIN867.
DP BS978 Pt 1 Fig 1 DIN 867.

BLANKS	mm	inches
GENERAL	±0.15	±0.006
BORES TO	H8 LIMITS	H8 LIMITS
GEAR ØD (nominal)	-0.15	-0.006
GEAR	mm	inches
PCD (nominal)	-0.15	-0.006
BACKLASH (nominal)	-0.11	-0.0043
TCE (0-60Ø)	0.04	0.0015
(TCE DELRIN)	0.05	0.0020
TCE (60-125Ø)	0.06	0.0023
(TCE DELRIN)	0.07	0.0028
TCE (125+Ø)	0.07	0.0032
RACKS	mm	inches
TCE (300mm length)	±0.10	±0.004

For Pitch line Tolerances See Page 27.9

TCE = Total Composite Error

Note: Straightness of Derlin Racks:

Due to the nature of plastic materials after cutting teeth some unpredictable distortion may occur. Solid mounting is required.

BORE AND SHAFT TOLERANCES

mm	BORE TOLERANCES		SHAFT TOLERANCES													
			CLEARANCE FIT				TRANSITION FIT				INTERFERENCE FIT					
			H7		H8		f7		g6		k6		n6		p6	
Ø RANGE	low	high	low	high	low	high	low	high	low	high	low	high	low	high	low	high
0 3	0	+0.010	0	+0.014	-0.006	-0.016	-0.002	-0.008	+0.006	0	+0.010	+0.004	+0.012	+0.006	+0.020	+0.014
3 6	0	+0.012	0	+0.018	-0.010	-0.022	-0.004	-0.012	+0.009	+0.001	+0.016	+0.008	+0.020	+0.012	+0.027	+0.019
6 10	0	+0.015	0	+0.022	-0.013	-0.028	-0.005	-0.014	+0.010	+0.001	+0.019	+0.010	+0.024	+0.015	+0.032	+0.023
10 18	0	+0.018	0	+0.027	-0.016	-0.034	-0.006	-0.017	+0.012	+0.001	+0.023	+0.012	+0.029	+0.018	+0.039	+0.028
18 30	0	+0.021	0	+0.033	-0.020	-0.041	-0.007	-0.020	+0.015	+0.002	+0.028	+0.015	+0.035	+0.022	+0.048	+0.035
30 50	0	+0.025	0	+0.039	-0.025	-0.050	-0.009	-0.025	+0.018	+0.002	+0.033	+0.017	+0.042	+0.026	+0.059	+0.043
50 80	0	+0.030	0	+0.046	-0.030	-0.060	-0.010	-0.029	+0.021	+0.002	+0.039	+0.020	+0.051	+0.032	+0.072	+0.053
80 120	0	+0.035	0	+0.054	-0.036	-0.071	-0.012	-0.034	+0.025	+0.003	+0.045	+0.023	+0.059	+0.037	+0.093	+0.071



GENERAL CAPACITY SIZE LIMITATIONS

Technical Section

Most of the cutting limitations are dependent on the required pitch.

GEARS

GEAR TYPE	RANGE	CAPACITY (mm)
SPUR GEARS HELICAL GEARS	120 - 1 DP 0.2 - 25 MOD	Ø5 - Ø1800 (0.200" - 72") Ø5 - Ø1000 (0.200" - 40")
SPROCKETS	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4" CP 4,6,8 mm pitch	Ø14 - Ø400 (0.550" - 16")
INTERNAL GEARS	96 DP - 12 DP 1 - 7 mm pitch 0.2 - 2 MOD	Up to Ø200 internal (8") Max component Ø298 (12")
WORM WHEELS	0.2 - 4 MOD 1 - 7 mm pitch 96 - 6 DP	Ø15 - Ø250 (0.600" - 10")
WORMS	0.5 - 7 mm pitch 0.2 - 4 MOD 100 - 6DP	From Ø10 x 10 long up to Ø60 x 500 long depending on cutter and pitch
RACKS	96 - 4 DP (Up to 25 MOD 0.25 - 8 MOD on specials)	Up to 3000 long (120") in one piece
BEVELS	64 - 6 DP 0.4 - 6 MOD	Up to Ø120 (4.720")
TIMING PULLEYS	5 - 20mm AT 2.5 - 20mm T 3 - 14mm HTD	MXL XL L H Ø10 - Ø500 (0.400" - 20")
PINION GEARS	2mm - 13mm	Ø5 - Ø600 (0.200" - 24")

COMPONENTS

TYPE	ASSEMBLY	GEARBOX (mm)
BORING	- Jig boring 0.008mm of size at 25mm dia - Horizontal boring - light - Vertical boring	Max. area of 610 x 155 (24" x 6")
CUT OFF DRILLING		Up to Ø150 Up to Ø40
MILLING SLOTING	- CNC - Co-ordinate milling and boring - Up to 152-4mm (6") stroke	Max. area of 610 x 155 (24" x 6")
TURNING	- CNC - Precision turning and boring	Max. Ø600 x 1000 long
GRINDING	- Precision diameter grinding - Bore honing	Ø1 - Ø200 x 500 between centres Ø3 - Ø25



HPC CAPACITY & BACKLASH **Technical Section**

STANDARD PITCHES

Other pitches available on request.

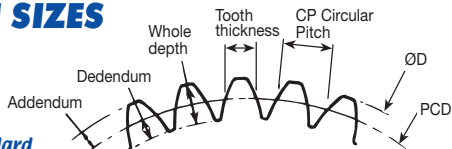
BEVELS	0.8 - 6 mod 48 - 5 DP	WORMS & WHEELS	0.4 - 4 mod 64 - 6 DP
SPROCKET	1/4": 3/8": 1/2": 5/8": 3/4": 1": 1 1/4" 4mm : 6mm : 8mm	RACKS	0.25 - 8 mod 96 - 4 DP
PULLEYS (PITCH)	0.08" : 0.2" : 0.375" : 0.5" T2.5 : T5 : T10 : T20 HTD3 : HTD5 : HTD8 : HTD14 AT5 : AT10 : AT20	PRESSURE ANGLES	
		Standard	20° P.A.
		Special	14 1/2 P.A.

BACKLASH CORRESPONDING TO PITCH

Pitch Line Tolerances for RACKS	GEARS	BACKLASH (mm)	METRIC		IMPERIAL	
			Module	(mm) CP	DP	(Inches) CP
0 -0.12	EXTRA FINE PITCH	APPROX. BACKLASH = 0.07 - 0.12 @ STD CENTRES	0.25	1mm	100	1/20
			0.3		96	
			0.4		82 80 72 64 60	
0 -0.15	FINE PITCH	APPROX. BACKLASH = 0.1 - 0.15 @ STD CNTRS	0.5	2mm	56	1/10
			0.6		50	
			0.70		48 46 44 40	
			0.75		38 36 34	
			0.8		32 30	
0 -0.2	MEDIUM PITCH	APPROX. BACKLASH = 0.13 - 0.2 @ STD CNTRS	0.9	2mm	28	1/8
			1		26 24 22	
			1.25		20	
			1.5		19 18 16 15	
			1.75		14 13	
			2		12	
0 -0.3	HEAVY PITCH	APPROX. BACKLASH = 0.15 - 0.3 @ STD CNTRS	2.25	2mm	11	1/4
			2.5		109	
			2.75		8	
			3		7	
			3.5		6	
			4		5	
			5		4.5	
			6		4	
			8			



GEAR TOOTH SIZES



Bold numbers are standard.
Dimensions in mm and inches.

MOD	DP	CIRCULAR PITCH	TOOTH THICKNESS	ADDENDUM (= MODULE)	DEDENDUM	WHOLE DEPTH
0.2 MOD	127.00	0.628	0.314	0.20	0.28	0.48
0.25 MOD	101.60	0.785	0.392	0.25	0.35	0.60
0.254	100 DP	0.0314"	0.0157"	0.010"	0.014"	0.0240"
0.265	96 DP	0.0327"	0.0163"	0.0104"	0.0145"	0.0250"
0.3 MOD	84.67	0.942	0.471	0.30	0.42	0.72
0.318	80 DP	0.0392"	0.0196"	0.0125"	0.0175"	0.0300"
0.353	72 DP	0.0436"	0.0218"	0.0138"	0.0194"	0.0333"
0.397	64 DP	0.0490"	0.0245"	0.0156"	0.02187"	0.0375"
0.4 MOD	63.50	1.256	0.628	0.40	0.56	0.96
0.5 MOD	50.80	1.570	0.785	0.50	0.70	1.20
0.529	48 DP	0.0654"	0.0327"	0.0208"	0.02916"	0.0500"
0.6 MOD	42.33	1.884	0.942	0.60	0.84	1.44
0.635	40 DP	0.0785"	0.0392"	0.025"	0.0350"	0.0600"
0.7 MOD	36.29	2.199	1.099	0.70	0.98	1.68
0.706	36 DP	0.0872"	0.0436"	0.0277"	0.0388"	0.0666"
0.75 MOD	33.87	2.356	1.178	0.75	1.05	1.80
0.794	32 DP	0.0981"	0.04906"	0.0312"	0.0437"	0.0750"
0.8 MOD	31.75	2.513	1.256	0.80	1.12	1.92
0.847	30 DP	0.1047"	0.05235"	0.0333"	0.0466"	0.08"
0.9 MOD	28.22	2.827	1.413	0.90	1.26	2.16
0.907	28 DP	0.1121"	0.05605"	0.0357"	0.0500"	0.0857"
1.00 MOD	25.40	3.141	1.570	1.00	1.400	2.40
1.05	24 DP	0.1308"	0.0654"	0.0416"	0.0583"	0.1000"
1.15	22 DP	0.1427"	0.07135"	0.0454"	0.0636"	0.1090"
1.25 MOD	20.32	3.926	1.963	1.25	1.562	2.81
1.27	20 DP	0.1570"	0.0785"	0.050"	0.0625"	0.1125"
1.411	18 DP	0.1745"	0.08725"	0.0555"	0.0694"	0.1250"
1.50 MOD	16.93	4.712	2.356	1.50	1.875	3.37
1.588	16 DP	0.1963"	0.09815"	0.0625"	0.0781"	0.1406"
1.693	15 DP	0.2094"	0.1047	0.0666"	0.0833"	0.1500"
1.75 MOD	14.51	5.497	2.7485	1.75	2.187	3.93
1.814	14 DP	0.2243"	0.11215"	0.0714"	0.0892"	0.1607"
2.0 MOD	12.70	6.283	3.141	2.00	2.50	4.50
2.117	12 DP	0.2617"	0.13085"	0.0833"	0.1041"	0.1875"
2.25 MOD	11.29	7.068	3.534	2.25	2.812	5.06
2.5 MOD	10.16	7.853	3.926	2.50	3.125	5.62
2.54	10 DP	0.3141"	0.15705"	0.100"	0.1250"	0.2250"
2.75 MOD	9.24	8.639	4.319	2.75	3.437	6.18
3 MOD	8.47	9.424	4.712	3.00	3.75	6.75
3.175	8 DP	0.3926"	0.1963"	0.125"	0.15625"	0.28125"
4 MOD	6.35	12.566	6.283	4.00	5.00	9.00
4.233	6 DP	0.5235	0.26175"	0.1666"	0.20833"	0.3750"
5 MOD	5.08	15.707	7.853	5.00	6.25	11.25
5.08	5 DP	0.6283"	0.31415"	0.200"	0.2500"	0.4500"
6 MOD	4.23	18.849	9.4245	6.00	7.50	13.50
6.35	4 DP	0.7853"	0.39265"	0.250"	0.3125"	0.5625"
8 MOD	3.175 DP	25.132	12.566	8.00	10.00	18.00



The materials below are supplied as standard. HPC Gears Ltd reserve the right to use higher grades of material.

STANDARD MATERIALS

PRODUCT	STANDARD MATERIALS
GEARS WORM WHEELS WORMS SPROCKETS PULLEYS BEVELS RACKS	EN202, EN32A, EN24, EN36, EN58, DELRIN PHOSPHOR BRONZE, DELRIN EN202, DELRIN EN32B or EN 202, DELRIN, EN58 2011T3 ALUMINIUM, EN32, EN202 EN8, DELRIN EN8, EN32A, EN58, DELRIN

OTHER MATERIALS

EN8 EN19 EN24	(EN8) INDUCTION/FLAME HARDENED ONLY CAN BE THROUGH/INDUCTION/NITRIDE HARDENED 50-55 ROCKWELL 'C' OR FLAME HARDENED
EN202 EN32B EN36	CAN BE SKIN HARDENED OR CASE (CYANIDE) HARDENED
EN40B EN41	CAN BE NITRIDE HARDENED

BRITISH	GERMAN	FRENCH
PHOSPHOR BRONZE PB2 BS1400 1985	DIN1705 CUSN 12	AFNOR UE12
COPPER C101 HDHC BS2874		
ALUMINIUM BRONZE DTD 197A BS2874	DIN 17665 CuAl10Ni	ISO 428 CuAl10Fe5Ni5
BRASS CZ121 BS2874	CuZn39Pb3 DIN17660	CuZn40Pb3 NFA 51-105
PLASTIC DELRIN (Acetal 150) NYLON 66	DIN16979 DIN16985	
ALUMINIUM 2011T3 BS4300/5 HE15TF BS1474 HE30TF BS1474	DIN AlCuBiPb DIN AlCuSiMn DIN ALMgSiL	French Former NF A-U5PbBi French Former NF A-U4 SG French Former NF A-S G M 0.7
TUFNOL WHALE BS2572 Type 2 CARP BS2572 Type F1	DIN7735 HGW2082 DIN7735 HGW2083	



MATERIAL STRENGTHS

 Not heat treated

Note: 1N/mm² = 1 MPa

* Estimated values

Material	Condition	Tensile Strength lbf/in ²	Surface Stress Sc	Bending Stress S _b	Tensile Strength N/mm ²	Elongation After Fracture %	02% Proof Stress N/mm ²
Nylon 66		9500	500*	3900	62 - 82	20% 200%	—
Delrin (Polyacetal)		10000	500*	3900*	69	60%	—
Tufnol	WHALE	9800	560	4500	68	—	—
Cast Iron	GR17 (260)	35800	1400	9000	260	—	—
Brass	—	—	700*	7000*	—	—	—
Aluminium Alloy	HE15		500	13000	295	6% - 8%	230
Aluminium Bronze	AB2		900	9000	420 - 720	18% - 40%	140 - 660
Phosphor Bronze	PB2 Sand Cast	26800	700	7000	360-500	6.25%	170 - 280
(EN32A) 045M10		71680	1400	17000	430	18%	—
(EN32A) 045M10	Case Hardened	71680	9200	40000	—	—	—
(EN8) 080M40		78400	1400	19000	510-550	16% - 17%	—
(EN8) 080M40	Induction	78400	2800	17000	—	—	—
(EN24) 817M40		112000	3000	32000	850 - 1550	5% - 13%	635 - 1125
(EN24) 817M40	Induction/through	112000	5000	26500	—	—	—
(EN36) 655M13	Case Hardened	123200	11000	50000	—	—	—
(EN58AM) 303S21	—	78400	1800	20000	480 - 510	35% - 40%	180 - 20

Material	Melt Point	Max. Service Temperature	
		Long Term	Short Term
NYLON 66	255°C	100°C	170°C
DELIRIN	175°C	90°C	150°C
TUFNOL WHALE	—	120°C	130°C

MATERIAL HARDNESS VALUES

ROCKWELL 'C' SCALE 120°-150kg	ROCKWELL 'B' SCALE 1" BALL 100kg	FIRTH VICKERS 120kg	BRINELL 10mm Ø 3000kg	TONS PER -INS ²	MATERIAL AND CONDITION THRU HDN VALUES DEPENDENT ON LIMITING RULING SECTIONS			
-20	67	114	114	26	EN1,3B			
-9	74	131	131	30	EN32			
1	83	156	156	36	EN8	EN56, 58		
10	90	187	187	41				
15	93	202	201	44	EN9, 16	EN19, 33	EN8R, 34	EN351, 40
20	97	223	223	49	EN24, 36 AS ROLLED			
25	101	256	255	55	EN16T, 19T, 24T	EN36T, 24T	EN57	
30	105	287	285	62				
35	109	339	334	72				
40	112	389	375	82				
45	115	454	429	94	EN24, 25, 26, 30		—	
50	120	540	495	108	EN8 IND HDN	EN16 THR'HD	EN19 THR'HD	EN26 THR'HD
55		633	555	121	EN24 IND HDN			
57		675	578	126	EN40B, 41 GASEOUS NITRIDE			
60		765	627	137	EN36 CASE/HD	EN32C/H, 33C/H	EN34C/H	EN31 THR'HD
63		867	652	144				
65		940	682	150	EN56, 58 PLASMA NITRIDE			
67		1060	725	160				
70		1150	780	171				

27.12



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MECHANICAL PROPERTIES	ASTM TEST METHOD	VALUES	MECHANICAL PROPERTIES	ASTM TEST METHOD	VALUES
Density	D792	1.42 g/cm ³	Coefficient of dynamic friction against Steel no lubricant water lubricated oil lubricated	D1894 -61T	0.10 - 0.30 0.10 - 0.20 0.05 - 0.10
Tensile strength @ yield	D628	101 N/mm ² - N/mm ²			
-55°C		69 N/mm ²	against Brass		0.15
-40°C		48 N/mm ²	against Aluminium		0.15
12°C		36 N/mm ²	against Polyacetal		0.35
70°C		26 N/mm ²			
100°C					
122°C					
Elongation @ break	D638		THERMAL PROPERTIES		
-55°C		.38 %	Melting point	D2133	175 °C
-40°C		- %	Deflection temperature under flexural load	D648	
12°C		75 %	1.8 N/mm ²		138 °C
70°C		230 %	0.5 N/mm ²		172 °C
100°C		>260 %	Thermal conductivity		0.37 W/mK
122°C		>260 %	Specific heat		1.47 kJ/kgK
Tensile E Modulus	D638	3100 N/mm ²	Coefficient of linear thermal expansion	D696	
Shear Strength	D732	66 N/mm ²	-40°C - 30 °C		10.4 x10 ⁻⁵ m/(m.K)
Flexural Modulus	D790		30°C - 60 °C		12.2 x10 ⁻⁵ m/(m.K)
-55°C		3650 N/mm ²	60°C - 105 °C		13.7 x10 ⁻⁵ m/(m.K)
-40°C		2620 N/mm ²	105°C - 150 °C		14.9 x10 ⁻⁵ m/(m.K)
-23°C		1550 N/mm ²	Flammability	UL 94	HB
-70°C		895 N/mm ²	Maximum continuous use temperature		
-100°C		620 N/mm ²	in air		90 °C
Flexural fatigue endurance limit	D671	32 N/mm ²	in water		65 °C
Compressive stress	D695		Maximum intermittent use temperature		
1% deformation		36 N/mm ²	in air		150 °C
10% deformation		124 N/mm ²	in water		80 °C
Izod impact strength	D256		Minimum continuous use temperature		-40 °C
unnotched		no break J/m			
notched			ELECTRICAL PROPERTIES		
-40°C		96 J/m	Volume resistivity	D257	10 ⁻¹⁵ ohm cm
23°C		123 J/m	Surface resistivity	D257	10 ⁻¹³ ohm
Tensile impact strength	D1822	350 kJ/m ²	Dielectric strength short time (2.3mm sheet)	D149	20 kV/mm
Deformation under load (14N/mm ² @ 50°C)	D621	0.5 %	Dielectric constant 10-2HZ - 106HZ	D150	3.7
Hardness, Rockell	D785	M94 R120	Dissipation factor (1mm sheet)	D150	
Water absorption	D570		100HZ		
24 hours immersion		0.25 %	1kHz		
equilibrium 50% R.H.		0.22 %	10kHz		
equilibrium, continuous immersion		0.90 %	1MHz		0.005



INTERNATIONAL MATERIAL EQUIVALENTS

Technical Section

CS- Carbon Steels. CCMFS- Carbon and Carbon Manganese free cutting steels. AS-Alloy steels.
SHRS- Stainless and heat resistant steels.

En. No.	B.S. 970 : 1983	WERK-STOFF	AFNOR (France)	DIN (Germany)	KURZ-NAME	USA AISI/SAE	STEELS TYPE
1A	220M07	1.0711		9 S 20		1113	CCMFS
32C	080M15	1.1141	XC18	C 15		1016	CS
3B	070M20	1.0402	XC25	C 22		1020	CS
5C	080A32	1.1180	XC38	Cm 35		1035	CS
	070M26		50C30			1026	CS
6	080M30	1.1178		Ck 30		1030	CS
8	080M40	1.1186	60C40	Ck 40		1040	CS
8 A & B	080A35/37	1.1180	55C35	Cm 35		1035/1038	CS
8C	080A40	1.1186	XC42H1	Ck 40		1040	CS
8M	212M36	1.0726	35MF6	35 S 20		1140	CCMFS
	080M46	1.1191	XC48	Ck 45		1045	CS
9	070M55	1.0535	XC38	C 55		1055	CS
18B	530A32	1.7033	32C4	34 Cr 4		5130	AS
19	708M40	1.7225	42CD4	42 CrMo 4		4140	AS
19B	708A37	1.7220	35CD4	34 CrMo 4		4137	AS
24	817M40	1.6565	35NCD6	40 CrNiMo 6		4340	AS
26	826M40	1.6745	35NCD14	40 NiMoCr 10 5			AS
30B	835M30	1.6747	35NCD16	30 NiCrMo 16 6			AS
31	535A99	1.3505	100C6	100 Cr 6		52100	AS
202	214M15					1118	CCMFS
32A	045M10	1.0301	34C10	C 10		1010	CS
32M	210M15	1.0723		15 S 20		1117	CCMFS
36	655M13	1.5752	12NC15	14 NiCr 14		3415	AS
39B	835M15	1.6723	16NCD17	15 NiCrMo 16 5			AS
40B	722M24	1.7361	30CD12	32 CrMo 12			AS
43A	080M50		XC48H1			1049	AS
56AM	416S21	1.4005	Z12CF13	X 12 CrS 13		416	SHRS
58M	303S31	1.4305	Z10CNF18.9	X 10 CrNiS 18 9		303	SHRS
	316S33	1.4436	Z6CND17.12	X 5 CrNiMo 17 13 3		316	SHRS



PRIME NUMBER & FACTOR TABLE

Technical Section

From the table to find the lowest prime factor for 645, look along the top row for 600. Then look down the first column to find 45. Find where this column and line meet and this is the lowest prime factor, e.g. in this example for 645, 3 is the lowest prime factor. If a **P** appears in the square then the chosen figure is a prime number, e.g. 919.

