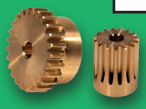
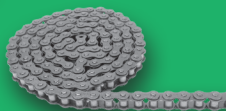
HPC

Mechanical components by mail order

4/5 2025

Gears and Sprockets





CAD PDF

www.hpceurope.com

+33 (0)4 37 496 496

INDEX 1/3

HTD type tooth bar stock p.12

HTD type timing pulley p.14

RPP heavy duty timing belt p.23

HTD type timing belt per metre p.32

HTD connecting plate p.33

Toothed bar machined to order p.36

T type tooth bar stock p.38

T type timing pulley p.41

Eco range timing pulley p.42

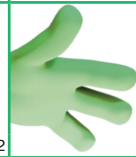
T type timing pulley p.53

T type timing belt per metre p.58

T connecting plate p.59

AT type tooth bar stock p.60

Eco range timinig pulley p.62



AT type timing pulley p.82

AT type timing belt per metre p.84

AT connecting plate p.85

Chain sprocket p.95

stainless steel

Stainless steel chain sprocket p.99

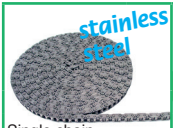
NEW

Plastic chain sprocket p.92

Chain sprocket with hardened teeth p.104

Single chain per metre 122

Chain link p.123



Single chain per metre p.124

Stainless steel chain link p.125

Chain tool p.127

Automatic chain tensioner p.130

Roll-Ring® chain tensioner p.136

Idler chain sprocket p.139

Idler chain sprocket p.140

Universal tension arm p.142

Rigid manual tensioner p.144

Belt tensioner p.146

Tensioner pulley p.148

Eco. range steel bevel gear (1:1 to 4:1) p.154

Stainless steel bevel gear p.159

Plastic bevel gear p.163

Turn the page

INDEX 3/3

Plastic bevel gear p.167

Spiral bevel gear p.170

Worm and wheel set p.174

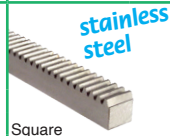
Moulded nylon rack p.196

Plastic narrow spur rack p.197

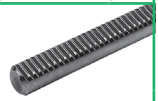
Narrow spur rack p.198

Stainless steel narrow spur rack p.199

Square section rack p.200

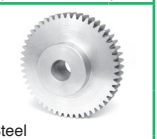


Square section rack p.201


Spur round rack p.202

Spur round rack p.203

Internal gear 208


Steel spur gear p.212

Plastic spur gear p.214

Brass spur gear p.218

Stainless steel spur gear p.219

Steel spur gear p.234

Moulded plastic spur gear p.244

Parallel axis helical gear p.310

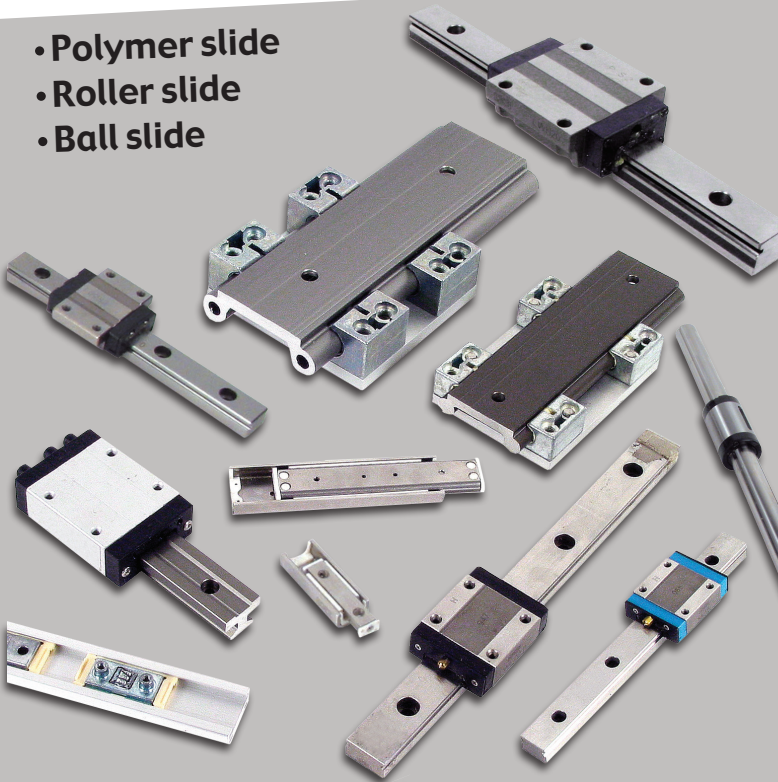
90° crossed axis helical gear p.321

Find our full range of

LINEAR SLIDES

on HPCEUROPE.COM

- Polymer slide
- Roller slide
- Ball slide



Click&SEARCH

www.hpceurope.com

www.ctmeca.com

GAGNEZ DU TEMPS SUR NOTRE SITE Web

Commandez + de 190 000 pièces standard en stock
- Devis/commandes express
- Remises et prix à jour
- Infos sur les délais et les stocks

Téléchargez gratuitement
- Fiches techniques
- Catalogues
- Fichiers 3D

Payez
en toute sécurité

RISPARMIA TEMPO SUL NOSTRO SITO Web

Ordina più di 190 000 componenti standard in stock
- Preventivi/ordini express
- Sconti e prezzi aggiornati
- Info su tempi di consegna e stock

Download gratuito
- Schede tecniche
- Cataloghi
- File 3D

Paga
in tutta sicurezza

SAVE TIME BY USING OUR INTERNET SITE Web

Over 190 000 standard parts in stock
- Express Quotes / orders
- Up to date discounts and prices
- Delivery times and stock availability

Downloads free of charge
- Technical documents
- Catalogues
- 3D files

Secure
payment online

NOTRE ÉQUIPE À VOTRE SERVICE

COMMANDE FACILE

• Conseils personnalisés de l'équipe commerciale et technique du lundi au vendredi, de 8h à 12h20 et de 13h40 à 18h **+33(0)4 37 496 496.**

• Fourniture à l'unité, petite et moyenne série de pièces : **Sur mesure selon plan / Hors catalogue.**

• Règlement par virement bancaire, carte bancaire ou PayPal.

LIVRAISON RAPIDE

Livraison **24/48h*** - Frais de port **GRATUIT** dès **100€** d'achat*.

*Services soumis à conditions - Livraison en France métropolitaine

INFORMATIONS PRATIQUES

27 chemin des Peupliers
Bât N
69570 Dardilly
Lyon • France

cial2@hpceurope.com
+33(0)4 37 496 496

Engrenages HPC SARL
au capital de 76 224€ SIRET :
38291190700048 • Code APE 4669B
Numéro de TVA : FR 41 382 911 907

IL NOSTRO TEAM AL TUO SERVIZIO

ORDINE FACILE

• Consigli personalizzati del nostro team commerciale e tecnico dal lunedì al venerdì, dalle 8.30 alle 13.00 e dalle 14.00 alle 17.30 allo **+(39) 011.760.95.05**

• Fornitura di componenti all'unità, piccole e medie serie: **/ Su misura a disegno / Non standard.**

• Pagamento con bonifico bancario, carta di credito o PayPal.

CONSEGNA

Spedizione **GRATUITA** a partire da **100€** di acquisto*.
Articoli di lunghezza inferiore a un metro. Eccetto Sicilia, Sardegna e isole minori. *Servizi soggetti a condizioni.

INFORMAZIONI PRATICHE

Ufficio di rappresentanza in Italia
C.so Vittorio Emanuele II N. 71
10128 Torino
Italia

Info2@ctmeca.com
+(39) 011.760.95.05

Engrenages HPC SARL
capital 76 224 Euros SIRET :
38291190700048 • Code APE 4669B
P.IVA : FR 41 382 911 907

OUR TEAM IS AT YOUR SERVICE

EASY TO ORDER

• Personalized advice offered by our sales and technical team from Monday to Friday 08:00 to 12:20 and 13:40 to 18:00 - **telephone +33(0)4 37 496 496.**

• Parts supplied individually and in small and medium series : **custom made according to plan / Non standard.**

• Payment by bank transfer, credit card, PayPal.

RAPID DELIVERY

24/48h hour delivery* - **free of charge** for orders over **100€***.
*Service subject to conditions - mainland France only

USEFUL INFORMATION

27 chemin des Peupliers
Bât N
69570 Dardilly
Lyon • France

cial2@hpceurope.com
+33(0)4 37 496 496

Engrenages HPC SARL
au capital de 76 224€ SIRET :
38291190700048 • Code APE 4669B
VAT Numbers : FR 41 382 911 907

INDEX ICONS

Internal bore

Modifiable

Non-modifiable

Load

Axial load

Radial load

Heavy duty

Max load 1 tonne

Delivery time

In hours or weeks

Method of fabrication

Moulded

Machined

Material

Steel

Stainless steel

Aluminium

Brass

Bronze

Nylon

Copper

Plastic

Delrin

Peek

Cast iron

Resistant to

Low temperatures

High temperatures

Corrosion

Shock

Special HPC

Custom-made

In stock

In imperial

Angles

Compatibility

Robotic industry

Food industry

Maintenance

Maintenance free

No lubrication

Applicable

Industrial

Manual

Standards

DIN

ISO

Origin

Japan

Switzerland

Quality

from 1 to 8

Others

Bi-directional

Precision

Duo

Bearings

Light

No fixing

Miniature size

Low cost range

Modulable

High speed of rotation

Easy assembly

TABLE OF CONTENTS

Image index ..... p.0 to 3
Services availables from HPC ..... p.4 to 5
Index icons p.6
Products ..... **p.10 to 397**

Pulleys and rubber timing belts ..... **p.10 to 33**
Pulleys and polyurethane timing belt ..... **p.34 to 89**
Chains and sprockets ..... **p.90 to 127**
Chain and belt tensioners ..... **p.128 to 151**
Bevel gear ..... **p.152 to 171**
Worms and wheels ..... **p.172 to 193**
Racks ..... **p.194 to 205**
Spur gears ..... **p.206 to 307**
Parallel axis helical gears ..... **p.308 to 331**
Technical data sheets for standard gears ..... **p.332 to 358**
Precision worm and wheel ..... **p.359 to 371**
Precision spur gears and ground gear ..... **p.372 to 397**
Technical data sheets for precision gears ..... **p.398 to 404**
Made to measure mechanical parts ..... **p.405 to 419**

General terms and conditions of sale ..... p.420 to 423
Index by part numbers ..... p.424 to 432
Index by reference to international standards ..... p.433 to 434
Index by names ..... p.435 to 446
HPC in Europe p.447
Catalogue request p.448

Buying guide

Gears

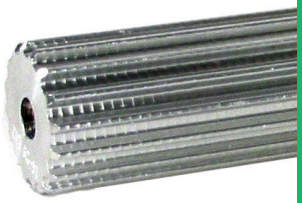
// : parallel ⊥ : orthogonal

	Spur gear	Spur gear - precision range	Helical gear	90° crossed axis helical gear
Part number	**G / HG / SSG / GBRA / ZG / CLG**	**PSG**	**SH / ZSH**	**H / ZH**
Orientation	//	//	//	⊥
Reduction ratio on 1 train	1 → 10	1 → 10	1 → 10	1 → 10
Centres	contact	contact	contact	contact
Noise	🔊	🔊	🔉	🔉
Transferable effort	important	important	important	important
Lubrification	💧	💧	💧	💧💧
Lifetime	☆☆☆	☆☆☆	☆☆☆	☆☆
Self locking output	✘	✘	✘	✘
For positioning	✘	✔	✘	✘
Yield	good	good	medium	low

: noisy : low : quiet : essential : necessary : not necessary

	Bevel	Spiral bevel	Worm and wheel set	Precision Worm and wheel	Pulley / toothed belt	Pulley / toothed belt	Sprocket / chain
	Beco / SSBra ZBra / MEB	SMS	M / ZM / W / WH / SW / ZW / ZSW	PWG / PW / PSW	T / AT	HTD / RPP	S / PCS / SBR SBS
	1 → 4	1	7 → 350	8 → 60	1 → 10	2 → 10	1 → 7
	contact	contact	contact	contact	apart	apart	apart
	important	important	important	important	low	low	medium
	☆☆☆	☆☆☆	☆☆	☆☆	☆	☆	☆☆
	✘	✘	on condition	on condition	✘	✘	✘
	✘	✔	✘	✔	✔	✘	✘
	good	good	low	low	good	good	good

HTD TYPE TOOTHED BAR STOCK

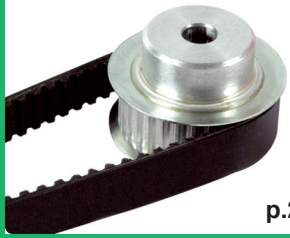


p.12

HTD TYPE TIMING PULLEY

p.14

RPP TIMING BELT

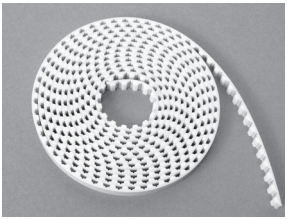


p.23

PULLEY AND HEAVY DUTY TIMING BELT

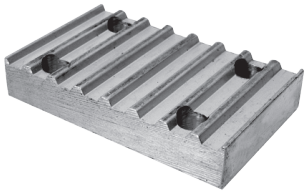
P. 12-32

RPP TYPE BELT PER METRE



p.32

CONNECTING PLATE

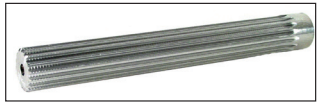


p.33

HTD type toothed bar stock

HTD5M-BAR

Aluminium



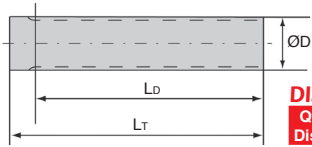
- ***Bar stock to be cut to length by the customer***
- *The overall length is the same as the maximum length*
- *Material : Aluminium suitable for hard anodising*
- *Finish : Supplied non-anodised*

Info.

- *We are unable to modify this product*

Accessories

- **RPP5** *belt* **(tome 4 p.28)**



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Z Teeth	ØD External	Length of teeth L_D	Total length L_T	Price each
12HTD5M-BAR	12	17,96	150	160	10,88 €
13HTD5M-BAR	13	19,55	150	160	11,94 €
14HTD5M-BAR	14	21,14	175	200	15,12 €
15HTD5M-BAR	15	22,73	175	200	16,58 €
16HTD5M-BAR	16	24,33	175	200	18,04 €
17HTD5M-BAR	17	25,92	175	200	18,22 €
18HTD5M-BAR	18	27,51	200	200	21,53 €
19HTD5M-BAR	19	29,10	200	200	23,50 €
20HTD5M-BAR	20	30,69	200	200	25,22 €
21HTD5M-BAR	21	32,28	200	200	26,30 €
22HTD5M-BAR	22	33,88	200	200	27,33 €
23HTD5M-BAR	23	35,47	200	200	29,42 €
24HTD5M-BAR	24	37,06	200	200	31,72 €
25HTD5M-BAR	25	38,65	200	200	33,91 €
26HTD5M-BAR	26	40,24	200	200	37,34 €
27HTD5M-BAR	27	41,83	200	200	37,48 €
28HTD5M-BAR	28	43,42	200	200	41,17 €
30HTD5M-BAR	30	46,61	200	200	44,02 €
32HTD5M-BAR	32	49,79	200	200	47,01 €
34HTD5M-BAR	34	52,97	200	200	51,59 €
36HTD5M-BAR	36	56,16	200	200	59,29 €
38HTD5M-BAR	38	59,34	200	200	63,07 €
40HTD5M-BAR	40	62,52	200	200	68,49 €
42HTD5M-BAR	42	65,71	200	200	74,05 €
44HTD5M-BAR	44	68,89	200	200	87,49 €
45HTD5M-BAR	45	70,48	200	200	89,15 €
48HTD5M-BAR	48	75,26	200	200	97,96 €
50HTD5M-BAR	50	78,44	200	200	109,18 €
60HTD5M-BAR	60	94,36	200	200	147,89 €
72HTD5M-BAR	72	113,45	200	200	207,93 €

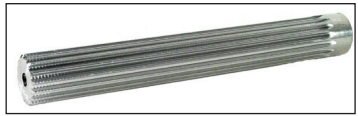
Dimensions in mm

HTD type toothed bar stock

Steel

HTD8M-BAR

- ***Bar stock to be cut to length by the customer***
- *The overall length is the same as the maximum length*
- *Material : Steel C40*

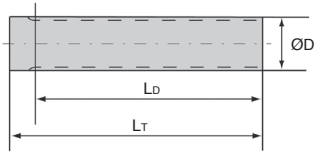


Info.

- *We are unable to modify this product*

Accessories

- **RPP8** *belt* ***(tome 4 p.28)***



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Z Teeth	ØD External	Length of teeth LD	Total length LT	Price each
18HTD8M-BAR	18	44,47	200	200	42,27 €
19HTD8M-BAR	19	47,01	200	200	45,05 €
20HTD8M-BAR	20	49,56	200	200	47,31 €
21HTD8M-BAR	21	52,11	200	200	49,25 €
22HTD8M-BAR	22	54,65	200	200	52,04 €
23HTD8M-BAR	23	57,20	200	200	53,96 €
24HTD8M-BAR	24	59,75	200	200	56,64 €
25HTD8M-BAR	25	62,29	200	200	58,38 €
26HTD8M-BAR	26	64,84	200	200	63,01 €
28HTD8M-BAR	28	69,93	200	200	69,04 €
30HTD8M-BAR	30	75,03	200	200	78,79 €
32HTD8M-BAR	32	80,12	200	200	91,48 €
34HTD8M-BAR	34	85,21	200	200	99,37 €
35HTD8M-BAR	35	87,76	200	200	109,91 €
36HTD8M-BAR	36	90,30	200	200	115,30 €
38HTD8M-BAR	38	95,40	200	200	128,78 €
40HTD8M-BAR	40	100,49	200	200	141,02 €
44HTD8M-BAR	44	110,67	200	200	166,90 €
48HTD8M-BAR	48	120,86	200	200	195,19 €

Dimensions in mm

HTD type timing pulley

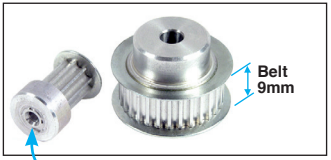
Alu x Size XS Stock

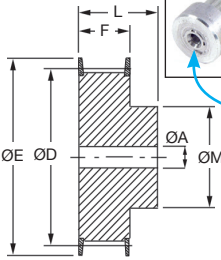
Pitch 3mm

Aluminium

Belt width 9mm

- ***For use with RPP3 belt***
- *Pitch: 3mm*
- *Material: aluminium*





Info.

- ***Pilot bore dimension is given as a guide only may vary between batches -To be finished to size customer*
- ***We are unable to modify these parts.***

Accessories

- ***RPP3** belt* ***(tome 4 p.23)***
- ***GTC** belt tension roller* ***(tome 4 p.146)***

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	N° of teeth	PCD Ø	External ØD	Flange ØE	ØM	F	L	Pilot bore ** ØA	Stock*	Price each 1 to 5
10HTD3M-09F	10	9,55	8,79	13,0	13,0	10,2	17,5	Solid	✔	6,55 €
12HTD3M-09F	12	11,46	10,70	15,0	15,0	10,2	17,5	Solid	✔	6,43 €
14HTD3M-09F	14	13,37	12,61	16,0	16,0	10,2	17,5	Solid	-	6,64 €
15HTD3M-09F	15	14,32	13,56	17,5	17,5	10,2	17,5	Solid	✔	6,59 €
16HTD3M-09F	16	15,28	14,52	17,5	10,0	12,8	20,6	4	✔	6,81 €
18HTD3M-09F	18	17,19	16,43	20,0	11,0	12,8	20,6	6	✔	7,09 €
20HTD3M-09F	20	19,10	18,34	23,0	13,0	12,8	20,6	6	✔	7,29 €
21HTD3M-09F	21	20,05	19,29	25,0	14,0	12,8	20,6	6	✔	7,47 €
22HTD3M-09F	22	21,01	20,25	25,0	14,0	12,8	20,6	6	✔	7,85 €
24HTD3M-09F	24	22,92	22,16	25,0	14,0	12,8	20,6	6	✔	8,05 €
26HTD3M-09F	26	24,83	24,07	28,0	16,0	12,8	20,6	6	✔	8,31 €
28HTD3M-09F	28	26,74	25,98	32,0	18,0	12,8	20,6	6	✔	8,28 €
30HTD3M-09F	30	28,65	27,89	32,0	20,0	12,8	20,6	6	✔	8,43 €
32HTD3M-09F	32	30,56	29,80	36,0	22,0	12,8	20,6	6	✔	9,30 €
36HTD3M-09F	36	34,38	33,62	39,0	26,0	13,4	22,2	6	✔	9,79 €
40HTD3M-09F	40	38,20	37,44	42,0	28,0	13,4	22,2	6	✔	11,02 €
44HTD3M-09F	44	42,02	41,26	48,0	33,0	13,4	22,2	6	✔	12,43 €
48HTD3M-09	48	45,84	45,08	-	33,0	13,4	22,2	8	✔	13,00 €
60HTD3M-09	60	57,30	56,54	-	33,0	13,4	22,2	8	✔	14,34 €
72HTD3M-09	72	68,75	67,99	-	33,0	13,4	22,2	8	✔	16,55 €

**Depending on availability - Dimensions in mm*

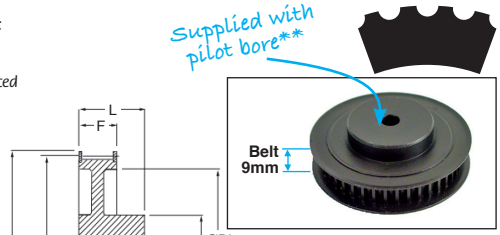
HTD type timing pulley

Steel or aluminium

Pitch 5mm

Belt width 9mm

- **For use with RPP5 belt**
- Pitch: 5mm
- Material: aluminium or phosphated steel depending on size



Info.

- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size by customer
- **We are unable to modify these parts.**

Accessories

- **RPP5** belt **(tome 4 p.26)**
- **GTC** belt tension roller **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	N° of teeth	PCD Ø external	ØD flange	ØE	ØM	ØDi	F	L	Pilot bore **ØA	Stock*	Price each 1 to 5
12HTD5M-09F	Steel	12	19,10	17,96	23,0	13,0	-	14,5	20,0	4	✔	5,61 €
14HTD5M-09F		14	22,28	21,14	25,0	13,0	-	14,5	20,0	6	✔	5,88 €
15HTD5M-09F		15	23,87	22,73	28,0	16,0	-	14,5	20,0	6	✔	6,16 €
16HTD5M-09F		16	25,46	24,32	28,0	16,5	-	14,5	20,0	6	✔	6,69 €
18HTD5M-09F		18	28,65	27,51	32,0	20,0	-	14,5	20,0	6	✔	7,22 €
20HTD5M-09F		20	31,83	30,69	36,0	23,0	-	14,5	22,5	6	✔	7,65 €
21HTD5M-09F		21	33,42	32,28	38,0	24,0	-	14,5	22,5	6	✔	8,02 €
22HTD5M-09F		22	35,01	33,87	39,0	25,5	-	14,5	22,5	6	✔	8,36 €
24HTD5M-09F		24	38,20	37,06	42,0	27,0	-	14,5	22,5	6	✔	8,73 €
26HTD5M-09F		26	41,38	40,24	44,0	30,0	-	14,5	22,5	6	✔	9,21 €
28HTD5M-09F		28	44,56	43,42	48,0	30,5	-	14,5	22,5	6	-	9,48 €
30HTD5M-09F		30	47,75	46,60	51,0	35,0	-	14,5	22,5	6	✔	9,98 €
32HTD5M-09F		32	50,93	49,79	54,0	38,0	-	14,5	22,5	8	✔	11,13 €
36HTD5M-09F		36	57,30	56,16	60,0	38,0	-	14,5	22,5	8	✔	11,60 €
40HTD5M-09F		40	63,66	62,52	71,0	38,0	-	14,5	22,5	8	✔	11,79 €
44HTD5M-09	Aluminium	44	70,03	68,89	-	38,0	54	14,5	25,5	8	-	17,98 €
48HTD5M-09		48	76,39	75,25	-	45,0	61	14,5	25,5	8	✔	19,91 €
60HTD5M-09		60	95,49	94,35	-	45,0	80	14,5	25,5	8	✔	29,14 €
72HTD5M-09		72	114,59	113,45	-	45,0	100	14,5	25,5	8	✔	40,66 €

*Depending on availability - Dimensions in mm

HTD type timing pulley

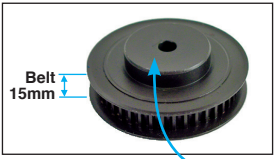
Ste Alu Stock

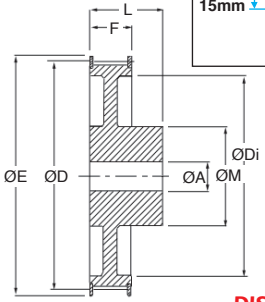
Pitch 5mm

Steel or aluminium

Belt width 15mm

- **For use with RPP5 belt**
- Pitch: 5mm
- Material: Aluminium or phosphated steel depending on size





Info.

- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size customer
- **We are unable to modify these parts.**

Accessories

- **RPP5** belt **(tome 4 p.26)**
- **GTC** belt tension roller **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	No. of teeth	PCD Ø external	ØD flange	ØE	ØM	ØDi	F	L	Pilot bore **ØA	Stock*	Price each 1 to 5
12HTD5M-15F	Steel	12	19,10	17,96	23,0	13,0	-	20,5	26,0	Solid	✔	6,48 €
14HTD5M-15F		14	22,28	21,14	25,0	13,0	-	20,5	26,0	6	✔	7,06 €
15HTD5M-15F		15	23,87	22,73	28,0	16,0	-	20,5	26,0	6	✔	7,36 €
16HTD5M-15F		16	25,46	24,32	28,0	16,5	-	20,5	26,0	6	✔	7,52 €
18HTD5M-15F		18	28,65	27,51	32,0	20,0	-	20,5	26,0	6	✔	7,93 €
20HTD5M-15F		20	31,83	30,69	36,0	23,0	-	20,5	26,0	6	✔	8,45 €
21HTD5M-15F		21	33,42	32,28	38,0	24,0	-	20,5	26,0	6	-	8,77 €
22HTD5M-15F		22	35,01	33,87	39,0	25,5	-	20,5	26,0	6	✔	9,26 €
24HTD5M-15F		24	38,20	37,06	42,0	27,0	-	20,5	28,0	6	✔	9,89 €
26HTD5M-15F		26	41,38	40,24	44,0	30,0	-	20,5	28,0	6	✔	10,58 €
28HTD5M-15F		28	44,56	43,42	48,0	30,5	-	20,5	28,0	6	✔	11,23 €
30HTD5M-15F		30	47,75	46,60	51,0	35,0	-	20,5	28,0	6	✔	11,95 €
32HTD5M-15F		32	50,93	49,79	54,0	38,0	-	20,5	28,0	8	✔	12,56 €
36HTD5M-15F		36	57,30	56,16	60,0	38,0	-	20,5	28,0	8	✔	12,84 €
40HTD5M-15F		40	63,66	62,52	71,0	38,0	-	20,5	28,0	8	✔	13,97 €
44HTD5M-15	Aluminium	44	70,03	68,89	-	38,0	054	20,5	30,0	8	✔	20,99 €
48HTD5M-15		48	76,39	75,25	-	38,0	061	20,5	30,0	8	✔	23,43 €
60HTD5M-15		60	95,49	94,35	-	50,0	080	20,5	30,0	8	✔	34,59 €
72HTD5M-15		72	114,59	113,45	-	50,0	100	20,5	30,0	8	✔	46,88 €

*Depending on availability - Dimensions in mm

HTD type timing pulley

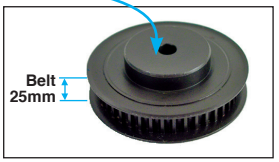
Steel or aluminium

Pitch 5mm

Belt width 25mm

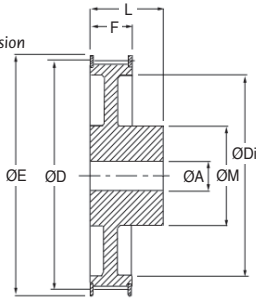
- **For use with RPP5 belt**
- Pitch: 5mm
- Material: Aluminium or phosphated steel depending on size

Supplied with pilot bore**



Info.

- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size by customer
- **We are unable to modify these parts.**



Accessories

- **RPP5** belt **(tome 4 p.26)**
- **GTC** belt tension roller **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	No. of teeth	ØPCD	External Flange Ø	ØD	ØE	ØM	ØDi	F	L	Pilot bore **ØA	Stock*	Price each 1 to 5
12HTD5M-25F	Steel	12	19,10	17,96	23,0	13,0	-	30,5	36	Solid	-	7,40 €
14HTD5M-25F		14	22,28	21,14	25,0	13,0	-	30,5	36	6	-	7,81 €
15HTD5M-25F		15	23,87	22,73	28,0	16,0	-	30,5	36	6	-	7,94 €
16HTD5M-25F		16	25,46	24,32	28,0	16,5	-	30,5	36	6	-	8,41 €
18HTD5M-25F		18	28,65	27,51	32,0	20,0	-	30,5	36	6	-	8,81 €
20HTD5M-25F		20	31,83	30,69	36,0	23,0	-	30,5	36	6	✔	9,50 €
21HTD5M-25F		21	33,42	32,28	38,0	24,0	-	30,5	38	6	-	9,73 €
22HTD5M-25F		22	35,01	33,87	39,0	25,5	-	30,5	38	6	-	10,50 €
24HTD5M-25F		24	38,20	37,06	42,0	27,0	-	30,5	38	6	✔	11,58 €
26HTD5M-25F		26	41,38	40,24	44,0	30,0	-	30,5	38	6	-	12,02 €
28HTD5M-25F		28	44,56	43,42	48,0	30,5	-	30,5	38	6	-	13,24 €
30HTD5M-25F		30	47,75	46,60	51,0	35,0	-	30,5	38	6	✔	14,24 €
32HTD5M-25F		32	50,93	49,79	54,0	38,0	-	30,5	38	8	-	14,55 €
36HTD5M-25F		36	57,30	56,16	60,0	38,0	-	30,5	38	8	-	15,21 €
40HTD5M-25F		40	63,66	62,52	71,0	38,0	-	30,5	38	8	✔	17,34 €
44HTD5M-25	Aluminium	44	70,03	68,89	-	38,0	-	30,5	40	8	-	24,74 €
48HTD5M-25		48	76,39	75,25	-	38,0	61	30,5	40	8	✔	28,86 €
60HTD5M-25		60	95,49	94,35	-	50,0	80	30,5	40	8	✔	38,96 €
72HTD5M-25		72	114,59	113,45	-	50,0	100	30,5	40	8	-	54,87 €

*Depending on availability - Dimensions in mm

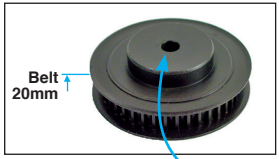
HTD type timing pulley

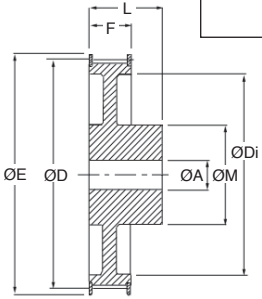
Pitch 8mm

Steel or cast iron

Belt width 20mm

- **For use with RPP8 belt**
- Pitch: 8mm
- Material: Cast iron or phosphated steel depending on size





Info.

- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size by customer
- **We are unable to modify these parts.**

Accessories

- **RPP8** belt **(tome 4 p.28)**
- **GTC** belt tension roller **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	No. of teeth	PCD Ø	external ØD	flange ØE	ØM	ØDi	F	L	Pilot bore **ØA	Stock*	Price each 1 to 5
22HTD8M-20F	Steel	22	56,02	54,65	60,0	43	-	28	38	12	✔	12,16 €
24HTD8M-20F		24	61,12	59,75	66,0	45	-	28	38	12	✔	13,23 €
26HTD8M-20F		26	66,21	64,85	70,0	48	-	28	38	12	-	14,22 €
28HTD8M-20F		28	71,30	70,08	75,0	50	-	28	38	15	✔	15,75 €
30HTD8M-20F		30	76,39	75,13	82,5	55	-	28	38	15	✔	18,03 €
32HTD8M-20F		32	81,49	80,16	87,0	60	-	28	38	15	✔	19,91 €
34HTD8M-20F		34	86,58	85,22	91,0	66	-	28	38	15	-	22,19 €
36HTD8M-20F		36	91,67	90,30	97,0	70	-	28	38	15	✔	24,25 €
38HTD8M-20F		38	96,77	95,39	102,0	75	-	28	38	15	-	26,77 €
40HTD8M-20F		40	101,86	100,49	106,0	75	-	28	38	15	-	28,74 €
44HTD8M-20F		44	112,05	110,67	120,0	75	-	28	38	15	✔	34,41 €
48HTD8M-20F		48	122,23	120,86	128,0	75	-	28	38	15	✔	39,48 €
56HTD8M-20F		56	142,60	141,23	150,0	80	116	28	38	15	✔	50,02 €
64HTD8M-20F		64	162,97	161,60	168,0	80	137	28	38	15	✔	61,18 €
72HTD8M-20F		72	183,35	181,97	192,0	80	158	28	38	15	✔	73,48 €
80HTD8M-20	Cast	80	203,72	202,35	-	90	180	28	38	15	-	84,30 €
90HTD8M-20		90	229,18	227,81	-	90	204	28	38	15	-	80,17 €

*Depending on availability - Dimensions in mm

HTD type timing pulley

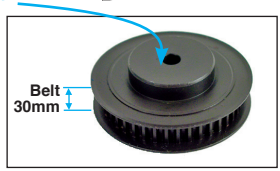
Steel or cast iron

Pitch 8mm

Belt width 30mm

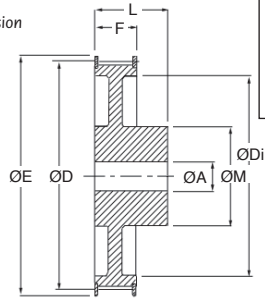
- **For use with RPP8 belt**
- Pitch: 8mm
- Material: Cast iron or phosphated steel depending on size

Supplied with pilot bore**



Info.

- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size by customer
- **We are unable to modify these parts.**



Accessories

- **RPP8** belt **(tome 4 p.28)**
- **GTC** belt tension roller **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	No. of teeth	PCD Ø	external ØD	flange ØE	ØM	ØDi	F	L	Pilot bore **ØA	Stock*	Price each 1 to 5
22HTD8M-30F	Steel	22	56,02	54,65	60,0	43	-	38	48	12	✔	13,42 €
24HTD8M-30F		24	61,12	59,75	66,0	45	-	38	48	12	-	15,25 €
26HTD8M-30F		26	66,21	64,85	70,0	48	-	38	48	12	-	17,26 €
28HTD8M-30F		28	71,30	70,08	75,0	50	-	38	48	15	✔	19,21 €
30HTD8M-30F		30	76,39	75,13	82,5	55	-	38	48	15	✔	22,10 €
32HTD8M-30F		32	81,49	80,16	87,0	60	-	38	48	15	-	24,39 €
34HTD8M-30F		34	86,58	85,22	91,0	66	-	38	48	15	-	26,93 €
36HTD8M-30F		36	91,67	90,30	97,0	70	-	38	48	15	✔	29,74 €
38HTD8M-30F		38	96,77	95,39	102,0	75	-	38	48	15	-	32,68 €
40HTD8M-30F		40	101,86	100,49	106,0	75	-	38	48	15	-	35,30 €
44HTD8M-30F		44	112,05	110,67	120,0	75	-	38	48	15	-	42,20 €
48HTD8M-30F		48	122,23	120,86	128,0	75	-	38	48	15	✔	48,69 €
56HTD8M-30F		56	142,60	141,23	150,0	90	116	38	48	15	-	67,05 €
64HTD8M-30F		64	162,97	161,60	168,0	90	137	38	48	15	-	82,53 €
72HTD8M-30F		72	183,35	181,97	192,0	95	158	38	48	15	-	97,28 €
80HTD8M-30	Cast	80	203,72	202,35	-	100	180	38	48	15	-	98,62 €
90HTD8M-30		90	229,18	227,81	-	100	204	38	48	15	-	120,29 €

*Depending on availability - Dimensions in mm

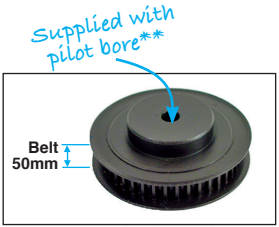
HTD type timing pulley

Pitch 8mm

Belt width 50mm

- ***For use with RPP8 belt***
- *Pitch: 8mm*
- *Material:*
  Cast iron or phosphated steel depending on size

Steel or cast iron

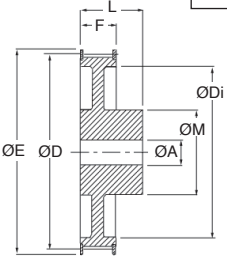


Info.

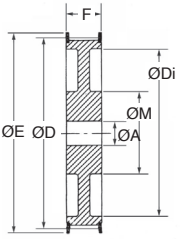
- ***Pilot bore dimension is given as a guide only may vary between batches*
- *To be finished to size by customer*
- ***We are unable to modify these parts.***

Accessories

- ***RPP8** belt*
  (tome 4 p.28)
- ***GTC** belt tension roller*
  (tome 4 p.146)



Up to 48 teeth



Or more 56 teeth

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	N° of teeth	PCD Ø external	ØD flange	ØE	ØM	ØDi	F	L	Pilot bore **ØA	Price each 1 to 5
22HTD8M-50F	Steel	22	56,02	54,65	60,0	43	-	60	70		18,33 €
24HTD8M-50F		24	61,12	59,75	66,0	45	-	60	70	-	21,10 €
26HTD8M-50F		26	66,21	64,85	70,0	48	-	60	70	-	23,91 €
28HTD8M-50F		28	71,30	70,08	75,0	50	-	60	70	-	26,93 €
30HTD8M-50F		30	76,39	75,13	82,5	55	-	60	70	-	30,79 €
32HTD8M-50F		32	81,49	80,16	87,0	60	-	60	70	-	33,88 €
34HTD8M-50F		34	86,58	85,22	91,0	66	-	60	70	-	37,84 €
36HTD8M-50F		36	91,67	90,30	97,0	70	-	60	70	-	41,66 €
38HTD8M-50F		38	96,77	95,39	102,0	75	-	60	70	-	45,57 €
40HTD8M-50F		40	101,86	100,49	106,0	75	-	60	70	-	49,59 €
44HTD8M-50F		44	112,05	110,67	120,0	75	-	60	70	-	59,06 €
48HTD8M-50F		48	122,23	120,86	128,0	80	-	60	70	-	68,81 €
56HTD8M-50F		56	142,60	141,23	150,0	90	116	60	60	18	84,65 €
64HTD8M-50F		64	162,97	161,60	168,0	100	137	60	60	18	106,30 €
72HTD8M-50F		72	183,35	181,97	192,0	100	158	60	60	18	129,29 €
80HTD8M-50	Cast	80	203,72	202,35	-	110	180	60	60	18	131,06 €
90HTD8M-50		90	229,18	227,81	-	110	204	60	60	18	138,91 €

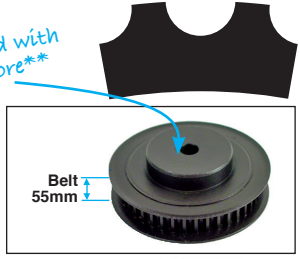
Dimensions in mm

Steel or cast iron

Pitch 14mm

Belt width 55mm

- ***For use with RPP14 belt***
- Pitch: 14mm
- Material:
  Cast iron or phosphated steel depending on size

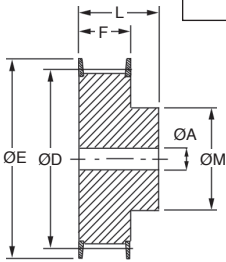


Info.

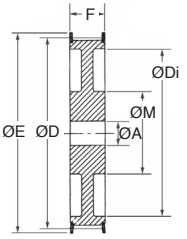
- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size by customer
- ***We are unable to modify these parts.***

Accessories

- **RPP14** belt
  (tome 4 p.30)
- **GTC** belt tension roller
  (tome 4 p.146)



Up to 44 teeth



Or more 48 teeth

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Material	N° of teeth	PCD Ø external ØD	flange ØE	ØM	ØDi	F	L	Pilot bore **ØA	Price each 1 to 5
28HTD14M-55F	Steel	28	124,78	122,12	128	100	-	70	85	24	73,79 €
29HTD14M-55F		29	129,23	126,57	138	100	-	70	85	24	98,52 €
30HTD14M-55F		30	133,69	130,99	138	100	-	70	85	24	91,64 €
32HTD14M-55F		32	142,60	139,88	154	100	-	70	85	24	103,64 €
34HTD14M-55F		34	151,52	148,79	160	100	-	70	85	24	117,36 €
36HTD14M-55F		36	160,43	157,68	168	100	-	70	85	24	130,93 €
38HTD14M-55F		38	169,34	166,60	183	120	-	70	85	24	137,90 €
40HTD14M-55F		40	178,25	175,49	188	120	-	70	85	24	154,58 €
44HTD14M-55F		44	196,08	193,28	211	120	-	70	85	24	187,77 €
48HTD14M-55F	Cast	48	213,90	211,11	226	135	170	70	70	24	196,27 €
56HTD14M-55F		56	249,55	246,76	256	135	207	70	70	28	222,63 €
64HTD14M-55F		64	285,21	282,41	296	135	240	70	70	28	249,70 €

Dimensions in mm

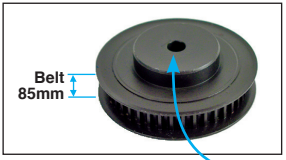
HTD type timing pulley

Pitch 14mm

Belt width 85mm

Steel or cast iron

- **For use with RPP14 belt**
- Pitch: 14mm
- Material:
  Cast iron or phosphated steel depending on size



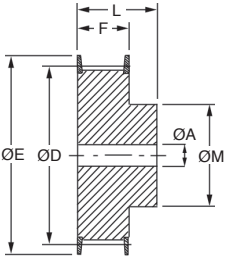
Supplied with pilot bore**

Info.