From to	0 100	100 200	200 300	300 400	400 500	500 600	600 700	700 800	800 900	900 1000	1000 1100	1100 1200
1	P	P	3	7	P	3	P	P	3	17	7	3
3	P	P	7	3	13	P	3	19	11	3	17	P
5	P	3	5	5	3	5	3	5	5	3	5	5
7	P	P	3	P	11	3	P	7	3	P	19	3
9	3	P	11	3	P	P	3	P	P	3	P	P
11	P	3	P	P	3	7	13	3	P	P	3	11
13	P	P	3	P	7	3	P	23	3	11	P	3
15	3	5	5	3	5	5	3	5	5	3	5	5
17	P	3	7	P	3	11	P	3	19	7	3	P
19	P	7	5	11	P	3	P	P	3	P	P	3
21	3	11	13	3	P	P	3	7	P	3	P	19
23	P	3	P	17	3	P	7	3	P	13	3	P
25	5	5	3	5	5	3	5	5	3	5	5	3
27	3	P	P	3	7	17	3	P	P	13	3	7
29	P	3	P	7	3	23	17	3	P	P	3	P
31	P	P	3	P	P	3	P	17	3	7	P	3
33	3	7	P	3	P	13	3	P	7	3	P	11
35	5	3	5	5	3	5	5	3	5	5	3	5
37	P	P	3	P	19	3	7	11	3	P	17	3
39	3	P	P	3	P	7	3	P	P	3	P	17
41	P	3	P	11	3	P	P	3	29	P	3	7
43	P	11	3	7	P	3	P	P	3	23	7	3
45	3	5	5	3	5	5	3	5	5	3	5	5
47	P	3	13	P	3	P	P	3	7	P	3	31
49	7	P	3	P	P	3	11	7	3	13	P	3
51	3	P	P	3	11	19	3	P	23	3	P	P
53	P	3	11	P	3	7	P	3	P	P	3	P
55	5	5	3	5	5	3	5	5	3	5	5	3
57	3	P	P	3	P	P	3	P	P	3	7	13
59	P	3	7	P	3	13	P	3	P	7	3	19
61	P	7	3	19	P	3	P	P	3	31	P	3
63	3	P	P	3	P	P	3	7	P	3	P	P
65	5	3	5	5	3	5	5	3	5	5	3	5
67	P	P	3	P	P	3	23	13	3	P	11	3
69	3	13	P	3	7	P	3	P	11	3	P	7
71	P	3	P	7	3	P	11	3	13	P	3	P
73	P	P	3	P	11	3	P	P	3	7	29	3
75	3	5	5	3	5	5	3	5	5	3	5	5
77	7	3	P	13	3	P	P	3	P	P	3	11
79	P	P	3	P	P	3	7	19	3	11	13	3
81	3	P	P	3	13	7	3	11	P	3	23	P
83	P	3	P	P	3	11	P	3	P	P	3	7
85	5	5	3	5	5	3	5	5	3	5	5	3
87	3	11	7	3	P	P	3	P	P	3	P	P
89	P	3	17	P	3	19	13	3	7	23	3	29
91	7	P	3	17	P	3	P	7	3	P	P	3
93	3	P	P	3	17	P	3	13	19	3	P	P
95	5	3	5	5	3	5	5	3	5	5	3	5
97	P	P	3	P	7	3	17	P	3	P	P	3
99	3	P	13	3	P	P	3	17	29	3	7	11

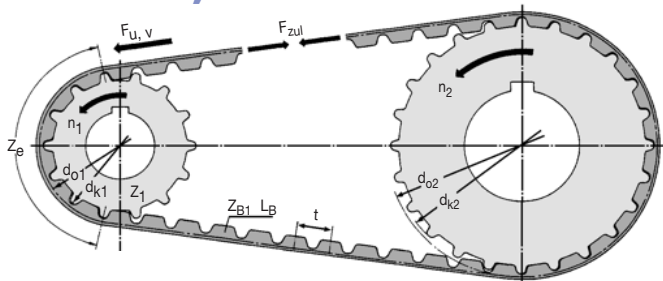


GENERAL UNIT CONVERSIONS Technical Section

INTERNATIONAL to BRITISH units	BRITISH to INTERNATIONAL units	
Length 1 km = 0.621 371 mile 1 m = 1.09361 yd 1 dm = 0.328 084 ft 1 cm = 0.393 701 in 1 μ m = 0.039 370 μ in	Length 1 mile = 1.609 34 km 1 furlong = 0.201 168 km 1 chain = 20.1168 m 1 yd = 0.914 4 m 1 ft = 0.304 8 1 in = 2.54 cm = 25.4mm 1 milli-inch ("thou") = 25.4 μ	Acceleration 1 ft/s ² = 0.304 8 m/s ² (foot per second per second)
Area 1 km ² = 247.105 acres 1 m ² = 1.195 99 yd ² 1 cm ² = 0.155 000 in ²	Area 1 Yd ² (square yard) = 0.836 127 m ² a ft ² (square foot) = 0.092 9030 m ² 1 in ² (square inch) = 6.451 6 cm ²	Mass 1 ton = 1016.047 kg 1 stone = 6.350 29kg 1 lb = 0.453 592 37 kg 1 oz = 28.349 5 g 1 slug = 14.593 9 g
Volume 1 m ³ = 1.307 95 yd ³ 1 dm ³ = 0.035 314 7 ft ³ 1 cm ³ = 0.051 023 7 in ³ 1 l (litre) = 0.2200 gals.	Volume 1 yd ³ (cubic yard) = 0.764 555 m ³ 1 ft ³ (cubic foot) = 28.316 8 dm ³ 1 in ³ (cubic inch) = 16.387 1 cm ³	Mass per unit length 1 lb/ft = 1.488 16 kg/m 1 lb/in = 17.858 0 kg/m 1 oz/in = 11.161 2 g/cm
Velocity 1 km/H = 0.621 731 mile/h 1 m/s = 3.280 84 ft/s	Capacity 1 gal = 4.546 09 dm ³ 1 qt (quart) = 1.136 51 dm ³ 1 pt (pint) = 0.568 261 dm ³ 1 gill = 0.142 065 dm ³ 1 fl oz = 28.413 1 cm ³	Density 1 ton/yd ³ = 1328.94 kg/m ³ (1.328 94 t/m ³) 1 lb/ft ³ = 16.018 5 kg/m ³ 1 lb/in ³ = 27.679 9 g/cm ³ 1 lb/gal = 0.099 776 3 kg/dm ³ = 0.099 78 kg/l 1 slug/ft ³ = 515.379 kg/m ³
Acceleration 1 m-s ² = 3.280 84 ft/s ²	Moment of section (second moment of area) 1 ft ⁴ = 86.309 7 dm ⁴ 1 in ⁴ = 41.623 1 cm ⁴	Moments of Inertia 1 lb ft ² = 0.042 140 1 kg m ² 1 lb in ² = 2.926 40 kg cm ² 1 oz in ² = 0.182 900 kg cm ² 1 slug ft ² = 1.355 82 kg m ²
Mass 1 kg = 2.204 62lb 1 g = 0.305 274 0 oz = 15.4324 gr (grain)	Velocity 1 mile/h (m.p.h.) = 1.609 34 km/h 1 ft/s = 0.304 8 m/s 1 ft/min = 0.304 8 m/min	Force 1 tonf = 9964.02 N 1 lbf = 4.448 22 N 1 ozf = 0.278 014 N
Density 1 kg-m ³ = 0.062 428 0 lb/ft ³ 1 g-cm ³ = 0.036 127 3 lb/ft ³ Force IN = 0.224 809 lbf ft = 7.233 01 pdl		
Torque 1 N m = 0.737 562 lbf ft = 8.8507 lbf ins		



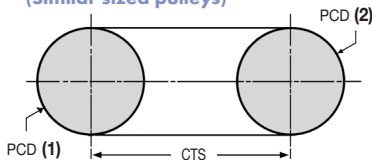
FORMULAE, TERMS & DEFINITIONS



Centre distance	a (mm)	Pulley width	B (mm)
Acceleration torque	M_B (Nm)	Pitch	t (mm)
Acceleration time	t_B (s)	Velocity	v (m/s)
Bore	d (mm)	Peripheral force	F_U (N)
Density	ρ (kg/dm ³)	Angular velocity	ω (s ⁻¹)
Torque	M (Nm)	Pitch circle diameter	d_0 (mm)
RPM	n (min ⁻¹)	No. of teeth when $i = 1$	z
Outside diameter	d_K (mm)	No. of teeth of small pulley	z_1
Power	P (kW)	No. of teeth of large pulley	z_2
Moment of inertia	J (kgm ²)	No. of teeth on the belt	Z_B
Belt length	L_B (mm)	No. of teeth in mesh	z_e
Ratio	i	PCD (small pulley)	d_{o1}
Allowable tensile load	F_{zul} (N)	PCD (large pulley)	d_{o2}
Belt width	b (cm)		

TOTAL BELT LENGTH

(Similar sized pulleys)



If the number of teeth on the two mating pulleys/sprockets are within 5 teeth of each other then the belt/chain length can be calculated as follows:-

$$TBL = \frac{(PCD (1) + PCD (2))}{0.6366} + (2 \times CTS) \quad (\text{in mm})$$

$$\text{TOTAL No. of TEETH or links} = \frac{TBL}{\text{PITCH OF PULLEY (SPROCKET) mm}}$$

$$\text{PCD mm} \\ d_o \text{ mm} = \frac{\text{No. of Teeth} \times \text{Pitch mm}}{\pi}$$

Exact CTS when $i = 1$

$$a = \frac{Z_B - Z_1}{2} \times t \quad (\text{in mm})$$

Exact CTS when $i \neq 1$

$$a = K + \sqrt{K^2 - \frac{(d_{o2} - d_{o1})^2}{8}}$$

$$K = \frac{L_B}{4} - .392699 (d_{o2} + d_{o1}) \quad (\text{in mm})$$



FORMULAE, TERMS & DEFINITIONS

BELT LIFE: The expected belt life is between 10,000 and 15,000 hours, if installed correctly and not overloaded.

Belt length with $i \neq 1$

$$L_B \approx \frac{t}{2} (Z_2 + Z_1) + 2a + \frac{1}{4a} \left[\frac{(Z_2 - Z_1)t}{\pi} \right]^2$$

Belt length with $i = 1$

$$L_B = 2a + \pi \cdot d_o \\ = 2a + z \cdot t$$

Peripheral force

$$F_U = \frac{2 \cdot 10^3 \cdot M}{d_o} \\ = \frac{19,1 \cdot 10^6 \cdot P}{n \cdot d_o} \\ = \frac{10^3 \cdot P}{v}$$

Torque

$$M = \frac{d_o \cdot F_U}{2 \cdot 10^3} \\ = \frac{9,55 \cdot 10^3 \cdot P}{n} \\ = \frac{d_o \cdot P}{2 \cdot v}$$

Power

$$P = \frac{M \cdot n}{9,55 \cdot 10^3} \\ = \frac{F_U \cdot d_o \cdot n}{19,1 \cdot 10^6} \\ = \frac{F_U \cdot v}{10^3}$$

Angular velocity

$$\omega = \frac{\pi \cdot n}{30}$$

Rpm

$$n = \frac{19,1 \cdot 10^3 \cdot v}{d_o}$$

Velocity

$$v = \frac{d_o \cdot n}{19,1 \cdot 10^3}$$

Mass moment of inertia

$$J = 98,2 \cdot 10^{-15} \cdot B \cdot e \cdot (d_k^4 - d^4)$$

Acceleration torque

$$M_B = \frac{J \cdot \alpha}{9,55 \cdot t_B}$$

CONVERSION OF NON-STANDARD UNITS

FORCE	1kp = 1 kg • 9.81 m/s ² = 9.81 N = 1 daN
TORQUE	1kpm = 9.81 kgm ² /s ² = 9.81 Nm = 1 daNm
POWER	1HP = 75 kpm/s = 0.736 kW
CENTRIFUGAL FORCE	1 [GD ²] = 4 [J] when GD ² in kpm and J in kgm ²

Only the units listed above should be used in the formulae, as they are approved SI units. The unit of force, the Newton, is very important: 1N is the force required to accelerate a body with a mass of 1kg to 1m/s². → 1N = kg • 1 m/s².



TIMING BELT CALCULATIONS Technical Section

The belt width (in cm) required to transmit known peripheral force F_U , torque M or power P without exceeding the maximum allowable tooth shear strength is calculated using any of the following formulae and the values on the following pages:-

Belt width required in cm = b

$$b = \frac{F_U}{z_e \cdot F_{U\text{spez}}} \quad \text{in cm}$$

$$b = \frac{100 \cdot M}{z_1 \cdot z_e \cdot M_{\text{spez}}} \quad \text{in cm}$$

$$b = \frac{1000 \cdot P}{z_1 \cdot z_e \cdot P_{\text{spez}}} \quad \text{in cm}$$

F_U = Peripheral force in N

M = Torque in Nm

P = Power in kW

z_1 = No. of teeth in small pulley

z_e = No. of teeth in mesh ($Z_e \text{ max} = 12$)

$$z_e = \frac{z_1}{180} \cdot \arccos \frac{(z_2 - z_1) \cdot t}{2 \pi a}$$

z_1 = No. of teeth in small pulley

z_2 = No. of teeth in large pulley

t = Pitch in mm

a = Centre distance in mm

Drive load capacity (with known belt width cm)

Peripheral force

$$F_U = F_{U\text{spez}} \cdot z_e \cdot b \quad \text{in N}$$

Torque

$$M = \frac{M_{\text{spez}} \cdot z_1 \cdot z_e \cdot b}{100} \quad \text{in Nm}$$

Power

$$P = \frac{P_{\text{spez}} \cdot z_1 \cdot z_e \cdot b}{1000} \quad \text{in kW}$$

F_{spez} Specific peripheral force in $\frac{\text{N}}{\text{cm}}$

M_{spez} Specific torque in $\frac{\text{Ncm}}{\text{cm}}$

P_{spez} Specific power in $\frac{\text{W}}{\text{cm}}$

Speed-up drives

The following safety factors should be employed with speed-up drives:

Ratio		Safety factor	S
i = over 1 to 1.5			1.1
i = over 1.5 to 2.5			1.2
i = over 2.5			1.3

The size of a Synchroflex Timing Belt is correctly determined when the permissible tooth shear strength, tensile loads and flexibility limits are not exceeded under the worst conditions. Safety factors are only necessary in speed-up drives. It is important that the peak loads acting on a drive are known, i.e. that they are correctly assessed by the designer. In a positive drive transient shock loads will have an effect on the whole drive. Some helpful hints on this subject are:-

Normal operating conditions : The timing belt should be designed to cope with rated working loads and conditions. Rated working loads are defined as the operating conditions under which the drive is expected to transmit torque or power based on the rated speed and normal running conditions.

Start-up conditions : (a) Driver: the max. start-up torque of the motor must be taken into account. The start-up torque on a three phase motor, for example, can be 2 - 2.5 times the running torque. (b) Driven: it is also important to consider possible break-away torque acting on the timing belt under start-up conditions. Check belt loading conditions (a) or (b) at $n = 0$ rpm.

Braking : It is necessary to determine whether loads induced by braking will affect the timing belt. It is quite possible that these loads may exceed those already present due to start-up and normal running conditions. Under braking conditions torque reversal should be taken into consideration and that if a torque reversal occurs under braking then a speed reduction would change to a speed-up drive.

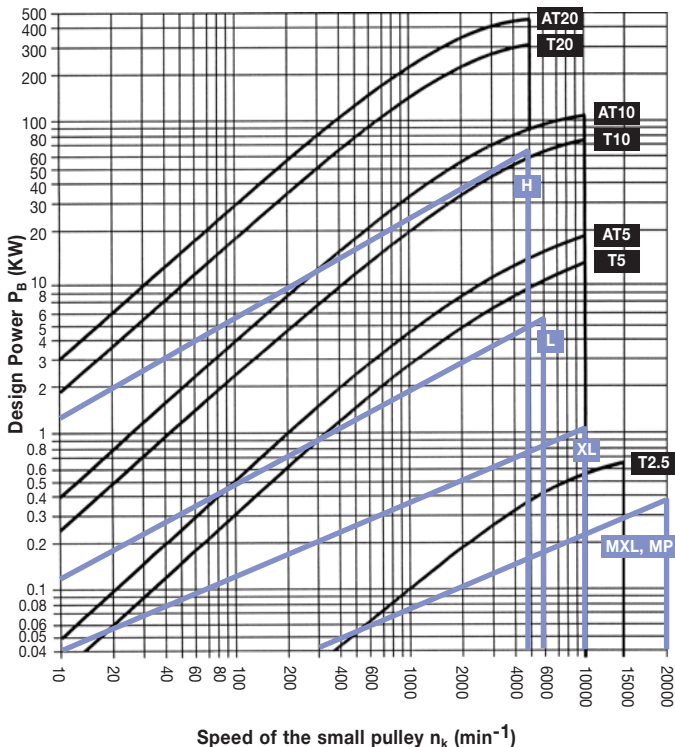
Shock Loads : If shock loads are present it would be necessary to increase the belt width factor by 1.3.

Inertial Masses : Inertial masses generally help in the smooth running of drives. However it is very important to check that extra loads these inertial masses are exerting on the timing belt under acceleration and braking conditions.



POWER RATING GRAPH FOR SECTION SELECTION AND MAX. BELT SPEEDS

Graph 3.2



TOOTH SHEAR STRENGTH

T2.5 TIMING BELT/PULLEY

2.5mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY

Max. power	0.5kw
Max. speed	40000 RPM
Max. recommended belt speed	80m/s



Rpm n min ⁻¹	T2.5			Rpm n min ⁻¹	T2.5		
	F_U spez $\frac{N}{cm}$	M spez $\frac{Ncm}{cm}$	P spez $\frac{W}{cm}$		F_U spez $\frac{N}{cm}$	M spez $\frac{Ncm}{cm}$	P spez $\frac{W}{cm}$
0	9.03	0.359	0.000	2200	4.80	0.191	0.440
20	8.72	0.347	0.007	2400	4.70	0.187	0.470
40	8.48	0.337	0.014	2500	4.65	0.185	0.484
60	8.28	0.329	0.021	2600	4.60	0.183	0.499
80	8.10	0.322	0.027	2800	4.51	0.180	0.527
100	7.95	0.316	0.033	2880	4.48	0.178	0.538
150	7.64	0.304	0.048	3000	4.43	0.176	0.554
200	7.39	0.294	0.062	3200	4.36	0.173	0.581
300	7.01	0.279	0.088	3400	4.28	0.170	0.607
400	6.71	0.267	0.112	3600	4.22	0.168	0.632
500	6.48	0.258	0.135	3800	4.15	0.165	0.567
600	6.28	0.250	0.157	4000	4.09	0.163	0.682
700	6.11	0.243	0.178	4500	3.95	0.157	0.740
730	6.07	0.241	0.185	5000	3.82	0.152	0.796
800	5.97	0.237	0.199	5500	3.71	0.148	0.850
900	5.83	0.232	0.219	6000	3.60	0.143	0.901
1000	5.71	0.227	0.238	6500	3.51	0.140	0.950
1100	5.61	0.223	0.257	7000	3.42	0.136	0.997
1200	5.51	0.219	0.275	7500	3.33	0.133	1.042
1300	5.41	0.215	0.293	8000	3.26	0.130	1.086
1400	5.33	0.212	0.311	8500	3.18	0.127	1.128
1460	5.28	0.210	0.321	9000	3.11	0.124	1.168
1500	5.25	0.209	0.328	9500	3.05	0.121	1.207
1600	5.17	0.206	0.345	10000	2.99	0.119	1.245
1700	5.10	0.203	0.361	12000	2.77	0.110	1.384
1800	5.04	0.200	0.378	15000	2.50	0.099	1.561
1900	4.97	0.198	0.394	18000	2.28	0.091	1.708
2000	4.91	0.195	0.409	20000	2.15	0.086	1.791

TENSION MEMBER TENSILE STRENGTH

T2.5 Belt Width in mm Newtons	4	6	10	16
	39	65	117	195

Allowable tensile load on belt cross section F_{zul} in N.

FLEXIBILITY

Type of Teeth		T2.5
without contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on the belt teeth	10 15mm
with contraflexure 	Minimum No. of Teeth on timing pulleys for double sided belts T2.5 DL Minimum DIA of flat tension pulley running on belt back	18 15mm



TOOTH SHEAR STRENGTH

T5 TIMING BELT/PULLEY

5mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY	
Max. power	5kw
Max. speed	40000 RPM
Max. recommended belt speed	80m/s



Rpm n min ⁻¹	T5			Rpm n min ⁻¹	T5		
	F _U spez N cm	M spez Ncm cm	P spez W cm		F _U spez N cm	M spez Ncm cm	P spez W cm
0	24.00	1.910	0.000	2200	13.38	1.065	2.453
20	23.38	1.861	0.039	2400	13.10	1.042	2.619
40	22.86	1.819	0.076	2500	12.96	1.032	2.701
60	22.41	1.783	0.112	2600	12.84	1.021	2.781
80	22.01	1.751	0.147	2800	12.59	1.002	2.938
100	21.65	1.723	0.180	2880	12.50	0.995	3.000
150	20.90	1.663	0.261	3000	12.37	0.984	3.092
200	20.28	1.614	0.338	3200	12.16	0.967	3.241
300	19.30	1.536	0.483	3400	11.96	0.951	3.388
400	18.55	1.476	0.618	3600	11.77	0.936	3.530
500	17.93	1.427	0.747	3800	11.59	0.922	3.670
600	17.41	1.385	0.870	4000	11.42	0.909	3.807
700	16.96	1.349	0.989	4500	11.03	0.878	4.136
730	16.83	1.339	1.024	5000	10.68	0.850	4.450
800	16.56	1.318	1.104	5500	10.36	0.825	4.750
900	16.20	1.289	1.215	6000	10.07	0.802	5.037
1000	15.88	1.263	1.323	6500	9.81	0.780	5.312
1100	15.58	1.240	1.428	7000	9.56	0.761	5.577
1200	15.31	1.218	1.531	7500	9.33	0.742	5.831
1300	15.06	1.198	1.632	8000	9.11	0.725	6.076
1400	14.83	1.180	1.730	8500	8.91	0.709	6.312
1460	14.69	1.169	1.788	9000	8.72	0.694	6.540
1500	14.61	1.162	1.826	9500	8.54	0.679	6.759
1600	14.40	1.146	1.920	10000	8.37	0.666	6.970
1700	14.21	1.131	2.013	12000	7.75	0.617	7.752
1800	14.03	1.116	2.104	15000	7.00	0.557	8.752
1900	13.85	1.102	2.193	18000	6.39	0.508	9.582
2000	13.69	1.089	2.281	20000	6.03	0.480	10.055

TENSION MEMBER TENSILE STRENGTH

T5 Belt Width in mm	6	10	16	25	32	50	75	100
Newtons	180	330	570	930	1200	1920	2940	3930

Allowable tensile load on belt cross section F_{zul} in N.

FLEXIBILITY

Type of Teeth	T5
without contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on the belt teeth 10 30mm
with contraflexure 	Minimum No. of Teeth on timing pulleys for double sided belts T5 DL Minimum DIA of flat tension pulley running on belt back 15 30mm

27.22



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TOOTH SHEAR STRENGTH

AT5 TIMING BELT/PULLEY

5mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY

Max. power	15kw
Max. speed	40000 RPM
Flank Play	0.2mm
Max. recommended belt speed	80m/s



Rpm n min ⁻¹	AT5			Rpm n min ⁻¹	AT5		
	F _U spez $\frac{N}{cm}$	M _{spez} $\frac{Ncm}{cm}$	P _{spez} $\frac{W}{cm}$		F _U spez $\frac{N}{cm}$	M _{spez} $\frac{Ncm}{cm}$	P _{spez} $\frac{W}{cm}$
0	35.3	2.807	0.000	2200	21.3	1.695	3.906
20	34.9	2.775	0.057	2400	20.8	1.654	4.156
40	34.5	2.745	0.115	2500	20.5	1.634	4.278
60	34.1	2.717	0.171	2600	20.3	1.615	4.397
80	33.8	2.689	0.225	2800	19.8	1.579	4.630
100	33.5	2.663	0.279	2880	19.7	1.565	4.720
150	32.7	2.603	0.409	3000	19.4	1.545	4.854
200	32.0	2.549	0.534	3200	19.0	1.513	5.070
300	30.9	2.455	0.771	3400	18.6	1.483	5.280
400	29.8	2.375	0.995	3600	18.3	1.454	5.486
500	29.0	2.305	1.207	3800	17.9	1.427	5.679
600	28.2	2.242	1.409	4000	17.6	1.401	5.870
700	27.5	2.187	1.603	4500	16.9	1.342	6.322
730	27.3	2.171	1.660	5000	16.2	1.288	6.742
800	26.8	2.136	1.789	5500	15.6	1.239	7.134
900	26.3	2.090	1.969	6000	15.0	1.194	7.499
1000	25.7	2.047	2.144	6500	14.5	1.152	7.841
1100	25.2	2.007	2.312	7000	14.0	1.113	8.161
1200	24.8	1.970	2.476	7500	13.5	1.077	8.460
1300	24.3	1.936	2.635	8000	13.1	1.043	8.740
1400	23.9	1.903	2.790	8500	12.7	1.011	9.002
1460	23.7	1.885	2.881	9000	12.3	0.981	9.248
1500	23.5	1.872	2.941	9500	12.0	0.953	9.477
1600	23.2	1.843	3.089	10000	11.6	0.925	9.690
1700	22.8	1.816	3.232				
1800	22.5	1.789	3.373				
1900	22.2	1.764	3.510				
2000	21.9	1.740	3.645				

TENSION MEMBER TENSILE STRENGTH

AT5 Belt Width in mm Newtons	6	10	16	25	32	50	75	100
		-	490	840	1400	1890	3010	4620

FLEXIBILITY

Allowable tensile load on belt cross section F_{zul} in N.

Type of Teeth	AT5
without contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA. of flat tension pulley running on the belt teeth 15 25mm
with contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA. of flat tension pulley running on belt back 20 60mm



TOOTH SHEAR STRENGTH

T10 TIMING BELT/PULLEY

10mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY	
Max. power	30kw
Max. speed	15000 RPM
Max. recommended belt speed	60m/s



Rpm n min ⁻¹	T10			Rpm n min ⁻¹	T10		
	F _U spez N cm	M spez Ncm cm	P spez W cm		F _U spez N cm	M spez Ncm cm	P spez W cm
0	50.50	8.04	0.000	2200	24.60	3.92	9.03
20	49.00	7.80	0.163	2400	23.90	3.81	9.58
40	47.70	7.60	0.318	2500	23.60	3.76	9.84
60	46.60	7.42	0.466	2600	23.30	3.71	10.10
80	45.60	7.27	0.609	2800	22.70	3.62	10.60
100	44.80	7.13	0.746	2880	22.50	3.58	10.80
150	42.90	6.83	1.073	3000	22.20	3.53	11.08
200	41.40	6.59	1.381	3200	21.60	3.45	11.55
300	39.10	6.22	1.953	3400	21.20	3.37	11.99
400	37.20	5.92	2.481	3600	20.70	3.30	12.42
500	35.70	5.68	2.976	3800	20.30	3.23	12.84
600	34.40	5.48	3.444	4000	19.90	3.16	13.24
700	33.30	5.31	3.890	4500	18.90	3.01	14.18
730	33.00	5.26	4.020	5000	18.10	2.87	15.05
800	32.40	5.15	4.316	5500	17.30	2.75	15.84
900	31.50	5.01	4.725	6000	16.60	2.64	16.58
1000	30.70	4.89	5.119	6500	15.90	2.54	17.26
1100	30.00	4.77	5.499	7000	15.30	2.44	17.88
1200	29.30	4.67	5.867	7500	14.80	2.35	18.46
1300	28.70	4.57	6.223	8000	14.20	2.27	18.99
1400	28.20	4.48	6.569	8500	13.70	2.19	19.47
1460	27.80	4.43	6.772	9000	13.30	2.11	19.92
1500	27.60	4.40	6.905	9500	12.80	2.04	20.33
1600	27.10	4.32	7.232	10000	12.40	1.98	20.70
1700	26.60	4.24	7.551				
1800	26.20	4.17	7.861				
1900	25.80	4.10	8.164				
2000	25.40	4.04	8.459				

TENSION MEMBER TENSILE STRENGTH

T10 Belt Width in mm	16	25	32	50	75	100
Newtons	1100	1800	2300	3800	5800	7800

FLEXIBILITY

Allowable tensile load on belt cross section F_{zul} in N.

Type of Teeth	T10
without contraflexure 	Minimum No. of Teeth on pulley, 12 Minimum DIA of flat tension pulley running on the belt teeth, 60mm
with contraflexure 	Minimum No. of Teeth on timing pulleys for double sided belts t20 DL, 20 Minimum DIA of flat tension pulley running on belt back, 60mm

27.24



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TOOTH SHEAR STRENGTH

AT10 TIMING BELT/PULLEY

10mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY

Max. power	70kw
Max. speed	15000 RPM
Flank Play	0.4mm
Max. recommended belt speed	60m/s



Rpm n min ⁻¹	AT10			Rpm n min ⁻¹	AT10		
	F _U spez N cm	M spez Ncm cm	P spez W cm		F _U spez N cm	M spez Ncm cm	P spez W cm
0	73.5	11.70	0.000	2200	39.0	6.20	14.30
20	72.4	11.53	0.241	2400	37.8	6.01	15.10
40	71.4	11.37	0.476	2500	37.2	5.92	15.49
60	70.5	11.21	0.705	2600	36.6	5.83	15.86
80	69.6	11.07	0.928	2800	35.5	5.66	16.58
100	68.7	10.94	1.145	2880	35.1	5.59	16.86
150	66.8	10.63	1.669	3000	34.5	5.50	17.27
200	65.0	10.35	2.168	3200	33.6	5.35	17.92
300	62.1	9.88	3.103	3400	32.7	5.20	18.53
400	59.5	9.48	3.969	3600	31.9	5.07	19.11
500	57.4	9.13	4.780	3800	31.1	4.94	19.67
600	55.5	8.83	5.545	4000	30.3	4.82	20.20
700	53.7	8.55	6.270	4500	28.5	4.54	21.40
730	53.3	8.48	6.481	5000	26.9	4.29	22.46
800	52.2	8.31	6.961	5500	25.5	4.06	23.38
900	50.8	8.08	7.620	6000	24.2	3.85	24.18
1000	49.5	7.88	8.251	6500	23.0	3.65	24.87
1100	48.3	7.69	8.857	7000	21.8	3.47	25.46
1200	47.2	7.51	9.440	7500	20.8	3.30	25.96
1300	46.2	7.35	10.001	8000	19.8	3.15	26.36
1400	45.2	7.19	10.543	8500	18.8	3.0	26.69
1460	44.6	7.10	10.859	9000	18.0	2.86	26.93
1500	44.3	7.04	11.066	9500	17.0	2.72	27.10
1600	43.4	6.91	11.572	10000	16.3	2.60	27.20
1700	42.6	6.78	12.062				
1800	41.8	6.65	12.536				
1900	41.0	6.53	12.996				
2000	40.3	6.42	13.442				

TENSION MEMBER TENSILE STRENGTH

AT10 Belt Width in mm	25	32	50	75	100	150
Newton	3500	4750	7750	12000	16000	24500

FLEXIBILITY

Allowable tensile load on belt cross section F_{zul} in N.

Type of Teeth		AT10
without contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on the belt teeth	15 50mm
with contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on belt back	25 120mm



TOOTH SHEAR STRENGTH

T20 TIMING BELT/PULLEY

20mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY	
Max. power	100kw
Max. speed	6000 RPM
Max. recommended belt speed	40m/s



Rpm n min ⁻¹	T20			Rpm n min ⁻¹	T20		
	F _U spez N cm	M spez Ncm cm	P spez W cm		F _U spez N cm	M spez Ncm cm	P spez W cm
0	101.5	32.2	0.000	2200	43.6	13.9	31.99
20	98.1	31.2	0.654	2400	42.1	13.4	33.67
40	95.3	30.3	1.271	2500	41.4	13.2	34.47
60	92.8	29.5	1.856	2600	40.7	12.9	35.24
80	90.7	28.9	2.417	2800	39.3	12.5	36.72
100	88.7	28.2	2.957	2880	38.8	12.4	37.29
150	84.6	26.9	4.229	3000	38.1	12.1	38.11
200	81.2	25.9	5.415	3200	37.0	11.8	39.42
300	75.9	24.2	7.591	3400	35.9	11.4	40.66
400	71.8	22.9	9.573	3600	34.9	11.1	41.82
500	68.4	21.8	11.405	3800	33.9	10.8	42.91
600	65.6	20.9	13.117	4000	33.0	10.5	43.94
700	63.1	20.1	14.728	4500	30.8	9.8	46.24
730	62.4	19.9	15.194	5000	28.9	9.2	48.21
800	60.9	19.4	16.252	5500	27.2	8.6	49.90
900	59.0	18.8	17.700	6000	25.6	8.1	51.20
1000	57.2	18.2	19.080	6500	24.2	7.7	52.40
1100	55.6	17.7	20.399				
1200	54.2	17.2	21.663				
1300	52.8	16.8	22.875				
1400	51.5	16.4	24.041				
1460	50.8	16.2	24.719				
1500	50.3	16.0	25.162				
1600	49.2	15.7	26.243				
1700	48.2	15.3	27.286				
1800	47.2	15.0	28.292				
1900	46.2	14.7	29.264				
2000	45.3	14.4	30.204				

TENSION MEMBER TENSILE STRENGTH

T20 Belt Width in mm	32	50	75	100	150	
Newtons	4750	7750	12000	16000	24500	

FLEXIBILITY

Allowable tensile load on belt cross section F_{zul} in N.

Type of Teeth		T20
without contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on the belt teeth	15 120mm
with contraflexure 	Minimum No. of Teeth on timing pulleys for double sided belts T20 DL Minimum DIA of flat tension pulley running on belt back	25 120mm

27.26



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TOOTH SHEAR STRENGTH

AT20 TIMING BELT/PULLEY

20mm PITCH

TOOTH SHEAR STRENGTH

Technical Section

MAX. BELT CAPACITY

Max. power	250kw
Max. speed	6000 RPM
Flank Play	0.8mm
Max. recommended belt speed	40m/s



Rpm n min ⁻¹	AT20			Rpm n min ⁻¹	AT20		
	F _U spez N cm	M spez Ncm cm	P spez W cm		F _U spez N cm	M spez Ncm cm	P spez W cm
0	147.0	46.8	0.000	2200	63.6	20.2	46.60
20	144.2	45.9	0.962	2400	60.7	19.3	48.52
40	141.7	45.1	1.889	2500	59.3	18.9	49.40
60	139.3	44.3	2.786	2600	58.0	18.4	50.23
80	137.0	43.6	3.654	2800	55.5	17.7	51.75
100	134.9	42.9	4.497	2880	54.5	17.3	52.31
150	130.1	41.4	6.504	3000	53.1	16.9	53.10
200	125.8	40.0	8.388	3200	50.9	16.2	54.28
300	118.5	37.7	11.851	3400	48.8	15.5	55.31
400	112.4	35.8	14.988	3600	46.8	14.9	56.19
500	107.2	34.1	17.862	3800	45.0	14.3	56.93
600	102.6	32.7	20.516	4000	43.2	13.7	57.55
700	98.5	31.4	22.982	4500	39.0	12.4	58.56
730	97.4	31.0	23.689	5000	35.3	11.2	58.89
800	94.8	30.2	25.284	5500	32.0	10.1	60.60
900	91.5	29.1	27.441	6000	28.9	9.2	61.70
1000	88.4	28.1	29.466	6500	26.0	8.2	62.40
1100	85.6	27.2	31.373				
1200	82.9	26.4	33.171				
1300	80.5	25.6	34.869				
1400	78.2	24.9	36.475				
1460	76.8	24.5	37.397				
1500	76.0	24.2	37.994				
1600	73.9	23.5	39.433				
1700	72.0	22.9	40.796				
1800	70.1	22.3	42.087				
1900	68.4	21.8	43.310				
2000	66.7	21.2	44.469				

TENSION MEMBER TENSILE STRENGTH

AT20 Belt Width in mm	32	50	75	100	150
Newtons	6750	11250	17550	23850	36450

FLEXIBILITY

Allowable tensile load on belt cross section F_{zul} in N.

Type of Teeth		AT20
without contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on the belt teeth	18 120mm
with contraflexure 	Minimum No. of Teeth on pulley. Minimum DIA of flat tension pulley running on belt back	25 180mm



TOOTH SHEAR STRENGTH

MP, MXL TIMING BELT/PULLEY

0.08" PITCH

Technical Section

TOOTH SHEAR STRENGTH

MAX. BELT CAPACITY	
Max. power	0.5kw
Max. speed	40,000 RPM
Max. recommended belt speed	80m/s



Rpm n min ⁻¹	MP, MXL			Rpm n min ⁻¹	MP, MXL		
	F _U spez $\frac{N}{cm}$	M spez $\frac{Ncm}{cm}$	P spez $\frac{W}{cm}$		F _U spez $\frac{N}{cm}$	M spez $\frac{Ncm}{cm}$	P spez $\frac{W}{cm}$
0	6.58	0.213	0.000	2200	3.50	0.113	0.261
20	6.36	0.206	0.004	2400	3.42	0.111	0.278
40	6.18	0.200	0.008	2500	3.39	0.110	0.287
60	6.03	0.195	0.012	2600	3.35	0.108	0.295
80	5.90	0.191	0.016	2800	3.29	0.106	0.312
100	5.79	0.187	0.020	2880	3.26	0.106	0.318
150	5.56	0.180	0.028	3000	3.23	0.104	0.328
200	5.38	0.174	0.036	3200	3.17	0.103	0.344
300	5.10	0.165	0.052	3400	3.12	0.101	0.359
400	4.89	0.158	0.066	3600	3.07	0.099	0.374
500	4.72	0.153	0.080	3800	3.02	0.098	0.389
600	4.58	0.148	0.093	4000	2.98	0.096	0.404
700	4.45	0.144	0.106	4500	2.88	0.093	0.438
730	4.42	0.143	0.109	5000	2.78	0.090	0.472
800	4.35	0.141	0.118	5500	2.70	0.087	0.503
900	4.25	0.137	0.130	6000	2.63	0.085	0.533
1000	4.16	0.135	0.141	6500	2.56	0.083	0.562
1100	4.08	0.132	0.152	7000	2.49	0.081	0.590
1200	4.01	0.130	0.163	7500	2.43	0.079	0.617
1300	3.94	0.128	0.174	8000	2.37	0.077	0.643
1400	3.88	0.126	0.184	8500	2.32	0.075	0.668
1460	3.85	0.124	0.190	9000	2.27	0.073	0.692
1500	3.82	0.124	0.194	9500	2.22	0.072	0.715
1600	3.77	0.122	0.204	10000	2.18	0.070	0.737
1700	3.72	0.120	0.214	12000	2.02	0.065	0.819
1800	3.67	0.119	0.224	15000	1.82	0.059	0.924
1900	3.62	0.117	0.233	18000	1.66	0.054	1.011
2000	3.58	0.116	0.242	20000	1.57	0.051	1.061

TENSION MEMBER TENSILE STRENGTH

MP, MXL Belt Width in mm Newtons	4	6	10	16
		39	65	117

Allowable tensile load on belt cross section F_{zul} in N.

FLEXIBILITY

Type of Teeth		MP MXL
without contraflexure 	Minimum No. of Teeth on pulley, Minimum DIA of flat tension pulley running on the belt teeth	10 15mm
with contraflexure 	Minimum No. of Teeth on pulley, Minimum DIA of flat tension pulley running on belt back	18 15mm

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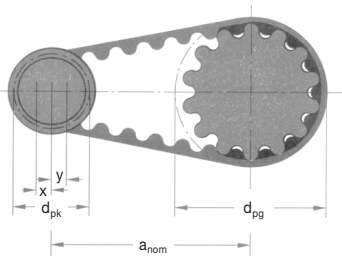
HTD TIMING BELTS

SYMBOL DESCRIPTIONS

Technical Section

a	= Drive centre distance	(mm)
a_{nom}	= Drive centre distance with standard belt length	(mm)
b_{st}	= Standard belt width	
C₀	= Basic service factor	
C₁	= Tooth in mesh factor	
C₂	= Overall service factor	
C₃	= Speed ratio correction factor	
C₆	= Fatigue correction factor	
C₇	= Length factor	
d_a	= Outside diameter of pulley	(mm)
d_p	= Pitch diameter of pulley	(mm)
d_{pg}	= Pitch diameter of large pulley	(mm)
d_{pk}	= Pitch diameter of small pulley	(mm)
d_{p1}	= Pitch diameter of driving pulley	(mm)
d_{p2}	= Pitch diameter of driven pulley	(mm)
E_a	= Belt deflection for given span length(mm)	
f	= Test force	(N)
i	= Speed ratio	
L	= Drive span length	(mm)
L_{psst}	= Standard pitch length of timing belt (mm)	
L_{pth}	= Calculated pitch length of timing belt(mm)	
n_k	= Speed of small pulley	(min ⁻¹)
n₁	= Speed of driving pulley	(min ⁻¹)
n₂	= Speed of driven pulley	(min ⁻¹)
P	= Power to be transmitted by timing belt drive	(kW)
P_B	= Design power	(kW)
P_N	= Rated power	(kW)
P_U	= Transmissible power for standard belt width (P _N x C ₁ x C ₂)	(kW)

S_a	= Minimum static shaft loading when stationary	(N)
S_{nperm}	= Maximum permissible peripheral force(N)	
S_{n3}	= Peripheral force to be effectively transmitted	(N)
S_n	= Peripheral force to be effectively transmitted including actual centrifugal force	(N)
S_z	= Peripheral force referred to 25mm belt width	(N)
S_{zB}	= Actual peripheral force	(N)
t	= Tooth pitch	(mm)
v	= Belt speed	(m/s)
x	= Minimum adjustment of drive centre distance e _{nom} for tensioning timing belt	(mm)
y	= Minimum adjustment of drive centre distance e _{nom} for installation	(mm)
Z_a	= Number of teeth in mesh of small pulley	
Z_g	= Number of teeth on large pulley	
Z_k	= Number of teeth on small pulley	
Z_r	= Number of teeth on timing belt	
Z₁	= Number of teeth on driving pulley	
Z₂	= Number of teeth on driven pulley	



HTD TIMING BELTS

DESIGN CALCULATIONS

The basic service factor C_0 takes account of the daily operating time and the types of prime mover and driven unit. As it is practically impossible to summarise every conceivable combination of prime mover/driver unit/ambient conditions, the service factors represent **guide values**. In special cases, such as increased starting torque values, drive systems with high stop/start frequencies, or with fast accelerations or decelerations, the service factor should be increased. **The overall service factor C_2 is determined by addition of the values found in tables 1, 2 and 5.** NOTE:- WHERE 6 TEETH OR MORE ARE IN MESH WITH THE SMALL PULLEY THEIR SHEAR STRENGTH EXCEEDS THE TENSION STRENGTH OF THE TENSION CORD.

Table 1

<div style="font-size: 48pt; text-align: center; margin-bottom: 10px;">C_0</div> Service factor C_0 at number of operating hours per day	Service conditions and examples of prime movers			
	Steady operation		Intermittent operation	
Type of service and examples of machine applications	<i>Electric motors High-speed turbines Piston engines with large number of cylinders</i>		<i>Hydraulic motors Low-speed turbines Piston engines with small number of cylinders</i>	
	up to 16 h	over 16 h	up to 16 h	over 16 h
Lightweight drives, shock-free and steady running <i>Measuring equipment, film cameras, office machinery, belt conveyor systems (lightweight goods).</i>	1.3	1.4	1.4	1.5
Medium drives, intermittent operation with low to medium shock loading <i>Mixing machines, kitchen machines, printing machines, textile machines, packaging machines, belt conveyor systems (heavy goods).</i>	1.6	1.7	1.8	1.9
Heavy duty drives, intermittent operation with medium to high shock loading <i>Machine tools, woodworking machines, eccentric drives, conveyor systems (heavy goods).</i>	1.8	1.9	2.0	2.1
Very heavy duty drives, continuous operation with high stock loading <i>Grinding mills, calendars, extruders, piston pumps and compressors, lifting gear.</i>	2.0	2.1	2.2	2.3

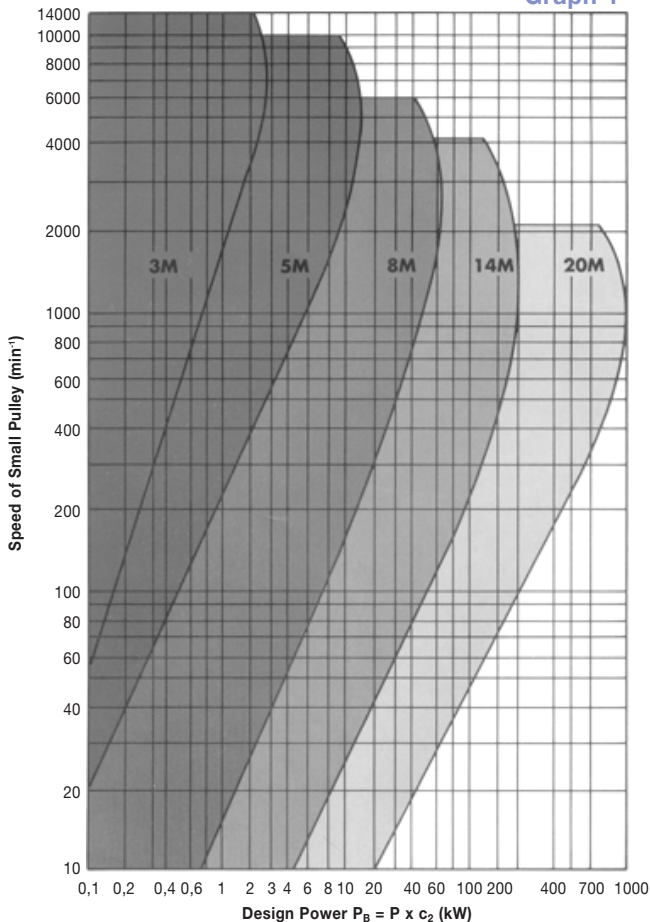


HTD TIMING BELTS

BELT SELECTION GRAPH

Technical Section

Graph 1



DRIVE DESIGN - ADDITIONAL FACTORS

Table 2
Length Factor C_7

TYPE 3M		
Pitch Length (mm)	C_7	
≤ 190	0.8	
> 190 ≤ 260	0.9	
> 260 ≤ 400	1.0	
> 400 ≤ 600	1.1	
> 600	1.2	

TYPE 5M		
Pitch Length (mm)	C_7	
≤ 440	0.8	
> 440 ≤ 555	0.9	
> 555 ≤ 800	1.0	
> 800 ≤ 1100	1.1	
> 1100	1.2	

TYPE 8M		
Pitch Length (mm)	C_7	
≤ 600	0.8	
> 600 ≤ 880	0.9	
> 880 ≤ 1200	1.0	
> 1200 ≤ 1760	1.1	
> 1760	1.2	

TYPE 14M		
Pitch Length (mm)	C_7	
≤ 1190	0.80	
> 1190 ≤ 1610	0.90	
> 1610 ≤ 1890	0.95	
> 1890 ≤ 2450	1.00	
> 2450 ≤ 3150	1.05	
> 3150	1.10	

TYPE 20M		
Pitch Length (mm)	C_7	
≤ 3000	0.90	
> 3000 ≤ 3400	0.95	
> 3400 ≤ 4600	1.00	
> 4600 ≤ 5400	1.05	
> 5400 ≤	1.10	

Table 3 : Teeth in Mesh Factor c_1

Number of Teeth in Mesh Z_0	Teeth in Mesh Factor C_1
6 and more	1.00
5	0.80
4	0.60
3	0.40
2	0.20

The factors and corrections in Tables, 3, 4 and 5 apply to all HTD types.

Table 4 : Fatigue Correction Factor C_6

Operating Conditions	Correction Factor C_6
Continuous 24-hour operation and/or use of a tensioning idler	0.20 per idler

For unusual operating conditions, the following should be added to the basic service factor C_0

Table 5 : Speed Ratio Correction Factor C_3

Speed Ratio i	Speed Ratio Correction Factor C_3
1.00 - 0.80	0.00
0.79 - 0.57	0.10
0.56 - 0.40	0.20
0.39 - 0.28	0.30
0.27 and smaller	0.40

For speed increasing drives, the factor corresponding to the speed ratio should be added to the basic service factor C_0

Further corrections to the overall service factor may become necessary in the case of reversing drives, brake motors, electric brakes, etc.



CALCULATION FORMULAE

Overall service factor

$$c_2 = c_0 + c_3 + c_6$$

c_0 from Table 1
 c_3 from Table 5
 c_6 from Table 4

Design Power

$$P_B = P \times c_2$$

Selection of Timing Belt Type

See graph 1

Speed Ratio

$$i = \frac{n_1}{n_2} = \frac{z_2}{z_1} = \frac{d_{p2}}{d_{p1}}$$

Number of Teeth on Pulleys

$$z_1$$

$$z_2 = z_1 \times i$$

Selected from standard HTD pulley range.

Checking the Speed on the Driven Unit

$$i = \frac{z_2}{z_1}$$

$$n_2 = \frac{n_1}{i}$$

Teeth in Mesh Factor

c_1 from Table 3

Belt Width as a function of rated power

Requirement: $P_B \leq P_U$

$$P_U = P_N \times C_1 \times C_7$$

Required P_N value

See relevant belt pages.

Recommended Drive Centre Distance

$$0.5 (d_{pg} + d_{pk}) + 15 < a < 2 \times (d_{pg} + d_{pk})$$

Theoretical and standard pitch length L_{pth} , L_{pSt}

$$L_{pth} = 2a + \frac{\pi}{2} \times (d_{pg} + d_{pk}) + \frac{(d_{pg} - d_{pk})^2}{4a}$$

L_{pSt} Standard belt length, see pages for HTD Belts.

Nominal Drive Centre Distance a_{nom}

$$a_{nom} = K + \sqrt{K^2 - \frac{(d_{pg} - d_{pk})^2}{8}}$$

$$K = \frac{L_{pst}}{4} - \frac{\pi}{8} (d_{pg} + d_{pk})$$

Drive centre distance a_{nom} to be provided with adjustments for installation y_1 and tensioning x_1

$$x_1 \geq x + 0.002 \times a_{nom} \quad x \text{ from Table 6}$$

y_1 depending on flange arrangement, minimum adjustment y

$$y_1 \geq y \quad y \text{ from Table 6}$$

Calculation and setting of tension, see relevant page.

Length Factor

c_7 from Table 2

Number of Teeth in Mesh on a Small Pulley

$$z_e = \frac{zk}{6} \left(3 - \frac{d_{pg} - d_{pk}}{a_{nom}} \right)$$



CALCULATION

TENSIONING/MIN ADJUSTMENT x/y

Correct belt tension is of enormous importance for the satisfactory transmission of power and achievement of normal belt service life. Frequently, insufficient or excessive tensioning will lead to the premature failure of timing belts. Over tensioning frequently results in bearing failure on the prime mover or the driven unit. It has been found that unscientific tensioning methods, for example the 'thumb pressure method' are not suitable for applying the optimum tension to drive systems for maximum efficiency. It is recommended therefore that the necessary static tension should be calculated for each drive system, using the following formulae. By virtue of their extremely low stretch properties, it is not necessary with our HTD timing belts to carry out any retensioning after installation.

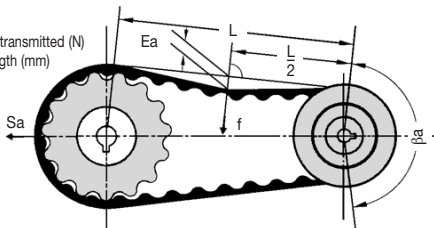
Formula symbols:

- f = test force (N)
- S_{n3} = peripheral force to be effectively transmitted (N)
- E_a = belt deflection for given span length (mm)
- L = drive span length (mm)

1. Calculation of test force f

$$f = \frac{S_{n3}}{20}$$

$$S_{n3} = \frac{P \times 1000}{v}$$



2. Calculation of belt deflection E_a for existing span length L

$$E_a = \frac{L}{50}$$

$$L = \sqrt{a^2_{nom} - \left(\frac{d_{pg} - d_{pk}}{2}\right)^2}$$

Belt Speed

$$v = \frac{d_{p1} \times n_1}{19100}$$

v m/s

3. Calculation of minimum static shaft loading

$$S_a = S_{n3} \times 1.1$$

Minimum adjustment x/y of drive centre distance for correction of length tolerance.

When establishing the drive centre distance, provision should be made for adjustment in accordance with Table 6.

Table 6

For each additional 254mm length, 0.03mm should be added.