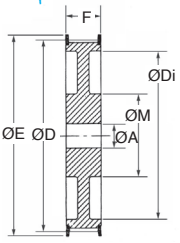
- **Pilot bore dimension is given as a guide only may vary between batches
- To be finished to size by customer
- **We are unable to modify these parts.**

Accessories

- **RPP14** belt **(tome 4 p.30)**
- **GTC** belt tension roller **(tome 4 p.146)**



Up to 48 teeth



Or more 56 teeth

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

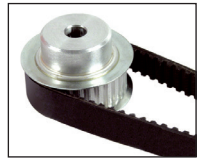
Part number	Material	N° of teeth	PCD Ø external	ØD flange	ØE	ØM	ØDi	F	L	Pilot bore "ØA	Price each 1 to 5
28HTD14M-85F	Steel	28	124,78	122,12	128	100	-	102	117	-	99,60 €
30HTD14M-85F		30	133,69	130,99	138	100	-	102	117	-	123,04 €
32HTD14M-85F		32	142,60	139,88	154	100	-	102	117	-	139,42 €
34HTD14M-85F		34	151,52	148,79	160	100	-	102	117	-	157,70 €
36HTD14M-85F		36	160,43	157,68	168	100	-	102	117	-	175,76 €
38HTD14M-85F		38	169,34	166,60	183	120	-	102	117	-	186,05 €
40HTD14M-85F		40	178,25	175,49	188	135	-	102	117	-	208,82 €
44HTD14M-85F		44	196,08	193,28	211	135	-	102	117	-	254,06 €
48HTD14M-85F		48	213,90	211,11	226	150	-	102	117	-	224,59 €
56HTD14M-85F	Cast	56	249,55	246,76	256	150	207	102	102	32	316,90 €
64HTD14M-85F		64	285,21	282,41	296	150	240	102	102	32	371,69 €

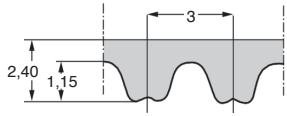
Dimensions in mm

Chloroprene rubber belt with glass fibre tension members

Pitch RPP3

- ***To be used with HTD3M-09F pulley***
- *Pitch 3mm*
- *Efficiency: up to 98%*
- *Materials:*
  chloroprene rubber reinforced with glass fibres
  nylon protective film





Advantages

- ***Shock-resistant***
- *The RPP parabolic tooth profile gives a higher torque capability and greater resistance to tooth jump*

Accessories

- ***HTD3M-09F*** *pulleys* ***(tome 4 p.14)***
- ***GTC*** *belt tension roller* ***(tome 4 p.146)***

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	N° of teeth	Stock*	Price each 1 to 5 for 9mm width
RPP3/90	90	30	✔	7,70 €
RPP3/105	105	35	✔	7,95 €
RPP3/129	129	43	✔	8,22 €
RPP3/141	141	47	✔	8,49 €
RPP3/144	144	48	-	8,49 €
RPP3/147	147	49	-	8,49 €
RPP3/150	150	50	✔	8,49 €
RPP3/159	159	53	✔	8,49 €
RPP3/168	168	56	✔	8,49 €
RPP3/174	174	58	✔	8,71 €
RPP3/177	177	59	-	8,71 €
RPP3/180	180	60	✔	8,71 €
RPP3/186	186	62	✔	8,71 €
RPP3/195	195	65	✔	8,71 €
RPP3/201	201	67	✔	8,96 €
RPP3/204	204	68	-	8,96 €
RPP3/210	210	70	✔	8,96 €
RPP3/213	213	71	✔	8,96 €
RPP3/225	225	75	✔	8,96 €
RPP3/231	231	77	✔	8,96 €
RPP3/240	240	80	✔	9,24 €
RPP3/243	243	81	-	9,24 €
RPP3/246	246	82	-	9,24 €
RPP3/249	249	83	✔	9,24 €
RPP3/252	252	84	✔	9,24 €

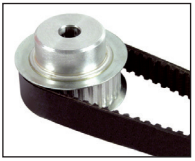
**Depending on availability - Dimensions in mm*

Size XS Stock

Pitch RPP3

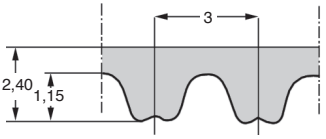
Chloroprene rubber belt with glass fibre tension members

- **To be used with HTD3M-09F pulley**
- Pitch 3mm
- Efficiency: up to 98%
- Materials:
  Chloroprene rubber reinforced with glass fibres
  nylon protective film



Advantages

- **Shock-resistant**
- The RPP parabolic tooth profile gives a higher torque capability and greater resistance to tooth jump



Accessories

- **HTD3M-09F** pulleys **(tome 4 p.14)**
- **GTC** belt tension roller **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	N° of teeth	Stock*	Price each. 1 to 5 for 9mm width
RPP3/255	255	85	-	9,24 €
RPP3/261	261	87	✔	9,24 €
RPP3/264	264	88	✔	9,24 €
RPP3/267	267	89	-	9,24 €
RPP3/270	270	90	✔	9,24 €
RPP3/276	276	92	✔	9,24 €
RPP3/285	285	95	✔	9,24 €
RPP3/288	288	96	✔	9,47 €
RPP3/291	291	97	✔	9,47 €
RPP3/297	297	99	✔	9,47 €
RPP3/300	300	100	✔	9,47 €
RPP3/312	312	104	✔	9,93 €
RPP3/318	318	106	-	9,93 €
RPP3/327	327	109	✔	9,93 €

*Depending on availability - Dimensions in mm

Part number	Length	N° of teeth	Stock*	Price each. 1 to 5 for 9mm width
RPP3/330	330	110	✔	9,93 €
RPP3/333	333	111	✔	9,93 €
RPP3/336	336	112	-	9,93 €
RPP3/339	339	113	✔	9,93 €
RPP3/345	345	115	✔	9,93 €
RPP3/357	357	119	✔	9,93 €
RPP3/363	363	121	-	10,19 €
RPP3/375	375	125	✔	10,19 €
RPP3/384	384	128	✔	10,19 €
RPP3/390	390	130	-	10,52 €
RPP3/393	393	131	✔	10,52 €
RPP3/405	405	135	✔	10,52 €
RPP3/420	420	140	✔	10,52 €
RPP3/432	432	144	✔	10,72 €
RPP3/447	447	149	✔	10,72 €
RPP3/474	474	158	✔	10,99 €
RPP3/480	480	160	-	10,99 €
RPP3/486	486	162	-	11,26 €
RPP3/489	489	163	-	11,26 €
RPP3/501	501	167	-	11,26 €
RPP3/510	510	170	-	11,26 €
RPP3/513	513	171	-	11,26 €
RPP3/522	522	174	✔	11,44 €
RPP3/531	531	177	-	11,44 €
RPP3/537	537	179	-	11,44 €
RPP3/564	564	188	-	11,77 €
RPP3/570	570	190	✔	11,95 €
RPP3/576	576	192	-	11,95 €
RPP3/579	579	193	-	11,95 €
RPP3/597	597	199	-	12,25 €
RPP3/600	600	200	-	12,25 €
RPP3/633	633	211	✔	12,25 €
RPP3/648	648	216	-	12,47 €
RPP3/669	669	223	✔	12,72 €
RPP3/711	711	237	✔	13,00 €
RPP3/735	735	245	-	13,47 €
RPP3/738	738	246	-	13,76 €
RPP3/756	756	252	-	13,96 €
RPP3/804	804	268	-	14,46 €
RPP3/882	882	294	✔	14,75 €
RPP3/945	945	315	✔	15,02 €
RPP3/1062	1062	354	✔	15,27 €
RPP3/1125	1125	373	✔	15,77 €
RPP3/1245	1245	415	-	16,77 €
RPP3/1263	1263	421	-	16,77 €
RPP3/1500	1500	500	✔	19,02 €
RPP3/1530	1530	510	-	19,02 €
RPP3/1863	1863	621	✔	21,06 €

*Depending on availability - Dimensions in mm

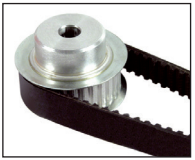
RPP timing belt

Stock*

Pitch RPP5

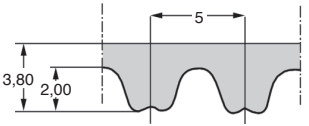
Chloroprene rubber belt with glass fibre tension members

- **To be used with HTD5M pulley**
- Pitch 5mm
- Efficiency: up to 98%
- Materials:
  Chloroprene rubber reinforced with glass fibres
  nylon protective film



Advantages

- **Shock-resistant**
- The RPP parabolic tooth profile gives a higher torque capability and greater resistance to tooth jump



Accessories

- **HTD5M** pulleys **(tome 4 p.15)**
- **GTC** belt tension rollers **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	N° of teeth	Stock* 9mm	Stock* 15mm	Price each 1 to 5 for a width of 9mm	15mm	25mm
RPP5/180	180	36	✔	✔	9,73 €	16,01 €	-
RPP5/225	225	45	✔	✔	9,93 €	16,01 €	-
RPP5/235	235	47	✔	-	9,93 €	16,26 €	23,32 €
RPP5/245	245	49	✔	-	10,19 €	16,26 €	23,32 €
RPP5/255	255	51	✔	-	10,52 €	16,54 €	24,55 €
RPP5/265	265	53	-	-	10,52 €	16,54 €	25,25 €
RPP5/270	270	54	✔	-	10,52 €	16,76 €	-
RPP5/280	280	56	✔	-	10,72 €	16,76 €	25,53 €
RPP5/285	285	57	-	-	10,72 €	16,76 €	25,53 €
RPP5/295	295	59	✔	-	10,72 €	16,76 €	25,53 €
RPP5/300	300	60	✔	✔	10,99 €	16,76 €	25,83 €
RPP5/305	305	61	-	✔	10,99 €	16,99 €	25,83 €
RPP5/325	325	65	✔	✔	10,99 €	17,28 €	-
RPP5/345	345	69	✔	✔	11,26 €	18,03 €	27,06 €
RPP5/350	350	70	✔	✔	11,26 €	18,03 €	27,06 €
RPP5/375	375	75	✔	✔	11,44 €	18,55 €	27,79 €
RPP5/400	400	80	✔	✔	11,95 €	18,77 €	28,59 €
RPP5/420	420	84	✔	✔	11,95 €	19,02 €	28,84 €
RPP5/425	425	85	-	-	12,26 €	19,54 €	29,57 €
RPP5/450	450	90	✔	✔	12,48 €	19,99 €	30,10 €
RPP5/455	455	91	-	✔	12,48 €	19,99 €	30,10 €
RPP5/460	460	92	✔	✔	12,48 €	19,99 €	-
RPP5/465	465	93	-	-	12,48 €	20,30 €	30,35 €
RPP5/475	475	95	-	✔	12,71 €	20,30 €	30,63 €
RPP5/500	500	100	✔	✔	13,00 €	21,06 €	31,35 €

*Depending on availability - Dimensions in mm

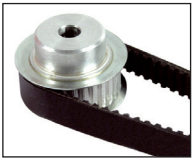
Part number	Length	N° of teeth	Stock* 9mm	Stock* 15mm	Price each 1 to 5 for a width of 9mm	15mm	25mm
RPP5/525	525	105	-	✔	13,23 €	21,30 €	31,84 €
RPP5/535	535	107	-	✔	13,76 €	21,56 €	32,41 €
RPP5/565	565	113	✔	✔	13,76 €	22,06 €	33,64 €
RPP5/575	575	115	-	✔	13,96 €	22,06 €	33,64 €
RPP5/580	580	116	-	✔	13,96 €	22,32 €	-
RPP5/600	600	120	-	-	14,26 €	22,78 €	34,39 €
RPP5/610	610	122	-	-	14,46 €	23,05 €	34,91 €
RPP5/615	615	123	-	-	14,74 €	23,32 €	-
RPP5/635	635	127	-	-	14,74 €	23,32 €	35,64 €
RPP5/640	640	128	✔	-	15,02 €	24,02 €	35,89 €
RPP5/670	670	134	✔	-	15,27 €	24,32 €	36,63 €
RPP5/675	675	135	-	-	15,27 €	24,32 €	36,63 €
RPP5/700	700	140	-	-	15,77 €	25,07 €	37,89 €
RPP5/705	705	141	-	-	15,77 €	25,07 €	-
RPP5/710	710	142	-	-	15,77 €	25,25 €	37,89 €
RPP5/725	725	145	-	-	16,01 €	25,60 €	38,39 €
RPP5/740	740	148	-	-	16,26 €	25,83 €	38,69 €
RPP5/750	750	150	-	✔	16,26 €	25,83 €	38,92 €
RPP5/755	755	151	✔	-	16,26 €	25,83 €	38,92 €
RPP5/800	800	160	-	✔	16,76 €	26,82 €	40,38 €
RPP5/835	835	167	✔	✔	16,99 €	27,36 €	41,17 €
RPP5/850	850	170	✔	-	17,52 €	27,79 €	41,95 €
RPP5/890	890	178	-	-	18,03 €	28,59 €	43,22 €
RPP5/900	900	180	-	-	18,03 €	28,84 €	43,40 €
RPP5/935	935	187	-	✔	18,55 €	29,35 €	44,22 €
RPP5/940	940	188	-	-	18,55 €	29,57 €	44,92 €
RPP5/950	950	190	-	-	18,77 €	29,85 €	45,21 €
RPP5/980	980	196	-	-	19,02 €	30,35 €	45,70 €
RPP5/1000	1000	200	-	-	19,54 €	31,11 €	46,71 €
RPP5/1025	1025	205	-	-	19,99 €	31,35 €	-
RPP5/1050	1050	210	-	-	20,30 €	31,84 €	48,21 €
RPP5/1100	1100	220	-	-	20,79 €	32,67 €	49,99 €
RPP5/1125	1125	225	✔	✔	21,30 €	33,36 €	50,97 €
RPP5/1135	1135	227	-	-	21,42 €	34,11 €	51,98 €
RPP5/1195	1195	239	-	-	21,56 €	35,09 €	-
RPP5/1200	1200	240	-	-	22,06 €	35,64 €	53,26 €
RPP5/1240	1240	248	-	-	22,32 €	35,89 €	54,03 €
RPP5/1270	1270	254	-	-	22,78 €	35,89 €	54,79 €
RPP5/1420	1420	284	✔	-	24,55 €	39,20 €	59,30 €
RPP5/1595	1595	319	-	-	26,82 €	42,67 €	64,54 €
RPP5/1690	1690	338	✔	-	27,60 €	44,22 €	66,34 €
RPP5/1790	1790	358	-	-	29,35 €	46,44 €	70,37 €
RPP5/1800	1800	360	-	✔	29,57 €	46,71 €	70,37 €
RPP5/1870	1870	374	-	-	30,35 €	47,95 €	-
RPP5/1895	1895	379	-	-	30,79 €	48,72 €	73,39 €
RPP5/1945	1945	389	✔	-	31,11 €	49,20 €	-
RPP5/2000	2000	400	✔	-	31,84 €	50,72 €	76,63 €
RPP5/2250	2250	450	-	✔	35,64 €	56,01 €	91,00 €
RPP5/2525	2525	505	✔	✔	38,69 €	61,01 €	92,25 €

*Depending on availability - Dimensions in mm

RPP timing belt

Pitch RPP8

Chloroprene rubber belt with glass fibre tension members



- **To be used with HTD8M pulley**
- Pitch 8mm
- Efficiency: up to 98%
- Materials:
  Chloroprene rubber reinforced with glass fibres
  nylon protective film

Advantages

- **Shock-resistant**
- The RPP parabolic tooth profile gives a higher torque capability and greater resistance to tooth jump

Accessories

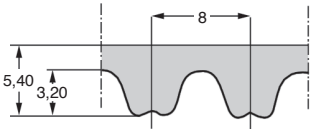
- **HTD8** pulleys **(tome 4 p.18)**
- **GTC** belt tension rollers **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	N° of teeth	Stock* 20mm	Stock* 30mm	Price each 1 to 5 for a width of 20mm	30mm	50mm
RPP8/288	288	36	-	-	13,76 €	21,30 €	36,15 €
RPP8/320	320	40	-	-	14,74 €	23,05 €	38,39 €
RPP8/352	352	44	-	-	15,77 €	24,55 €	41,39 €
RPP8/360	360	45	-	-	16,26 €	25,07 €	42,67 €
RPP8/384	384	48	✔	-	17,28 €	26,82 €	45,39 €
RPP8/408	408	51	-	-	18,55 €	28,59 €	48,43 €
RPP8/456	456	57	✔	-	21,06 €	32,33 €	54,79 €
RPP8/480	480	60	-	-	22,06 €	34,11 €	57,78 €
RPP8/536	536	67	✔	-	23,82 €	36,36 €	61,01 €
RPP8/544	544	68	-	-	25,07 €	38,14 €	64,29 €
RPP8/560	560	70	✔	-	25,25 €	38,69 €	65,53 €
RPP8/600	600	75	-	✔	26,32 €	39,66 €	67,05 €
RPP8/608	608	76	-	-	26,53 €	40,18 €	68,06 €
RPP8/632	632	79	✔	-	26,82 €	40,38 €	69,31 €
RPP8/640	640	80	-	-	27,60 €	41,67 €	70,81 €
RPP8/680	680	85	-	-	28,13 €	42,67 €	72,63 €
RPP8/720	720	90	✔	-	29,85 €	45,21 €	76,63 €
RPP8/800	800	100	-	-	31,57 €	48,43 €	82,45 €
RPP8/840	840	105	✔	-	32,86 €	49,99 €	84,71 €
RPP8/880	880	110	-	-	33,64 €	51,27 €	86,45 €
RPP8/896	896	112	-	-	33,89 €	51,51 €	87,71 €
RPP8/920	920	115	-	-	34,87 €	52,97 €	89,97 €
RPP8/960	960	120	✔	-	36,15 €	54,79 €	92,97 €

*Depending on availability - Dimensions in mm



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

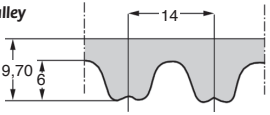
Part number	Length	N° of teeth	Stock* 20mm	Stock* 30mm	Price each 1 to 5 for a width of 20mm	30mm	50mm
RPP8/1000	1000	125	-	-	37,41 €	56,24 €	95,77 €
RPP8/1040	1040	130	-	-	38,86 €	58,52 €	99,49 €
RPP8/1080	1080	135	-	-	39,88 €	60,30 €	102,78 €
RPP8/1120	1120	140	-	-	40,89 €	62,28 €	105,77 €
RPP8/1200	1200	150	-	-	43,40 €	65,53 €	111,09 €
RPP8/1224	1224	153	-	-	44,22 €	66,84 €	113,38 €
RPP8/1280	1280	160	-	-	45,70 €	69,31 €	117,10 €
RPP8/1352	1352	169	-	-	46,44 €	70,62 €	119,65 €
RPP8/1424	1424	178	-	-	48,75 €	75,04 €	124,88 €
RPP8/1440	1440	180	-	-	49,49 €	75,35 €	127,70 €
RPP8/1464	1464	183	-	-	51,70 €	78,66 €	132,74 €
RPP8/1600	1600	200	✔	-	54,03 €	81,46 €	138,53 €
RPP8/1680	1680	210	-	-	56,01 €	84,94 €	144,03 €
RPP8/1760	1760	220	-	-	58,04 €	88,52 €	149,60 €
RPP8/1800	1800	225	-	-	59,30 €	89,97 €	152,89 €
RPP8/2000	2000	250	-	-	65,53 €	99,28 €	167,69 €
RPP8/2200	2200	275	-	-	71,10 €	107,58 €	182,27 €
RPP8/2272	2272	284	-	-	73,44 €	110,01 €	186,74 €
RPP8/2400	2400	300	-	-	76,90 €	116,35 €	196,87 €
RPP8/2520	2520	315	-	-	78,93 €	119,65 €	202,65 €
RPP8/2600	2600	325	-	-	81,46 €	123,41 €	209,25 €
RPP8/2800	2800	350	-	-	87,96 €	132,74 €	225,32 €
RPP8/3048	3048	381	-	-	102,78 €	156,62 €	263,02 €
RPP8/3280	3280	410	-	-	110,58 €	168,24 €	282,38 €
RPP8/3600	3600	450	-	-	121,45 €	184,33 €	311,12 €
RPP8/4400	4400	550	-	-	148,13 €	225,32 €	380,56 €

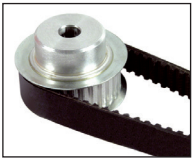
*Depending on availability - Dimensions in mm

Pitch RPP14

Chloroprene rubber belt with glass fibre tension members

- ***To be used with HTD14M pulley***
- *Pitch 14mm*
- *Efficiency: up to 98%*
- *Materials: chloroprene rubber reinforced with glass fibres nylon protective film*





Advantages

- ***Shock-resistant***
- *The RPP parabolic tooth profile gives a higher torque capability and greater resistance to tooth jump*

Accessories

- **HTD8** *pulleys* **(tome 4 p.21)**
- **GTC** *belt tension rollers* **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	N° of teeth	Price each 1 to 5 for a width of 55mm	85mm
RPP14/966	966	69	241,69 €	395,36 €
RPP14/994	994	71	243,16 €	398,42 €
RPP14/1092	1092	78	244,44 €	401,64 €
RPP14/1106	1106	79	247,71 €	406,96 €
RPP14/1190	1190	85	260,53 €	408,48 €
RPP14/1260	1260	90	261,80 €	410,22 €
RPP14/1288	1288	92	264,56 €	414,75 €
RPP14/1344	1344	96	273,65 €	432,84 €
RPP14/1400	1400	100	284,88 €	446,43 €
RPP14/1442	1442	103	293,48 €	459,78 €
RPP14/1568	1568	112	303,04 €	471,35 €
RPP14/1610	1610	115	311,12 €	483,95 €
RPP14/1764	1764	126	331,43 €	510,08 €
RPP14/1778	1778	127	335,25 €	514,12 €
RPP14/1848	1848	132	340,24 €	520,40 €
RPP14/1890	1890	135	347,80 €	532,20 €
RPP14/1904	1904	136	350,36 €	536,28 €
RPP14/1960	1960	140	352,58 €	538,71 €
RPP14/2100	2100	150	372,24 €	577,04 €
RPP14/2240	2240	160	383,30 €	582,30 €
RPP14/2310	2310	165	395,36 €	600,43 €
RPP14/2380	2380	170	399,39 €	619,79 €
RPP14/2450	2450	175	408,48 €	637,88 €
RPP14/2590	2590	185	419,81 €	655,99 €
RPP14/2660	2660	190	431,10 €	689,00 €
RPP14/2800	2800	200	453,77 €	725,22 €
RPP14/2968	2968	212	471,51 €	734,38 €
RPP14/3150	3150	225	489,22 €	743,51 €
RPP14/3360	3360	240	521,40 €	792,60 €
RPP14/3500	3500	250	525,93 €	818,27 €
RPP14/3850	3850	275	570,72 €	886,95 €
RPP14/3920	3920	280	572,72 €	903,04 €
RPP14/4326	4326	309	632,13 €	973,23 €
RPP14/4578	4578	327	662,04 €	1 021,34 €
RPP14/4956	4956	354	707,59 €	1 099,75 €

Dimensions in mm

MINIMUM ORDER 20€*

FREE DELIVERY FOR ORDERS 100€* OR MORE

VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

FAST QUOTES & ORDERS

FREE CATALOGUES

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

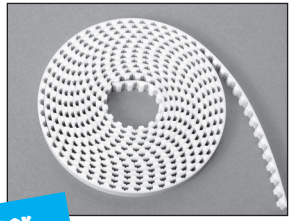
DELIVERY 24/48 H*

* Certain conditions apply - Deliveries to mainland France only

RPP type belt by the metre

Pitch
RPP5
RPP8
RPP14

Polyurethane with steel core



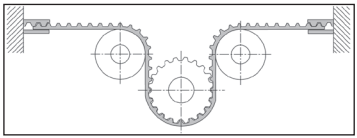
- **For linear movements**
- 5mm, 8mm and 14mm pitches
- Fixed using rigid connecting plate

For linear positioning

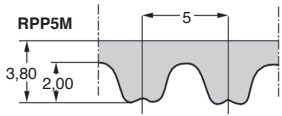
Applications
- Reciprocating movements

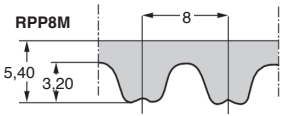
Info.
- Minimum length 1000mm
- Supplied in multiples of 1 metre
- When ordering, add the length (L) and width (l)to the part number **(RPP5M/L/l)**
  E.g. : **RPP5M/1000/15**

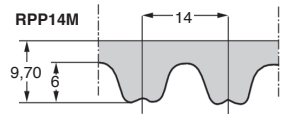
Accessoires
- **RPP.../P** connecting plates **(tome 4 p.33)**
- **HTD** pulleys **(tome 4 p.15)**



Typical application







DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

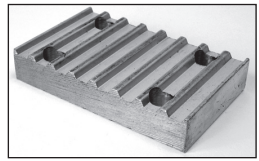
Part number	Pitch	Price each 1 to 5 per metre for widths of 15mm	20mm	25mm	30mm	50mm	55mm	85mm
RPP5M	RPP5	29,40 €	-	53,85 €	-	-	-	-
RPP8M	RPP8		48,66 €	-	48,73 €	74,61 €	-	-
RPP14M	RPP14	-	-	-	-	-	127,94 €	211,52 €