L_{pSt} (mm)	≥ 91.44 ≥ 254	≥ 255 ≥ 381	≥ 382 ≥ 508	≥ 509 ≥ 762	≥ 763 ≥ 1016	≥ 1017 ≥ 1270	≥ 1270 ≥ 1524	≥ 1525 ≥ 1778
Min. drive centre distance adjustment x/y (mm)	± 0.20	± 0.23	± 0.25	± 0.30	± 0.33	± 0.38	± 0.41	± 0.43



RATED POWER PN 3mm PITCH, 6mm Wide Belt

RATED POWER (WATTS)

Pitch Ø (mm)	Number of Teeth in Pulley															
	10	12	14	16	18	20	24	28	32	40	48	56	64	72	80	
	9.55	11.46	13.37	15.28	17.19	19.10	22.92	26.74	30.56	38.20	45.84	53.48	61.12	68.76	76.39	
Speed of SmallPulley RPM	20	1	1	1	1	2	2	2	3	3	4	6	7	8	9	
	40	2	2	2	3	3	3	4	5	6	9	11	13	15	19	
	60	2	3	3	4	5	5	7	8	10	13	17	20	23	28	
	100	4	5	6	7	8	9	11	13	16	21	28	33	38	47	
	200	8	10	11	13	15	17	22	27	32	43	55	66	75	94	
	300	11	13	16	18	21	24	30	36	43	58	74	87	100	112	128
	400	13	16	19	23	26	30	37	45	53	71	90	107	122	138	153
	500	16	19	23	27	31	35	44	53	62	83	106	125	143	161	179
	600	18	22	27	31	35	40	50	60	71	95	120	142	163	183	203
	700	20	25	30	35	40	45	56	68	80	106	134	159	181	204	227
	800	23	28	33	39	44	50	62	75	88	117	148	174	199	224	249
	900	25	30	36	42	48	55	68	82	96	127	160	189	216	243	270
	950	26	32	38	44	50	57	71	85	100	132	167	197	225	253	281
	1000	27	33	39	46	52	59	73	88	104	137	173	204	233	262	291
	1200	31	38	45	52	60	68	84	101	119	156	197	232	265	298	330
	1400	35	43	51	59	68	76	94	113	133	175	219	258	295	331	367
	1450	36	44	52	61	69	78	97	116	137	179	225	264	302	339	377
	1600	39	47	56	65	75	84	104	125	147	192	241	283	323	363	403
	1800	42	52	62	72	82	92	114	136	160	209	261	307	351	394	437
	2000	46	56	67	77	89	100	123	148	173	226	281	331	377	423	469
2400	53	65	77	89	102	115	141	169	197	257	319	375	427	479	530	
2850	60	73	86	100	114	129	158	189	221	287	355	416	474	530	586	
3200	66	81	96	111	126	142	175	209	243	315	389	455	517	578	638	
3600	73	88	105	121	138	155	191	227	265	342	421	492	558	622	685	
4000	79	96	113	131	150	168	206	246	285	368	451	526	596	663	727	
5000	94	114	134	155	177	198	243	288	334	427	521	603	678	749	814	
6000	108	131	154	178	202	227	277	327	378	481	581	667	743	812	871	
7000	121	147	173	200	227	254	309	364	419	528	631	718	790	850	896	
8000	134	163	191	221	250	279	339	398	456	569	673	754	816	861	885	
10000	159	192	226	259	293	326	393	457	519	631	724	781	804	792	739	
12000	182	220	257	295	332	368	438	505	566	666	729	739	691			
14000	204	245	286	327	366	404	476	541	596	670	683	616				

When using these pulleys/speeds reduced service life must be expected



RATED POWER PN 3mm PITCH, 9mm Wide Belt

RATED POWER (WATTS)																
Pitch Ø (mm)	Number of Teeth in Pulley															
	10	12	14	16	18	20	24	28	32	40	48	56	64	72	80	
	9.55	11.46	13.37	15.28	17.19	19.10	22.92	26.74	30.56	38.20	45.84	53.48	61.12	68.76	76.39	
Speed of SmallPulley RPM	20	1	1	1	1	3	3	3	4	4	6	9	11	13	13	14
	40	3	3	3	4	4	4	6	8	9	14	18	21	24	27	31
	60	3	4	4	6	8	8	11	13	16	21	27	32	37	40	45
	100	6	8	9	11	13	14	18	21	26	34	45	54	62	68	77
	200	13	16	18	21	24	27	36	44	52	70	90	108	122	137	154
	300	18	21	26	29	34	39	49	59	70	95	121	142	163	183	204
	400	21	26	31	37	42	49	60	73	86	116	147	175	200	226	250
	500	26	31	37	44	50	57	72	86	101	136	173	204	234	264	293
	600	29	36	44	50	57	65	81	98	116	155	196	232	267	300	332
	700	32	40	49	57	65	73	91	111	131	173	219	260	296	334	372
	800	37	45	54	63	72	81	101	122	144	191	242	285	326	367	408
	900	40	49	59	68	78	90	111	134	157	208	262	309	354	398	442
	950	42	52	62	72	81	93	116	139	163	216	273	323	368	414	460
	1000	44	54	63	75	85	96	119	144	170	224	283	334	382	429	477
	1200	50	62	73	85	98	111	137	165	195	255	323	380	434	488	541
	1400	57	70	83	96	111	124	154	185	218	286	359	423	483	542	603
	1450	59	72	85	100	113	127	159	190	224	293	367	432	495	555	618
	1600	63	77	91	106	122	137	170	204	241	314	395	464	529	595	660
	1800	68	85	101	118	134	150	186	223	262	342	428	503	575	646	716
	2000	75	91	109	126	145	163	201	243	283	370	460	542	618	693	769
2400	86	106	126	145	167	188	231	277	323	421	523	614	700	785	869	
2850	98	119	141	163	186	211	259	309	362	470	582	682	777	869	961	
3200	108	132	157	182	206	232	286	342	398	516	637	746	847	947	1046	
3600	119	144	172	198	226	254	313	372	434	560	690	806	915	1020	1123	
4000	129	157	185	214	245	275	337	401	467	603	739	862	977	1087	1192	
5000	154	186	219	254	290	324	398	472	547	700	854	988	1111	1228	1334	
6000	177	214	252	291	331	372	454	536	619	788	952	1093	1218	1331	1428	
7000	198	241	283	327	372	416	506	596	687	865	1034	1177	1295	1393	1469	
8000	219	267	313	362	406	457	555	652	747	933	1103	1236	1338	1411	1451	
10000	260	314	370	424	480	534	644	749	851	1034	1187	1280	1318	1298	1211	
12000	298	360	421	482	544	603	718	828	928	1092	1195	1211	1133			
14000	334	401	469	536	600	662	780	887	977	1098	1120	1010				

When using these pulleys/speeds reduced service life must be expected

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RATED POWER (WATTS)

Pitch Ø (mm)	Number of Teeth in Pulley															
	14	16	18	20	24	28	32	36	40	44	48	56	64	72	80	
	22.28	25.46	28.65	31.83	38.20	44.56	50.93	57.30	63.66	70.06	76.39	89.13	101.86	114.59	127.32	
Speed of SmallPulley RPM	20	4	5	6	7	9	11	13	15	17	20	23	27	31	34	38
	40	9	11	12	14	18	21	26	30	35	40	45	54	61	69	77
	60	13	16	18	21	26	32	38	45	52	60	68	80	92	103	115
	100	22	26	30	35	44	54	64	75	87	100	113	134	153	172	192
	200	45	53	61	69	88	107	128	150	174	199	226	268	306	345	383
	300	61	72	83	94	119	145	172	202	233	266	300	356	407	458	509
	400	76	90	103	117	147	179	213	249	286	326	368	436	498	561	623
	500	91	106	122	139	174	211	251	292	336	382	430	510	586	656	728
	600	104	122	140	159	199	241	286	334	383	435	489	580	662	745	827
	700	117	137	158	179	223	271	321	373	428	485	545	646	739	829	921
	800	130	152	174	198	247	299	353	411	471	533	598	709	809	910	1010
	900	142	166	191	216	269	326	385	447	512	580	650	769	879	987	1096
	950	148	173	199	225	280	339	401	465	532	603	675	799	912	1025	1137
	1000	154	180	206	234	291	352	416	483	552	625	699	828	945	1062	1178
	1200	177	207	237	268	334	403	475	551	629	710	794	939	1072	1204	1334
	1400	199	232	266	301	375	451	532	615	702	791	884	1044	1191	1336	1480
	1450	205	239	274	309	384	463	545	631	720	811	905	1070	1220	1368	1515
	1600	221	257	295	333	414	498	586	677	771	869	969	1144	1303	1461	1617
	1800	242	281	322	364	451	543	638	736	838	943	1050	1239	1410	1578	1745
	2000	262	305	349	394	488	586	688	794	902	1014	1128	1329	1511	1689	1864
2400	301	350	400	451	558	669	784	902	1024	1148	1274	1497	1697	1891	2079	
2850	338	393	449	506	625	748	874	1004	1137	1272	1408	1649	1863	2067	2262	
3200	374	434	496	559	688	822	960	1100	1242	1386	1531	1786	2008	2217	2411	
3600	409	474	541	609	749	893	1040	1190	1340	1492	1644	1908	2134	2340	2526	
4000	443	513	585	658	808	961	1116	1274	1431	1589	1745	2015	2238	2436	2604	
5000	523	605	688	772	943	1115	1288	1459	1628	1792	1951	2212	2402	2541	2623	
6000	598	690	783	877	1064	1250	1433	1610	1778	1937	2084	2301	2411	2434	2358	
7000	669	769	870	971	1171	1365	1550	1722	1880	2019	2137	2268	2245			
8000	735	843	950	1057	1264	1459	1637	1794	1927	2031	2101	2100				
10000	854	972	1088	1199	1403	1577	1714	1804	1842	1819	1729					
12000	956	1078	1193	1299	1476	1594	1643	1609								
14000	1039	1158	1264	1354	1473	1495	1403									

When using these pulleys/speeds reduced service life must be expected



RATED POWER (WATTS)																
Pitch Ø (mm)	Number of Teeth in Pulley															
	14	16	18	20	24	28	32	36	40	44	48	56	64	72	80	
	22.28	25.46	28.65	31.83	38.20	44.56	50.93	57.30	63.66	70.06	76.39	89.13	101.86	114.59	127.32	
Speed of SmallPulley RPM	20	7	9	11	13	16	20	24	27	31	37	42	50	57	63	70
	40	16	20	22	26	33	39	48	55	65	74	83	100	113	128	143
	60	24	29	33	39	48	59	70	83	96	111	126	148	171	192	214
	100	41	48	55	65	82	100	119	139	162	186	210	249	285	320	358
	200	83	68	113	128	164	199	238	279	324	371	421	499	570	643	714
	300	113	134	154	175	221	270	320	376	434	496	559	663	759	854	949
	400	141	167	192	218	274	333	397	464	533	607	686	813	928	1046	1161
	500	169	197	227	259	324	393	468	544	626	712	801	951	1087	1223	1357
	600	199	227	261	296	371	449	533	622	714	811	911	1081	1234	1389	1542
	700	218	255	294	333	415	505	598	695	798	904	1016	1204	1376	1546	1717
	800	242	283	324	369	460	557	658	766	878	993	1115	1322	1508	1697	1883
	900	264	309	356	402	501	607	717	833	954	1081	1212	1434	1639	1840	2043
	950	276	322	371	419	522	632	747	867	992	1124	1258	1490	1700	1911	2120
	1000	287	335	384	436	542	656	775	900	1029	1165	1303	1544	1762	1980	2196
	1200	330	386	441	499	622	751	885	1027	1173	1324	1480	1751	1999	2245	2487
	1400	371	432	496	561	699	841	992	1146	1309	1475	1648	1946	2221	2491	2760
	1450	382	445	510	576	716	863	1016	1176	1342	1512	1687	1995	2275	2551	2825
	1600	412	479	550	621	772	928	1092	1262	1437	1620	1807	2133	2429	2724	3015
	1800	451	524	600	678	841	1012	1189	1372	1562	1758	1958	2310	2629	2942	3254
	2000	488	568	650	734	910	1092	1283	1480	1682	1891	2103	2478	2817	3149	3476
2400	561	652	745	841	1040	1247	1462	1682	1909	2140	2375	2791	3164	3526	3877	
2850	630	732	837	943	1165	1394	1629	1872	2120	2372	2625	3075	3474	3854	4218	
3200	697	809	924	1042	1283	1532	1790	2051	2316	2584	2855	3330	3744	4134	4496	
3600	762	883	1008	1135	1396	1665	1939	2219	2498	2782	3065	3558	3979	4363	4710	
4000	826	956	1090	1227	1506	1792	2081	2375	2668	2963	3254	3757	4173	4542	4856	
5000	975	1128	1283	1439	1758	2079	2401	2720	3036	3341	3638	4125	4479	4738	4891	
6000	1115	1286	1460	1635	1974	2331	2672	3002	3315	3612	3886	4291	4496	4539	4397	
7000	1247	1434	1622	1810	2183	2545	2890	3211	3506	3765	3985	4229	4186			
8000	1370	1572	1771	1971	2357	2720	3052	3345	3593	3787	3918	3916				
10000	1592	1812	2029	2236	2616	2940	3196	3364	3435	3392	3221					
12000	1782	2010	2224	2422	2752	2972	3064	3000								
14000	1937	2159	2357	2525	2746	2788	2616									

When using these pulleys/speeds reduced service life must be expected



RATED POWER PN 8mm PITCH, 20mm Wide Belt

RATED POWER (kW)

Pitch Ø (mm)	Number of Teeth in Pulley																	
	22	24	26	28	30	32	34	36	38	40	44	48	52	56	64	72	80	
	56.02	61.12	66.21	71.30	76.39	81.49	86.58	91.67	96.77	101.86	112.05	122.23	132.42	142.60	162.97	183.35	203.72	
Speed of SmallPulley RPM	10	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.11
	20	0.03	0.04	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.17	0.19	0.21
	50	0.08	0.09	0.11	0.13	0.16	0.18	0.21	0.23	0.26	0.28	0.31	0.33	0.36	0.38	0.43	0.48	0.53
	100	0.16	0.18	0.22	0.27	0.31	0.36	0.41	0.47	0.52	0.56	0.62	0.67	0.72	0.77	0.87	0.96	1.06
	200	0.33	0.37	0.45	0.53	0.62	0.72	0.82	0.93	1.05	1.13	1.24	1.34	1.44	1.54	1.73	1.93	2.12
	300	0.49	0.53	0.65	0.77	0.90	1.04	1.19	1.34	1.51	1.64	1.78	1.93	2.07	2.22	2.50	2.77	3.05
	400	0.65	0.71	0.84	0.99	1.16	1.34	1.54	1.74	1.96	2.12	2.31	2.50	2.68	2.87	3.23	3.59	3.94
	500	0.81	0.89	1.02	1.22	1.42	1.64	1.88	2.13	2.39	2.59	2.82	3.05	3.27	3.50	3.94	4.37	4.80
	600	0.98	1.07	1.21	1.43	1.67	1.93	2.21	2.51	2.82	3.05	3.32	3.59	3.85	4.11	4.63	5.13	5.63
	700	1.14	1.24	1.38	1.64	1.92	2.22	2.54	2.88	3.23	3.50	3.81	4.11	4.41	4.71	5.30	5.87	6.44
	800	1.30	1.42	1.56	1.85	2.17	2.50	2.86	3.24	3.64	3.94	4.28	4.63	4.97	5.30	5.96	6.60	7.23
	950	1.55	1.69	1.83	2.16	2.52	2.91	3.33	3.77	4.24	4.58	4.99	5.38	5.77	6.16	6.91	7.65	8.37
	1000	1.63	1.77	1.93	2.26	2.64	3.05	3.48	3.95	4.44	4.80	5.22	5.63	6.04	6.44	7.23	7.99	8.74
	1200	1.95	2.13	2.31	2.65	3.10	3.58	4.09	4.63	5.21	5.63	6.12	6.60	7.07	7.54	8.44	9.32	10.17
	1450	2.35	2.57	2.79	3.13	3.66	4.23	4.83	5.47	6.14	6.64	7.21	7.77	8.31	8.85	9.89	10.90	11.85
	1600	2.59	2.83	3.07	3.42	3.99	4.61	5.26	5.96	6.69	7.23	7.84	8.44	9.03	9.61	10.73	11.79	12.80
	1800	2.92	3.18	3.45	3.78	4.42	5.10	5.82	6.59	7.40	7.99	8.67	9.32	9.96	10.59	11.79	12.92	13.99
	2000	3.23	3.52	3.82	4.18	4.84	5.58	6.37	7.21	8.09	8.74	9.47	10.17	10.86	11.53	12.80	13.99	15.09
	2200	3.55	3.87	4.19	4.59	5.25	6.05	6.91	7.82	8.77	9.47	10.24	11.00	11.73	12.43	13.76	14.98	16.09
	2500	4.02	4.38	4.75	5.19	5.84	6.74	7.69	8.69	9.75	10.52	11.36	12.18	12.95	13.70	15.09	16.32	17.40
2850	4.57	4.97	5.38	5.88	6.51	7.51	8.56	9.67	10.85	11.69	12.60	13.47	14.29	15.06	16.46	17.65	18.62	
3000	4.80	5.22	5.65	6.17	6.79	7.82	8.92	10.08	11.30	12.18	13.11	13.99	14.82	15.60	16.99	18.14	19.04	
3500	5.57	6.05	6.54	7.13	7.72	8.84	10.07	11.37	12.73	13.70	14.68	15.60	16.44	17.20	18.47	19.38	19.89	
4000	6.32	6.85	7.39	8.05	8.71	9.78	11.13	12.55	14.04	15.09	16.09	16.99	17.79	18.47	19.48	19.96		
4500	7.04	7.62	8.22	8.93	9.64	10.64	12.09	13.62	15.23	16.32	17.30	18.14	18.84	19.38	19.96			
5000	7.75	8.37	9.00	9.76	10.52	11.41	12.96	14.58	16.27	17.40	18.31	19.04	19.57	19.89				
5500	8.43	9.09	9.75	10.55	11.34	12.12	13.72	15.41	17.17	18.31	19.10	19.64	19.95					
6000	9.09	9.77	10.46	11.28	12.09	12.89	14.36	16.10	17.91	19.04	19.65	19.96						

 When using these pulleys/speeds reduced service life must be expected



RATED POWER (kW)																		
Pitch Ø (mm)	Number of Teeth in Pulley																	
	22	24	26	28	30	32	34	36	38	40	44	48	52	56	64	72	80	
	56.02	61.12	66.21	71.30	76.39	81.49	86.58	91.67	96.77	101.86	112.05	122.23	132.42	142.60	162.97	183.35	203.72	
Speed of SmallPulley RPM	10	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.14	0.15	0.17
	20	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.15	0.17	0.18	0.19	0.21	0.23	0.24	0.27	0.30	0.33
	50	0.13	0.15	0.18	0.21	0.24	0.28	0.32	0.37	0.41	0.44	0.49	0.53	0.57	0.61	0.68	0.76	0.84
	100	0.26	0.29	0.35	0.42	0.49	0.57	0.65	0.73	0.83	0.89	0.97	1.05	1.13	1.21	1.37	1.52	1.67
	200	0.51	0.58	0.70	0.84	0.98	1.13	1.29	1.47	1.65	1.78	1.95	2.11	2.27	2.42	2.73	3.04	3.34
	300	0.77	0.84	1.02	1.21	1.41	1.63	1.87	2.12	2.38	2.58	2.81	3.04	3.27	3.49	3.94	4.38	4.81
	400	1.03	1.12	1.32	1.57	1.83	2.12	2.42	2.75	3.09	3.34	3.64	3.94	4.23	4.52	5.09	5.66	6.21
	500	1.28	1.40	1.61	1.92	2.24	2.59	2.96	3.36	3.77	4.08	4.45	4.81	5.16	5.52	6.21	6.89	7.57
	600	1.54	1.68	1.90	2.26	2.64	3.05	3.49	3.95	4.44	4.81	5.23	5.66	6.07	6.49	7.30	8.10	8.88
	700	1.80	1.96	2.18	2.59	3.03	3.50	4.00	4.54	5.10	5.52	6.00	6.49	6.96	7.43	8.36	9.27	10.16
	800	2.05	2.24	2.46	2.92	3.41	3.94	4.51	5.11	5.74	6.21	6.76	7.30	7.83	8.36	9.40	10.41	11.40
	950	2.44	2.66	2.89	3.40	3.98	4.60	5.25	5.95	6.69	7.33	7.86	8.49	9.11	9.71	10.91	12.07	13.21
	1000	2.57	2.80	3.04	3.56	4.16	4.81	5.50	6.23	7.00	7.57	8.23	8.88	9.52	10.16	11.40	12.61	13.80
	1200	3.08	3.35	3.64	4.19	4.89	5.65	6.46	7.31	8.21	8.88	9.65	10.41	11.16	11.89	13.33	14.72	16.07
	1450	3.71	4.05	4.39	4.94	5.78	6.67	7.62	8.63	9.69	10.47	11.37	12.25	13.12	13.97	15.62	17.21	18.73
	1600	4.09	4.46	4.84	5.39	6.30	7.27	8.30	9.40	10.55	11.40	12.37	13.33	14.26	15.17	16.94	18.63	20.24
	1800	4.60	5.01	5.44	5.97	6.97	8.05	9.19	10.40	11.68	12.61	13.68	14.72	15.73	16.72	18.63	20.43	22.13
	2000	5.10	5.56	6.03	6.60	7.64	8.81	10.06	11.38	12.78	13.80	14.95	16.07	17.16	18.21	20.24	22.13	23.88
	2200	5.60	6.10	6.62	7.24	8.28	9.55	10.91	12.34	13.85	14.95	16.18	17.37	18.53	19.64	21.76	23.72	25.50
	2500	6.35	6.91	7.49	8.19	9.23	10.64	12.14	13.73	15.40	16.61	17.95	19.24	20.48	21.67	23.88	25.88	27.63
2850	7.21	7.85	8.50	9.28	10.29	11.86	13.52	15.28	17.14	18.47	19.92	21.29	22.60	23.84	26.10	28.04	29.64	
3000	7.58	8.24	8.93	9.75	10.73	12.36	14.09	15.93	17.86	19.24	20.72	22.13	23.46	24.71	26.96	28.84	30.34	
3500	8.79	9.55	10.33	11.26	12.21	13.97	15.92	17.97	20.13	21.67	23.24	24.71	26.06	27.30	29.39	30.93	31.88	
4000	9.98	10.82	11.68	12.72	13.77	15.47	17.61	19.86	22.23	23.88	25.50	26.96	28.26	29.39	31.10	32.03		
4500	11.13	12.05	12.99	14.12	15.26	16.85	19.15	21.58	24.13	25.88	27.46	28.84	30.00	30.93	32.03			
5000	12.25	13.24	14.25	15.46	16.67	18.09	20.55	23.12	25.82	27.63	29.12	30.34	31.26	31.88				
5500	13.34	14.39	15.45	16.72	17.99	19.24	21.78	24.47	27.28	29.12	30.44	31.41	32.00					
6000	14.39	15.48	16.58	17.90	19.20	20.49	22.84	25.62	28.51	30.34	31.41	32.03						

 When using these pulleys/speeds reduced service life must be expected



RATED POWER (kW)

Pitch Ø (mm)	Number of Teeth in Pulley																	
	28	29	30	32	34	36	38	40	42	44	46	48	52	56	64	72	80	
	124.78	129.23	133.69	142.60	151.52	160.43	169.34	178.25	187.17	196.08	204.99	213.90	231.73	249.56	285.21	320.86	356.51	
Speed of Small Pulley RPM	10	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7
	20	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.9	1.0	1.0	1.2	1.3	1.5
	40	0.7	0.8	0.8	1.0	1.1	1.2	1.4	1.4	1.5	1.6	1.7	1.8	1.9	2.1	2.4	2.7	3.0
	60	1.1	1.2	1.3	1.5	1.7	1.9	2.0	2.2	2.3	2.4	2.5	2.7	2.9	3.1	3.6	4.0	4.5
	100	1.8	1.9	2.1	2.4	2.8	3.1	3.4	3.6	3.8	4.0	4.2	4.4	4.9	5.2	6.0	6.7	7.5
	200	3.6	3.9	4.2	4.8	5.5	6.2	6.8	7.2	7.6	8.0	8.4	8.9	9.7	10.5	12.0	13.5	15.0
	300	4.9	5.3	5.7	6.6	7.5	8.5	9.2	9.7	10.3	10.8	11.4	12.0	13.1	14.2	16.5	18.9	21.3
	400	6.1	6.6	7.1	8.2	9.3	10.5	11.4	12.0	12.7	13.3	14.0	14.7	16.1	17.4	20.1	22.9	25.8
	500	7.2	7.8	8.4	9.6	11.0	12.3	13.3	14.1	14.8	15.6	16.4	17.2	18.7	20.2	23.3	26.4	29.6
	600	8.2	8.9	9.5	11.0	12.5	14.0	15.1	15.9	16.8	17.7	18.5	19.4	21.1	22.7	26.1	29.5	32.9
	700	9.1	9.9	10.6	12.2	13.9	15.6	16.8	17.7	18.6	19.5	20.5	21.4	23.2	25.0	28.6	32.2	35.8
	800	10.0	10.8	11.6	13.4	15.1	17.0	18.3	19.3	20.3	21.3	22.3	23.2	25.2	27.0	30.8	34.5	38.2
	950	11.3	12.1	13.1	14.9	16.9	19.0	20.4	21.4	22.5	23.6	24.6	25.7	27.7	29.7	33.6	37.4	41.1
	1000	11.6	12.6	13.5	15.4	17.5	19.6	21.0	22.1	23.5	24.3	25.4	26.5	28.5	30.5	34.4	38.2	41.9
	1200	13.1	14.1	15.1	17.3	19.5	21.8	23.4	24.5	25.7	26.8	28.0	29.1	31.2	33.2	37.1	40.7	44.1
	1450	14.6	15.7	16.9	19.2	21.7	24.2	25.9	27.1	28.3	29.4	30.6	31.7	33.8	35.7	39.2	42.3	44.8
	1600	15.4	16.6	17.8	20.3	22.8	25.5	27.1	28.3	29.5	30.7	31.8	32.9	34.9	36.6	39.8	42.3	44.1
	1800	16.4	17.7	18.9	21.5	24.1	26.8	28.5	29.7	30.9	32.0	33.0	34.0	35.8	37.3	39.8	41.3	41.8
	2000	17.3	18.6	19.8	22.5	25.2	28.0	29.7	30.8	31.9	32.9	33.8	34.7	36.2	37.4	38.9	39.1	38.0
	2200	18.6	19.3	20.6	23.3	26.1	28.9	30.5	31.5	32.5	33.4	34.2	35.0	36.1	36.7	37.0	35.6	
2400	20.1	20.7	21.3	24.0	26.7	29.5	31.1	32.0	32.8	33.5	34.2	34.7	35.3	35.4	34.2			
2600	21.5	22.1	22.7	24.4	27.2	29.9	31.4	32.1	32.7	33.2	33.7	33.9	34.0	33.4	30.9			
2850	23.1	23.8	24.4	25.6	22.4	30.0	31.3	31.8	32.1	32.3	32.4	32.3	31.7	31.4				
3000	24.1	24.7	25.3	26.5	27.5	30.1	31.0	31.6	31.5	31.5	31.4	31.6	31.5	30.8				
3500	26.8	27.5	28.0	29.1	30.8	30.7	31.2	31.5	31.7	31.6	31.3	30.8						
4000	29.1	29.6	30.1	30.8	31.4	31.6	31.6	31.4	30.8									

 When using these pulleys/speeds reduced service life must be expected



RATED POWER (kW)																		
Pitch Ø (mm)	Number of Teeth in Pulley																	
	28	29	30	32	34	36	38	40	42	44	46	48	52	56	64	72	80	
	124.78	129.23	133.69	142.60	151.52	160.43	169.34	178.25	187.17	196.08	204.99	213.90	231.73	249.56	285.21	320.86	356.51	
Speed of Small Pulley RPM	10	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1
	20	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.6	1.8	2.0	2.2
	40	1.1	1.2	1.3	1.4	1.6	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.9	3.1	3.6	4.0	4.5
	60	1.6	1.7	1.9	2.2	2.5	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.7	5.4	6.0	6.7
	100	2.7	2.9	3.1	3.6	4.1	4.7	5.0	5.3	5.7	6.0	6.3	6.6	7.2	7.8	8.9	10.1	11.2
	200	5.4	5.8	6.3	7.2	8.2	9.3	10.1	10.7	11.3	11.9	12.6	13.2	14.5	15.7	17.9	20.1	22.3
	300	7.3	7.9	8.6	9.9	11.2	12.7	13.7	14.5	15.3	16.2	17.0	17.9	19.5	21.2	24.6	28.1	31.8
	400	9.1	9.9	10.6	12.2	13.9	15.7	16.9	17.9	18.9	19.9	20.9	22.0	24.0	25.9	30.0	34.2	38.5
	500	10.7	11.6	12.5	14.4	16.4	18.4	19.9	21.0	22.1	23.3	24.5	25.6	27.9	30.2	34.8	39.4	44.2
	600	12.2	13.2	14.3	16.4	18.6	20.9	22.5	23.8	25.1	26.4	27.6	28.9	31.5	33.9	39.0	44.0	49.2
	700	13.7	14.7	15.9	18.2	20.7	23.2	25.0	26.4	27.8	29.2	30.6	32.0	34.7	37.3	42.7	48.1	53.5
	800	15.0	16.2	17.4	19.9	22.6	25.4	27.3	28.8	30.3	31.7	33.2	34.7	37.6	40.4	46.0	51.6	57.2
	950	16.8	18.1	19.5	22.3	25.3	28.4	30.4	32.0	33.6	35.2	36.8	38.4	41.5	44.4	50.3	56.0	61.6
	1000	17.4	18.7	20.1	23.1	26.1	29.3	31.4	33.0	34.7	36.3	37.9	39.5	42.6	45.6	51.5	57.3	62.8
	1200	19.5	21.0	22.6	25.8	29.2	32.6	35.0	36.7	38.4	40.1	41.8	43.5	46.7	49.8	55.6	61.2	66.3
	1450	21.9	23.5	25.2	28.8	32.4	36.2	38.7	40.5	42.3	44.0	45.8	47.5	50.6	53.5	58.9	63.7	67.7
	1600	23.1	24.9	26.6	30.3	34.1	38.1	40.6	42.4	44.2	45.9	47.6	49.3	52.3	55.1	60.0	64.0	67.0
	1800	24.6	26.4	28.3	32.2	36.1	40.2	42.8	44.6	46.3	48.0	49.6	51.2	53.9	56.3	60.2	62.9	64.1
	2000	25.9	27.8	29.7	33.7	37.8	42.0	44.5	46.2	47.9	49.4	50.9	52.3	54.7	56.6	59.2	60.0	59.0
	2200	27.9	29.0	30.9	35.0	39.1	43.4	45.9	47.4	48.9	50.3	51.6	52.8	54.6	55.9	56.8	55.5	
2400	30.1	31.0	32.0	36.0	40.2	44.4	46.8	48.2	49.5	50.7	51.7	52.6	53.8	54.2	53.1			
2600	32.3	33.2	34.1	36.8	40.9	45.1	47.1	48.5	49.6	50.5	51.2	51.7	52.1	51.5	48.8			
2850	34.8	35.8	36.7	38.6	41.4	45.4	47.2	48.3	48.9	49.4	49.6	49.6	49.1	49.1				
3000	36.2	37.2	38.2	40.0	41.7	45.6	47.3	47.8	48.1	48.3	48.4	48.9	49.2	48.6				
3500	40.6	41.6	42.5	44.2	45.7	46.9	47.9	48.6	49.1	49.2	49.1	48.6						
4000	44.2	45.1	45.8	47.2	48.2	48.9	49.2	49.1	48.6									

 When using these pulleys/speeds reduced service life must be expected



PULLEY DIAMETERS

The use of pulleys below the recommended minimums should, if possible, be avoided as otherwise reduced belt life must be expected.

Belt Types	Speed of Small Pulley (rpm)	Min. Pitch Diameter (mm)	Min. Number of Teeth	Min Diameter of Outside Idler (mm)
3M	3000	19.10	20	20.00
	1500	17.19	18	20.00
	1000	15.28	16	20.00
5M	3000	50.93	32	50.00
	1500	44.56	28	50.00
	1000	35.01	22	50.00
8M	3000	86.58	34	120.00
	1500	76.39	30	120.00
	1000	71.30	28	120.00
14M	3000	160.43	36	180.00
	1500	133.69	30	180.00
	1000	124.78	28	180.00

MINIMUM TIMING BELTS PULLEY DIAMETERS

Belt Types	Max Speed rpm	Minimum Number of Teeth		Minimum Roller Diameter	
		Normal use	Reverse Bending	Normal use	Reverse Bending
T2.5	40000	10	18	15 Ø	15 Ø
T5	40000	10	15	30 Ø	30 Ø
AT5	40000	15	20	25 Ø	60 Ø
T10	15000	12	20	60 Ø	60 Ø
AT10	15000	15	25	50 Ø	120 Ø
T20	6000	15	25	120 Ø	120 Ø
AT20	6000	18	25	120 Ø	180 Ø
MXL	40000	10	18	15 Ø	15 Ø
MP	40000	10	18	15 Ø	15 Ø
XL	40000	10	15	30 Ø	30 Ø
L	15000	15	20	60 Ø	60 Ø
H	15000	14	20	60 Ø	80 Ø



Conditions: z=20, i=1, measuring load as per table (not applicable for double-sided belts)

Belt length mm		Length tolerance measured over centre distance mm	Allowable longitudinal tolerance mm
from	to		
	320	± 0.15	0.10
320	630	± 0.18	0.12
630	1000	± 0.25	0.15
1000	1960	± 0.40	0.20
1960	3500	± 0.50	0.25
3500	4500	± 0.80	0.30

Belt length Tolerances on Center Distance MXL & Classic

Belt length (mm)	Length Tolerance (mm)	Center Distance (mm)	Allowance for Take up (mm)
250 Under	± 0.41	± 0.21	3
250 to 380 Under	± 0.46	± 0.23	5
380 to 500 Under	± 0.51	± 0.26	10
500 to 750 Under	± 0.60	± 0.30	10
750 to 1000 Under	± 0.66	± 0.33	15
1000 to 1250 Under	± 0.76	± 0.38	15
1250 to 1500 Under	± 0.82	± 0.41	25
1250 to 1750 Under	± 0.86	± 0.43	25
1750 to 2000 Under	± 0.92	± 0.46	30

Over 2000 add 0.05mm for each 250mm increase in belt length.

Tolerances

CONTI SYNCHROBELT® HTD synchronous drive belts are precision products. They are manufactured with maximum care and accuracy. The tolerances for length, width and thickness are extremely narrow.

Length Tolerances for Synchronous Drive Belts

Pitch length L_w mm	Tolerance of centre distance deviation mm
≤ 150	± 0.15
> 150- 255	± 0.20
> 255- 400	± 0.23
> 400- 560	± 0.25
> 560- 800	± 0.30
> 800-1000	± 0.33
> 1000-1270	± 0.38
> 1270-1500	± 0.40
> 1500-1800	± 0.43
> 1800-2000	± 0.45
> 2000-2250	± 0.48
> 2250	The tolerance value increases by a further 0.05 mm per 500 mm increase in length.

TOLERANCES ON BELT LENGTH RPP (HTD)

BELT LENGTH (mm)	TOLERANCE ON BELT LENGTH (mm)	TOLERANCE ON CENTRE DISTANCE (mm)
91 - 254	± 0.40	± 0.200
255 - 381	± 0.46	± 0.230
382 - 508	± 0.50	± 0.250
509 - 762	± 0.60	± 0.300
763 - 990	± 0.66	± 0.330
991 -1219	± 0.76	± 0.380
1220-1524	± 0.80	± 0.400
1525-1778	± 0.86	± 0.430
1779-2032	± 0.90	± 0.450
2033-2286	± 0.97	± 0.480
2287-2540	± 1.00	± 0.500
2541-2843	± 1.06	± 0.530
2884-3048	± 1.10	± 0.550
3049-3600	± 1.20	± 0.600
3601-4956	± 1.40	± 0.700



TO FIND:-	MODULE		IMPERIAL	
PCD	= No. of TEETH x MOD	(mm)	= $\frac{\text{No. of TEETH}}{\text{DP}}$	(ins)
ØD	= (No. of TEETH + 2) x MOD	(mm)	= $\frac{\text{No. of TEETH} + 2}{\text{DP}}$	(ins)
DP	= $\frac{25.4}{\text{MODULE}}$		= $\frac{\pi}{\text{CP}''}$	
MODULE	= $\frac{\text{CP}}{\pi}$	(mm)	= $\frac{25.4}{\text{DP}}$	
No. of TEETH	= PCD ÷ MODULE	(mm)	= PCD'' x DP	
CP	= MODULE x π	(mm)	= $\frac{\pi}{\text{DP}}$	(ins)
ADDENDUM	= MODULE	(mm)	= $\frac{1}{\text{DP}}$	(ins)
DEDENDUM	= 1.4 x MOD (0.25-1 MOD)	= 1.25 x MOD (1.25-8 MOD)	= $\frac{1.4 (100-24 \text{ DP})}{\text{DP}}$	= $\frac{1.25}{\text{DP}}$ (20-6 DP)

CORRECTED TEETH FOR 8 - 17 TEETH ON REQUEST OR WHERE LISTED

$$\text{Corrected PCD} = (\text{No. of Teeth} + 1) \times \text{MOD} \div [(\text{No. of Teeth} + 1) / \text{DP}]$$

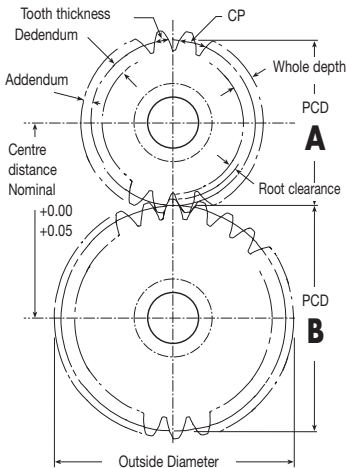
$$\text{Corrected } \text{ØD} = (\text{No. of Teeth} + 3) \times \text{MOD} \div [(\text{No. of Teeth} + 3) / \text{DP}]$$

Our SPUR GEARS are made to give 0.07-0.3° Approx. backlash at standard centres. Housing centres should be nominal +0.00 +0.05mm.

$$= \frac{\text{PCD (A)} + \text{PCD (B)}}{2} \quad * \text{ Depends on pitch}$$

FROM NOMINAL CENTRES mm	INCREASE IN BACKLASH mm
0.005	0.0037
0.010	0.0074
0.015	0.0111
0.020	0.0148
0.025	0.0185
0.030	0.0221
0.035	0.0259
0.040	0.0295
0.045	0.0328
0.050	0.0370

Whole depth = Addendum + Dedendum



FORMULAS HELICAL GEARS

Technical Section

Made to give 0.07-0.3mm* approx. backlash at standard centres. Housing centres should be nominal +0.00 - +0.05mm.

TO FIND:-	MODULE	IMPERIAL
P.C.D.	$= \frac{\text{No. of TEETH} \times \text{MOD}}{\text{COS. HELIX } \phi}$ (mm)	$= \frac{\text{No. of TEETH}}{\text{DP} \times \text{COS. HELIX } \phi}$ (ins)
ØD	$= \text{PCD} + (2 \times \text{MOD})$ (mm)	$= \text{PCD.} + \frac{2}{\text{DP}}$
DP (NORMAL)	$= \frac{25.4}{\text{MODULE}}$	$= \frac{\pi}{\text{CP}}$
MODULE	$= \frac{\text{CP}}{\pi}$ (mm)	$= \frac{25.4}{\text{DP}}$
No. of TEETH	$= \frac{\text{PCD} \times \text{COS. } \phi}{\text{MODULE}}$ (mm)	$= (\text{DP} \times \text{COS. } \phi) \times \text{PCD}$
CP (NORMAL)	$= \text{MODULE} \times \pi$ (mm)	$= \frac{\pi}{\text{DP}}$ (ins)
ADDENDUM	$= \text{MODULE}$	$= \frac{1}{\text{DP}}$ (ins)
Lead	$= \frac{\text{PCD} \times \pi}{\text{TAN } \phi}$	



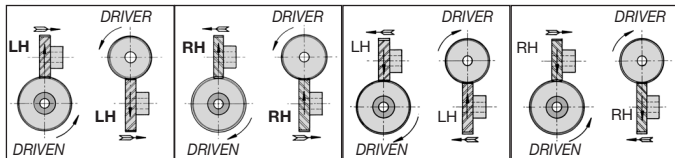
Where HELIX ϕ = HELIX Angle

* dependent on pitch

CROSSED AXIS

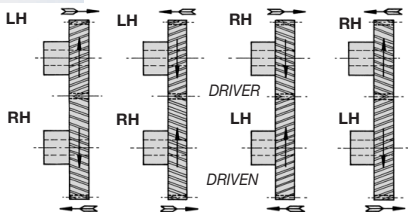
LEFT hand runs with LEFT hand.

RIGHT hand runs with RIGHT hand.



PARALLEL AXIS

LEFT hand runs with RIGHT hand.



General Direction of Force



LOAD CALCULATIONS

SPUR & HELICAL

Technical Section

SPUR GEARS, BSI 436 : 1940

ALLOWABLE TANGENTIAL LOAD, 20° P.A.

Xb = Speed factor for strength	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> WEAR $\frac{X_c Z S_c F}{K} \quad \text{lbs.}$ </div> <div style="border: 1px solid black; padding: 5px;"> STRENGTH $\frac{X_b Y S_b F}{DP} \quad \text{lbs.}$ </div>
Xc = Speed factor for wear	
Y = Strength factor	
Z = Zone factor	
Sc* = Material rating (surface stress)	
Sb* = Material rating (bending stress)	
K = Pitch factor DP ^{0.8} power	
F = Face width (inches)	1N = 0.2248 lbs
DP = 25.4 MOD	

Allowable tangential teeth load lbs = $\frac{\text{Torque lbs ins} \times 2}{\text{pcd}''}$

Torque lbs ins x .113 = Torque Nm

The lowest of the four values for pinion and wheel gives the gear rating. The normal rating for gears is based on 12 hours/day.

1 lb = 1N x .2248 = $\frac{1\text{kg}}{2.20462}$

$\frac{\text{Torque Nm}}{.113} = \text{Torque lbs Ins}$

HELICAL GEARS, BSI 436 : 1940

ALLOWABLE TANGENTIAL LOAD OF 30° HELIX ANGLE, 20° P.A.

Xb = Speed Factor for Strength	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> WEAR $\frac{X_c Z^* S_c F}{K} \quad \text{lbs.}$ </div> <div style="border: 1px solid black; padding: 5px;"> STRENGTH $\frac{X_b Y^* S_b F}{DP} \quad \text{lbs.}$ </div>	<p>*for other helix angles multiply Z by 0.75 sec² α</p> <p>*for other helix angles multiply Y by 1.33 cos² α</p>
Xc = Speed Factor for Wear		
Y = Strength Factor		
Z = Zone Factor		
Sc* = Material Rating (surface stress)		
Sb* = Material Rating (bending stress)		
K = Pitch Factor DP ^{0.8} Power		
F = Face Width (inches)	<p>1.33 Cos² 17°45' = 1.206</p> <p>0.75 Sec² 17°45' = 0.862</p>	
α = Helix Angle		
DP = 25.4 MOD	<p>Cos = Cosine</p> <p>Sec = Secant</p>	

* Please refer to **Material Strength** page for values.

27.50



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SPEED FACTORS SPUR & HELICAL

X_c FOR WEAR

Rpm	RUNNING TIME (hours per day)							
	1	2	4	6	8	12	18	24
.5	2.60	2.10	1.65	1.45	1.31	1.16	1.00	0.90
1	2.14	1.80	1.44	1.25	1.15	1.00	0.86	0.78
3	1.80	1.44	1.14	1.0	0.90	0.78	0.67	0.62
6	1.57	1.25	0.97	0.87	0.79	0.68	0.60	0.54
10	1.43	1.13	0.90	0.79	0.72	0.63	0.54	0.48
30	1.18	0.92	0.73	0.64	0.58	0.51	0.43	0.40
60	1.02	0.82	0.64	0.57	0.52	0.45	0.39	0.35
100	0.935	0.735	0.585	0.515	0.470	0.410	0.350	0.320
200	0.825	0.650	0.520	0.460	0.415	0.360	0.310	0.280
400	0.730	0.580	0.460	0.400	0.360	0.320	0.270	0.250
500	0.700	0.550	0.440	0.380	0.350	0.305	0.260	0.240
600	0.680	0.530	0.425	0.370	0.340	0.290	0.250	0.230
800	0.635	0.500	0.400	0.350	0.320	0.270	0.240	0.220
1000	0.610	0.480	0.380	0.335	0.305	0.260	0.230	0.210
2000	0.520	0.415	0.325	0.290	0.260	0.220	0.200	0.180
3000	0.450	0.355	0.280	0.250	0.225	0.195	0.170	0.155
4000	0.415	0.325	0.260	0.225	0.207	0.180	0.155	0.145
5000	0.380	0.305	0.240	0.210	0.190	0.165	0.145	0.132
7000	0.340	0.270	0.215	0.190	0.170	0.150	0.130	0.118
10000	0.305	0.240	0.190	0.165	0.152	0.130	0.115	0.105

X_b FOR STRENGTH

Rpm	RUNNING TIME (hours per day)				
	1	3	6	12	24
.6	1.06	0.9	0.82	0.73	0.67
1	1.00	0.86	0.77	0.70	0.64
4	0.90	0.76	0.69	0.63	0.57
10	0.80	0.69	0.63	0.57	0.52
30	0.70	0.61	0.55	0.48	0.45
50	0.65	0.56	0.51	0.46	0.42
80	0.62	0.53	0.48	0.43	0.39
100	0.600	0.510	0.430	0.410	0.375
200	0.525	0.425	0.405	0.360	0.330
400	0.435	0.400	0.360	0.320	0.295
500	0.420	0.380	0.345	0.310	0.285
600	0.415	0.370	0.330	0.300	0.275
800	0.410	0.345	0.310	0.285	0.255
1000	0.385	0.330	0.295	0.270	0.245
2000	0.325	0.285	0.255	0.230	0.210
3000	0.285	0.245	0.220	0.200	0.180
4000	0.260	0.225	0.200	0.182	0.165
5000	0.240	0.208	0.185	0.168	0.152
7000	0.215	0.185	0.165	0.150	0.138
10000	0.192	0.165	0.148	0.135	0.120



SPUR GEARS, 20° P.A.

Z

No. of Teeth in Gear	NUMBER OF TEETH ON PINION													
	400	200	150	100	80	60	50	40	30	26	20	15	12	10
10	1.09	1.08	1.08	1.07	1.07	1.06	1.05	1.05	1.04	1.03	1.02	0.97	0.92	0.85
12	1.40	1.38	1.36	1.34	1.32	1.28	1.26	1.25	1.24	1.22	1.19	1.10	1.01	0.92
15	1.84	1.79	1.75	1.69	1.64	1.58	1.53	1.48	1.43	1.41	1.34	1.21	1.10	0.97
20	2.48	2.39	2.32	2.20	2.12	2.00	1.89	1.75	1.68	1.63	1.53	1.34	1.19	1.02
26	3.09	2.94	2.85	2.64	2.53	2.36	2.23	2.06	1.88	1.80	1.63	1.41	1.22	1.03
30	3.50	3.32	3.16	2.90	2.76	2.54	2.40	2.30	1.98	1.88	1.68	1.43	1.24	1.04
40	4.27	3.95	3.79	3.50	3.27	2.93	2.76	2.53	2.30	2.06	1.75	1.48	1.25	1.05
50	4.95	4.58	4.30	3.84	3.65	3.28	3.00	2.76	2.40	2.23	1.89	1.53	1.26	1.05
60	5.60	5.11	4.81	4.21	3.89	3.57	3.28	2.93	2.54	2.36	2.00	1.58	1.28	1.06
80	7.00	6.14	5.62	5.00	4.57	3.89	3.65	3.27	2.76	2.53	2.12	1.64	1.32	1.07
100	8.00	6.88	6.34	5.51	5.00	4.21	3.84	3.50	2.90	2.64	2.20	1.69	1.34	1.07
150	—	8.32	7.44	6.34	5.62	4.81	4.30	3.79	3.16	2.85	2.32	1.75	1.36	1.08
200	—	—	8.32	6.88	6.14	5.11	4.58	3.95	3.32	2.94	2.39	1.79	1.38	1.08
400	—	—	—	8.00	7.00	5.60	4.95	4.27	3.50	3.09	2.48	1.84	1.40	1.09
Rack	—	—	—	9.70	8.40	6.50	5.50	4.65	3.70	3.20	2.55	1.90	1.47	1.12

HELICAL GEARS FOR 30° HELIX ANGLE, 20° P.A.

For other helix angles, multiply zone factor by $0.75 \times \text{Sec}^2$ helix angle.

NOTE $0.75 \times \text{Sec}^2 17^\circ 45' = 0.826$

Z

No. of Teeth in Gear	NUMBER OF TEETH ON PINION														
	Rack	400	200	150	100	80	60	50	40	30	26	20	15	12	10
10	2.03	1.95	1.88	1.85	1.76	1.74	1.64	1.58	1.50	1.45	1.40	1.29	1.18	1.09	1.00
12	2.35	2.26	2.19	2.16	2.06	1.99	1.89	1.81	1.71	1.61	1.55	1.44	1.28	1.17	1.09
15	2.80	2.70	2.61	2.55	2.44	2.36	2.25	2.16	2.01	1.83	1.74	1.61	1.43	1.29	1.18
20	3.43	3.35	3.24	3.18	3.00	2.90	2.70	2.56	2.39	2.16	2.03	1.82	1.60	1.43	1.27
26	4.27	4.10	3.90	3.80	3.58	3.42	3.14	2.96	2.74	2.44	2.29	2.02	1.73	1.54	1.38
30	4.89	4.69	4.47	4.27	3.95	3.76	3.46	3.22	2.93	2.61	2.44	2.17	1.83	1.60	1.45
40	6.11	5.80	5.48	5.18	4.72	4.44	3.98	3.70	3.34	2.92	2.72	2.38	2.00	1.72	1.52
50	7.47	6.74	6.30	6.00	5.41	4.94	4.47	4.18	3.70	3.20	2.94	2.55	2.14	1.81	1.58
60	8.42	7.38	6.83	6.50	5.83	5.35	4.76	4.39	3.93	3.38	3.12	2.66	2.22	1.87	1.64
80	10.88	8.89	7.94	7.50	6.70	6.15	5.42	4.94	4.42	3.74	3.41	2.87	2.36	1.98	1.75
100	—	10.67	9.26	8.40	7.35	6.71	5.88	5.36	4.67	3.94	3.60	2.97	2.43	2.05	1.78
150	—	—	11.30	10.00	8.42	7.50	6.50	5.92	5.07	4.24	3.84	3.17	2.52	2.14	1.84
200	—	—	—	11.20	9.17	8.00	6.88	6.20	5.33	4.37	3.96	3.25	2.68	2.19	1.88
400	—	—	—	—	10.55	9.11	7.48	6.67	5.68	4.63	4.14	3.35	2.69	2.26	1.94
Rack	—	—	—	—	10.92	8.50	7.34	6.00	4.91	4.36	3.44	2.81	2.36	—	—



STRENGTH FACTORS SPUR & HELICAL

HELICAL GEARS WITH 30° HELIX ANGLE, 20° P.A. AND 20° P.A. SPUR GEARS

Y

For other helix angles, multiply zone strength by $1.33 \times \cos^2$ helix angle. NOTE: $1.33 \times \cos^2 17^\circ 45' = 1.206$

No. of Teeth in Gear	NO. OF TEETH ON MATING GEAR OR PINION														
	Rack	400	200	150	100	80	60	50	40	30	26	20	15	12	10
10	.600	.585	.580	.579	.575	.573	.568	.566	.563	.561	.558	.554	.548	.542	.533
12	.658	.639	.630	.625	.618	.614	.605	.600	.597	.593	.591	.585	.573	.562	.550
15	.714	.697	.687	.681	.670	.664	.653	.646	.638	.631	.626	.617	.598	.580	.563
20	.770	.750	.738	.731	.720	.713	.698	.686	.677	.652	.642	.626	.605	.579	.562
26	.813	.790	.776	.768	.753	.742	.725	.699	.671	.633	.627	.614	.595	.572	.551
30	.838	.813	.796	.788	.772	.759	.738	.716	.677	.623	.611	.602	.582	.560	.543
40	.876	.854	.837	.824	.803	.788	.761	.736	.693	.642	.607	.574	.555	.535	.518
50	.900	.872	.858	.848	.822	.806	.776	.752	.705	.644	.620	.582	.544	.517	.490
60	.913	.883	.865	.856	.833	.815	.783	.758	.716	.654	.630	.590	.549	.523	.500
80	.928	.896	.875	.863	.839	.821	.791	.765	.728	.673	.645	.602	.562	.533	.511
100	.931	.897	.875	.864	.840	.822	.793	.767	.734	.683	.661	.613	.571	.541	.518
150	.930	.893	.870	.858	.835	.820	.780	.770	.740	.697	.676	.628	.584	.552	.533
200	.928	.889	.867	.855	.833	.818	.793	.771	.743	.703	.681	.638	.591	.561	.537
400	.924	.882	.861	.850	.828	.814	.791	.772	.747	.713	.695	.654	.607	.576	.550
Rack	—	.869	.850	.839	.820	.808	.789	.767	.755	.728	.714	.684	.642	.606	.582

The *zone factor* (Z) is a factor dependent on the total contact between mating teeth and the radii of curvature of the tooth surfaces.

Internal Gears - The zone factor for internal gears shall be equal to that for the same combination of external teeth multiplied by:-

$$R = \text{Ratio} \quad \left(\frac{R+1}{R-1} \right) 0.8 \text{ Power}$$

The *Strength Factor* (Y) is a factor dependent on the number of teeth in contact, the cantilever strength of an individual tooth, and the distribution of load over the face of the tooth.