Dimensions in mm

For open belts RPP5M, RPP8M and RPP14M

Pitch RPP5 RPP8 RPP14

- **For linear movements**
- 5mm,8mm and 14mm pitches
- Rigid connecting plates
- Material : aluminium

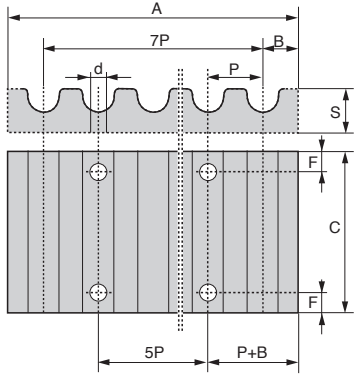


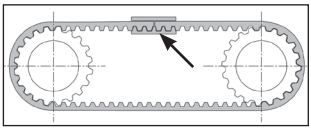
Applications

- For closing an open belt
- To attach an open belt to a structure

Accessories

- **RPP../P** belts **(tome 4 p.32)**
- **HTD** pulleys **(tome 4 p.15)**





Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

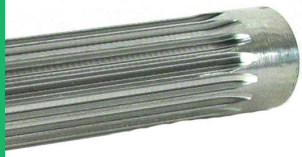
Part number	Pitch	F	d	B	A	S	C	Belt width	Stock*	Price each 1 to 5
RPP5/15P	RPP5	6	5,5	3,25	41,5	8	34	15	✔	12,87 €
RPP5/25P	RPP5	6	5,5	3,25	41,5	8	44	25	✔	12,59 €
RPP8/20P	RPP8	8	9,0	5,00	66,0	15	45	20	-	19,95 €
RPP8/30P	RPP8	8	9,0	5,00	66,0	15	55	30	-	21,05 €
RPP8/50P	RPP8	8	9,0	5,00	66,0	15	75	50	-	23,37 €
RPP14/55P	RPP14	10	11,0	9,00	116,0	22	86	55	-	54,19 €
RPP14/85P	RPP14	10	11,0	9,00	116,0	22	116	85	-	72,00 €

*Depending on availability - Dimensions in mm

TOOTHED BAR STOCK

p.36

T TYPE TOOTHED TIMING PULLEY BAR STOCK



p.38

T-TYPE TIMING PULLEY

Economy range

p.41

T-TYPE TIMING PULLEY

Economy range

p.42

T-TYPE TIMING PULLEY

p.44

T-TYPE TIMING BELT

p.53

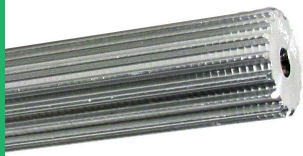
PULLEYS AND TIMING BELT (POSITIONING)

P. 36-89

T-TYPE TIMING BELT PER METRE

p.58

AT TYPE TIMING PULLEY BAR STOCK



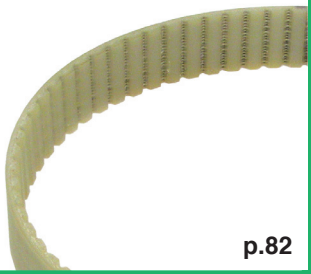
p.60

AT-TYPE TIMING PULLEY

Economy range

p.62

AT-TYPE TIMING BELT

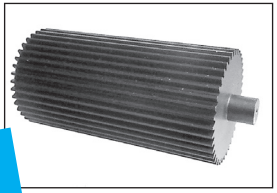


p.82

AAG ABG

Aluminium or brass

- ***Bar stock with teeth machined to your requirements***
- *All types tooth form*
  Spur or helical gear
  module 0.4 to module 2
  Pulley pitch 2.5mm to 5mm
- *Bar diameter 20mm to 100mm*
- *Precision class 9*



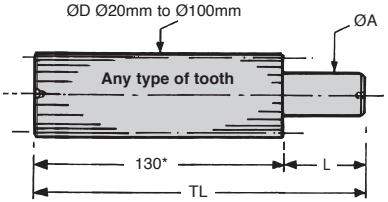
Choose your tooth form

Option

- *Stainless steel 303*

Info.

- *For toothed bars in helical form, face width will be 115mm
- ** Dimensions ØA and L are not guaranteed and are given as a guide only
- *These bars are not kept in stock but are manufactured to order*



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Aluminium 6082

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
AAG2	20 and 30	30	160	12	On request
AAG3	31 and 40	30	160	15	
AAG4	41 and 50	40	170	20	
AAG5	51 and 60	40	170	25	
AAG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

Brass CZ121

Part number	ØD between	L	TL	Boss ØA	Price each 1 to 5
ABG2	20 and 30	30	160	12	On request
ABG3	31 and 40	30	160	15	
ABG4	41 and 50	40	170	20	
ABG5	51 and 60	40	170	25	
ABG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

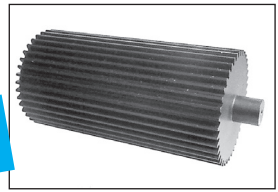
Dimensions in mm

Steel or Delrin

ASG
ADG

- ***Bar stock with teeth machined to your requirements***
- *All types tooth form*
  Spur or helical gear
  module 0.4 to module 2
  Pulley pitch 2.5mm to 5mm
- *Bar diameter 20mm to 100mm*
- *Precision class 9*

Choose your tooth form

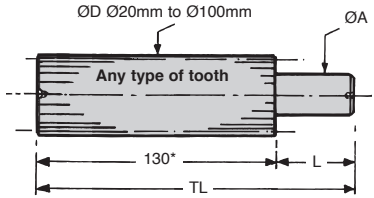


Option

- *Stainless steel 303*

Info.

- **For toothed bars in helical form, face width will be 115mm*
- *** Dimensions ØA and L are not guaranteed and are given as a guide only*
- *These bars are not kept in stock but are manufactured to order*



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Steel 20NCD2

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
ASG2	20 and 30	30	160	12	On request
ASG3	31 and 40	30	160	15	
ASG4	41 and 50	40	170	20	
ASG5	51 and 60	40	170	25	
ASG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

Delrin

Part number	ØD between	L	TL	Boss ØA	Price each 1 to 5
ADG2	20 and 30	30	160	12	On request
ADG3	31 and 40	30	160	15	
ADG4	41 and 50	40	170	20	
ADG5	51 and 60	40	170	25	
ADG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

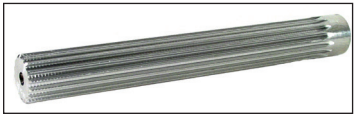
Dimensions in mm

T type toothed timing pulley bar stock Alu

T2.5-BAR

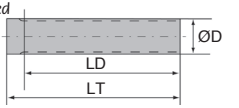
Aluminium

- **Toolthed bar stock to be cut to length by the customer**
- The overall length is the same as the maximum length
- Material : Aluminium suitable for hard anodic oxidation
- Finish : Supplied not-treated



Info.

- We are unable to modify this product



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Z Teeth	ØD External	Length of teeth L_D	Total length L_T	Price each
10T2.5-BAR	10	7,45	50	75	3,01 €
12T2.5-BAR	12	9,00	50	75	3,06 €
13T2.5-BAR	13	9,80	50	75	3,16 €
14T2.5-BAR	14	10,60	50	75	3,37 €
15T2.5-BAR	15	11,40	50	75	3,46 €
16T2.5-BAR	16	12,20	50	75	3,62 €
17T2.5-BAR	17	13,00	50	75	3,70 €
18T2.5-BAR	18	13,80	50	75	3,95 €
19T2.5-BAR	19	14,60	90	120	7,13 €
20T2.5-BAR	20	15,40	90	120	7,50 €
21T2.5-BAR	21	16,20	90	120	7,97 €
22T2.5-BAR	22	17,00	125	140	10,53 €
24T2.5-BAR	24	18,55	125	140	11,16 €
26T2.5-BAR	26	20,15	125	140	12,68 €
27T2.5-BAR	27	20,95	125	140	12,77 €
28T2.5-BAR	28	21,75	125	140	13,13 €
29T2.5-BAR	29	22,55	125	140	13,93 €
30T2.5-BAR	30	23,35	125	140	14,00 €
32T2.5-BAR	32	24,95	125	140	15,23 €
34T2.5-BAR	34	26,55	125	140	15,83 €
35T2.5-BAR	35	27,35	132	140	16,93 €
36T2.5-BAR	36	28,10	132	140	18,07 €
38T2.5-BAR	38	29,70	140	140	18,50 €
40T2.5-BAR	40	31,30	140	140	19,79 €
42T2.5-BAR	42	32,90	140	140	22,05 €
44T2.5-BAR	44	34,50	140	140	24,53 €
45T2.5-BAR	45	35,30	140	140	25,01 €
48T2.5-BAR	48	37,70	140	140	26,37 €
50T2.5-BAR	50	39,29	160	160	32,10 €
60T2.5-BAR	60	47,25	160	160	41,35 €
65T2.5-BAR	65	51,20	160	160	47,77 €
70T2.5-BAR	70	55,20	160	160	52,20 €
72T2.5-BAR	72	56,80	160	160	55,02 €
90T2.5-BAR	90	71,12	160	160	79,67 €
100T2.5-BAR	100	79,08	160	160	106,35 €

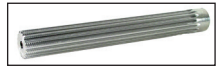
Dimensions in mm

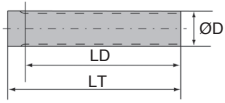
Alu T type toothed timing pulley bar stock

Aluminium

T5-BAR

- ***Toothed bar stock to be cut to length by the customer***
- *The overall length is the same as the maximum length*
- *Material : Aluminium suitable for hard anodic oxidation*
- *Finish : Supplied not-treated*





Info.

- *We are unable to modify this product*

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

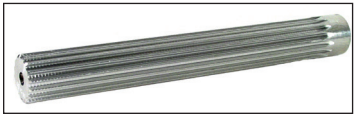
Part number	Z Teeth	ØD External	Length of teeth L_D	Total length L_T	Price each
10T5-BAR	10	15,05	125	140	8,80 €
11T5-BAR	11	16,65	125	140	9,51 €
12T5-BAR	12	18,25	125	140	10,34 €
13T5-BAR	13	19,85	125	140	10,34 €
14T5-BAR	14	21,45	140	140	12,06 €
15T5-BAR	15	23,05	140	140	13,05 €
16T5-BAR	16	24,60	140	140	14,60 €
17T5-BAR	17	26,20	140	140	15,44 €
18T5-BAR	18	27,00	140	140	17,01 €
19T5-BAR	19	29,40	140	140	18,49 €
20T5-BAR	20	31,00	160	160	21,14 €
21T5-BAR	21	32,70	160	160	22,01 €
22T5-BAR	22	34,15	160	160	24,49 €
23T5-BAR	23	35,85	160	160	24,74 €
24T5-BAR	24	37,40	160	160	26,47 €
25T5-BAR	25	38,95	160	160	28,41 €
26T5-BAR	26	40,60	160	160	31,33 €
27T5-BAR	27	42,20	160	160	31,50 €
28T5-BAR	28	43,75	160	160	34,55 €
29T5-BAR	29	45,35	160	160	34,83 €
30T5-BAR	30	46,95	160	160	37,06 €
32T5-BAR	32	50,10	160	160	42,97 €
34T5-BAR	34	53,25	160	160	46,88 €
35T5-BAR	35	54,85	160	160	47,23 €
36T5-BAR	36	56,45	160	160	49,89 €
37T5-BAR	37	58,06	160	160	52,62 €
38T5-BAR	38	59,65	160	160	52,91 €
40T5-BAR	40	62,85	160	160	57,35 €
42T5-BAR	42	66,00	160	160	62,24 €
44T5-BAR	44	69,20	160	160	72,69 €
45T5-BAR	45	70,80	160	160	73,26 €
46T5-BAR	46	72,40	160	160	73,84 €
48T5-BAR	48	75,55	160	160	81,88 €
50T5-BAR	50	78,75	160	160	91,27 €
60T5-BAR	60	94,65	160	160	122,84 €
72T5-BAR	72	113,75	160	160	172,41 €
80T5-BAR	80	126,48	160	160	201,15 €
90T5-BAR	90	142,40	160	160	264,47 €
100T5-BAR	100	158,31	160	160	349,26 €

Dimensions in mm

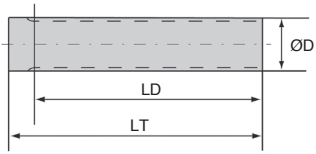
T type toothed timing pulley bar stock Alu

T10-BAR

Aluminium



- ***Toothed bar stock to be cut to length by the customer***
- *The overall length is the same as the maximum length*
- *Material : Aluminium suitable for hard anodic oxidation*
- *Finish : Supplied not-treated*



Info.

- *We are unable to modify this product*

Accessories

- **T10** *belt* ***(tome 4 p.56)***

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Z Teeth	ØD External	Length of teeth L_D	Total length L_T	Price each
10T10-BAR	10	29,98	140	140	16,26 €
11T10-BAR	11	33,16	140	140	18,91 €
12T10-BAR	12	36,35	140	140	21,91 €
13T10-BAR	13	39,55	140	140	23,58 €
14T10-BAR	14	42,70	140	140	29,71 €
15T10-BAR	15	45,90	140	140	32,96 €
16T10-BAR	16	49,10	160	160	37,31 €
17T10-BAR	17	52,25	160	160	40,89 €
18T10-BAR	18	55,45	160	160	44,87 €
19T10-BAR	19	58,65	160	160	50,20 €
20T10-BAR	20	61,80	160	160	54,41 €
21T10-BAR	21	65,00	160	160	59,12 €
22T10-BAR	22	68,15	160	160	69,74 €
23T10-BAR	23	71,35	160	160	70,36 €
24T10-BAR	24	74,55	160	160	78,55 €
26T10-BAR	26	80,90	160	160	88,03 €
28T10-BAR	28	87,25	160	160	97,91 €
30T10-BAR	30	93,65	160	160	118,64 €
32T10-BAR	32	100,00	160	160	130,33 €
34T10-BAR	34	106,40	160	160	142,42 €
36T10-BAR	36	112,75	160	160	158,31 €
38T10-BAR	38	119,10	160	160	181,26 €
40T10-BAR	40	125,45	160	160	195,64 €
45T10-BAR	45	141,40	160	160	258,29 €
48T10-BAR	48	150,95	160	160	282,06 €
60T10-BAR	60	189,15	160	160	464,61 €
72T10-BAR	72	227,29	160	160	689,03 €

Dimensions in mm

Size XS Eco

T-type timing pulley

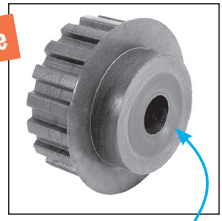
Moulded nylon PA6

Pitch T2.5

Belt width 6mm

- **Positioning pulley**
- Pitch 2.5mm (T2.5)
- Material:
  Moulded PA6 nylon reinforced with 30% glass fibre
- **We are unable to modify these parts**

Economy range



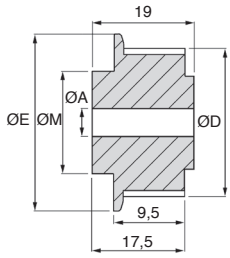
ØA: Pilot bore must be finished

Info

- Moulded pre-bore must be machined to suit the application
- *Pilot bore dimension given as a guide only

Accessories

- T2,5 belt *(tome 4 p.53)*



1 flange

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-12%	-25%	-33%	-37%	On request

Part number	Z teeth	ØD	ØM	Pilot bore not guaranteed ØA*(mm)	ØE	Stock*	Price each 1 to 5
10T2.5-10-N1F	10	7,40	12	3	12	✔	5,45 €
12T2.5-10-N1F	12	9,00	12	3	12	✔	5,45 €
15T2.5-10-N1F	15	11,40	12	2	15	-	On request
16T2.5-10-N1F	16	12,18	12	2	16	✔	On request
22T2.5-10-N1F	22	17,00	14	4	22	-	On request
25T2.5-10-N1F	25	19,35	14	3	24	-	On request
26T2.5-10-N1F	26	20,14	16	4	26	-	On request
30T2.5-10-N1F	30	23,35	18	5	30	✔	9,05 €
32T2.5-10-N1F	32	24,95	18	5	32	-	On request
33T2.5-10-N1F	33	25,70	18	5	32	-	On request

*Depending on availability - Dimensions in mm

T-type timing pulley

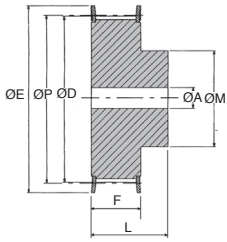
Stock* Alu Eco

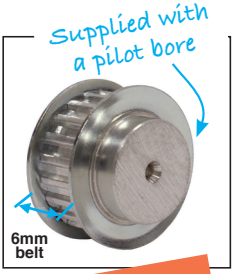
Pitch T2,5

Aluminium

For 6mm belts

- **For use with T2.5 belts**
- Pitch 2.5mm
- Material: Aluminium





Economy range

Info

- Pilot bore size given as indication, may vary between batches.
- Will require re-machining by customer
- **We are unable to modify this product**

Accessories

- T2.5 belts **(tome 4 p.53)**
- GTC tension rollers **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No. of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore no guaranteed ØA*	Stock*	Price each 1 to 5
12T2.5-10/ECO	12	9,60	9,00	13	13	9	16	solid	✔	6,19 €
14T2.5-10/ECO	14	11,20	10,60	15	15	9	16	solid	✔	6,31 €
15T2.5-10/ECO	15	12,00	11,40	15	15	9	16	solid	-	6,67 €
16T2.5-10/ECO	16	12,80	12,20	16	16	9	16	solid	✔	7,32 €
18T2.5-10/ECO	18	14,40	13,80	17,5	10	10	16	solid	-	6,24 €
19T2.5-10/ECO	19	15,20	14,60	20	10	10	16	solid	-	6,85 €
20T2.5-10/ECO	20	16,00	15,40	20	11	10	16	solid	✔	6,82 €
22T2.5-10/ECO	22	17,60	17,00	22	11	10	16	solid	✔	6,26 €
24T2.5-10/ECO	24	19,15	18,55	22	12	10	16	4	✔	7,35 €
25T2.5-10/ECO	25	19,95	19,35	25	13	10	16	4	✔	7,44 €
26T2.5-10/ECO	26	20,75	20,15	26	14	10	16	4	✔	7,73 €
28T2.5-10/ECO	28	22,35	21,75	26	14	10	16	4	✔	8,08 €
30T2.5-10/ECO	30	23,95	23,35	26	16	10	16	6	✔	8,42 €
32T2.5-10/ECO	32	25,55	24,95	32	16	10	16	6	✔	6,46 €
36T2.5-10/ECO	36	28,75	28,10	36	20	10	16	6	✔	7,07 €
40T2.5-10/ECO	40	31,90	31,30	38	22	10	16	6	✔	7,63 €
44T2.5-10/ECO	44	35,10	34,50	-	24	10	16	6	✔	8,67 €
48T2.5-10/ECO	48	38,30	37,70	-	26	10	16	6	✔	7,92 €
60T2.5-10/ECO	60	47,85	47,25	-	34	10	16	8	✔	10,54 €

*Depending on availability - Dimensions in mm

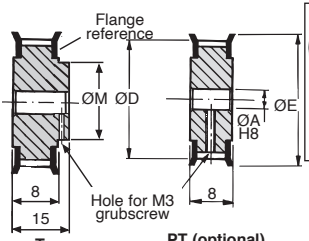
T-type timing pulley

Aluminium

Pitch T2.5

Belt width 4mm

- **Pitch 2.5mm**
- Materials:
  Pulley: Aluminium 6082
  Flanges: Aluminum for pulleys with up to 84 teeth, steel for 85 teeth or more
- All pulleys have flanges



Options

- **Choose from 10 to 230 teeth**

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

PT (optional)

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	Ø PCD	ØD	ØM	ØA	Flange ref.	ØE	Price each 1 to 5 T	Price each 1 to 5 PT
10T2.5-8	10	7,96	7,40	13	3	10 X,Y	13,00	On request	On request
12T2.5-8	12	9,55	9,00	13	3	10 X,Y	13,00		
14T2.5-8	14	11,14	10,60	18	3	16 X,Y	18,00		
15T2.5-8	15	11,94	11,40	18	3	16 X,Y	18,00		
16T2.5-8	16	12,73	12,20	18	4	16 X,Y	18,00		
18T2.5-8	18	14,32	13,80	18	4	31 X,Y	18,00		
19T2.5-8	19	15,12	14,60	20	4	32 X,Y	20,00		
20T2.5-8	20	15,92	15,40	20	4	32 X,Y	20,00		
21T2.5-8	21	16,71	16,20	20	4	32 X,Y	20,00		
22T2.5-8	22	17,51	17,00	20	4	32 X,Y	20,00		
24T2.5-8	24	19,10	18,55	13	4	12 XL	25,15		
25T2.5-8	25	19,89	19,35	13	4	12 XL	25,15		
26T2.5-8	26	20,69	20,15	13	5	12 XL	25,15		
30T2.5-8	30	23,87	23,35	20	5	16 XL	31,74		
31T2.5-8	31	24,67	24,15	20	5	18 XL	34,80		
32T2.5-8	32	25,46	24,95	20	5	18 XL	34,80		
40T2.5-8	40	31,83	31,30	24	6	21XL	39,68		
44T2.5-8	44	35,01	34,50	24	6	21XL	39,68		
48T2.5-8	48	38,20	37,70	24	6	24XL	44,70		
52T2.5-8	52	41,38	40,85	24	6	24XL	44,70		
57T2.5-8	57	45,36	44,85	24	6	28XL	51,05		
60T2.5-8	60	47,75	47,25	24	6	30XL	54,36		
80T2.5-8	80	63,66	63,16	24	6	17H	74,61		
84T2.5-8	84	66,85	66,35	24	6	18H	79,38		
↓	**Pulleys available up to this size**							↓	
230T2,5-8	**230**	**Dimensions : contact us**							

Dimensions in mm

T-type timing pulley

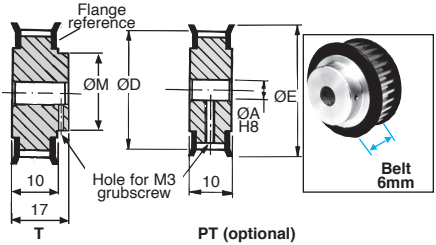
Alu Size XS

Pitch T2.5

Aluminium

Belt width 6mm

- **Pitch 2.5mm**
- Matierials:
  Pulley: Aluminium 6082
  Flanges: Aluminum for pulleys with up to 84 teeth, steel for 85 teeth or more
- All pulleys have flanges



Options

- **Choose from 10 to 230 teeth**

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	Ø PCD	ØD	ØM	ØA	Flange ref.	ØE	Stock*	Price each 1 to 5 T	Price each 1 to 5 PT
10T2.5-10	10	7,96	7,40	13	3	10 X,Y	13,00		On request	On request
12T2.5-10	12	9,55	9,00	13	3	10 X,Y	13,00			
14T2.5-10	14	11,14	10,60	18	3	16 X,Y	18,00			
15T2.5-10	15	11,94	11,40	18	3	16 X,Y	18,00			
16T2.5-10	16	12,73	12,20	18	4	16 X,Y	18,00			
18T2.5-10	18	14,32	13,80	18	4	31 X,Y	18,00			
19T2.5-10	19	15,12	14,60	20	4	32 X,Y	20,00			
20T2.5-10	20	15,92	15,40	20	4	32 X,Y	20,00			
21T2.5-10	21	16,71	16,20	20	4	32 X,Y	20,00			
22T2.5-10	22	17,51	17,00	20	4	32 X,Y	20,00			
24T2.5-10	24	19,10	18,55	13	4	12 XL	25,15			
25T2.5-10	25	19,89	19,35	13	4	12 XL	25,15			
26T2.5-10	26	20,69	20,15	13	5	12 XL	25,15			
30T2.5-10	30	23,87	23,35	20	5	16 XL	31,74			
31T2.5-10	31	24,67	24,15	20	5	18 XL	34,80			
32T2.5-10	32	25,46	24,95	20	5	18 XL	34,80			
40T2.5-10	40	31,83	31,30	24	6	21XL	39,68			
44T2.5-10	44	35,01	34,50	24	6	21XL	39,68			
48T2.5-10	48	38,20	37,70	24	6	24XL	44,70			
52T2.5-10	52	41,38	40,85	24	6	24XL	44,70			
57T2.5-10	57	45,36	44,85	24	6	28XL	51,05			
60T2.5-10	60	47,75	47,25	24	6	30XL	54,36			
80T2.5-10	80	63,66	63,16	24	6	17H	74,61			
84T2.5-10	84	66,85	66,35	24	6	18H	79,38			
↓	**Pulleys available up to this size**								↓	
230T2,5-10	**230**	**Dimensions : contact us**								

*Depending on availabiliity - Dimensions in mm

T-type timing pulley

Aluminium

Pitch T5

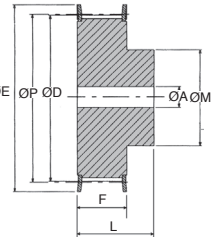
Economy range

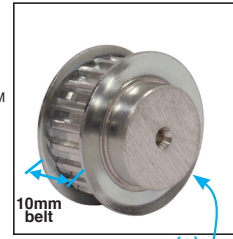
For 10mm belts

- ***For use with T5 belts***
- *Pitch 5mm*
- *Material:*
  Aluminium

Info

- *Pilot bore size given as indication, may vary between batches.*
- *Will require re-machining by customer*
- ***We are unable to modify this products***





Supplied with a pilot bore

Accessories

- ***T5** belts **(tome 4 p.54)***
- ***GTC** tension rollers **(tome 4 p.146)***

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No. of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore no guaranteed ØA*	Stock*	Price each 1 to 5
10T5-15/ECO	10	15,92	15,05	19,5	8	15	21	solid	✔	3,76 €
12T5-15/ECO	12	19,10	18,25	23	11	15	21	solid	✔	4,24 €
14T5-15/ECO	14	22,29	21,45	25	13	15	21	solid	✔	4,75 €
15T5-15/ECO	15	23,88	23,05	28	16	15	21	6	✔	5,18 €
16T5-15/ECO	16	25,47	24,60	32	18	15	21	6	✔	5,67 €
18T5-15/ECO	18	28,65	27,80	32	20	15	21	6	✔	5,94 €
19T5-15/ECO	19	30,25	29,40	36	22	15	21	6	✔	6,49 €
20T5-15/ECO	20	31,83	31,00	36	23	15	21	6	✔	6,75 €
22T5-15/ECO	22	35,02	34,15	38	24	15	21	6	✔	7,58 €
24T5-15/ECO	24	38,21	37,40	42	26	15	21	6	✔	8,10 €
25T5-15/ECO	25	39,80	38,95	44	26	15	21	6	✔	8,93 €
26T5-15/ECO	26	41,39	40,60	44	26	15	21	6	✔	9,53 €
27T5-15/ECO	27	42,98	42,20	48	30	15	21	8	✔	9,96 €
28T5-15/ECO	28	44,58	43,75	48	32	15	21	8	✔	10,43 €
30T5-15/ECO	30	47,76	46,95	51	34	15	21	8	✔	11,27 €
32T5-15/ECO	32	50,94	50,10	54	38	15	21	8	✔	12,51 €
36T5-15/ECO	36	57,31	56,45	64	38	15	21	8	✔	14,63 €
40T5-15/ECO	40	63,66	62,85	66,5	40	15	21	8	✔	16,38 €
42T5-15/ECO	42	66,86	66,00	70	40	15	21	8	-	17,65 €
44T5-15/ECO	44	70,05	69,20	-	45	15	21	8	-	17,49 €
48T5-15/ECO	48	76,42	75,55	-	50	15	21	8	✔	19,79 €
60T5-15/ECO	60	95,52	94,65	-	65	15	21	8	✔	29,55 €

**Depending on availability - Dimensions in mm*

T-type timing pulley

Alu € Eco

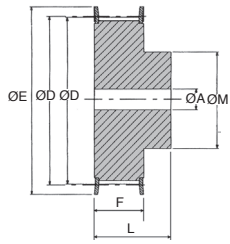
Pitch T5

Aluminium

Economy range

For 16mm belts

- ***For use with T5 belts***
- *Pitch 5mm*
- *Material: Aluminium*



Supplied with a pilot bore

Info

- *Pilot bore size given as indication, may vary between batches.*
- *Will require re-machining by customer*
- ***We are unable to modify this product***

Accessories

- ***T5** belts **(tome 4 p.54)***
- ***GTC** tension rollers **(tome 4 p.146)***

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No. of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore no guaranteed ØA*	Stock*	Price each 1 to 5
10T5-21/ECO	10	15,92	15,05	19,5	8	21	27	solid	✔	4,10 €
12T5-21/ECO	12	19,10	18,25	23	11	21	27	solid	✔	4,86 €
14T5-21/ECO	14	22,29	21,45	25	13	21	27	solid	✔	5,36 €
15T5-21/ECO	15	23,88	23,05	28	16	21	27	6	✔	5,84 €
16T5-21/ECO	16	25,47	24,60	32	18	21	27	6	✔	6,41 €
18T5-21/ECO	18	28,65	27,80	32	20	21	27	6	✔	6,85 €
19T5-21/ECO	19	30,25	29,40	36	22	21	27	6	-	7,57 €
20T5-21/ECO	20	31,83	31,00	36	23	21	27	6	✔	7,89 €
22T5-21/ECO	22	35,02	34,15	38	24	21	27	6	✔	9,05 €
24T5-21/ECO	24	38,21	37,40	42	26	21	27	6	✔	9,64 €
25T5-21/ECO	25	39,80	38,95	44	26	21	27	6	✔	10,25 €
26T5-21/ECO	26	41,39	40,60	44	26	21	27	6	-	11,55 €
27T5-21/ECO	27	42,98	42,20	48	30	21	27	8	✔	11,33 €
28T5-21/ECO	28	44,58	43,75	48	32	21	27	8	-	12,26 €
30T5-21/ECO	30	47,76	46,95	51	34	21	27	8	✔	13,07 €
32T5-21/ECO	32	50,94	50,10	54	38	21	27	8	✔	14,81 €
36T5-21/ECO	36	57,31	56,45	64	38	21	27	8	✔	17,23 €
40T5-21/ECO	40	63,66	62,85	66,5	40	21	27	8	✔	19,48 €
42T5-21/ECO	42	66,86	66,00	70	40	21	27	8	-	20,83 €
44T5-21/ECO	44	70,05	69,20	-	45	21	27	8	✔	21,53 €
48T5-21/ECO	48	76,42	75,55	-	50	21	27	8	-	24,02 €
60T5-21/ECO	60	95,52	94,65	-	65	21	27	8	✔	35,70 €

**Depending on availability - Dimensions in mm*

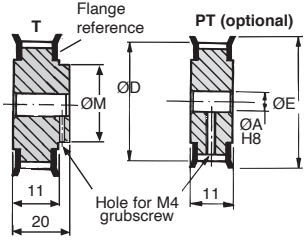
T-type timing pulley

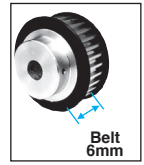
Aluminium

Pitch T5

Belt width 6mm

- **Pitch 5mm**
- Materials:
  Pulley: Aluminium 6082
  Flanges: Aluminum for pulleys with up to 46 teeth, steel for 47 teeth or more
- All pulleys have flanges





Options

- **Choose from 10 to 150 teeth**

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	Flange ref.	ØE (mm)	Price each 1 to 5 T	Price each 1 to 5 PT
10T5-11	10	15,92	15,05	12	5	11XL	23,62	On request	On request
12T5-11	12	19,10	18,25	13	5	12XL	25,15		
14T5-11	14	22,28	21,45	16	5	14XL	28,44		
15T5-11	15	23,87	23,05	16	6	14XL	28,44		
16T5-11	16	25,46	24,60	16	6	14XL	28,44		
17T5-11	17	27,06	26,20	16	6	16XL	31,74		
18T5-11	18	28,65	27,80	20	6	18XL	34,80		
19T5-11	19	30,24	29,40	20	6	18XL	34,80		
20T5-11	20	31,83	31,00	20	6	20XL	38,10		
24T5-11	24	38,20	37,80	25	6	24XL	44,70		
25T5-11	25	39,79	39,00	25	6	24XL	44,70		
30T5-11	30	47,75	46,95	30	8	28XL	51,05		
32T5-11	32	50,93	50,10	30	8	16L	55,56		
36T5-11	36	57,30	56,45	30	8	14H	61,91		
37T5-11	37	58,89	58,05	40	8	15H	66,68		
40T5-11	40	63,66	62,85	40	8	16H	69,85		
45T5-11	45	71,62	70,80	40	8	18H	79,38		
48T5-11	48	76,39	75,55	40	8	19H	82,55		
50T5-11	50	79,58	78,75	60	10	20H	85,73		
56T5-11	56	89,13	88,30	60	10	22H	95,25		
60T5-11	60	95,49	94,65	60	10	24H	103,19		
70T5-11	70	111,41	110,60	60	10	28H	119,06		
80T5-11	80	127,32	126,50	60	10	32H	134,94		
84T5-11	84	133,69	132,85	60	10	33H	139,70		
↓	Pulleys available up to this size							↓	
150T5-11	150	dimensions : contact us							

Dimensions in mm

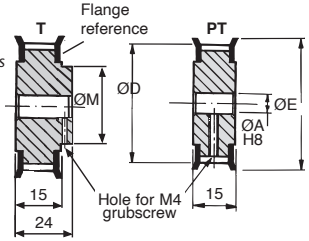
T-type timing pulley

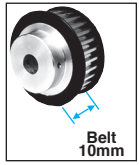
Alu

Pitch T5 — Aluminium

Belt width 10mm

- Pitch 5mm
- Materials:
  Pulley: Aluminium 6082
  Flanges: Aluminum for pulleys with up to 46 teeth, steel for 47 teeth or more
- All pulleys have flanges





Options

- **Choose from 10 to 150 teeth**

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	Flange ref.	ØE (mm)	Price each 1 to 5 T	Price each 1 to 5 PT
10T5-15	10	15,92	15,05	12	5	11XL	23,62	On request	On request
12T5-15	12	19,10	18,25	13	5	12XL	25,15		
14T5-15	14	22,28	21,45	16	5	14XL	28,44		
15T5-15	15	23,87	23,05	16	6	14XL	28,44		
16T5-15	16	25,46	24,60	16	6	14XL	28,44		
17T5-15	17	27,06	26,20	16	6	16XL	31,74		
18T5-15	18	28,65	27,80	20	6	18XL	34,80		
19T5-15	19	30,24	29,40	20	6	18XL	34,80		
20T5-15	20	31,83	31,00	20	6	20XL	38,10		
24T5-15	24	38,20	37,35	25	6	24XL	44,70		
25T5-15	25	39,79	39,00	25	6	24XL	44,70		
30T5-15	30	47,75	46,95	30	8	28XL	51,05		
32T5-15	32	50,93	50,10	30	8	16L	55,56		
36T5-15	36	57,30	56,45	30	8	14H	61,91		
37T5-15	37	58,89	58,05	40	8	15H	66,68		
40T5-15	40	63,66	62,85	40	8	16H	69,85		
45T5-15	45	71,62	70,80	40	8	18H	79,38		
48T5-15	48	76,39	75,55	40	8	19H	82,55		
50T5-15	50	79,58	78,75	60	10	20H	85,73		
56T5-15	56	89,13	88,30	60	10	22H	95,25		
60T5-15	60	95,49	94,65	60	10	24H	103,19		
70T5-15	70	111,41	110,60	60	10	28H	119,06		
80T5-15	80	127,32	126,50	60	10	32H	134,94		
84T5-15	84	133,69	132,85	60	10	33H	139,70		
↓	**Pulleys available up to this size**							↓	
150T5-11	**150**	**dimensions : contact us**							

Dimensions in mm

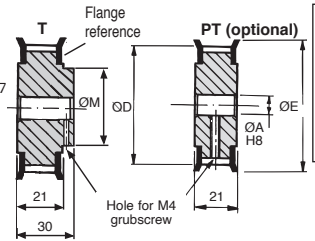
T-type timing pulley

Aluminium

Pitch T5

Belt width 16mm

- **Pitch 5mm**
- *Materials:*
  Pulley: Aluminium 6082
  Flanges: Aluminum for pulleys with up to 46 teeth, steel for 47 teeth or more
- *All pulleys have flanges*



Options

- **Choose from 10 to 150 teeth**

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	Flange ref.	ØE (mm)	Price each 1 to 5 T	Price each 1 to 5 PT
10T5-21	10	15,92	15,05	12	5	11XL	23,62	On request	On request
12T5-21	12	19,10	18,25	13	5	12XL	25,15		
14T5-21	14	22,28	21,45	16	5	14XL	28,44		
15T5-21	15	23,87	23,05	16	6	14XL	28,44		
16T5-21	16	25,46	24,60	16	6	14XL	28,44		
17T5-21	17	27,06	26,20	16	6	16XL	31,74		
18T5-21	18	28,65	27,80	20	6	18XL	34,80		
19T5-21	19	30,24	29,40	20	6	18XL	34,80		
20T5-21	20	31,83	31,00	20	6	20XL	38,10		
24T5-21	24	38,20	37,35	25	6	24XL	44,70		
25T5-21	25	39,79	39,00	25	6	24XL	44,70		
30T5-21	30	47,75	46,95	30	8	28XL	51,05		
32T5-21	32	50,93	50,10	30	8	16L	55,56		
36T5-21	36	57,30	56,45	30	8	14H	61,91		
37T5-21	37	58,89	58,05	40	8	15H	66,68		
40T5-21	40	63,66	62,85	40	8	16H	69,85		
45T5-21	45	71,62	70,80	40	8	18H	79,38		
48T5-21	48	76,39	75,55	40	8	19H	82,55		
50T5-21	50	79,58	78,75	60	10	20H	85,73		
56T5-21	56	89,13	88,30	60	10	22H	95,25		
60T5-21	60	95,49	94,65	60	10	24H	103,19		
70T5-21	70	111,41	110,60	60	10	28H	119,06		
80T5-21	80	127,32	126,50	60	10	32H	134,94		
84T5-21	84	133,69	132,85	60	10	33H	134,94		
↓		**Pulleys available up to this size**						↓	
150T5-21	**150**	**dimensions : contact us**							

Dimensions in mm

T-type timing pulley

Alu | € Eco | Stock

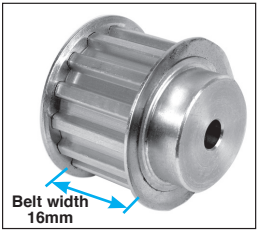
Pitch T10

Belt width 16mm

Aluminium

Economy range

- **Pitch 10mm**
- Materials:
  Pulley: aluminium
  Flanges: steel

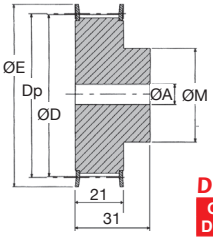


Info.

- **Pilot bore given as a guide only
- **We are unable to modify these parts**

Accessoire

- **T10** belt
  (tome 4 p.56)



DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-12%	-20%	On request

Part number	Z teeth	PCD (mm)	ØD (mm)	ØE (mm)	ØM (mm)	Pilot bore not garanteed ØA**	Stock*	Price each 1 to 5
12T10-21-AL	12	38,35	36,35	42	28	6	✔	8,38 €
14T10-21-AL	14	44,70	42,70	48	32	8	-	10,08 €
15T10-21-AL	15	47,90	45,90	51	32	8	✔	11,32 €
16T10-21-AL	16	51,10	49,10	54	35	8	✔	12,42 €
18T10-21-AL	18	57,45	55,45	60	40	8	✔	14,86 €
19T10-21-AL	19	60,65	58,65	66	44	8	-	15,96 €
20T10-21-AL	20	63,80	61,80	66	46	8	✔	17,20 €
22T10-21-AL	22	70,20	68,20	75	52	8	-	21,72 €
24T10-21-AL	24	76,55	74,55	83	58	8	✔	24,34 €
25T10-21-AL	25	79,75	77,75	83	60	8	-	24,50 €
26T10-21-AL	26	82,90	80,90	87	60	8	-	27,31 €
27T10-21-AL	27	86,10	84,10	91	60	8	-	29,75 €
28T10-21-AL	28	89,25	87,25	93	60	8	-	30,00 €
30T10-21-AL	30	95,65	93,65	102	60	8	-	35,75 €
32T10-21-AL	32	102,00	100,00	106	65	10	-	38,61 €
36T10-21-AL	36	114,75	112,75	119	70	10	✔	45,62 €
40T10-21-AL	40	127,45	125,45	131	80	10	-	56,72 €

*Depending on availability - Dimensions in mm

T-type timing pulley

Aluminium

Pitch T10

Belt width 25mm

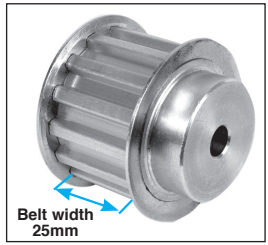
- **Pitch 10mm**
- Materials:
  Pulley: aluminium
  Flanges: steel

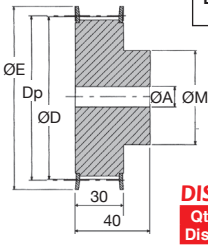
Info.

- **Pilot bore given as a guide only
- **We are unable to modify these parts**

Accessoire

- **T10** belt
  (tome 4 p.56)





Economy range

DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-12%	-20%	On request

Part number	Z teeth	PCD (mm)	ØD (mm)	ØE (mm)	ØM (mm)	Pilot bore not garanteed ØA**	Stock*	Price each 1 to 5
12T10-30-AL	12	38,35	36,35	42	28	6	✔	9,83 €
14T10-30-AL	14	44,70	42,70	48	32	8	✔	12,17 €
15T10-30-AL	15	47,90	45,90	51	32	8	✔	13,38 €
16T10-30-AL	16	51,10	49,10	54	35	8	✔	14,97 €
18T10-30-AL	18	57,45	55,45	60	40	8	✔	17,78 €
19T10-30-AL	19	60,65	58,65	66	44	8	✔	19,30 €
20T10-30-AL	20	63,80	61,80	66	46	8	✔	20,62 €
22T10-30-AL	22	70,20	68,20	75	52	8	-	26,29 €
24T10-30-AL	24	76,55	74,55	83	58	8	-	29,37 €
25T10-30-AL	25	79,75	77,75	83	60	8	-	29,70 €
26T10-30-AL	26	82,90	80,90	87	60	8	-	32,97 €
27T10-30-AL	27	86,10	84,10	91	60	8	-	36,31 €
28T10-30-AL	28	89,25	87,25	93	60	8	✔	36,53 €
30T10-30-AL	30	95,65	93,65	102	60	8	✔	43,38 €
32T10-30-AL	32	102,00	100,00	106	65	10	-	47,15 €
36T10-30-AL	36	114,75	112,75	119	70	10	✔	55,69 €
40T10-30-AL	40	127,45	125,45	131	80	10	✔	69,31 €

*Depending on availability - Dimensions in mm

Nylon T-type timing pulley

Pla Eco

Pitch T10

Nylon PA6 moulded

Belt width 16mm

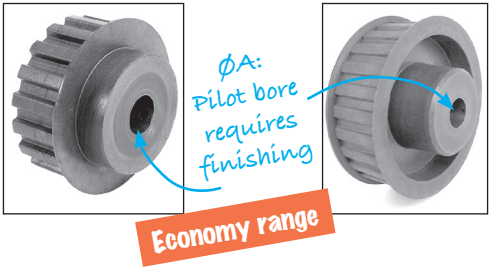
- **Positioning pulley**
- Pitch 10mm (T10)
- Material: Moulded PA6 nylon reinforced with 30% glass fibre
- We are unable to modify these parts

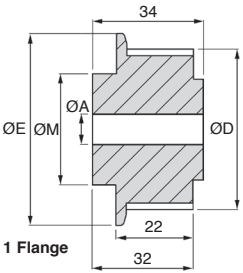
Info

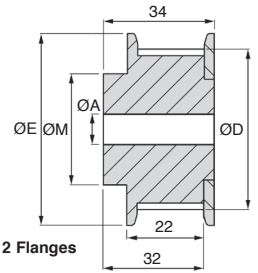
- ** Pilot bore not guaranteed

Accessories

- **T10** belt **(tome 4 p.56)**







DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-12%	-25%	-33%	-37%	On request

Part number 1 flange	Part number 2 flanges	Z teeth	ØD (mm)	ØM (mm)	Pilot bore** ØA (mm)	ØE (mm)	Price each 1 to 5 1 flange	Price each 1 to 5 2 flanges
-	18T10-21-N2F	18	55,45	40	13	60	-	14,35 €
-	20T10-21-N2F	20	61,80	40	12	67	-	18,42 €
-	24T10-21-N2F	24	74,75	40	13	83	-	On request
30T10-21-N1F	-	30	93,65	50	14	99	19,94 €	-
32T10-21-N1F	-	32	100,00	50	14	105	On request	-