Internal Gears - The strength factor for the pinion gearing with an internal gear shall be the same as that for a pinion of the same number of teeth gearing with a rack. The strength factor for the internal gear shall be the same as that of a rack gearing with a pinion having the same number of teeth as the actual pinion, multiplied by:-

$$\left(1 + \frac{3}{T} \right)$$

where T is the number of teeth in the internal gear.

Idler Gears The idler gears in which the teeth make contact on one side with the driving gears and on the other with the driven gears, should be calculated on the

normal basis for wear, but the speed co-efficient used in calculating the load capacity for strength must be half the normal value.

Multiple Contact - If a gear makes contact on the same set of flanks with more than one other gear, the equivalent running time per day is to be taken as the sum of those applying to the separate mating gears.

GEAR LUBRICATION

Given the variety of gear types, service requirements, environmental influences and service temperature ranges, the choice of lubricant is an important factor for the service reliability and service life of the machine concerned. The following are recommended, on the basis of DIN 51 509 (Selection of Lubricants for Gears):-

- 1. At peripheral velocities up to $v = 2$ m/s:**
High-consistency adhesive lubricants are used on large open gears.
- 2. At peripheral velocities up to $v = 4$ m/s:**
Here, splash-lubrication using a soft gear-grease is customary into which the gear wheel dips
- 3. At peripheral velocities up to $v = 15$ m/s:**
Here it is oil splash-lubrication which predominates
- 4. At peripheral velocities above $v = 15$ m/s:**
In this range, oil spray lubrication is required in most cases.



TO FIND:-	PINION	WHEEL
PCD	$d = \frac{n}{DP} \text{ or } n \times \text{mod}$ <p>(ins) (mm)</p> $n = \text{No. of teeth.}$	$D = \frac{N}{DP} \text{ or } N \times \text{mod}$ <p>(ins) (mm)</p> $N = \text{No. of teeth.}$
PITCH ANGLE (for 90° shaft angle)	$Y = \tan^{-1} \frac{n}{N} \text{ (deg)}$	$\Gamma = 90 - Y \text{ (deg)}$
PITCH ANGLE (for shaft angle <90°)	$Y = \tan^{-1} \left[\frac{\sin \Sigma}{\left(\frac{N}{n}\right) + \cos \Sigma} \right]$ <p>$\Sigma = \text{SHAFT ANGLE}$</p>	$\Gamma = \Sigma - Y$
PITCH ANGLE (for shaft angle > 90°)	$Y = \tan^{-1} \left[\frac{\sin (180 - \Sigma)}{\frac{N}{n} - \cos (180 - \Sigma)} \right]$	$\Gamma = \Sigma - Y$
CONE DISTANCE	$A_o = \frac{D}{2 \sin \Gamma}$	See Pinion * see note

* A pitch angle (Σ) greater than 90° indicates an internal gear. Please contact Technical to determine if the gear can be cut.

FORMULAS - WORMS & WHEELS

TO FIND:-	MODULE	IMPERIAL
ØD	$(2 \times \text{MODULE}) + \text{PCDmm}$	$\frac{2 + \text{PCD}''}{DP}$
TANGENT OF THE LEAD ANGLE	$\frac{\text{MODULE} \times \text{No. of STARTS}}{\text{PCD}}$	$\frac{\text{CP}'' \times \text{No. of STARTS}}{\text{PCD} \times \pi}$
CENTRE DISTANCE	$\frac{\text{PCD (Worm)} + \text{PCD (Wheel)}}{2}$ in mm	$\frac{\text{PCD}'' \text{ (Worm)} + \text{PCD}'' \text{ (Wheel)}}{2}$

TO FIND:-	MODULE	IMPERIAL
THROAT Ø	$= (\text{No. of TEETH} + 2) \times \text{MOD (mm)}$	$= \frac{\text{No. of TEETH} + 2}{DP}$ (inches)
TIP Ø	$= (\text{No. of TEETH} + 3) \times \text{MOD (mm)}$	$= \frac{\text{No. of TEETH} + 3}{DP}$ (inches)
P.C.D.	$= \text{No. of TEETH} \times \text{MOD (mm)}$	$= \frac{\text{No. of TEETH}}{DP}$ (inches)
REDUCTION RATIO	$= \frac{\text{No. of TEETH in WHEEL}}{\text{No. of STARTS in WORM}}$	

Our WORMS and WORMWHEELS are made to give 0.08 - 0.15mm backlash at standard centres. Housing centres should be nominal +0.00 +0.05mm.

$$\text{CENTRE DISTANCE} = \frac{\text{PCD (WORM)} + \text{PCD (WHEEL)}}{2}$$



BEVEL GEARS, BSI 545 : 1949

ALLOWABLE TANGENTIAL LOAD AT PITCH RADIUS	
Xc = Speed factor for wear	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>WEAR</p> $\frac{X_c S_c Z F}{K \times 1.33} \times \left(\frac{C - F}{1.1 \times C} \right) \text{ lbs.}$ </div> <div style="border: 1px solid black; padding: 5px;"> <p>STRENGTH</p> $\frac{X_b S_b Y F}{P} \times \left(\frac{C - F}{1.1 \times C} \right) \text{ lbs.}$ </div>
Z = Zone factor (see chart)	
Sc* = Material rating (surface stress)	
Sb* = Material rating (bending stress)	
K = Pitch factor DP ^{0.8} power	
F = Face width (inches)	
Xb = Speed for strength	
Y = Strength factor	
C = Cone distance (inches)	
P = DP	

Based on 12 hour day.

$$\text{Cone Distance } C = \frac{\text{PCD}^{\circ} \text{ of Gear}}{2 \times \sin \text{ Pitch Angle of Gear}}$$

$$\text{Allowable tangential load at PCR} = \frac{\text{Torque lbs ins} \times 2}{\text{PCD}^{\circ}} \text{ lbs}$$

$$\text{Pitch Angle of Gear} = 90^{\circ} - \text{Pitch Angle of Pinion}$$

$$\text{Pitch Angle of Pinion} = \tan^{-1} \frac{\text{No. of Teeth Pinion}}{\text{No. of Teeth Gear}}$$

The lowest of the four values for pinion and wheel gives the gear rating. The normal rating for gears is based on 12 hours/day.

hrs per day Approx.	Total hours life	Wear multiply by	Strength multiply by
0	0	3.0	2.0
0.5	100	2.91	1.89
1	1000	2.38	1.55
3	5000	1.66	1.27
6	10000	1.35	1.14
12	26000	1.0	1.0
24	52000	0.79	0.9

Gear torque =

$$\frac{\text{allowable Tangential Load} \times \text{PCD}^{\circ}}{2}$$

Allowable Tangential Load =

$$\frac{\text{Gear Torque} \times 2}{\text{PCD}}$$

* Please refer to **Material Strength** page for values.



No. of Teeth in Gear	NUMBER OF TEETH IN MATING GEAR												
	15	16	19	20	24	25	26	30	32	45	48	60	72
15	1.800	1.850	2.050	2.100	2.245	2.250	2.255	2.350	2.380	2.450	2.500	2.600	—
16	1.850	1.950	2.235	2.240	2.260	2.265	2.265	2.455	2.500	2.650	2.700	2.740	—
19	2.050	2.235	2.300	2.355	2.600	2.600	2.650	2.750	2.755	3.000	3.000	3.100	3.150
20	2.100	2.240	2.355	2.450	2.730	2.740	2.750	2.770	2.755	3.200	3.300	3.350	3.400
24	2.245	2.260	2.600	2.730	2.850	2.900	2.950	3.200	3.250	3.600	3.650	3.750	3.800
25	2.250	2.265	2.600	2.740	2.900	2.900	3.050	3.250	3.300	3.750	3.750	3.800	3.950
26	2.255	2.265	2.650	2.750	2.950	3.050	3.200	3.400	3.450	3.800	3.850	4.000	4.100
30	2.350	2.455	2.750	2.770	3.200	3.250	3.400	3.650	3.700	4.100	4.200	4.500	4.700
32	2.380	2.500	2.755	2.775	3.250	3.300	3.450	3.700	3.700	4.200	4.300	4.700	4.850
45	2.450	2.650	3.000	3.200	3.600	3.750	3.800	4.100	4.200	5.000	5.200	5.800	5.950
48	2.500	2.700	3.000	3.300	3.650	3.750	3.850	4.200	4.300	5.200	5.400	5.900	6.100
60	2.600	2.740	3.100	3.350	3.750	3.800	4.000	4.500	4.700	5.800	5.900	6.600	7.000
72	—	—	3.150	3.400	3.800	3.950	4.100	4.700	4.850	5.950	6.100	7.000	7.700

STRENGTH FACTORS Y

No. of Teeth in Gear	NUMBER OF TEETH IN MATING GEAR					
	15	20	30	40	60	80
15	.625	.660	.670	.705	.710	—
20	.585	.625	.705	.730	.745	.750
30	.570	.620	.710	.765	.795	.810
40	.580	.625	.715	.770	.825	.840
60	.600	.640	.720	.765	.830	.860
80	—	.650	.720	.760	.790	.855

SPEED FACTORS X_c FOR WEAR

Rpm	X_c	Rpm	X_c	Rpm	X_c	Rpm	X_c
1	1.00	10	.635	200	.375	2000	.230
2	0.88	20	.550	400	.330	4000	.180
4	0.77	40	.485	600	.310	6000	.165
6	0.70	60	.460	800	.285	8000	.140
8	0.67	100	.425	1000	.275	10000	.125

SPEED FACTORS X_b FOR STRENGTH

Rpm	X_c	Rpm	X_c	Rpm	X_c	Rpm	X_c
1	.66	10	.570	200	.375	2000	.230
2	.64	20	.525	400	.330	4000	.180
4	.62	40	.480	600	.310	6000	.165
6	.59	60	.460	800	.285	8000	.140
8	.58	100	.425	1000	.275	10000	.125



LOAD CALCULATIONS

WORMS & WHEELS

BSI 721 : 1937

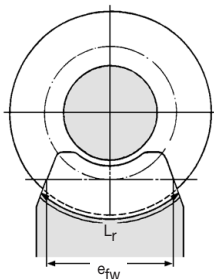
TORQUE CAPACITY (based on 12 hour day)	
Xc	= Speed factor for wear (see chart)
0.18	= Constant value
Sc	= Material rating - surface stress (see tables)
Sb	= Material rating - bending stress (see tables)
efw	= Effective face width of wheel
Xb	= Speed factor for strength
1.8	= Constant value
M	= Addendum in inches
D	= Wheel PCD"
Lr	= Length at root of wheel teeth in inches
Cosα	= Cosine of lead angle of worm

WEAR

$$0.18 S_c X_c e_{fw} D^{1.8} \text{ lbs. Ins.}$$

STRENGTH

$$1.8S_b X_b L_r M D \text{ Cos}\alpha \text{ lbs. ins.}$$



$$\text{Rubbing Speed Feet/Minute} = \frac{\text{Worm pcd}'' \times \pi \times \text{RPM}}{12} \times \text{secant lead angle}$$

$$e_{fw} = 2 \times \sqrt{\text{Addendum}'' \left(\text{Worm O/D}'' - \text{Addendum}'' \right)}$$

$$L_r = 2 \times \theta^\circ \times \frac{\text{Worm O/D}}{2} \times 0.01745$$

$$\text{Cos}\theta = \left(\frac{\text{PCD of Worm}''}{\text{O/D of Worm}''} \right)$$

$$\text{Angle } \theta^\circ = \text{Cos}^{-1} \theta$$

Note : The lowest of the four values for Worm and Wheel gives the gear rating.

	RUNNING TIME (hours per day)											
	Xc and Xb to be divided by factors below for different hrs/day											
	1/6	1/4	1/2	1	2	3	4	6	8	10	18	24
Wear	—	0.38	0.42	0.47	0.55	0.62	0.68	0.78	0.87	0.94	1.15	1.24
Strength	0.50	0.54	0.56	0.59	0.64	0.68	0.72	0.79	0.87	0.94	1.15	1.24



SPEED FACTORS

WORMS & WHEELS

Technical Section

Xc FOR WEAR

RPM of Worm & Wheel	RUBBING SPEED (ft/min)								
	1	4	10	40	100	200	600	1000	2000
2500	.19	.17	.165	.145	.13	.118	.099	.090	.078
2000	.21	.185	.18	.155	.140	.13	.107	.097	.085
1000	.26	.24	.23	.195	.175	.16	.135	.125	.106
800	.27	.25	.24	.21	.19	.175	.15	.135	.115
500	.32	.3	.28	.245	.23	.20	.17	.155	.135
200	.42	.38	.36	.32	.28	.260	.220	.20	.17
100	.48	.46	.43	.37	.34	.31	.26	.23	.20
40	.58	.55	.51	.45	.40	.36	.31	.28	.24
20	.65	.6	.56	.50	.45	.41	.34	.32	.27
10	.71	.7	.61	.54	.48	.44	.37	.34	.29
2	.82	.8	.71	.65	.57	.54	.45	.42	.36

Xb FOR STRENGTH

RPM	Speed Factor	RPM	Speed Factor	RPM	Speed Factor	RPM	Speed Factor
10	0.560	90	0.420	500	0.310	3000	0.200
15	0.540	100	0.415	600	0.300	3500	0.190
20	0.520	150	0.384	700	0.290	4000	0.180
30	0.500	200	0.365	800	0.280	4500	0.175
40	0.480	250	0.350	900	0.270	5000	0.170
50	0.460	300	0.340	1000	0.260	6000	0.160
60	0.450	350	0.335	1500	0.240	7000	0.150
70	0.440	400	0.330	2000	0.225	8000	0.140
80	0.430	450	0.320	2500	0.210	9000	0.135

27.58



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STRESS FACTORS WORMS & WHEELS

Wheel

WHEEL Materials		Bending Stress Factor Sb Pounds per Sq. In.	Find surface stress factor Sc for wheel, under worm material classification letter				
			A	B	C	D	E
A	Phosphor Bronze Sand Cast	7,000	—	600*	600	700	1400*
	Phosphor Bronze Chill Cast	8,500	—	800*	800	900	1600
	Phosphor Bronze Centrifugally Cast	10,000	—	1000*	1000	1100	2000
B	Cast Iron (Gray)	6,000	900*	600*	600	600	750

HPC 'standard' wheels use sand cast PB2

*For 'standard' hardened worms use 1400 Sc value for wheels

Worm

WORM Materials		Bending Stress Factor Sb Pounds per Sq. In.	Find surface stress factor Sc for wheel, under worm material classification letter				
			A	B	C	D	E
C	0.4% Carbon Steel Normalised	20,000	1400	900†	—	—	—
D	0.55% Carbon Steel Normalised	22,000	2000	1100†	—	—	—
E	Low-carbon Casehardening Steel	27,000	6000	4000†	—	—	—
	3.5% Nickel Casehardening Steel	40,000	6500	4000†	—	—	2000†
	5% Nickel Casehardening Steel	47,000	7000	4000†	—	—	2000†
	3.5% Nickel Chromium Casehardening Steel	47,000	7000	4000†	—	—	2000†
	High Nickel-chrom Casehardening Steel	47,000	8000	4000†	—	—	2000†

NOTE: Section E - hardened, ground and polished.

HPC Standard Worms Unhardened - Sc = 1400 Sb = 17,000

Hardened - Sc = 6000 Sb = 27,000

* Maximum permissible rubbing speeds, 500 feet per minute.

† Should not be used except for hand operated gearing.



WORMS & WHEELS

Excluding bearing and oil churning losses. Values are based on PB2 Wheels and case hardened and ground and polished worms lubricated by mineral oil. The efficiency may be improved after the "running in" period. *NOTE: As HPC standard worms are not hardened ground and polished lower efficiency values can be expected.*

$$\text{Efficiency (\%)} = \left[\frac{\text{TAN } \phi^\circ}{\text{TAN } (\theta^\circ + \phi^\circ)} \right] \times 100$$

$$\theta^\circ = \text{TAN}^{-1} f$$

ϕ° = Lead Angle

f = Coefficient of friction

$$\text{INPUT TORQUE} = \frac{\text{Output Torque}}{\text{Ratio}} \times \frac{100}{\text{Efficiency}}$$

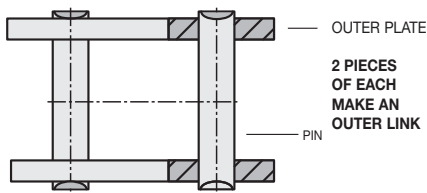
$$\text{OUTPUT TORQUE} = \frac{\text{Input Torque} \times \text{Ratio} \times \text{Efficiency}}{100}$$

Coefficients of Friction for Worm Gearing

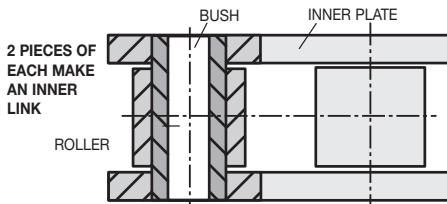
Rubbing Speed Ft. per min.	Coeffi- cients of Friction	Rubbing Speed Ft. per min.	Coeffi- cients of Friction	Rubbing Speed Ft. per min.	Coeffi- cients of Friction	Rubbing Speed Ft. per min.	Coeffi- cients of Friction
30	0.073	180	0.045	550	0.028	1600	0.0175
40	0.070	190	0.044	600	0.027	1700	0.0170
50	0.066	200	0.043	650	0.026	1800	0.0165
60	0.062	225	0.041	700	0.026	1900	0.0165
70	0.060	250	0.040	750	0.025	2000	0.0160
80	0.058	275	0.038	800	0.024	2100	0.0160
90	0.056	300	0.036	850	0.023	2200	0.0155
100	0.054	325	0.035	900	0.023	2300	0.0150
110	0.052	350	0.034	950	0.022	2400	0.0150
120	0.051	375	0.033	1000	0.022	2500	0.0150
130	0.050	400	0.033	1100	0.021	2600	0.0145
140	0.049	425	0.032	1200	0.020	2700	0.0145
150	0.048	450	0.031	1300	0.019	2800	0.0140
160	0.047	475	0.030	1400	0.019	2900	0.0140
170	0.046	500	0.030	1500	0.018	3000	0.0140



OUTER PLATE



INNER PLATE



CHAIN STANDARDS	
AMERICAN	ANSI B29.1 : ISO 606 A SERIES
BRITISH	BS 228 : DIN 8187 : ISO 606

BREAKING STRENGTHS

PART NUMBER	PITCH	N	Weight Kg/m
Steel			
SUA-4	4.00	1800	0.07
SUA-6	6.00	3000	0.12
SUA-250	6.35	4000	0.13
SBR-8	8.00	5000	0.18
SUA-375	9.53	10000	0.33
SBR-375	9.53	11100	0.39
SUA-500	12.70	16900	0.63
SBR-500	12.70	19000	0.70
SUA-541	12.70	10600	0.42
SBR-625	15.89	23000	0.92
SUA-750	19.05	30500	1.20
SBR-1000	25.40	67000	2.80
SBR-1250	31.75	98070	3.85

Lubrication (Dependent on power and speed)

- TYPE 1 : MANUAL
- TYPE 2 : DRIP FEED
- TYPE 3 : OIL BATH
- TYPE 4 : OIL STREAM

See Chart on page 27.65.

RECOMMENDED LUBRICANTS AMBIENT TEMPERATURE			
°C	°F (Approx.)	LUBRICANT VISCOSITY RATING	
		SAE	BS4231
-5 to 5	20 to 40	20	46 - 68
5 to 40	40 to 100	30	100
40 to 50	100 to 120	40	150 - 220
50 to 60	120 to 140	50	320

Stainless Steel

SBS-6	6.00	2000	0.12
SBS-8	8.00	4000	0.18
SUS-375	9.53	7560	0.33
SBS-375	9.53	7000	0.41
SUS-500	12.70	10690	0.63
SBS-500	12.70	11770	0.68
SBS-625	15.875	14700	0.92



STEP ①

SELECT DRIVE RATIO AND SPROCKETS

Chart 1 may be used to choose a ratio based on the standard sprocket sizes available. It is best to use an odd number of teeth combined with an even number of chain pitches.

Ideally, chain sprockets with a minimum of 19 teeth should be chosen. If the chain drive operates at high speed or is subjected to impulsive loads, the smaller sprockets should have at least 25 teeth and should be hardened.

It is recommended that chain sprockets should have a maximum of 114 teeth.

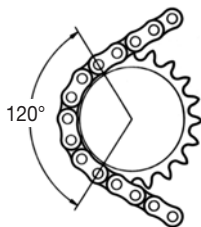
Drive ratio can otherwise be calculated using the formula:-

$$i = \frac{Z_2}{Z_1}$$

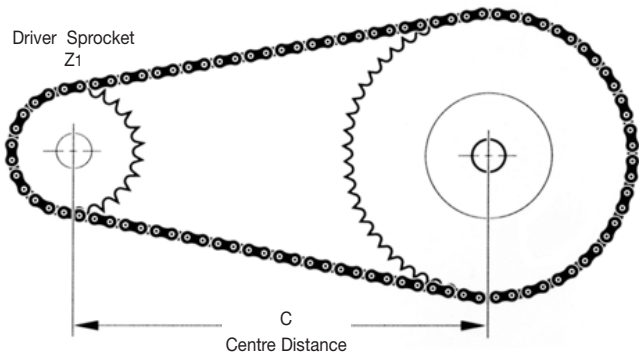
For large ratio drives, check that the angle of lap on Z1 is not less than 120°.

Chart 1

NO. OF TEETH DRIVEN SPROCKET Z ₂	NO. OF TEETH DRIVE SPROCKET Z ₁					
	15	17	19	21	23	25
25	-	-	-	-	-	1.00
38	2.53	2.23	2.0	1.80	1.65	1.52
57	3.80	3.35	3.0	2.71	2.48	2.28
76	5.07	4.47	4.0	3.62	3.30	3.04
95	6.33	5.59	5.0	4.52	4.13	3.80
114	7.60	6.71	6.0	5.43	4.96	4.56



Driven Sprocket
Z₂



STEP ②

APPLICATION FACTOR f_1

Factor f_1 takes account of any dynamic overloads depending on the chain operating conditions., The value of factor f_1 can be chosen directly or by analogy using Chart 2.

TOOTH FACTOR f_2

The use of a tooth factor further modifies the final power selection. The choice of a smaller diameter sprocket will reduce the maximum power capable of being transmitted since the load in the chain will be higher.

$$f_2 = \frac{19}{Z_1}$$

Note that this formula arises due to the fact that selection rating curves shown in the BS/ANSI rating charts are those for a 19 tooth sprocket.

f_2 factors for standard sprocket sizes.

Z_1	f_2
15	1.27
17	1.12
19	1.00
21	0.91
23	0.83
25	0.76

Chart 2

DRIVEN MACHINE CHARACTERISTICS	CHARACTERISTICS OF DRIVER		
	SMOOTH RUNNING electric motors, Steam and gas turbines, internal combustion, engines with hydraulic coupling	SLIGHT SHOCKS internal combustion engines with 6 cyls or more with mechanical coupling, electric motors with frequent starts	MODERATE SHOCKS internal combustion engines with less than 6 cyls, with mechanical coupling
SMOOTH RUNNING centrifugal pumps and compressors, printing machines, paper calendars, uniformly loaded conveyors, escalators, liquid agitators and mixers, rotary driers, fans	1	1.1	1.3
MODERATE SHOCKS pumps and compressors (3+ cyls), concrete mixing machines, non uniformly loaded conveyors, solid agitators and mixers.	1.4	1.5	1.7
HEAVY SHOCKS planers, excavators, roll and ball mills, rubber processing machines, presses and shears, 1 & 2 cyl pumps and compressors, oil drilling rigs	1.8	1.9	2.1



STEP ③

CALCULATE THE SELECTION POWER

Multiply the power to be transmitted by the factors obtained from STEP TWO.

Selection POWER = POWER to be transmitted x f1 x f2 (kw). This selection power can be used with the appropriate rating chart on page 27.65.

STEP ④

SELECT CHAIN DRIVE

From the rating chart, select the smallest pitch of sample chain to transmit the SELECTION POWER at the speed of the driving sprocket Z₁.

This normally results in the most economical drive selection. If the SELECTION POWER is now greater than that shown for the simple chain, then consider a multiplex chain of the same pitch size as detailed in the rating charts.

STEP ⑤

To find the chain length pitches (L) for any contemplated centre distance of a two point drive, use the formula below:-

$$\text{Length (L)} = \frac{Z_1 + Z_2}{2} + \frac{2C}{P} + \frac{\left(\frac{Z_2 - Z_1}{2\pi}\right)^2 \times P}{C}$$

The calculated number of pitches should be rounded up to a whole number of even pitches. Odd numbers of pitches should be avoided because this would involve the use of a cranked link which is not recommended. If a jockey socket is used for adjustment purposes, two pitches should be added to the chain length (L).

C is the contemplated centre distance in mm and should generally be between 30 - 50 pitches.

STEP ⑥

CALCULATE EXACT CENTRE DISTANCE

The actual centre distance for the chain length (L) calculated by the method above, will in general be greater than that originally contemplated. The revised centre distance can be calculated from the formula below.

$$C = \frac{P}{8} \left[2L - Z_2 - Z_1 + \sqrt{(2L - Z_2 - Z_1)^2 - \left(\frac{\pi}{3.88}\right) (Z_2 - Z_1)^2} \right]$$

P = Chain pitch (mm)

L = Chain length (pitches)

Z₁ = Number of teeth in driver sprocket

Z₂ = Number of teeth in driven sprocket



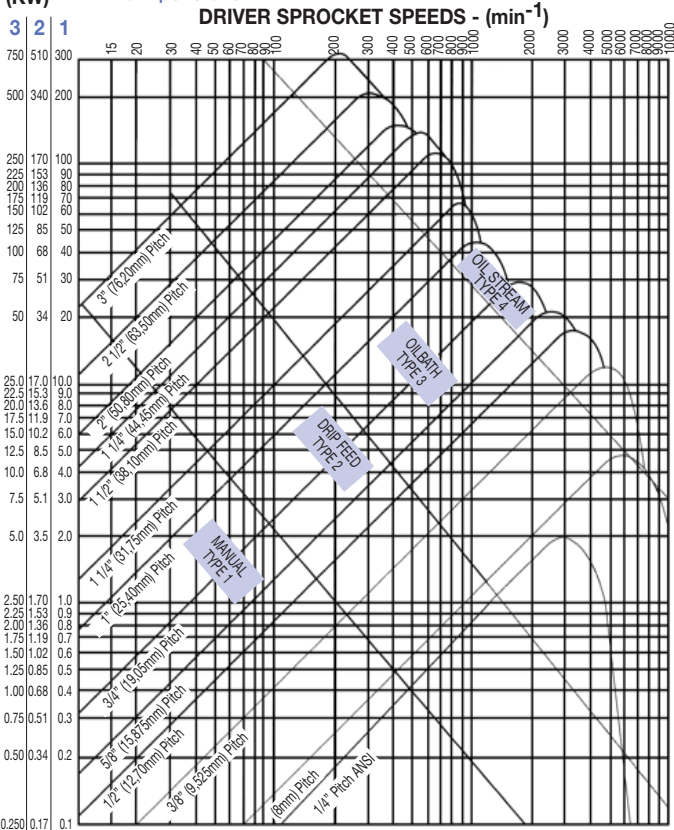
RATING GRAPH - 19T DRIVER SPROCKET AND LUBRICATION METHODS

For driver sprocket speeds less than 10rpm, multiply transmitted power by $\frac{10}{n}$ and read from 10rpm column.