Dimensions in mm

T-type timing belt

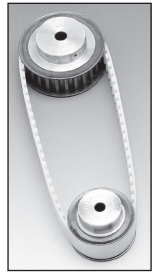
Steel cored polyurethane

Pitch T2.5

- **Pitch 2.5mm**
- Working temp. -30°C to +80°C
- Max. speed 40m/s
- Efficiency: up to 98%

SINGLE SIDED

Din 7721

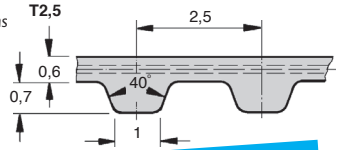


Options

- Belt by the metre **T2.5M**
- Alternative lengths/widths

Info

- When ordering, add the width to the part number Eg: **T2.5/120/4**



Compatible with T2.5 pulley

Accessories

- Tensioner **TMR/TFR** **(tome 4 p144)**
- Roller belt tensioner **GTC** **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	No. of teeth	Stock* 4mm	Stock* 6mm	Price each 1 to 5 for width 4mm	6mm	10mm
T 2,5/120	120,00	48	✔	✔	13,26 €	14,72 €	On request
T 2,5/145	145,00	58	✔	✔	13,40 €	14,87 €	
T 2,5/160	160,00	64	✔	✔	13,47 €	14,93 €	
T 2,5/177	177,50	71	✔	✔	13,77 €	15,28 €	
T 2,5/180	180,00	72	✔	-	13,77 €	15,28 €	
T 2,5/182	182,50	73	✔	✔	13,77 €	15,28 €	
T 2,5/200	200,00	80	✔	✔	13,77 €	15,28 €	
T 2,5/230	230,00	92	✔	✔	14,74 €	16,41 €	
T 2,5/245	245,00	98	✔	✔	14,59 €	16,25 €	
T 2,5/265	265,00	106	✔	✔	14,75 €	16,43 €	
T 2,5/285	285,00	114	✔	✔	14,84 €	16,48 €	
T 2,5/290	290,00	116	-	✔	15,43 €	17,19 €	
T 2,5/317	317,50	127	✔	✔	15,38 €	17,11 €	
T 2,5/330	330,00	132	✔	✔	15,56 €	17,28 €	
T 2,5/380	380,00	152	-	✔	16,43 €	18,25 €	
T 2,5/420	420,00	168	-	✔	18,24 €	18,22 €	
T 2,5/480	480,00	192	✔	✔	17,02 €	18,90 €	
T 2,5/500	500,00	200	✔	✔	17,28 €	19,20 €	
T 2,5/600	600,00	240	-	✔	23,68 €	26,31 €	
T 2,5/620	620,00	248	-	✔	24,58 €	27,36 €	
T 2,5/650	650,00	260	-	✔	24,06 €	26,69 €	
T 2,5/780	780,00	312	✔	✔	27,74 €	30,88 €	
T 2,5/950	950,00	380	✔	✔	30,65 €	34,12 €	

*Depending on availability - Dimensions in mm

T-type timing belts

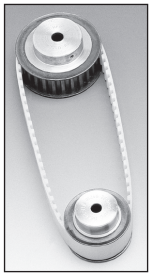
Pitch T5

Steel cored polyurethane

- **Pitch 5mm**
- Working temp. -30°C to +80°C
- Max. speed 40m/s
- Efficiency: up to 98%

SINGLE SIDED

Din 7721



Options

- Belt by the metre **T5M**
- Alternative lengths/widths

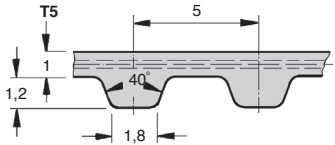
Info.

- When ordering. add the width to the part number
  Eg: **T5/120/4**

Compatible with T5 pulley

Accessories

- **TMR/TFR** tensioner **(tome 4 p144)**
- **GTC** roller belt tensioner **(tome 4 p.146)**



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	Teeth	Stock* 6mm	Stock* 10mm	Stock* 16mm	Price each 1 to 5 for width 6mm	10mm	16mm	25mm
T 5/150	150	30	✔	-	-	15,90 €	20,68 €	30,03 €	On request
T 5/185	185	37	✔	✔	✔	16,22 €	21,33 €	30,75 €	
T 5/200	200	40	✔	✔	✔	16,25 €	21,36 €	30,93 €	
T 5/210	210	42	-	✔	-	16,87 €	22,27 €	32,07 €	
T 5/215	215	43	-	-	-	16,39 €	21,69 €	31,21 €	
T 5/220	220	44	-	-	-	16,39 €	21,69 €	31,21 €	
T 5/225	225	45	✔	✔	-	16,43 €	21,82 €	31,46 €	
T 5/245	245	49	✔	✔	-	16,61 €	22,15 €	31,83 €	
T 5/250	250	50	-	✔	-	17,19 €	22,81 €	32,82 €	
T 5/255	25 5	51	-	✔	-	16,70 €	16,70 €	31,97 €	
T 5/260	260	52	-	-	-	16,70 €	22,15 €	31,97 €	
T 5/270	270	54	✔	✔	✔	16,76 €	22,28 €	32,11 €	
T 5/280	280	56	✔	✔	-	16,82 €	22,45 €	32,36 €	
T 5/295	295	59	-	✔	✔	16,95 €	22,72 €	32,65 €	

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	Teeth	Stock* 6mm	Stock* 10mm	Stock* 16mm	Price each 1 to 5 for width 6mm	10mm	16mm	25mm
T 5/305	305	61	✔	✔	✔	17,11 €	22,84 €	32,94 €	On request
T 5/330	330	66	-	✔	-	17,23 €	23,19 €	33,44 €	
T 5/340	340	68	✔	-	-	17,23 €	23,29 €	33,56 €	
T 5/355	355	71	✔	✔	✔	17,41 €	23,63 €	34,01 €	
T 5/365	365	73	-	✔	✔	17,48 €	23,68 €	34,28 €	
T 5/390	390	78	✔	✔	✔	17,53 €	24,02 €	34,63 €	
T 5/400	400	80	-	✔	-	17,70 €	24,14 €	34,77 €	
T 5/410	410	82	-	✔	-	17,74 €	24,20 €	35,14 €	
T 5/420	420	84	✔	✔	✔	17,84 €	24,32 €	35,27 €	
T 5/455	455	91	✔	✔	✔	18,07 €	24,85 €	36,53 €	
T 5/460	460	92	-	-	-	18,68 €	25,69 €	37,68 €	
T 5/480	480	96	-	✔	-	18,17 €	25,38 €	37,28 €	
T 5/500	500	100	-	✔	✔	18,33 €	25,67 €	37,96 €	
T 5/510	510	102	✔	-	-	18,35 €	25,90 €	38,32 €	
T 5/525	525	105	-	✔	-	18,70 €	26,29 €	39,08 €	
T 5/545	545	109	-	-	✔	19,10 €	26,59 €	39,82 €	
T 5/550	550	110	-	-	-	19,10 €	26,59 €	39,82 €	
T 5/560	560	112	-	✔	-	19,20 €	26,82 €	40,13 €	
T 5/575	575	115	-	✔	✔	19,52 €	27,31 €	40,89 €	
T 5/590	590	118	-	-	-	20,14 €	28,43 €	42,93 €	
T 5/610	610	122	-	✔	✔	20,01 €	27,97 €	42,29 €	
T 5/620	620	124	-	-	-	20,12 €	28,15 €	42,71 €	
T 5/630	630	126	-	✔	-	20,34 €	28,23 €	43,52 €	
T 5/650	650	130	-	-	✔	21,48 €	29,73 €	45,50 €	
T 5/690	690	138	-	✔	✔	21,59 €	29,94 €	45,92 €	
T 5/720	720	144	-	-	✔	22,15 €	30,75 €	47,39 €	
T 5/750	750	150	-	✔	-	22,72 €	31,58 €	48,82 €	
T 5/765	765	153	-	-	-	24,04 €	33,19 €	51,10 €	
T 5/780	780	156	-	-	✔	23,46 €	32,44 €	49,99 €	
T 5/815	815	163	-	-	-	24,20 €	33,82 €	51,61 €	
T 5/840	840	168	-	-	-	24,58 €	34,48 €	52,71 €	
T 5/900	900	180	-	✔	-	25,90 €	36,53 €	55,30 €	
T 5/990	990	198	-	-	-	27,69 €	39,29 €	59,38 €	
T 5/1075	1075	215	-	-	-	29,53 €	40,91 €	64,14 €	
T 5/1100	1100	220	-	-	-	29,94 €	42,61 €	64,74 €	
T 5/1160	1160	232	-	-	-	32,55 €	45,81 €	69,64 €	
T 5/1215	1215	243	-	✔	✔	33,23 €	46,08 €	70,67 €	
T 5/1315	1315	263	-	-	-	37,77 €	51,10 €	77,32 €	
T 5/1380	1380	276	-	-	-	38,52 €	51,56 €	77,83 €	

*Depending on availability - Dimensions in mm

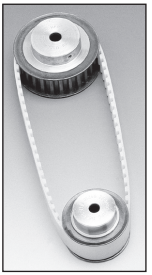
T-type belt

Stock

Pitch T10

Polyurethane with steel core

- **Pitch 10mm**
- Working temp. -30°C to +80°C
- Max. speed 40m/s
- Efficiency: up to 98%



Options

- Belt by the metre **T10M**
- Alternative lengths/widths

Info.

- When ordering. add the width to the part number.
  Eg: **T10/120/4**

Accessories

- **TMR/TFR** tensioner **(tome 4 p144)**
- **GTC** roller belt tensioner **(tome 4 p.146)**

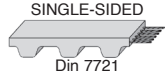
Compatible with T10 pulley

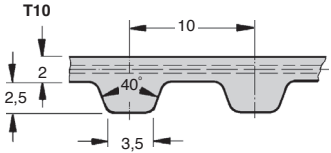
DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for width 16mm	25mm	32mm	50mm
T 10/260	260	26	37,09 €	51,46 €	On request	On request
T 10/370	370	37	40,12 €	56,02 €		
T 10/410	410	41	41,56 €	57,79 €		
T 10/500	500	50	44,93 €	61,45 €		
T 10/530	530	53	45,96 €	63,02 €		
T 10/560	560	56	47,78 €	65,16 €		
T 10/600	600	60	49,14 €	66,70 €		
T 10/610	610	61	49,34 €	67,44 €		
T 10/630	630	63	50,81 €	68,85 €		
T 10/660	660	66	52,26 €	71,08 €		
T 10/680	680	68	46,72 €	78,63 €		
T 10/690	690	69	53,77 €	73,35 €		
T 10/700	700	70	55,88 €	66,50 €		
T 10/720	720	72	55,56 €	75,90 €		
T 10/730	730	73	53,25 €	83,09 €		
T 10/750	750	75	58,67 €	85,01 €		

Dimensions in mm





DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for width 16mm	25mm	32mm	50mm
T 10/780	780	78	58,94 €	80,69 €	On request	On request
T 10/810	810	81	60,76 €	83,25 €		
T 10/840	840	84	62,65 €	85,94 €		
T 10/880	880	88	64,77 €	89,58 €		
T 10/890	890	89	65,53 €	91,06 €		
T 10/920	920	92	67,44 €	94,00 €		
T 10/960	960	96	69,61 €	98,39 €		
T 10/970	970	97	70,36 €	99,60 €		
T 10/980	980	98	71,08 €	100,62 €		
T 10/1010	1010	101	73,35 €	103,61 €		
T 10/1080	1080	108	77,40 €	110,24 €		
T 10/1110	1110	111	79,83 €	122,82 €		
T 10/1140	1140	114	81,45 €	116,22 €		
T 10/1150	1150	115	81,80 €	116,85 €		
T 10/1210	1210	121	85,94 €	123,16 €		
T 10/1240	1240	124	88,16 €	125,68 €		
T 10/1250	1250	125	88,43 €	126,87 €		
T 10/1300	1300	130	92,09 €	131,71 €		
T 10/1320	1320	132	93,26 €	133,51 €		
T 10/1350	1350	135	95,14 €	136,46 €		
T 10/1390	1390	139	98,05 €	140,58 €		
T 10/1400	1400	140	98,82 €	141,24 €		
T 10/1420	1420	142	99,94 €	143,07 €		
T 10/1460	1460	146	102,54 €	146,85 €		
T 10/1500	1500	150	-	163,14 €		
T 10/1560	1560	156	106,97 €	155,66 €		
T 10/1610	1610	161	112,50 €	161,22 €		
T 10/1750	1750	175	122,45 €	176,71 €		
T 10/1780	1780	178	124,62 €	179,98 €		
T 10/1880	1880	188	132,05 €	191,11 €		
T 10/1960	1960	196	140,18 €	202,18 €		
T 10/2250	2250	225	173,01 €	254,04 €		

Dimensions in mm

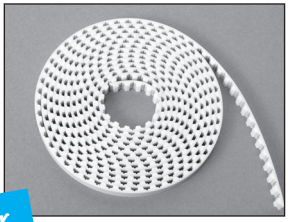
T-type timing belt per metre

Steel cored polyurethane

Pitch
T5
T10

SINGLE-SIDED

Din 7721



- Pitches: 2.5, 5 and 10mm
- **For linear movement**
- Secured by rigid connection plates
- Working temp. -20°C to +80°C
- Max. speed 40m/s
- Tolerance over length ±0.8mm/1000mm
- Efficiency: up to 98%

For linear positioning

Uses

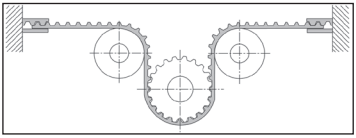
- Alternating back-and-forth movements

Info.

- Min. length: 1000mm
- Supplied in multiples of 1 metre
- When ordering. add the length (L)and the width (l) to the part number (T5M/L/l). E.g.: **T5M/1000/16**

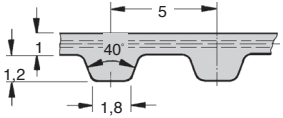
Accessories

- **T.../P** connecting plate **(tome 4 p.59)**
- **T** pulley **(tome 4 p.45)**

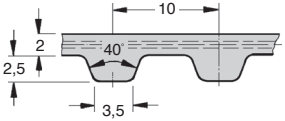


Typical application

T5M



T10M



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Pitch	Price 1 to 5, per metre for width 6mm	10mm	16mm	25mm	32mm	50mm
T5M	T5	23,97 €	31,21 €	36,99 €	69,76 €	-	-
T10M	T10	-	-	43,85 €	59,66 €	77,04 €	84,87 €

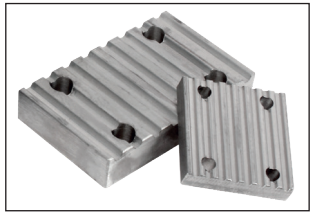
Dimensions in mm

Connecting plate for T type timing belts

For T5M and T10M timing belts

Pitch
T5
T10

- **For linear movement**
- Rigid connecting plate
- Pitch: 5 or 10mm
- For use with **T5M** and **T10M** belts supplied by the metre
- Material:
  Aluminium

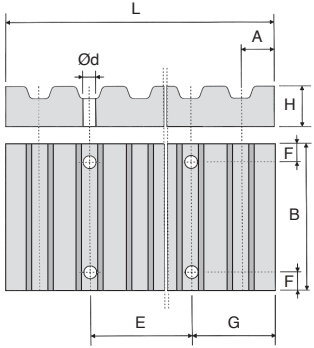


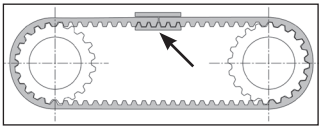
Uses

- For closing a belt or attaching one end of a belt to a frame

Accessories

- **T.M** connecting plate **(tome 4 p.5859**
- **T** pulley **(tome 4 p.45)**





Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

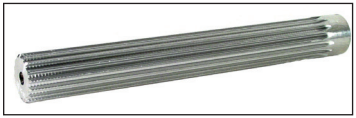
Part number	Pitch	B	L	H	E	F	G	Ød	A	Belt width	Stock*	Price each 1 to 5
T5/25P	T5	44	41,5	8	25	6	8,25	5,5	3,25	25	✔	16,87 €
T10/25P	T10	50	80,0	15	50	8	15,00	9,0	5,00	25	✔	23,00 €
T10/32P	T10	57	80,0	15	50	8	15,00	9,0	5,00	32	✔	24,12 €
T10/50P	T10	75	80,0	15	50	8	15,00	9,0	5,00	50	✔	26,40 €

*Depending on availability - Dimensions in mm

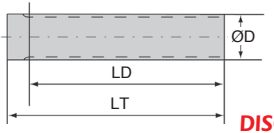
AT type tooth bar stock

AT5-BAR

Aluminium



- **Bar stock to be cut to length by the customer**
- The overall length is the same as the maximum length
- Material : Aluminium suitable for hard anodic oxidation
- Finish : Supplied not-treated



Info.

- We are unable to modify this product

Accessories

- AT5 belt *(tome 4 p.82)*

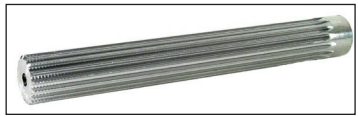
DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Z Teeth	ØD External	Length of teeth L_D	Total length L_T	Price each
12AT5-BAR	12	17,85	140	140	10,51 €
13AT5-BAR	13	19,45	140	140	21,69 €
14AT5-BAR	14	21,05	140	140	12,30 €
15AT5-BAR	15	22,65	140	140	13,18 €
16AT5-BAR	16	24,20	140	140	14,79 €
18AT5-BAR	18	27,40	140	140	17,22 €
19AT5-BAR	19	29,00	140	140	18,68 €
20AT5-BAR	20	30,60	160	160	21,47 €
21AT5-BAR	21	32,30	160	160	22,25 €
22AT5-BAR	22	33,85	160	160	24,86 €
23AT5-BAR	23	35,45	160	160	25,00 €
24AT5-BAR	24	37,00	160	160	26,86 €
25AT5-BAR	25	38,55	160	160	28,78 €
26AT5-BAR	26	40,20	160	160	31,69 €
28AT5-BAR	28	43,25	160	160	34,92 €
30AT5-BAR	30	46,55	160	160	37,43 €
32AT5-BAR	32	49,70	160	160	43,52 €
34AT5-BAR	34	52,85	160	160	51,48 €
36AT5-BAR	36	56,05	160	160	50,31 €
38AT5-BAR	38	59,25	160	160	53,54 €
40AT5-BAR	40	62,45	160	160	57,90 €
42AT5-BAR	42	65,60	160	160	62,54 €
44AT5-BAR	44	68,80	160	160	73,62 €
46AT5-BAR	46	72,00	160	160	74,21 €
48AT5-BAR	48	75,15	160	160	82,86 €
52AT5-BAR	52	81,55	160	160	113,29 €
56AT5-BAR	56	87,90	160	160	117,02 €
60AT5-BAR	60	94,25	160	160	124,10 €
64AT5-BAR	64	100,65	160	160	165,59 €
72AT5-BAR	72	113,35	160	160	174,47 €

Dimensions in mm

- ***Bar stock to be cut to length by the customer***
- *The overall length is the same as the maximum length*
- *Material : Aluminium suitable for hard anodic oxidation*
- *Finish : Supplied not-treated*

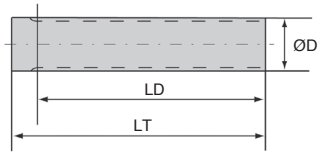


Info.

- *We are unable to modify this product*

Accessories

- **AT10** *belt* ***(tome 4 p.83)***



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-20%	On request

Part number	Z Teeth	ØD External	Length of teeth LD	Total length LT	Price each
15AT10-BAR	15	45,90	160	160	33,38 €
16AT10-BAR	16	49,14	160	160	37,71 €
18AT10-BAR	18	55,45	160	160	45,35 €
19AT10-BAR	19	58,65	160	160	50,80 €
20AT10-BAR	20	61,80	160	160	55,03 €
21AT10-BAR	21	65,00	160	160	59,62 €
22AT10-BAR	22	68,20	160	160	70,54 €
23AT10-BAR	23	71,35	160	160	70,86 €
24AT10-BAR	24	74,55	160	160	79,43 €
25AT10-BAR	25	77,75	160	160	80,01 €
26AT10-BAR	26	80,90	160	160	89,05 €
28AT10-BAR	28	87,25	160	160	99,03 €
30AT10-BAR	30	93,65	160	160	119,97 €
32AT10-BAR	32	100,00	160	160	131,79 €
34AT10-BAR	34	106,40	160	160	144,10 €
36AT10-BAR	36	112,75	160	160	158,31 €
38AT10-BAR	38	119,10	160	160	183,36 €
40AT10-BAR	40	125,45	160	160	197,90 €
42AT10-BAR	42	131,85	160	160	223,82 €
44AT10-BAR	44	138,20	160	160	245,00 €
46AT10-BAR	46	144,55	160	160	269,73 €
48AT10-BAR	48	150,95	160	160	285,33 €
52AT10-BAR	52	163,65	160	160	345,45 €
56AT10-BAR	56	176,40	160	160	397,34 €
60AT10-BAR	60	189,15	160	160	469,99 €

Dimensions in mm

AT-type timing pulley

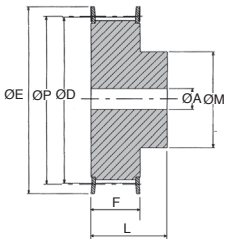
Stock Alu Eco

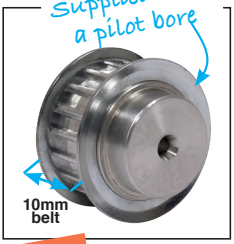
Pitch AT5

Aluminium

For 10mm belts

- **For use with AT5 belts**
- Pitch 5mm
- Material: Aluminium





Info

- *Pilot bore size given as a indication, may vary between batches
- Will require re-machining by customer
- **We are unable to modify this product**

Accessories

- **AT5** belts **(tome 4 p.82)**
- **GTC** tension rollers **(tome 4 p.146)**

Economy range

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No. of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore no guaranteed ØA*	Stock*	Price each 1 to 5
12AT5-10/ECO	12	19,10	17,85	23	11	15	21	solid	✔	3,32 €
14AT5-10/ECO	14	22,29	21,05	25	13	15	21	solid	✔	3,74 €
15AT5-10/ECO	15	23,88	22,65	28	16	15	21	6	✔	4,06 €
16AT5-10/ECO	16	25,47	24,20	32	18	15	21	6	✔	4,45 €
18AT5-10/ECO	18	28,65	27,40	32	20	15	21	6	✔	4,65 €
19AT5-10/ECO	19	30,25	29,00	36	22	15	21	6	-	5,09 €
20AT5-10/ECO	20	31,83	30,60	36	23	15	21	6	✔	5,12 €
22AT5-10/ECO	22	35,02	33,85	38	24	15	21	6	✔	5,73 €
24AT5-10/ECO	24	38,21	37,00	42	26	15	21	6	✔	6,18 €
25AT5-10/ECO	25	39,80	38,60	44	26	15	21	6	-	6,76 €
26AT5-10/ECO	26	41,39	40,20	44	26	15	21	6	-	7,23 €
27AT5-10/ECO	27	42,98	41,80	48	30	15	21	8	-	6,93 €
28AT5-10/ECO	28	44,58	43,35	48	32	15	21	8	✔	7,25 €
30AT5-10/ECO	30	47,76	46,55	51	34	15	21	8	✔	7,76 €
32AT5-10/ECO	32	50,94	49,70	54	38	15	21	8	-	8,69 €
36AT5-10/ECO	36	57,31	56,05	64	38	15	21	8	-	10,19 €
40AT5-10/ECO	40	63,66	62,45	66,5	40	15	21	8	✔	11,39 €
42AT5-10/ECO	42	66,86	65,60	70	40	15	21	8	✔	12,31 €
44AT5-10/ECO	44	70,05	68,80	-	45	15	21	8	-	12,18 €
48AT5-10/ECO	48	76,42	75,15	-	50	15	21	8	-	13,78 €
60AT5-10/ECO	60	95,52	94,25	-	65	15	21	8	✔	20,58 €

*Depending on availability - Dimensions in mm

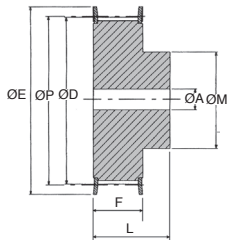
AT-type timing pulley

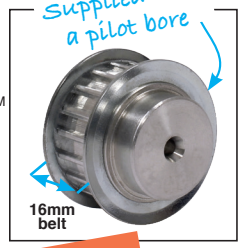
Aluminium

Pitch AT5

For 16mm belts

- **For use with AT5 belts**
- Pitch 5mm
- Material: Aluminium





Info

- *Pilot bore size given as a indication, may vary between batches.
- Will require re-machining by customer
- **We are unable to modify this product**

Accessories

- **AT5** belts **(tome 4 p.82)**
- **GTC** tension rollers **(tome 4 p.146)**

Economy range

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No. of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore no guaranteed ØA*	Stock*	Price each 1 to 5
12AT5-16/ECO	12	19,10	17,85	23	11	21	27	solid	✔	3,98 €
14AT5-16/ECO	14	22,29	21,05	25	13	21	27	solid	-	4,37 €
15AT5-16/ECO	15	23,88	22,65	28	16	21	27	6	✔	4,75 €
16AT5-16/ECO	16	25,47	24,20	32	18	21	27	6	✔	5,22 €
18AT5-16/ECO	18	28,65	27,40	32	20	21	27	6	✔	5,41 €
19AT5-16/ECO	19	30,25	29,00	36	22	21	27	6	-	5,72 €
20AT5-16/ECO	20	31,83	30,60	36	23	21	27	6	✔	5,97 €
22AT5-16/ECO	22	35,02	33,85	38	24	21	27	6	-	6,57 €
24AT5-16/ECO	24	38,21	37,00	42	26	21	27	6	-	7,01 €
25AT5-16/ECO	25	39,80	38,60	44	26	21	27	6	✔	7,45 €
26AT5-16/ECO	26	41,39	40,20	44	26	21	27	6	-	8,12 €
27AT5-16/ECO	27	42,98	41,80	48	30	21	27	8	-	7,87 €
28AT5-16/ECO	28	44,58	43,35	48	32	21	27	8	✔	8,55 €
30AT5-16/ECO	30	47,76	46,55	51	34	21	27	8	✔	9,09 €
32AT5-16/ECO	32	50,94	49,70	54	38	21	27	8	✔	10,31 €
36AT5-16/ECO	36	57,31	56,05	64	38	21	27	8	-	11,99 €
40AT5-16/ECO	40	63,66	62,45	66,5	40	21	27	8	✔	13,55 €
42AT5-16/ECO	42	66,86	65,60	70	40	21	27	8	-	14,51 €
44AT5-16/ECO	44	70,05	68,80	-	45	21	27	8	-	14,99 €
48AT5-16/ECO	48	76,42	75,15	-	50	21	27	8	✔	16,73 €
60AT5-16/ECO	60	95,52	94,25	-	65	21	27	8	✔	24,88 €

*Depending on availability - Dimensions in mm

AT-type timing pulley

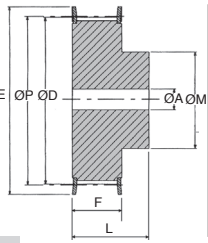
Stock Alu Eco

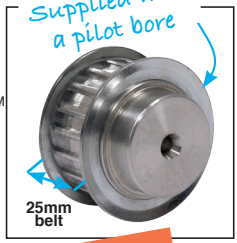
Pitch AT5

Aluminium

For 25mm belts

- **For use with AT5 belts**
- Pitch 5mm
- Material: Aluminium





Info

- *Pilot bore given as indication, may vary between batches.
- Will require re-machining by customer
- **We are unable to modify this product**

Accessories

- **AT5** belts **(tome 4 p.82)**
- **GTC** tension rollers **(tome 4 p.146)**

Economy range

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

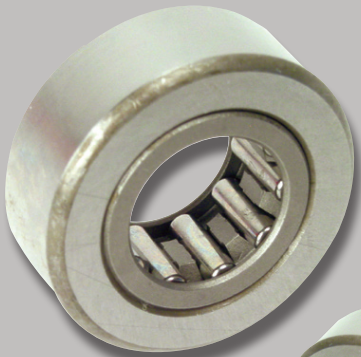
Part number	No. of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore no guaranteed ØA*	Stock*	Price each 1 to 5
12AT5-25/ECO	12	19,10	17,85	23	11	30	36	solid	-	4,61 €
14AT5-25/ECO	14	22,29	21,05	25	13	30	36	solid	-	4,99 €
15AT5-25/ECO	15	23,88	22,65	28	16	30	36	6	-	5,62 €
16AT5-25/ECO	16	25,47	24,20	32	18	30	36	6	-	6,19 €
18AT5-25/ECO	18	28,65	27,40	32	20	30	36	6	-	6,61 €
19AT5-25/ECO	19	30,25	29,00	36	22	30	36	6	-	7,16 €
20AT5-25/ECO	20	31,83	30,60	36	23	30	36	6	-	7,35 €
22AT5-25/ECO	22	35,02	33,85	38	24	30	36	6	-	8,05 €
24AT5-25/ECO	24	38,21	37,00	42	26	30	36	6	-	8,75 €
25AT5-25/ECO	25	39,80	38,60	44	26	30	36	6	-	9,25 €
26AT5-25/ECO	26	41,39	40,20	44	26	30	36	6	-	10,02 €
27AT5-25/ECO	27	42,98	41,80	48	30	30	36	8	-	9,89 €
28AT5-25/ECO	28	44,58	43,35	48	32	30	36	8	-	10,54 €
30AT5-25/ECO	30	47,76	46,55	51	34	36	36	8	✔	11,31 €
32AT5-25/ECO	32	50,94	49,70	54	38	30	36	8	-	12,68 €
36AT5-25/ECO	36	57,31	56,05	64	38	30	36	8	✔	15,01 €
40AT5-25/ECO	40	63,66	62,45	66,5	40	30	36	8	-	16,75 €
42AT5-25/ECO	42	66,86	65,60	70	40	30	36	8	-	18,24 €
44AT5-25/ECO	44	70,05	68,80	-	45	30	36	8	-	18,93 €
48AT5-25/ECO	48	76,42	75,15	-	50	30	36	8	-	21,45 €
60AT5-25/ECO	60	95,52	94,25	-	65	30	36	8	-	31,98 €

*Depending on availability - Dimensions in mm

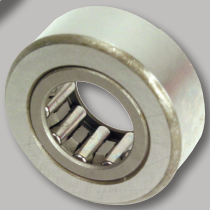
Find the full range of

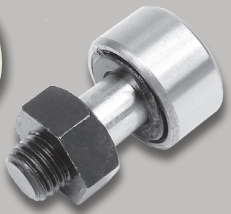
CAM FOLLOWERS

on HPCEUROPE.COM



Stainless steel





- With or without studs
- Alternative bearing diameters

AT-type timing pulley

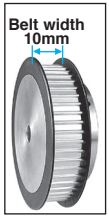
Alu

Pitch AT5

Aluminium 6082

Belt width 10mm

- 2nd generation metric profile
- Transmits a greater torque
- Pitch 5mm
- Materials:
  Pulley: aluminium 6082
  Flanges: aluminium for pulleys withup to 46 teeth, steel for 47 teeth or more
- All pulleys have flanges
- Secured by a grub screw

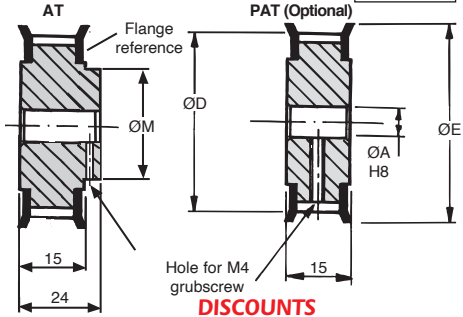


Options

- Choose from 20 to 84 teeth

Accessories

- AT5 belts (tome 4 p.82)
- GTC tension rollers (tome 4 p.146)



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
20AT5-10	20	31,84	30,60	20	6	38,10	20XL	On request	On request
21AT5-10	21	33,44	32,20	20	6	38,10	20XL		
22AT5-10	22	34,99	33,75	20	6	39,68	21XL		
23AT5-10	23	36,59	35,35	20	6	41,28	22XL		
24AT5-10	24	38,19	36,95	25	6	44,70	24XL		
25AT5-10	25	39,79	38,55	25	6	44,70	24XL		
26AT5-10	26	41,39	40,15	25	6	44,70	24XL		
27AT5-10	27	42,99	41,75	25	6	49,25	26XL		
28AT5-10	28	44,59	43,35	25	6	49,25	26XL		
29AT5-10	29	46,14	44,90	25	6	51,05	28XL		
30AT5-10	30	47,74	46,50	30	8	51,05	28XL		
31AT5-10	31	49,34	48,10	30	8	54,36	30XL		
32AT5-10	32	50,94	49,70	30	8	55,56	16L		
33AT5-10	33	52,54	51,30	30	8	57,15	17L		

Dimensions in mm

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
34AT5-10	34	54,14	52,90	30	8	61,91	14H	On request	On request
35AT5-10	35	55,69	54,45	30	8	61,91	14H		
36AT5-10	36	57,29	56,05	30	8	61,91	14H		
37AT5-10	37	58,89	57,65	40	8	66,68	15H		
38AT5-10	38	60,49	59,25	40	8	66,68	15H		
39AT5-10	39	62,09	60,85	40	8	69,85	16H		
40AT5-10	40	63,69	62,41	40	8	69,85	16H		
41AT5-10	41	65,24	64,00	40	8	74,61	17H		
42AT5-10	42	66,84	65,60	40	8	74,61	17H		
43AT5-10	43	68,44	67,20	40	8	74,61	17H		
44AT5-10	44	70,04	68,80	40	8	79,38	18H		
45AT5-10	45	71,64	70,40	40	8	79,38	18H		
46AT5-10	46	73,24	72,00	40	8	79,38	18H		
47AT5-10	47	74,79	73,55	40	8	82,55	19H		
48AT5-10	48	76,39	75,15	40	8	82,55	19H		
49AT5-10	49	77,99	76,75	40	8	82,55	19H		
50AT5-10	50	79,59	78,35	60	10	86,73	20H		
51AT5-10	51	81,19	79,95	60	10	90,49	21H		
52AT5-10	52	82,79	81,55	60	10	90,49	21H		
53AT5-10	53	84,39	83,15	60	10	90,49	21H		
54AT5-10	54	85,94	84,70	60	10	95,25	22H		
55AT5-10	55	87,54	86,30	60	10	95,25	22H		
56AT5-10	56	89,14	87,90	60	10	95,25	22H		
57AT5-10	57	90,74	89,50	60	10	98,43	23H		
58AT5-10	58	92,34	91,10	60	10	98,43	23H		
59AT5-10	59	93,94	92,70	60	10	103,19	24H		
60AT5-10	60	95,49	94,25	60	10	103,19	24H		
61AT5-10	61	97,09	95,85	60	10	103,19	24H		
62AT5-10	62	98,69	97,45	60	10	106,36	25H		
63AT5-10	63	100,29	99,05	60	10	106,36	25H		
64AT5-10	64	101,89	100,65	60	10	111,13	26H		
65AT5-10	65	103,49	102,25	60	10	111,13	26H		
66AT5-10	66	105,04	103,80	60	10	111,13	26H		
67AT5-10	67	106,64	105,40	60	10	111,13	26H		
68AT5-10	68	109,84	107,00	60	10	114,30	27H		
69AT5-10	69	109,84	108,60	60	10	114,30	27H		
70AT5-10	70	111,44	110,20	60	10	119,06	28H		
71AT5-10	71	113,04	111,80	60	10	119,06	28H		
72AT5-10	72	114,59	113,35	60	10	119,06	28H		
73AT5-10	73	116,19	114,95	60	10	127,00	30H		
74AT5-10	74	117,79	116,55	60	10	127,00	30H		
75AT5-10	75	119,39	118,15	60	10	127,00	30H		
76AT5-10	76	120,99	119,75	60	10	127,00	30H		
77AT5-10	77	122,59	121,35	60	10	131,76	31H		
78AT5-10	78	124,19	122,95	60	10	131,76	31H		
79AT5-10	79	125,74	124,50	60	10	131,76	31H		
80AT5-10	80	127,34	126,10	60	10	134,94	32H		
81AT5-10	81	128,94	127,70	60	10	134,94	32H		
82AT5-10	82	130,54	129,30	60	10	139,70	33H		
83AT5-10	83	132,14	130,90	60	10	139,70	33H		
↓	Pulleys available up to this size							↓	↓
84AT5-10	**84**	**133,74**	**132,50**	**60**	**10**	**139,70**	**33H**	On request	On request

Dimensions in mm

AT-type timing pulley

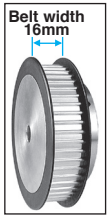
Alu

Pitch AT5

Aluminium 6082

Belt width 16mm

- **2nd generation metric profile**
- **Transmits a greater torque**
- Pitch 5mm
- Materials:
  Pulley: Aluminium 6082
  Flanges: aluminium for pulleys with up to 46 teeth, steel for 47 teeth or more
- All pulleys have flanges
- Secured by a grub screw

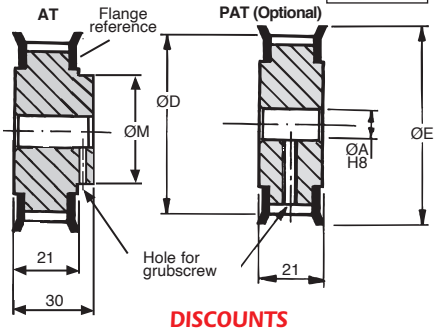


Options

- **Choose from 20 to 84 teeth**

Accessories

- **AT5** belts
  (tome 4 p.82)
- **GTC** tension rollers
  (tome 4 p.146)



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
20AT5-16	20	31,84	30,60	20	6	38,10	20XL	On request	On request
21AT5-16	21	33,44	32,20	20	6	38,10	20XL		
22AT5-16	22	34,99	33,75	20	6	39,48	21XL		
23AT5-16	23	36,59	35,35	20	6	41,28	22XL		
24AT5-16	24	38,19	36,95	25	6	44,70	24XL		
25AT5-16	25	39,79	38,55	25	6	44,70	24XL		
26AT5-16	26	41,39	40,15	25	6	44,70	24XL		
27AT5-16	27	42,99	41,75	25	6	49,25	26XL		
28AT5-16	28	44,59	43,35	25	6	49,25	26XL		
29AT5-16	29	46,14	44,90	25	6	51,05	28XL		
30AT5-16	30	47,74	46,50	30	8	51,05	28XL		
31AT5-16	31	49,34	48,10	30	8	54,36	30XL		
32AT5-16	32	50,94	49,70	30	8	55,56	16L		
33AT5-16	33	52,54	51,30	30	8	57,15	17L		

Dimensions in mm

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	PAT
34AT5-16	34	54,14	52,90	30	8	61,91	14H	On request	On request
35AT5-16	35	55,69	54,45	30	8	61,91	14H		
36AT5-16	36	57,29	56,05	30	8	61,91	14H		
37AT5-16	37	58,89	57,65	40	8	66,68	15H		
38AT5-16	38	60,49	59,25	40	8	66,68	15H		
39AT5-16	39	62,09	60,85	40	8	69,85	16H		
40AT5-16	40	63,69	62,41	40	8	69,85	16H		
41AT5-16	41	65,24	64,00	40	8	74,61	17H		
42AT5-16	42	66,84	65,60	40	8	74,61	17H		
43AT5-16	43	68,44	67,20	40	8	74,61	17H		
44AT5-16	44	70,04	68,80	40	8	79,38	18H		
45AT5-16	45	71,64	70,40	40	8	79,38	18H		
46AT5-16	46	73,24	72,00	40	8	79,38	18H		
47AT5-16	47	74,79	73,55	40	8	82,55	19H		
48AT5-16	48	76,39	75,15	40	8	82,55	19H		
49AT5-16	49	77,99	76,75	40	8	82,55	19H		
50AT5-16	50	79,59	78,35	60	10	85,73	20H		
51AT5-16	51	81,19	79,95	60	10	90,49	21H		
52AT5-16	52	82,79	81,55	60	10	90,49	21H		
53AT5-16	53	84,39	83,15	60	10	90,49	21H		
54AT5-16	54	85,94	84,70	60	10	95,25	22H		
55AT5-16	55	87,54	86,30	60	10	95,25	22H		
56AT5-16	56	89,14	87,90	60	10	95,25	22H		
57AT5-16	57	90,74	89,50	60	10	98,23	23H		
58AT5-16	58	92,34	91,10	60	10	98,23	23H		
59AT5-16	59	93,94	92,70	60	10	103,19	24H		
60AT5-16	60	95,49	94,25	60	10	103,19	24H		
61AT5-16	61	97,09	95,85	60	10	103,19	24H		
62AT5-16	62	98,69	97,45	60	10	106,36	25H		
63AT5-16	63	100,29	99,05	60	10	106,36	25H		
64AT5-16	64	101,89	100,65	60	10	111,13	26H		
65AT5-16	65	103,49	102,25	60	10	111,13	26H		
66AT5-16	66	105,04	103,80	60	10	111,13	26H		
67AT5-16	67	106,64	105,40	60	10	111,13	26H		
68AT5-16	68	108,24	107,00	60	10	114,30	27H		
69AT5-16	69	109,84	108,60	60	10	114,30	27H		
70AT5-16	70	111,44	110,20	60	10	119,06	28H		
71AT5-16	71	113,04	111,80	60	10	119,06	28H		
72AT5-16	72	114,59	113,35	60	10	119,06	28H		
73AT5-16	73	116,19	114,95	60	10	127,00	30H		
74AT5-16	74	117,79	116,55	60	10	127,00	30H		
75AT5-16	75	119,39	118,15	60	10	127,00	30H		
76AT5-16	76	120,99	119,75	60	10	127,00	30H		
77AT5-16	77	122,59	121,35	60	10	131,76	31H		
78AT5-16	78	124,19	122,95	60	10	131,76	31H		
79AT5-16	79	125,74	124,50	60	10	131,76	31H		
80AT5-16	80	127,34	126,10	60	10	134,94	32H		
81AT5-16	81	128,94	127,70	60	10	134,94	32H		
82AT5-16	82	130,54	129,30	60	10	139,70	33H		
83AT5-16	83	132,14	130,90	60	10	139,70	33H		
↓	Pulleys available up to this size							↓	↓
84AT5-16	**84**	**133,74**	**132,50**	**60**	**10**	**139,70**	**33H**	on request	on request

Dimensions in mm

AT-type timing pulley

Alu

Pitch AT5

Aluminium 6082

Belt width 25mm

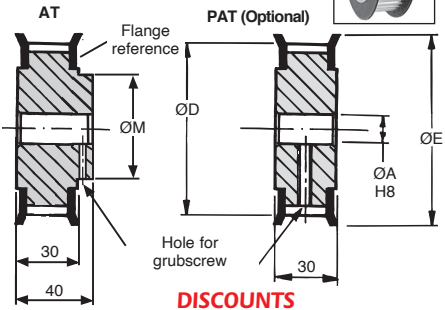
- **2nd generation metric profile**
- **Transmits a greater torque**
- Pitch 5mm
- Materials:
  Pulley: aluminium 6082
  Flanges: aluminium for pulleys with up to 46 teeth, steel for 47 teeth or more
- All pulleys have flanges
- Secured by a grub screw

Options

- **Choose from 20 to 84 teeth**

Accessories

- **AT5** belts
  (tome 4 p.82)
- **GTC** tension rollers
  (tome 4 p.146)



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
20AT5-25	20	31,84	30,60	20	6	38,10	20XL	On request	On request
21AT5-25	21	33,44	32,20	20	6	38,10	20XL		
22AT5-25	22	34,99	33,75	20	6	39,68	21XL		
23AT5-25	23	36,59	35,35	20	6	41,28	22XL		
24AT5-25	24	38,19	36,95	25	6	44,70	24XL		
25AT5-25	25	39,79	38,55	25	6	44,70	24XL		
26AT5-25	26	41,39	40,15	25	6	44,70	24XL		
27AT5-25	27	42,99	41,75	25	6	49,25	26XL		
28AT5-25	28	44,59	43,35	25	6	49,25	26XL		
29AT5-25	29	46,14	44,90	25	6	51,05	28XL		
30AT5-25	30	47,74	46,50	30	8	51,05	28XL		
31AT5-25	31	49,34	48,10	30	8	54,36	30XL		
32AT5-25	32	50,94	49,70	30	8	55,56	16L		
33AT5-25	33	52,54	51,30	30	8	57,15	17L		
34AT5-25	34	54,14	52,90	30	8	61,91	14H		