Where n = driver sprocket speed.

SELECTION POWER (KW)

1. Simplex Chains
2. Duplex Chains
3. Triplex Chains



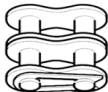
CHAIN CONNECTING LINKS

SIMPLEX, DUPLEX & TRIPLEX

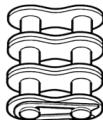
Technical Section



Simplex



Duplex



Triplex

These links should not be used where high speed or arduous conditions apply, in these cases, where safety is essential, a riveting link (interference fit) must be used.

NOTE: Some dimensions on Pin Length may differ slightly.

PART NUMBER	Chain No.	Pitch (mm)	Pin Ø (mm)	Pin Length (mm)	Con Link Extra (mm)
Stainless Steel					
SBS-6/L	04-SS	6	1.85	7.4	2.9
SBS-8/L	08B-SS	8	2.31	9.0	-
SUS-375/L	35-SS	9.525	3.59	15.15	3.3
SBS-375/L	06B-SS	9.525	3.28	14.0	-
SUS-500/L	40-SS	12.70	3.98	17.8	3.9
SBS-500/L	08B-SS	12.70	4.45	17.5	3.9
SBS-625/L	10B-SS	15.875	5.08	20.0	4.1
Simplex					
SUA-4/L	1141	4	1.65	6.8	1.2
SUA-6/L	04	6	1.85	7.4	2.9
SUA-250/L	25	6.35	2.30	8.6	0.8
SBR-8/L	05B-1	8	2.31	8.6	3.1
SUA-375/L	35	9.525	3.59	15.5	3.3
SBR-375/L	06B-1	9.525	3.28	13.5	3.3
SUA-500/L	40	12.7	3.98	17.8	3.9
SBR-500/L	08B-1	12.7	4.45	17.0	3.9
SUA-541/L	41	12.7	3.59	14.5	2.0
SBR-625/L	10B-1	15.875	5.08	18.8	4.1
SUA-750/L	12B-1	19.05	5.72	22.7	4.6
SBR-1000/L	16B-1	25.40	8.28	36.1	5.4
SBR-1250/L	20B-1	31.75	10.19	43.2	6.1
Duplex					
XSBR-8/L	05B-2	8.00	2.31	14.3	3.1
XSBR-375/L	06B-2	9.52	3.28	23.8	3.3
XSBR-500/L	08B-2	12.70	4.45	31.0	3.9
XSBR-625/L	10B-2	15.875	5.08	35.4	4.1
XSUA-750/L	12B-2	19.05	5.72	42.2	4.6
Triplex					
XXSBR-375/L	06B-3	9.52	3.28	34.0	3.3
XXSBR-500/L	08B-3	12.70	4.45	44.9	3.9
XXSBR-625/L	10B-3	15.875	5.08	52.8	4.1
XXSUA-750/L	12B-3	19.05	5.72	61.7	4.6



HOSTAFORM C 9021 K ACETAL COPOLYMER WITH SPECIAL CHALK

Physical Properties	Metric
Density	1.44 g/cc
Water Absorption	0.2%
Water Absorption at Saturation	0.65%
Melt Flow	10.8 g/10 min
Mechanical Properties	
Ball indentation Hardness	145 MPa
Tensile Strength, Yield	60 MPa
Elongation at Break	22%
Elongation at Yield	8%
Tensile Modulus	3 GPa
Flexural Modulus	2.9 GPa
Charpy Impact Unnotched	10 J/cm ²
Charpy Impact Notched, Low Temp	0.5 J/cm ²
Charpy Impact Unnotched, Low Temp	10 J/cm ²
Charpy Impact, Notched	0.6 J/cm ²
Tensile Creep Modulus, 1 hour	2500 MPa
Tensile Creep Modulus, 1000 hour	1400 MPa
Electrical Properties	
Dielectric Constant	4.2
Dielectric Constant, Low Frequency	4.2
Dielectric Strength	38 kV/mm
Dissipation Factor	0.006
Dissipation Factor, Low Frequency	0.0025
Thermal Properties	
CTE, Linear 20 C	110 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$
Melting Point	166 $^{\circ}\text{C}$
Deflection Temperature at 1.8 MPa (264 psi)	100 $^{\circ}\text{C}$
Vicat Softening Point	150 $^{\circ}\text{C}$



TERMS & CONDITIONS OF SALE

1. DEFINITIONS

- 1.1 'Buyer' means the person who buys or agrees to buy the goods from the Seller.
- 1.2 'Conditions' means the terms and conditions of sale set out in this document and any special terms and conditions agreed in writing by the Seller.
- 1.3 'Delivery Date' means the date specified by the Seller when the goods are to be delivered.
- 1.4 'Goods' means the articles which the Buyer agrees to buy from the Seller..
- 1.5 'Price' means the price for the Goods excluding carriage, packing, insurance and V.A.T.
- 1.6 'Seller' means HPC Gears Ltd

2. CONDITIONS

- 2.1 These conditions shall apply to all contracts for the sale of Goods by the Seller to the Buyer to the exclusion of all other terms and conditions which the Buyer may purport to apply under any purchase order confirmation of order or similar document.
- 2.2 All orders for Goods shall be deemed to be an offer by the Buyer to purchase Goods pursuant to these Conditions.
- 2.3 Acceptance of delivery of the Goods shall be deemed conclusive evidence of the Buyer's acceptance of these Conditions.
- 2.4 Any variation to these Conditions (including any special terms and conditions agreed between the parties) shall be inapplicable unless agreed in writing by the Seller.

3. PRICE AND PAYMENT

- 3.1 The Price shall be the Sellers quoted price. The Price is exclusive of V.A.T. which shall be due at the rate ruling on the date of the Sellers invoice.
- 3.2 Payment of the Price and V.A.T. shall be due on the last working day of the month following the end of the month in which the Goods are delivered. Time for payment shall be of the essence.
- 3.3 We understand and will exercise our statutory right to claim interest and compensation for debt recovery costs under current late payment legislation if we are not paid according to agreed credit terms.
- 3.4 If the Buyer fails to make any payment on the due date then without prejudice to any of the Sellers other rights the Seller may:
 - 3.4.1 Suspend or cancel deliveries of any articles due to the Buyer; and/or appropriate any payment made by the Buyer to such of the Goods (or Goods supplied under any other contract with the Buyer) as the Seller may in its sole discretion think fit.
 - 3.4.2 Prices are the Seller's ex works prices and where the Seller agrees to arrange for the Goods to be sent to the Buyer the Buyer shall be responsible for the costs of loading carriage and unloading.
- 3.6 We may make a search with a credit reference agency, which we will keep a record of, and may share that information with other businesses. We may also make enquiries about the principal directors with a reference agency.

4. GOODS

- 4.1 The Goods shall be manufactured and supplied in accordance with the description contained in the Sellers specification or in accordance with the specification provided by the Buyer in the form of drawings and/or patterns and in every case shall be manufactured in accordance with all applicable British Standards which relate specifically to the Goods. The quantity and description of the Goods shall be as set out in the Sellers quotation.
- 4.2 The Seller may from time to time make changes in the specification of the Goods which are required to comply with any applicable safety or statutory requirements or which do not materially affect the quality or fitness for purpose of the Goods.
- 4.3 The specifications and designs of the Goods (including the copyright, design right or other intellectual property in them) shall as between the parties be the property of the Seller. Where any designs or specifications have been supplied by the Buyer for manufacture by or to the order of the Seller then the Buyer warrants that the use of those designs or specifications for the manufacture, processing, assembly or supply of the Goods shall not infringe the rights of any third party.
- 4.4 Where the Goods have been manufactured to the specification provided by the Buyer the Seller shall bear no responsibility for any defect in the design or dimension of such specification.



5. **DEFECTIVE PARTS AND MISDESCRIPTION**

- 5.1 Whilst we work to high standards, should you wish to complain about our products, we shall gladly rework or replace without cost to the buyer, if such complaints are made within thirty days of receipt of parts. We take no responsibility for costs due to the problems with these parts.

6. **WARRANTIES AND LIABILITY**

- 6.1 The Seller warrants that the Goods will at the time of delivery correspond to the description given by the Seller. All other warranties, conditions or terms relating to fitness for purpose, merchantable quality or condition of the Goods and whether implied by statute or common law or otherwise are excluded.

7. **DELIVERY OF GOODS**

- 7.1 Delivery of the Goods shall be made to the Buyer's address on the Delivery Date. The Buyer shall make all arrangements necessary to take delivery of the Goods whenever they are tendered for delivery.
- 7.2 The Seller shall not be liable for any loss or damage whatever due to failure by the Seller to deliver the Goods (or any of them) promptly or at all.
- 7.3 Notwithstanding that the Seller may have delayed or failed to deliver the Goods (or any of them) promptly the Buyer shall be bound to accept delivery and to pay for the Goods in full provided that delivery shall be tendered at any time within 3 months of the Delivery Date.

8. **ACCEPTANCE OF GOODS**

- 8.1 The Buyer shall be deemed to have accepted Goods 24 hours after delivery to the Buyer.
- 8.2 After acceptance the Buyer shall not be entitled to reject Goods which are not in accordance with the contract.

9. **TITLE AND RISK**

- 9.1 The Goods shall be at the Buyer's risk as from delivery.
- 9.2 In spite of delivery having been made, property the Goods shall not pass from the Seller until:-
- 9.2.1 the Buyer shall have paid the Price plus V.A.T. in full, and
- 9.2.2 no other sums whatever shall be due from the Buyer to the Seller.
- 9.3 Until property in the Goods passes to the Buyer in accordance with clause 8.2 the Buyer shall hold the Goods and each of them on a fiduciary basis as bailee for the Seller. The Buyer shall store the Goods (at no cost to the Seller) separately from all other goods in its possession and marked in such a way that they are clearly identified as the Sellers property.
- 9.4 Notwithstanding that the Goods (or any part of them) remain the property of the Seller, the Buyer may sell or use the Goods in the ordinary course of the Buyer's business at full market value for the account of the Seller. Any such sale or dealing shall be a sale or use of the Sellers property by the Buyer on the Buyer's own behalf and the Buyer shall deal as principal when making such sales or dealings. Until property in the Goods passes from the Seller, the entire proceeds of sale or otherwise of the Goods shall be held in trust for the Seller and shall not be mixed with other money or paid into any overdrawn bank account and shall be at all material times identified as the Sellers money.
- 9.5 The Seller shall be entitled to recover the Price (plus V.A.T.) notwithstanding that property in any of the Goods has not passed from the Seller.
- 9.6 Until such time as property in the Goods passes from the Seller, the Buyer shall, upon request, deliver up such of the Goods as have not ceased to be in existence or resold to the Seller. If the Buyer fails to do so the Seller may enter upon any premises owned, occupied or controlled by the Buyer where the Goods are situated and repossess the Goods. On the making of such request the rights of the Buyer under clause 8.4 shall cease.

10. **REMEDIES OF BUYER**

- 10.1 Where the Buyer rejects any goods, then the Buyer shall have no further rights in respect of the supply to the Buyer of such Goods or the failure by the Seller to supply Goods which conform to the contract of sale.
- 10.2 Where the Buyer accepts or has been deemed to have accepted any Goods then the Seller shall have no liability whatsoever to the Buyer in respect of those Goods.
- 10.3 The Seller shall not be liable to the Buyer for late delivery or short delivery of the Goods.
- 10.4 The Seller shall be under no liability whatsoever to the Buyer for any indirect loss and/or expense (including loss of profit) suffered by the Buyer arising out of a breach by the Seller of this contract.
- 10.5 In the event of any breach of this contract by the Seller the remedies of the Buyer shall be limited to damages. Under no circumstances shall the liability of the Seller exceed the Price of the Goods.

11. **YOUR RIGHT OF CANCELLATION IF YOU ARE A CONSUMER**

Our returns policy: We operate a 7 day ,money back guarantee, which means that if for any reason you are not satisfied with your purchase, after contacting our sales department within 7 days from date of invoice, we will issue a refund (excluding the delivery costs), providing the goods have not been used. If goods are purchased on express / premium service, only the standard catalogue price will be refunded. Please note all refunds are subject to a re-stocking fee of 25% of the purchase price. All items being returned must be returned in the original packaging and returned in a condition deemed suitable by us for resale. Please note that we cannot refund any cost for postage that you may have paid to return the goods. We individually check all returns and if we consider the fault to be as a result of self-damage, the refund will not be given. In addition to this refund policy, under the Kist distance selling regulations, you have the right to cancel the purchase contract within 7 days of placing your order (beginning the day after receipt of the goods), minus any delivery costs incurred. We regret that this does not apply to specially manufactured items made to the customers own drawing /samples or modified products. This only applies to standard catalogue items. For your own protection, when returning any goods, we suggest that you use a recorded delivery service, requiring our signature upon receipt of the goods, as we will not issue refunds for any goods that fail to reach us. Your statutory rights are not affected. All returns to be made to the address below, enclosing original invoice: FAO returns - HPC Gears Ltd. Returns, Unit 14, Foxwood Industrial Park, Foxwood Road, Chesterfield, Derbyshire, S41 9RN, England.

12. **PROPER LAW OF CONTRACT**

This contract shall be governed by and construed in accordance with English Law and all parties shall submit to the exclusive jurisdiction of the Courts of England and Wales.



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.....	.Splined Flanged, Phosphor Bronze, With Holes	2.32
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Gears - Pinion - Circular Pitch	(CG, CP) 20.2
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Gears - Pinion Shaft - Circular Pitch (STC, DSTC)	20.14
Gears - Pinion Shafts - Helical	(TH, DTH) 20.18
Gears - Plastic Moulded Spur	(PLG) 23.160
Gears - Plastic Spur	(ZG, ZPG) 23.8
Gears - Rack	(CR, R, SR, TR, ZR) 22.3
Gears - Spur	(G, PG) 23.2
Gears - Worm	(W, WH, SW, SWH) 15.2
Gears - Worm (Plastic)	(ZW, ZSW) 15.4
Gears - Worm Wheel	(M, PM) 15.2
Gears - Worm Wheel (Plastic)	(ZM, ZPM) 15.4
Guide Rails	(TDC) 12.137

H Hard & Ground

Spur Racks, Helical Cut	9.4
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Spur Racks, Straight Cut	9.2
Helical Pinions, Helical Cut	9.7
Helical Pinions, Straight Cut	9.6
Helical Crossed (Plastic)	(ZH, ZPH)	25.6
Helical Gears - Parallel Axis	(SH, PSH)	24.2
Helicals - Crossed Axis	(H, PH)	25.2
Helicals - Parallel (Plastic)	(ZSH, ZPSH)	24.6
High Torque Drive Pulleys	(HTD, PHTD)	12.64
Housed Bearing Assembly	Round, Double-Flat, Square	4.68
Housing Flange Units	Take up Units, Cast Iron Housing	4.56
	Take up Units, Thermoplastic Polyester	4.46
Hub Clamps		3.106
Hyloid Bevel Gears	(MHP)	14.4
I Inserts	Self-tapping	5.30
Instrument Pulley	0.08" Pitch (W, AW)	12.48
Internal Gear	(GPA, GPS)	17.2
Internal Gear	(IN)	17.4
Internal Gear (Plastic)	(ZIN)	17.4
K Keys	Parallel (Round End)	5.31
	Key Steel	5.40
	Woodruff	5.39
L Ladder Chain	(PSC)	13.3
Ladder Sprockets	(PSA)	13.2
Leadscrews	Imperial Acme Thread	2.8
	Trapezoidal Rolled Finish, Steel	2.2
	Trapezoidal, Steel (2 start)	2.6
Linear Shafting	Stainless Hardened & Ground	2.34
	Steel Hardened & Ground	2.35
Lubricants	Grease, Metal/Metal, Metal/Plastic	7.2
M Mechanical	Circlips	6.2
	Compression Springs, Music Wire	6.20
	Compression Springs, Stainless Steel	6.6
	Extension Springs, Music Wire	6.35
	Extension Springs, Stainless Steel	6.28
	Rotary Dampers	6.41
Miniature Bevel Gearboxes	(HPCGBP)	1.88
MODIFICATIONS		7
Motors DC		8.1
Motors Selection		8.12
N Nuts	Flanged, Bronze, Without Holes	2.21, 2.23, 2.27
	Flanged, Cast Iron, Without Holes	2.20, 2.26
	Flanged, Bronze, With Holes	2.22



	.Flanged, 2 Start Bronze, With Holes	2.24
	.Hexagonal, Steel, Precision Range	2.28
	.Round, Bronze, Precision Range	2.14
	.Round, 2 Start Bronze, Precision Range	2.15
	.Round, Cast Iron, Precision Range	2.13
	.Round, Nylon, Precision Range	2.12
	.Round, Steel, Precision Range	2.10
	.Square, Bronze, Imperial, Precision Range	2.19
	.Square, Cast Iron, Imperial, Precision Range	2.18
O	ORDER FORM	30.2
P	Pawls & Ratchets (SRT)	10.1
	PAYMENT	4
	Pillow Blocks .Cast iron Housing	4.52
	.Thermoplastic Polyester	4.44
	Pins .Extractable Dowel	5.2
	.Extractable Dowel With Air Release Flat	5.7
	.Dowel, Hardened & Ground Steel	5.4
	.Slotted Spring	5.16
	.Taper	5.10
	Pinions .Hardened & Ground, Helical Cut	9.7
	.Hardened & Ground, Straight Cut	9.6
	Pinion Gears - Circular Pitch (DSTH, STH, CG, CP)	20.2
	Pinion Shaft - Helical (TH, DTH)	20.18
	Pinion Shaft Gears (T, DT, ST, DST)	20.6
	Pinion Shaft Gears (SP, DSP, XP)	20.10
	Pinion Shaft Gears - Circular Pitch (STC, DSTC)	20.14
	PRICES/CHARGES	5
	Pulleys - Timing (T, PT)	12.2
	Pulleys - Timing 0.2" Pitch (XL, AXL)	12.52
	Pulleys - Timing 1/2" Pitch (H, AH)	12.60
	Pulleys - Timing 3/8" Pitch (LO, ALO)	12.57
	Pulleys - Timing Heavy Duty 3mm, 5mm, 8mm, 14mm Pitch (HTD)	12.64
	Pulleys - Timing Instrument 0.08" Pitch (W, AW)	12.48
	Pulleys - Timing Reduced Backlash (ABT, ABPT)	12.72
	Pulleys - Timing Round (RBP)	12.119
R	Racks .Hardened & Ground, Helical Cut	9.4
	.Hardened & Ground, Straight Cut	9.2
	Racks Budget (ER)	21.4
	Rack Fixings (ARL, SRS)	22.0
	Flexible Racks (DR)	22.0
	Helical Racks (HR, SHR)	22.9
	Moulded Racks (Plastic) (ZRM)	22.11
	Plastic Racks (ZR, ZRC, ZRR)	22.5
	Round Racks (TR, TRC)	22.6

Round Plastic Racks	(ZTR)	22.7
Round Helical Racks	(HTR, HTRC)	22.8
Racks Spur	(CR, R, RC, RR, SR, SRC)	22.3
Ratchets & Pawls	(SRT)	10.2
Reduced Backlash Timing Pulleys	(ABT, ABPT)	12.72
Roller Sets	(RE)	12.145
Rotary Dampers		6.41
Rotary Shaft Seals		4.41
S Seals	Oil	4.41
Shafts & Bearings	.2 Bolt Flange, Thermoplastic Polyester	4.48
	.4 Bolt Flange, Thermoplastic Polyester	4.50
	.Cam Followers Sealed	4.2
	.Oilite® Bushes, Imperial Flanged	4.20
	.Oilite® Bushes, Imperial Plain	4.8
	.Oilite® Bushes, Metric Flanged	4.22
	.Oilite® Bushes, Metric Plain	4.14
	.Oilite® Bushes, Metric Plates	4.26
	.Oilite® Bushes, Solid Bars	4.25
	.Oilite® Technical Information	4.27
	.Oval Flange Units, Cast Iron Housing	4.62
	.Pillow Blocks, Cast Iron Housing	4.52
	.Pillow Blocks, Thermoplastic Polyester	4.44
	.Radial Ball Bearings, Single Row	4.42
	.Rotary Shaft Seals	4.41
	.Single Housed Bearing Assembly	4.68
	.Square Flange Units, Cast Iron Housing	4.64
	.Take-up Units, Cast Iron Housing	4.56
	.Take-up Units, Thermoplastic Polyester	4.46
S SPECIALS (CUSTOM MADE PRODUCTS)		5
Spiral Bevel Gearboxes	(HPCGBK, HPCGBC)	1.90
Splined	.Sleeves,	2.29
Splined	.Shafts, Steel,	2.36
Splined	.Sleeves Flanged, Phosphor Bronze, Without Holes	2.30
Splined	.Sleeves Flanged, Phosphor Bronze, With Holes	2.32
Splined	.Sleeves Flanged, Steel, Without Holes	2.31
Splined	.Sleeves Flanged, Steel, With Holes	2.33
Spring Plungers	.Black-Oxide Steel	6.47
Springs	.Compression, Music Wire	6.20
	.Compression Springs, Stainless Steel	6.6
	.Extension Springs, Musical Wire	6.35
	.Extension Springs, Stainless Steel	6.28
Sprockets	(S, AS, SF, ASF)	13.4
Sprockets Duplex		13.33
Sprockets Duplex Plastic		13.35
Sprockets (Plastic)	(ZS, ZAS)	13.6



Sprockets Ladder	(PSA)	13.2
Sprockets Triplex		13.42
Sprockets Triplex Plastic		13.43
Sprocket Wheel Set	(KS)	13.0
Spur Gears Steel	(G, PG)	23.2
Spur Gears Heavy Duty	(YG, XG)	23.22
Spur Gears Plastic	(ZG, ZPG)	23.8
Spur Gears Moulded	(PLG)	23.160
T TECHNICAL		27
TECHNICAL ENQUIRY FORM		30.1
Timing Belts	0.08" Pitch (MP)	12.93
Timing Belts	0.08" Pitch (MXL)	12.107
Timing Belts	0.2" Pitch (XL)	12.94
Timing Belts	3/8" Pitch (L)	12.96
Timing Belts	2.5, 5, 10 & 20mm Pitch (T, BT)	12.88
Timing Belts Heavy Duty	(HTD)	12.110
Timing Belts Reduced Backlash	(AT)	12.116
Timing Pulleys	2.5, 5 & 10mm Pitch (T, PT)	12.2
Timing Pulleys	0.08" Pitch (W, AW)	12.48
Timing Pulleys	0.2" Pitch (XL, AXL)	12.52
Timing Pulleys	1/2" Pitch (H, AH)	12.60
Timing Pulleys	3/8" Pitch (LO, ALO)	12.57
Timing Pulley Flanges	XL, L, H, T2.5 (X, WX)	12.86
Timing Pulleys Heavy Duty	(HTD)	12.64
Timing Pulleys Reduced Backlash	(ABT, ABPT)	12.72
Toothed Bar Stock	(AAG, ABG, ADG, AKG, ASG, ATG)	11.1
U Universal Joints	Brass Cross Pieces & Tubes	3.100
	Double, Acetal Body	3.94
	Double, Steel & Stainless Steel	3.87
	Single, Acetal Body	3.88
	Single, Steel & Stainless Steel	3.86
	Rubber Covers	3.85
Universal Tensioners	(TE)	12.144
V V Pulleys	(SPA)	12.127
V Pulley Bushes	(1008-2017/X)	12.129
W Worms Budget	(EW)	21.5
Worm Gears	(W, SW, WH, SWH)	15.2
Worm Gears (Plastic)	(ZW, ZSW)	15.4
Worm Wheels - Budget	(EM)	21.5
Worm Wheels - Gears	(M, PM)	15.2
Worm Wheels - Antibacklash	(ABM)	16
Worm Wheel Gear - Plastic	(ZM, ZPM)	15.4

1008-2017/ X	V-Pulley Bushes	12.129
10503001-12003001	Chain Tensioner	13.31
141	Round Racks	22.10
151	Mitre Bevel Gears	14.16
214	Material Stock - EN202 Bright Steel	26.5
817	Material Stock	26.5
A		
A-AW	Timing Pulley	12.48-12.56
AAG	Tooth Bar Stock Aluminium	11.2-11.3
AB	Anti Backlash Gear	19
ABM	Anti-backlash Worm Wheel	16
ABPT	Reduced Backlash Timing Pulleys (Plain)	12.72
ABS	Anti Backlash Worm wheel	19.2-19.11
ABT	Reduced Backlash Timing Pulleys (Bossed)	12.72
ACE	Material Stock - Acetal Co-Polymer	26.3
ADG	Tooth Bar Stock (Derlin)	11.2-11.3
A-H	Timing Pulleys (Plain)	12.60
AKG	Tooth Bar Stock (Stainless)	11.2-11.3
A-LO	Timing Pulleys (Plain)	12.57
ALBR	Material Stock - Aluminium Bronze	26.6
ALU	Material Stock - Aluminium 2011T3	26.4
ARL	Rack Fixings	22.0
AS	Chain Sprockets (Plain)	13
ASF	Steel Sprockets - (Plain)	13.4-13.9
ASG	Toothed Bar Stock Steel	11.2-11.3
ADG, ATG, AAG, ABG	Toothed Bar Stock	11.3
AT	Reduced Backlash Timing Belts	12.116
A-XL	Timing Pulleys	12.52
B		
B	Bevels	14.6
BRO	Material Stock - Leaded Bronze SAE660	26.6
BT	Timing Belts	12.100
C		
CCR	Racks	22.3
CG	Pinion Gears - Circular Pitch (Bossed)	20.2
CHA	Chain Breakers	13.29
COP	Material Stock (Copper)	26.2
CP	Pinion Gears - Circular Pitch (Plain)	20.2
CR	Racks - Spur	22.3
CZB	Material Stock - Brass (CZ121)	26.4
D		
DB	Bevels 2:1 Ratio	14.10
DG	Double Gears	18
DR	Flexible Racks	22.0
DSP	Pinion - Double Sided Stainless	20.10-20.13



DST	Pinion - Double Sided Stainless	20.6-20.9
DSTC	Pinion Shaft Gears - Circular Pitch	20.14
DSTH	Pinion Shaft - Helical	20.16
DT, DST	Pinion Shaft Gears	20.6
DTH	Pinion Shaft - Helical	20.18
E		
EM	Budget Wheels 1 mod	21.5
ER	Spur Racks Steel 1, 1.5 & 2 mod	21.4
ESG	Spur Gears Steel 1, 1.5 & 2 mod	21.2-21.3
EW	Budget Worms 1 mod	21.5
F		
FB	Bevels 4:1 Ratio	14.11
G		
G	Spur Gears (Bossed)	23.2
GPA,GPS	Gears - Internal (Plain & Bossed)	17.2
H		
H	Timing Pulleys (Bossed)	12.60
H	Timing Belts	12.98
H	Gears - Helical Crossed Axis (Bossed)	25.2
HG	Steel Spur Gears - (Bossed)	23.74
HPC047	Couplings, Double Loop	3.66
HPC049	Couplings, Double Loop	3.66
HPC050	linear Motion, Imperial Leadscrews	2.8
HPC062	linear Motion, Imperial Leadscrews	2.8
HPC075	linear Motion, Imperial Leadscrews	2.8
HPC100	linear Motion, Imperial Leadscrews	2.8
HPC101	Couplings, Single Universal Joints, Acetal Body	3.88
HPC103	Couplings, Single Universal Joints, Acetal Body	3.88
HPC105	Couplings, Single Universal Joints, Acetal Body	3.88
HPC109	Couplings, Double Universal Joints, Acetal Body	3.94
HPC111	Couplings, Double Universal Joints, Acetal Body	3.94
HPC125	linear Motion, Imperial Leadscrews	2.8
HPC128	Couplings, Universal Joints, Brass Cross Pieces & Tubes	3.100
HPC130	Couplings, Universal Joints, Brass Cross Pieces & Tubes	3.100
HPC150	linear Motion, Imperial Leadscrews	2.8
HPC200	linear Motion, Imperial Leadscrews	2.9
HPC201	Couplings, Universal/Lateral Offset Series	3.24
HPC203	Couplings, Universal/Lateral Offset Series	3.24
HPC232	Couplings, Sliding Disc (Oldham)	3.30
HPC234	Couplings, Sliding Disc (Oldham)	3.30
HPC2400	Spur Racks (Hardened & Ground), Straight Cut	9.2
HPC2460	Helical Racks (Hardened & Ground), Helical Cut	9.4
HPC250	linear Motion, Imperial Leadscrews	2.9
HPC251	Couplings, Bore Reducers	3.80
HPC253	Couplings, Bore Reducers	3.80



HPC254	Spur Pinions (Hardened & Ground), Straight Cut	9.6
HPC254	Helical Pinions (Hardened & Ground), Helical Cut	9.7
HPC254	Couplings, Bore Reducers	3.80
HPC255	Couplings, Bore Reducers	3.80
HPC257	Couplings, Bore Reducers	3.80
HPC259	Couplings, Bore Reducers	3.80
HPC260	Couplings, Bore Reducers	3.80
HPC261	Couplings, Bore Reducers	3.80
HPC267	Couplings, Adjustable Friction Clutches	3.70
HPC269	Couplings, Adjustable Friction Clutches	3.70
HPC271	Couplings, Adjustable Friction Clutches	3.70
HPC273	Couplings, Adjustable Friction Clutches	3.70
HPC277	Couplings, Adjustable Friction Clutches	3.70
HPC279	Couplings, Adjustable Friction Clutches	3.70
HPC281	Couplings, Adjustable Friction Clutches	3.70
HPC285	Couplings, Adjustable Friction Clutches	3.70
HPC294	Linear Motion, Splined Sleeves & Shafts	2.29
HPC311	Couplings, Adjustable Friction Clutches	3.70
HPC397	Couplings, Adjustable Friction Clutches	3.70
HPC399	Couplings, Adjustable Friction Clutches	3.70
HPC401	Couplings, Adjustable Friction Clutches	3.70
HPC403	Couplings, Adjustable Friction Clutches	3.70
HPC407	Couplings, Adjustable Friction Clutches	3.70
HPC409	Couplings, Adjustable Friction Clutches	3.70
HPC411	Couplings, Adjustable Friction Clutches	3.70
HPC415	Couplings, Adjustable Friction Clutches	3.70
HPC450H	Couplings, Sliding Disc (Oldham)	3.30
HPC452H	Couplings, Sliding Disc (Oldham)	3.30
HPC453H	Couplings, Sliding Disc (Oldham)	3.30
HPC454H	Couplings, Sliding Disc (Oldham)	3.30
HPC456H	Couplings, Sliding Disc (Oldham)	3.30
HPC460	Couplings, Flexible Membrane, Rivetted series	3.12
HPC464	Couplings, Flexible Membrane, Rivetted series	3.12
HPC468	Couplings, Flexible Membrane, Rivetted series	3.12
HPC495	Couplings, Universal Joints, Brass Cross Pieces & Tubes	3.100
HPC497	Couplings, Universal Joints, Brass Cross Pieces & Tubes	3.100
HPC500	Linear Motion, Leadscrews	2.2
HPC502	Linear Motion, Leadscrews	2.6
HPC505	Linear Motion, Leadscrews	2.2
HPC511	Linear Motion, Threaded Nuts	2.10
HPC512	Linear Motion, Threaded Nuts, 2 start	2.15
HPC516	Linear Motion, Threaded Nuts	2.10
HPC530.20	Couplings, Stainless Steel Bellows	3.2
HPC532.20	Couplings, Stainless Steel Bellows	3.2
HPC534.20	Couplings, Stainless Steel Bellows	3.2
HPC636	Couplings, Step Beam, Nylon	3.58
HPC660	Couplings, Flexible Membrane, Bolted series	3.18



HPC664	Couplings, Flexible Membrane, Bolted series	3.18
HPC668	Couplings, Flexible Membrane, Bolted series	3.18
HPC6000 (to 10)	Shafts & Bearings, Single Row Radial, Ball Bearings	4.42
HPC6200 (to 10)	Shafts & Bearings, Single Row Radial, Ball Bearings	4.43
HPC6300 (to 10)	Shafts & Bearings, Single Row Radial, Ball Bearings	4.43
HPC702	Couplings, 6-Beam (Non-Relieved), Stainless Steel	3.38
HPC703	Couplings, 6-Beam (Non-Relieved), Stainless Steel	3.38
HPC706	Couplings, 6-Beam (Non-Relieved), Aluminium	3.42
HPC707	Couplings, 6-Beam (Non-Relieved), Aluminium	3.42
HPC710	Couplings, 6-Beam (Non-Relieved), Acetal	3.46
HPC711	Couplings, 6-Beam (Non-Relieved), Acetal	3.46
HPC800	Couplings, Flexible Jaw	3.60
HPC802	Couplings, Flexible Jaw	3.60
HPC803	Couplings, Flexible Jaw	3.60
HPC820	Couplings, Single Beam, Stainless Steel	3.50
HPC821	Couplings, Single Beam, Stainless Steel	3.50
HPC826	Couplings, Single Beam, Aluminium	3.54
HPC827	Couplings, Single Beam, Aluminium	3.54
HPC850H	Couplings, Sliding Disc (Oldham), Stainless Steel	3.36
A HPCA		
HPCA	Fasteners, Imperial Threaded Flanged Nuts	2.26
HPCA15028	Couplings, Universal Joints Retaining Covers	3.85
HPCA902	Couplings, Universal Joints Retaining Covers	3.85
HPCA903	Couplings, Universal Joints Retaining Covers	3.85
HPCA905	Couplings, Universal Joints Retaining Covers	3.85
HPCAF	Couplings, Shaft Clamps, Mild Steel	3.108
HPCAM	Fasteners, Socket Head Cap Screws, Steel	5.48
B HPCB		
HPCB	Fasteners, Imperial Threaded Round Nuts	2.16
HPCBE	Shafts & Bearings, Rotary Shaft Seals	4.41
HPCBH010	Single Housed Bearing Assembly	4.68
HPCBH020	Single Housed Bearing Assembly, Circlip	4.74
HPCBH040	Double Housed Bearing Assembly	4.80
HPCBL	Gearboxes, Bevel Tee, Right Angle	1.48
HPCBLH	Gearboxes, Worm/Wheel Reduction	1.36
HPCBLHT	Gearboxes, Worm/Wheel Reduction	1.37
HPCBPM	Mechanical, Spring Plungers	6.47
HPCBM	Fasteners, Stainless Socket Head Button Screws	5.64
C HPCC		
HPCC	Fasteners, Imperial Threaded Square Nuts	2.18
HPCCC	Couplings, Hub Clamps, Steel & Stainless Steel	3.106
HPCCD1	Mechanical, Compression Springs, Music Wire	6.20
HPCCD2	Mechanical, Compression Springs, Stainless Steel	6.6
HPCCF	Shafts & Bearings, Standard Cam Followers Sealed	4.2

HPCCIM	Fasteners, Steel Threaded Bar	5.75
HPCCJ	Couplings, Set Screw Shaft Collars, Steel & Mild Steel	3.110
HPCCCL	Couplings, Set Screw Shaft Collars, Mild Steel	3.112
HPCCM	Fasteners, Socket Head Cap Screws, Stainless Steel	5.54
HPCCSM	Fasteners, Stainless Socket Head Counter Sink Screws	5.60
HPCCCT	Couplings, Hub Clamps, Steel & Stainless Steel	3.107
HPCCX	Mechanical, Circlips, Steel	6.2
HPCCY	Mechanical, Circlips, Steel	6.4
D HPCD		
HPCD1	Mechanical, Compression Springs, Musical wire	6.21
E HPC E		
HPC E	Gearboxes, Worm/Wheel Reduction	1.24
	Gearboxes, Output shafts	1.35
HPCET4	Mechanical, Extension Springs, Stainless Steel	6.28
F HPCF		
HPCFF	Gearboxes, Offset Spur Gear Reducers	1.52
HPCFPL20	Shafts & Bearings, 4 Bolt Flange, Thermo. Polyester	4.50
HPCFRN	Mechanical, Rotary Dampers, Bi-Directional	6.41
HPCFRT	Mechanical, Rotary Dampers, Bi-Directional	6.41
G HPCG		
HPCGBC	Gearboxes, Spiral Bevel	1.98
HPCGBK	Gearboxes, Spiral Bevel	1.96
HPCGBP	Gearboxes, Miniature Bevel	1.88
HPCGM	Fasteners, Steel Hexagon Socket Set Screws	5.70
HPCGN	Fasteners, Grease Nipples	5.76
H HPC H		
HPCHD	Fasteners, Dowel Pins	5.4
HPCHDX	Fasteners, Dowel Pins	5.7
HPCHSS	Fasteners, Shoulder Screws	5.43
I HPCI		
HPCICC	Couplings, Integral Clamp Collars Al. & Stainless Steel	3.113
J HPCJ		
HPCJ51	Gearboxes, Inline Spur, 1:1-20:1	1.60
HPCJ52	Gearboxes, Inline Spur, 1:1-130:1	1.61
HPCJ53	Gearboxes, Inline Spur, 1:1-625:1	1.62
HPCJ64	Gearboxes, Inline Spur, 1:1-16:1	1.63
HPCJ65	Gearboxes, Inline Spur, 1:1-64:1	1.64
HPCJ66	Gearboxes, Inline Spur, 1:1-256:1	1.65



K HPCCK

HPCK64	Gearboxes, Inline Spur, 1:1-9:1	1.66
HPCK65	Gearboxes, Inline Spur, 10:1:1-27:1	1.67
HPCK83	Gearboxes, Inline Spur, 1:1-10:1	1.68
HPCK84	Gearboxes, Inline Spur, 12:1-30:1	1.69
HPCK85	Gearboxes, Inline Spur, 36:1-81:1	1.70
HPCKEY	Fasteners, Parallel Keys, Steel	5.31
HPCKW	Fasteners, Woodruff Keys, Steel	5.39
HPCKS	Fasteners, Key Steel, Stainless Steel	5.40

HPCL

L HPCL83	Gearboxes, Inline Spur, 1:1-9:1	1.71
HPCL84	Gearboxes, Inline Spur, 12:1-54:1	1.72
HPCL101	Gearboxes, Inline Spur, 1:1-9:1	1.73
HPCL102	Gearboxes, Inline Spur, 10:1-27:1	1.74
HPCL115	Gearboxes, Inline Spur, 1:1-9:1	1.75
HPCL116	Gearboxes, Inline Spur, 1:1-27:1	1.76
HPCLUB	Lubricants	7.1

M HPCM

HPCMAX11004	DC Motors 16mm Diameter	8.4
HPCMAX1101	DC Motors 22mm Diameter	8.6
HPCMAX1103	DC Motors & Gearbox Comb. 22mm Diameter	8.7
HPCMAX11031	DC Motors & Gearbox Combinations 13mm Diameter	8.3
HPCMAX11032	DC Motors & Gearbox Combinations 16mm Diameter	8.5
HPCMAX11045	DC Motors & Gearbox Combinations 38mm Diameter	8.11
HPCMAX1661	DC Motors & Gearbox Combinations 32mm Diameter	8.9
HPCMAX2038	DC Motors 13mm Diameter	8.2
HPCMAX214093	DC Motors 40mm Diameter	8.10
HPCMAX2424	DC Motors 32mm Diameter	8.8
HPCME	Couplings, Single Universal Joints, Steel	3.86
HPCMF	Couplings, Double Universal Joints, Steel	3.87
HPCMPE	Fasteners, Steel Hexagon Threaded Pillars	5.72

N HPCN

HPCNFL	Shafts & Bearing, 2 Bolt Flange	4.48
HPCNH61	Gearboxes, Inline Spur, 1:1-9:1	1.77
HPCNH62	Gearboxes, Inline Spur, 1:1-27:1	1.78
HPCNH63	Gearboxes, Inline Spur, 1:1-120:1	1.79
HPCNH91	Gearboxes, Inline Spur, 1:1-9:1, Heavy Duty	1.80
HPCNH92	Gearboxes, Inline Spur, 1:1-36:1, Heavy Duty	1.81
HPCNH121	Gearboxes, Inline Spur, 1:1-9:1, Heavy Duty	1.82
HPCNH122	Gearboxes, Inline Spur, 1:1-27:1, Heavy Duty	1.83
HPCNT61	Gearboxes, Inline Spur, 1:1-9:1	1.77
HPCNT62	Gearboxes, Inline Spur, 1:1-27:1	1.78
HPCNT63	Gearboxes, Inline Spur, 1:1-120:1	1.79
HPCNT91	Gearboxes, Inline Spur, 1:1-9:1, Heavy Duty	1.80
HPCNT92	Gearboxes, Inline Spur, 1:1-36:1, Heavy Duty	1.81



HPCNT121	Gearboxes, Inline Spur, 1:1-9:1, Heavy Duty	1.82
HPCNT122	Gearboxes, Inline Spur, 1:1-27:1, Heavy Duty	1.83

P HPCP

HPCP	Gearboxes, Worm/Wheel Reduction	1.2
HPCPF	Gearboxes, Worm/Wheel Reduction	1.3
HPCPP	Gearboxes, Double Reduction	1.19
HPCPPL	Fasteners, Pressure Plugs	5.76
HPCPPL20	Shafts & Bearings, Pillow Block, Thermoplastic Polyester	4.44
HPCPT	Fasteners, Taper Pins, Mild Steel	5.10
HPCPTX	Fasteners, Extractable Taper Pins, Mild Steel	5.14

Q HPCQ

HPCQAB	Shafts & Bearings, Oilite® Solid Bars, Sintered Bronze	4.25
HPCQAP	Shafts & Bearings, Oilite® Plates, Sintered Bronze	4.26
HPCQFI	Shafts & Bearings, Oilite® Bushes, Imperial Flanged	4.20
HPCQFM	Shafts & Bearings, Oilite® Bushes, Metric Flanged	4.22
HPCQI	Shafts & Bearings, Oilite® Bushes, Imperial Plain	4.8
HPCQM	Shafts & Bearings, Oilite® Bushes, Metric Plain	4.14

S HPCS

HPCSAM	Bevel Gears, Angular Bevels	14.2
HPCSC	Couplings, Shaft Clamps, Mild Steel	3.109
HPCSHSS	Fasteners, Precision Shoulder Screws	5.43
HPCSIM	Fasteners, Stainless Steel Threaded Bar	5.75
HPCSM	Fasteners, Stainless Hexagon, Socket Set Screws	5.66
HPCSME	Couplings, Single Universal Joints, Stainless Steel	3.86
HPCSMF	Couplings, Double Universal Joints, Stainless Steel	3.87
HPCSP	Fasteners, Slotted Spring Pins, Carbon Steel	5.16
HPCSPSS	Fasteners, Slotted Spring Pins, Stainless Steel	5.25
HPCSTI	Fasteners, Self-Tapping Inserts	5.30

T HPCT

HPCT3	Mechanical, Extension Springs, Music Steel	6.35
HPCTB	Shafts & Bearings, Ball Thrust Bearing Sets	4.86
HPCTPL20	Shafts & Bearings, Take Up, Thermoplastic Polyester	4.46

U HPCU

HPCUCF2	Shafts & Bearings, Square Flange Units, Cast Iron Housing	4.64
HPCUCFL2	Shafts & Bearings, Oval Flange Units, Cast Iron Housing	4.62
HPCUCP2	Shafts & Bearings, Pillow Block, Cast Iron Housing	4.52
HPCUCST2	Shafts & Bearings, Take-Up Units, Cast Iron Housing	4.60
HPCUCT2	Shafts & Bearings, Take-Up Units, Cast Iron Housing	4.56

X HPCX

HPCXJ51	Gearboxes, Inline Spur, 1:1-20:1	1.60
HPCXJ52	Gearboxes, Inline Spur, 1:1-130:1	1.61



HPCXJ53	Gearboxes, Inline Spur, 1:1-625:1	1.62
HPCXJ64	Gearboxes, Inline Spur, 1:1-16:1	1.63
HPCXJ65	Gearboxes, Inline Spur, 1:1-64:1	1.64
HPCXJ66	Gearboxes, Inline Spur, 1:1-256:1	1.65
HPCXK64	Gearboxes, Inline Spur, 1:1-9:1	1.66
HPCXK65	Gearboxes, Inline Spur, 10:1-1-27:1	1.67
HPCXK83	Gearboxes, Inline Spur, 1:1-10:1	1.68
HPCXK84	Gearboxes, Inline Spur, 12:1-30:1	1.69
HPCXK85	Gearboxes, Inline Spur, 36:1-81:1	1.70
HPCXL83	Gearboxes, Inline Spur, 1:1-9:1	1.71
HPCXL84	Gearboxes, Inline Spur, 12:1-54:1	1.72
HPCXL101	Gearboxes, Inline Spur, 1:1-9:1	1.73
HPCXL102	Gearboxes, Inline Spur, 10:1-27:1	1.74
HPCXL115	Gearboxes, Inline Spur, 1:1-9:1	1.75
HPCXL116	Gearboxes, Inline Spur, 1:1-27:1	1.76
HPG	Steel Spur Gears - (Plain)	23.74
HR, HRC	Racks - Helical	22.9
HTD	Heavy Duty Timing Pulleys (Bossed)	12.64
HTD	Heavy Duty Timing Belts	12.110
HTR, HTRC	Racks - Round Helical	22.8
Z HPCZ		
HPCZ	Linear Motion, Linear Shafting	23.4
I IN		
IN	Internal Gears	17.4
K KS		
KS	Sprocket Wheel Set	13.0
L L		
L	Timing Belts	12.96
LO	Timing Pulleys (Bossed)	12.57
M M		
M	Worm Wheels - Bronze (Bossed)	15.2
MHP	Bevel Gears Hypoid	14.4
MP	Timing Belts	12.93
MPSH	Steel Parallel Helicals (Plain)	24.42
MSH	Steel Parallel Helicals (Bossed)	24.42
MXL	Timing Belts	12.107
N NVB		
NVB	V-Pulley Belts	12.130
NYL	Material Stock (Nylon)	26.2
P PG		
PG	Spur Gears (Plain)	23.2
PH	Helicals - Crossed Axis (Plain)	25.2
PHTD	Heavy Duty Timing Pulleys (Plain)	12.64
PLG	Spur Gears - Plastic Moulded	23.160
PM	Worm Wheels Bronze (Plain)	15.2

PRB	Round Belt Pulley Belts	12.119
PSA	Sprockets Ladder	13.2
PSC	Chain Ladder	13.3
PSH	Helical Gears - Parallel Axis (Plain)	24.2
PT	Timing Pulleys (Plain)	12.2
R		
R, RC, RR	Racks - Spur	22.4
RBP	Pulleys - Round	12.119
RE	Roller Sets	12.145
S		
S	Chain Sprockets (Bossed)	13.4
SB, SU	Chain	13.29
SF	Steel Sprockets (Bossed)	13.5
SG	Budget Steel Spur Gears	21.2
SH	Helical Gears - Parallel Axis (Bossed)	24.2
SHR, SHRC	Racks - Helical	22.9
SMS	Spiral Bevel Gears	14.23
SP, DSP, XP	Pinion Shaft Gears	20.10
SPA	V-Pulleys	12.127
SR, SRC	Racks Spur	22.4
SRS	Rack Fixings (for Moulded Flexible Racks)	22.0
SRT	Ratchets & Pawls	10.2
ST	Pinion Shaft Gears	20.6
STA	Material Stock (Stainless Steel)	26.6
STC	Pinion Shaft Gears - Circular Pitch	20.14
STH	Pinion Shaft Gears - Helical	20.16
SW, SWH	Worm - Gears	15.2
T		
T	Timing Pulleys (Bossed)	12.2
T	Timing Belts	12.88
T, DT, ST, DST	Pinion Shaft Gears	20.6
TB	Bevels 3:1 Ratio	14.11
TDC	Belt Guides	12.132
TDC	'C' Profiles	12.136
TDC	Guide Rails	12.137
TE	Universal Tensioners	12.144
TH, DTH	Gears Pinion Shaft - Helical	20.18
TR,TRC	Racks - Round	22.6
W		
W	Instrument Pulleys (Bossed)	12.48
W, WH, SW, SWH	Worm - Gears	15.2
X		
XG	Spur Gears - Heavy Duty (Plain)	23.22
XL	Timing Pulleys (Bossed)	12.52
XL	Timing Belts	12.94
X, WX, WY, Y	Timing Pulley Flanges	12.86
XL, L, H	Timing Pulley Flanges	12.87



XP	Pinion Shaft Gears	20.10
XS, XAS	Steel Duplex Chain Sprockets (Bossed & Plain)	13.33
XSBR, XSUA	Duplex Sprocket Chains	13.50
XXS, XXAS	Steel Triplex Chain Sprockets (Bossed & Plain)	13.42
XXSBR, XXXSUA	Triplex Sprocket Chains	13.50
Y YG	Spur Gears - Heavy Duty (Bossed)	23.22
Z ZAS	Chain Sprockets - Plastic (Plain)	13.6
ZB	Bevels 1:1 Ratio - Plastic	14.7
ZDB	Bevels 2:1 Ratio - Plastic	14.12
ZEB	Bevels 1:1 Ratio - Plastic Moulded	14.14
ZFB	Bevels 4:1 Ratio - Plastic	14.12
ZG	Spur Gears - Plastic (Bossed)	23.8
ZGB	Bevels 2:1 Ratio - Plastic Moulded	14.14
ZH, ZPH	Helicals - Crossed Plastic	25.6
ZHG	Plastic Spur Gears (Bossed)	23.75
ZHPG	Plastic Spur Gears (Plain)	23.75
ZIN	Internal Plastic Gears	17.4
ZM, ZPM	Worm Wheel Gears - Plastic (Bossed & Plain)	15.4
ZMP SH	Heavy Duty Plastic Parallel Helicals (Plain)	24.43
ZMSH	Heavy Duty Plastic Parallel Helicals (Bossed)	24.43
ZPG	Plastic Spur Gears (Plain)	23.8
ZR, ZRC, ZRR	Racks - Plastic	22.5
ZRM	Racks - Moulded Plastic	22.11
ZS	Sprockets - Plastic (Bossed)	13.6
ZSH, ZPSH	Helicals - Parallel Plastic (Bossed & Plain)	24.6
ZSU	Chain Sprockets (Plastic)	13.17
ZSUA	Plastic Chains	13.30
ZSW	Worm Gears - Plastic	15.4
ZTB	Bevels 3:1 Ratio - Plastics	14.12
ZTR	Racks - Round - Plastic	22.7
ZW, ZSW	Worm Gears - Plastic	15.4
ZXS, ZXAS	Plastic Duplex Chain Sprockets (Bossed & Plain)	13.35
ZXXS, ZXXAS	Plastic Triplex Chain Sprockets (Bossed & Plain)	13.43

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