Dimensions in mm

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	PAT
35AT5-25	35	55,69	54,45	30	8	61,91	14H	On request	On request
36AT5-25	36	57,29	56,05	30	8	61,91	14H		
37AT5-25	37	58,89	57,65	40	8	66,08	15H		
38AT5-25	38	60,49	59,25	40	8	66,08	15H		
39AT5-25	39	62,09	60,85	40	8	69,85	16H		
40AT5-25	40	63,69	62,45	40	8	69,85	16H		
41AT5-25	41	65,24	64,00	40	8	74,61	17H		
42AT5-25	42	66,84	65,60	40	8	74,61	17H		
43AT5-25	43	68,44	67,20	40	8	74,61	17H		
44AT5-25	44	70,04	68,80	40	8	79,38	18H		
45AT5-25	45	71,64	70,40	40	8	79,38	18H		
46AT5-25	46	73,24	72,00	40	8	79,38	18H		
47AT5-25	47	74,79	73,55	40	8	82,55	19H		
48AT5-25	48	76,39	75,15	40	8	82,55	19H		
49AT5-25	49	77,99	76,75	40	8	82,55	19H		
50AT5-25	50	79,59	78,35	60	10	85,73	20H		
51AT5-25	51	81,19	79,95	60	10	90,49	21H		
52AT5-25	52	82,79	81,55	60	10	90,49	21H		
53AT5-25	53	84,39	83,15	60	10	90,49	21H		
54AT5-25	54	85,94	84,70	60	10	95,25	22H		
55AT5-25	55	87,54	86,30	60	10	95,25	22H		
56AT5-25	56	89,14	87,90	60	10	95,25	22H		
57AT5-25	57	90,74	89,50	60	10	98,43	23H		
58AT5-25	58	92,34	91,10	60	10	98,43	23H		
59AT5-25	59	93,94	92,70	60	10	103,19	24H		
60AT5-25	60	95,49	94,25	60	10	103,19	24H		
61AT5-25	61	97,09	95,85	60	10	103,19	24H		
62AT5-25	62	98,69	97,45	60	10	106,36	25H		
63AT5-25	63	100,29	99,05	60	10	106,36	25H		
64AT5-25	64	101,89	100,65	60	10	111,13	26H		
65AT5-25	65	103,49	102,25	60	10	111,13	26H		
66AT5-25	66	105,04	103,80	60	10	111,13	26H		
67AT5-25	67	106,64	105,40	60	10	111,13	26H		
68AT5-25	68	108,24	107,00	60	10	114,30	27H		
69AT5-25	69	109,84	108,60	60	10	114,30	27H		
70AT5-25	70	111,44	110,20	60	10	119,06	28H		
71AT5-25	71	113,04	111,80	60	10	119,06	28H		
72AT5-25	72	114,59	113,35	60	10	119,06	28H		
73AT5-25	73	116,19	114,95	60	10	127,00	30H		
74AT5-25	74	117,79	116,55	60	10	127,00	30H		
75AT5-25	75	119,39	118,15	60	10	127,00	30H		
76AT5-25	76	120,99	119,75	60	10	127,00	30H		
77AT5-25	77	122,59	121,35	60	10	131,76	31H		
78AT5-25	78	124,19	122,95	60	10	131,76	31H		
79AT5-25	79	125,74	124,50	60	10	131,76	31H		
80AT5-25	80	127,34	126,10	60	10	134,94	32H		
81AT5-25	81	128,94	127,70	60	10	134,94	32H		
82AT5-25	82	130,54	129,30	60	10	139,70	33H		
83AT5-25	83	132,14	130,90	60	10	139,70	33H		
↓	Pulleys available up to this size							↓	↓
84AT5-25	**84**	**133,74**	**132,50**	**60**	**10**	**139,70**	**33H**	On request	On request

Dimensions in mm

AT-type timing pulley

Alu | € Eco

Pitch AT10

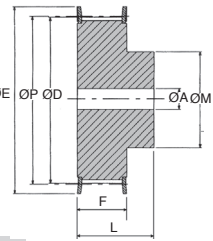
Aluminium

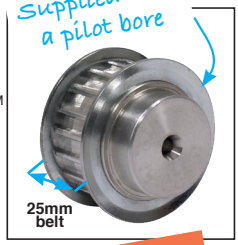
For 25mm belts

- **For use with AT10 belts**
- Pitch 10mm
- Material: Aluminium

Info

- *Pilot bore given as indication, may vary between batches.
- Will require re-machining by customer
- **We are unable to modify this product**





Economy range

Accessories

- **AT10** belts **(tome 4 p.83)**
- **GTC** tension rollers **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No of teeth	ØP PCD	ØD external	ØE flange	ØM	F	L	Pilot bore not guaranteed ØA*	Price each 1 to 5
15AT10-25/ECO	15	47,75	45,90	51	32	30	40	8	10,00 €
16AT10-25/ECO	16	50,93	49,05	54	35	30	40	8	11,23 €
18AT10-25/ECO	18	57,29	55,45	60	40	30	40	8	13,34 €
19AT10-25/ECO	19	60,48	58,60	66,5	44	30	40	8	14,46 €
20AT10-25/ECO	20	63,66	61,80	66,5	46	30	40	8	15,47 €
22AT10-25/ECO	22	70,03	68,15	75	52	30	40	8	19,72 €
24AT10-25/ECO	24	76,39	74,55	83	58	30	40	8	22,04 €
25AT10-25/ECO	25	79,58	77,70	83	60	30	40	8	22,25 €
26AT10-25/ECO	26	82,76	80,90	87	60	30	40	8	24,71 €
27AT10-25/ECO	27	85,95	84,10	91	60	30	40	8	27,19 €
28AT10-25/ECO	28	89,12	87,25	93	60	30	40	8	27,37 €
30AT10-25/ECO	30	95,49	93,65	102	60	30	40	8	32,55 €
32AT10-25/ECO	32	101,86	100,00	106	65	30	40	10	35,33 €
36AT10-25/ECO	36	114,59	112,75	119	70	30	40	10	41,74 €
40AT10-25/ECO	40	127,32	125,45	131	80	30	40	10	51,95 €
44AT10-25/ECO	44	140,05	138,20	-	88	30	40	10	65,96 €
48AT10-25/ECO	48	152,78	150,95	-	95	30	40	16	72,16 €
60AT10-25/ECO	60	190,98	189,10	-	110	30	40	16	119,07 €

Dimensions in mm

AT-type timing pulley

Aluminium

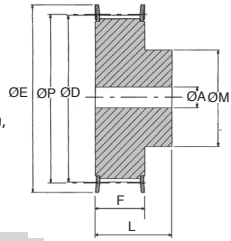
Pitch AT10

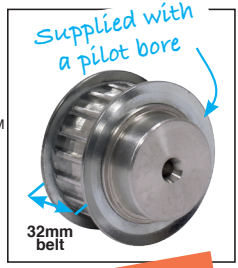
For 32mm belts

- ***For use with AT10 belts***
- *Pitch 10mm*
- *Material: Aluminium*

Info

- **Pilot bore given as indication, may vary between batches.*
- *Will require re-machining by customer*
- ***We are unable to modify this product***





Economy range

Accessories

- **AT10** *belts* **(tome 4 p.83)**
- **GTC** *tension rollers* **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	Pilot bore not guaranteed ØA*	Price each 1 to 5
18AT10-32/ECO	18	57,29	55,45	60	40	37	47	10	14,81 €
19AT10-32/ECO	19	60,48	58,60	66,5	44	37	47	10	16,04 €
20AT10-32/ECO	20	63,66	61,80	66,5	46	37	47	12	17,34 €
22AT10-32/ECO	22	70,03	68,15	75	52	37	47	12	21,96 €
24AT10-32/ECO	24	76,39	74,55	83	58	37	47	12	24,82 €
25AT10-32/ECO	25	79,58	77,70	83	60	37	47	12	25,02 €
26AT10-32/ECO	26	82,76	80,90	87	60	37	47	12	27,83 €
27AT10-32/ECO	27	85,95	84,10	91	60	37	47	12	30,75 €
28AT10-32/ECO	28	89,12	87,25	93	60	37	47	12	30,83 €
30AT10-32/ECO	30	95,49	93,65	102	60	37	47	12	36,73 €
32AT10-32/ECO	32	101,86	100,00	106	65	37	47	12	40,37 €
36AT10-32/ECO	36	114,59	112,75	119	70	37	47	16	47,73 €
40AT10-32/ECO	40	127,32	125,45	131	80	37	47	16	59,59 €
44AT10-32/ECO	44	140,05	138,20	-	88	37	47	16	75,60 €
48AT10-32/ECO	48	152,78	150,95	-	95	37	47	16	83,03 €
60AT10-32/ECO	60	190,98	189,10	-	110	37	47	16	136,15 €

Dimensions in mm

AT-type timing pulley

Alu Eco

Pitch AT10

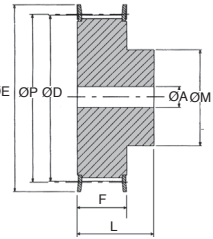
Aluminium

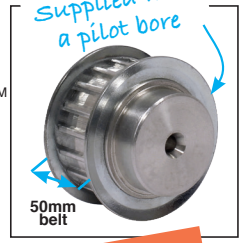
For 50mm belts

- **For use with AT10 belts**
- Pitch 10mm
- Material: Aluminium

Info

- *Pilot bore given as indication, may vary between batches.
- Will require re-machining by customer
- **We are unable to modify this product**





Economy range

Accessories

- **AT10** belts **(tome 4 p.83)**
- **GTC** tension rollers **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	Pilot bore not guaranteed ØA*	Price each 1 to 5
18AT10-50/ECO	18	57,29	55,45	60	40	56	66	10	18,98 €
19AT10-50/ECO	19	60,48	58,60	66,5	44	56	66	10	21,07 €
20AT10-50/ECO	20	63,66	61,80	66,5	46	56	66	12	22,95 €
22AT10-50/ECO	22	70,03	68,15	75	52	56	66	12	29,33 €
24AT10-50/ECO	24	76,39	74,55	83	58	56	66	12	32,96 €
25AT10-50/ECO	25	79,58	77,70	83	60	56	66	12	33,34 €
26AT10-50/ECO	26	82,76	80,90	87	60	56	66	12	37,08 €
27AT10-50/ECO	27	85,95	84,10	91	60	56	66	12	40,84 €
28AT10-50/ECO	28	89,12	87,25	93	60	56	66	12	41,06 €
30AT10-50/ECO	30	95,49	93,65	102	60	56	66	12	48,93 €
32AT10-50/ECO	32	101,86	100,00	106	65	56	66	12	53,97 €
36AT10-50/ECO	36	114,59	112,75	119	70	56	66	16	63,86 €
40AT10-50/ECO	40	127,32	125,45	131	80	56	66	16	79,79 €
44AT10-50/ECO	44	140,05	138,20	-	88	56	66	16	101,76 €
48AT10-50/ECO	48	152,78	150,95	-	95	56	66	16	112,07 €
60AT10-50/ECO	60	190,98	189,10	-	110	56	66	16	183,15 €

Dimensions in mm

Find our full range of

HINGES

on HPCEUROPE.COM

- Snap-on
- Sprung
- Removeable
- Friction

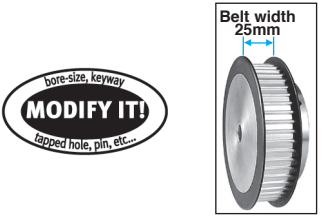
AT-type timing pulley

Steel

Pitch AT10

Belt width 25mm

- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
  Pulley: steel 20NCD2
  Flanges: steel
- All pulleys have flanges
- Secured by a grub screw

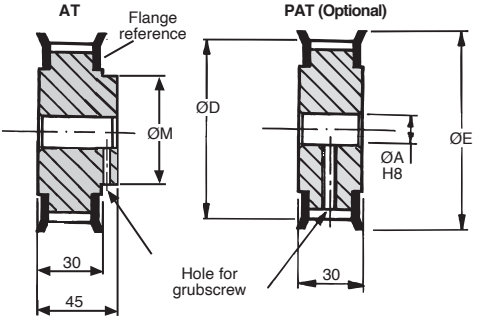


Options

- Choose from 15 to 130 teeth

Accessories

- AT10 belts (tome 4 p.83)
- GTC tension rollers (tome 4 p.146)



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
15AT10-25	15	47,75	45,90	35	10	56.56	16L	On request	On request
16AT10-25	16	50,93	49,10	35	10	55,56	16L		
17AT10-25	17	54,11	52,25	40	10	61,91	14H		
18AT10-25	18	57,30	55,45	40	10	61,91	14H		
19AT10-25	19	60,48	58,65	40	10	66,68	15H		
20AT10-25	20	63,66	61,80	40	10	69,85	16H		
21AT10-25	21	66,85	65,00	40	12	74,61	17H		
22AT10-25	22	70,03	68,20	50	12	74,61	17H		
23AT10-25	23	73,21	71,35	50	12	79,38	18H		
24AT10-25	24	76,39	74,55	50	12	82,55	19H		

Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
25AT10-25	25	79,58	77,75	50	12	85,73	20H	On request	On request
26AT10-25	26	82,76	80,90	50	12	90,49	21H		
27AT10-25	27	85,94	84,10	50	12	90,49	21H		
28AT10-25	28	89,13	87,25	50	12	95,25	22H		
29AT10-25	29	92,31	90,45	50	12	98,43	23H		
30AT10-25	30	95,49	93,65	50	12	103,19	24H		
31AT10-25	31	98,68	96,80	50	12	103,19	24H		
32AT10-25	32	101,86	100,00	60	12	106,36	25H		
33AT10-25	33	105,04	103,20	60	12	111,13	26H		
34AT10-25	34	108,23	106,35	60	12	111,13	26H		
35AT10-25	35	111,41	109,55	60	12	114,30	27H		
36AT10-25	36	114,59	112,75	60	12	119,06	28H		
37AT10-25	37	117,77	115,90	60	15	127,00	30H		
38AT10-25	38	120,96	119,10	60	15	127,00	30H		
39AT10-25	39	124,14	122,30	60	15	131,76	31H		
40AT10-25	40	127,32	125,45	75	15	131,76	31H		
41AT10-25	41	130,51	128,65	75	15	134,94	32H		
42AT10-25	42	133,69	131,85	75	15	139,70	33H		
43AT10-25	43	136,87	135,00	75	15	142,88	34H		
44AT10-25	44	140,06	138,20	75	15	150,81	36H		
45AT10-25	45	143,24	141,40	75	15	150,81	36H		
46AT10-25	46	146,42	144,45	75	15	150,81	36H		
47AT10-25	47	149,61	147,75	75	15	158,75	38H		
48AT10-25	48	152,79	150,95	75	15	158,75	38H		
49AT10-25	49	155,97	154,10	75	15	168,28	40H		
50AT10-25	50	159,15	157,30	75	15	168,28	40H		
51AT10-25	51	162,34	160,50	100	15	176,21	42H		
52AT10-25	52	165,52	163,65	100	15	176,21	42H		
53AT10-25	53	168,70	166,85	100	15	184,15	44H		
54AT10-25	54	171,89	170,05	100	15	184,15	44H		
55AT10-25	55	175,07	173,20	100	15	184,15	44H		
↓	Pulleys available up to this size							↓	↓
130AT10-25	130	Dimensions : contact us						On request	On request

Dimensions in mm

AT-type timing pulley

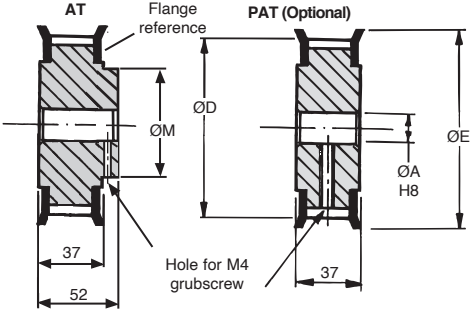
Pitch
AT10
Belt width 32mm

Steel

- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
  Pulley: steel 20NCD2
  Flanges: steel
- All pulleys have flanges
- Secured by a grub screw

Options
- Choose from 15 to 130 teeth

Accessories
- AT10 belts (tome 4 p.83)
- GTC tension rollers (tome 4 p.146)



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
15AT10-32	15	47,75	45,90	35	10	55,56	16L	On request	On request
16AT10-32	16	50,93	49,10	35	10	55,56	16L		
17AT10-32	17	54,11	52,25	40	10	61,91	14H		
18AT10-32	18	57,30	55,45	40	10	61,91	14H		
19AT10-32	19	60,48	58,65	40	10	66,68	15H		
20AT10-32	20	63,66	61,80	40	10	69,85	16H		
21AT10-32	21	66,85	65,00	40	12	74,61	17H		
22AT10-32	22	70,03	68,20	50	12	74,61	17H		
23AT10-32	23	73,21	71,35	50	12	79,38	18H		
24AT10-32	24	76,39	74,55	50	12	82,55	19H		
25AT10-32	25	79,58	77,75	50	12	85,73	20H		

Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
26AT10-32	26	82,76	80,90	50	12	90,49	21H	On request	On request
27AT10-32	27	85,94	84,10	50	12	90,49	21H		
28AT10-32	28	89,13	87,25	50	12	95,25	22H		
29AT10-32	29	92,31	90,45	50	12	98,43	23H		
30AT10-32	30	95,49	93,65	50	12	103,19	24H		
31AT10-32	31	98,68	96,80	50	12	103,19	24H		
32AT10-32	32	101,86	100,00	60	12	106,36	25H		
33AT10-32	33	105,04	103,20	60	12	111,13	26H		
34AT10-32	34	108,23	106,35	60	12	111,13	26H		
35AT10-32	35	111,41	109,55	60	12	114,30	27H		
36AT10-32	36	114,59	112,75	60	12	119,06	28H		
37AT10-32	37	117,77	115,90	60	15	127,00	30H		
38AT10-32	38	120,96	119,10	60	15	127,00	30H		
39AT10-32	39	124,14	122,30	60	15	131,76	31H		
40AT10-32	40	127,32	125,45	75	15	131,76	31H		
41AT10-32	41	130,51	128,65	75	15	134,94	32H		
42AT10-32	42	133,69	131,85	75	15	139,70	33H		
43AT10-32	43	136,87	135,00	75	15	142,88	34H		
44AT10-32	44	140,06	138,20	75	15	150,81	36H		
45AT10-32	45	143,24	141,40	75	15	150,81	36H		
46AT10-32	46	146,42	144,45	75	15	150,81	36H		
47AT10-32	47	149,61	147,75	75	15	158,75	38H		
48AT10-32	48	152,79	150,95	75	15	158,75	38H		
49AT10-32	49	155,97	154,10	75	15	168,28	40H		
50AT10-32	50	159,15	157,30	75	15	168,28	40H		
51AT10-32	51	162,34	160,50	100	15	176,21	42H		
52AT10-32	52	165,52	163,65	100	15	176,21	42H		
53AT10-32	53	168,70	166,85	100	15	184,15	44H		
54AT10-32	54	171,89	170,05	100	15	184,15	44H		
55AT10-32	55	175,07	173,20	100	15	184,15	44H		
↓	**Pulleys available up to this size**							↓	
130AT10-32	130	**Dimensions : contact us**						On request	

Dimensions in mm

AT-type timing pulley

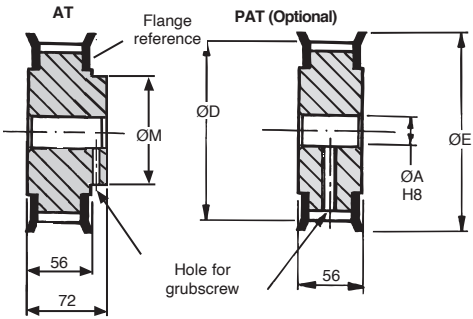
Pitch
AT10
Belt width 50mm

Steel

- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
  Pulley: steel 20NCD2
  Flanges: steel
- All pulleys have flanges
- Secured by a grub screw

Options
- Choose from 15 to 130 teeth

Accessories
- AT10 belts (tome 4 p.83)
- GTC tension rollers (tome 4 p.144)



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
15AT10-50	15	47,75	45,90	35	10	55,56	16L	On request	On request
16AT10-50	16	50,93	49,10	35	10	55,56	16L		
17AT10-50	17	54,11	52,25	40	10	61,91	14H		
18AT10-50	18	57,30	55,45	40	10	61,91	14H		
19AT10-50	19	60,48	58,65	40	10	66,68	15H		
20AT10-50	20	63,66	61,80	40	10	69,85	16H		
21AT10-50	21	66,85	65,00	40	12	74,61	17H		
22AT10-50	22	70,03	68,20	40	12	74,61	17H		
23AT10-50	23	73,21	71,35	50	12	79,38	18H		
24AT10-50	24	76,39	74,55	50	12	82,55	19H		

Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT	Price each 1 to 5 PAT
25AT10-50	25	79,58	77,75	50	12	85,73	20H	On request	On request
26AT10-50	26	82,76	80,90	50	12	90,49	21H		
27AT10-50	27	85,94	84,10	50	12	90,49	21H		
28AT10-50	28	89,13	87,25	50	12	95,25	22H		
29AT10-50	29	92,31	90,45	50	12	98,43	23H		
30AT10-50	30	95,49	93,65	50	12	103,19	24H		
31AT10-50	31	98,68	96,80	50	12	103,19	24H		
32AT10-50	32	101,86	100,00	60	12	106,36	25H		
33AT10-50	33	105,04	103,20	60	12	111,13	26H		
34AT10-50	34	108,23	106,35	60	12	111,13	26H		
35AT10-50	35	111,41	109,55	60	12	114,30	27H		
36AT10-50	36	114,59	112,75	60	12	119,06	28H		
37AT10-50	37	117,77	115,90	60	15	127,00	30H		
38AT10-50	38	120,96	119,10	60	15	127,00	30H		
39AT10-50	39	124,14	122,30	60	15	131,76	31H		
40AT10-50	40	127,32	125,45	75	15	131,76	31H		
41AT10-50	41	130,51	128,65	75	15	134,94	32H		
42AT10-50	42	133,69	131,85	75	15	139,70	33H		
43AT10-50	43	136,87	135,00	75	15	142,88	34H		
44AT10-50	44	140,06	138,20	75	15	150,81	36H		
45AT10-50	45	143,24	141,40	75	15	150,81	36H		
46AT10-50	46	146,42	144,55	75	15	150,81	36H		
47AT10-50	47	149,61	147,75	75	15	158,75	38H		
48AT10-50	48	152,79	150,95	75	15	158,75	38H		
49AT10-50	49	155,97	154,10	75	15	168,28	40H		
50AT10-50	50	159,15	157,30	75	15	168,28	40H		
51AT10-50	51	162,34	160,50	100	15	176,21	42H		
52AT10-50	52	165,52	163,65	100	15	176,21	42H		
53AT10-50	53	168,70	166,85	100	15	184,15	44H		
54AT10-50	54	171,89	170,05	100	15	184,15	44H		
55AT10-50	55	175,07	173,20	100	15	184,15	44H		
↓		Pulleys available up to this size						↓	
130AT10-50	130	Dimensions : contact us						on request	

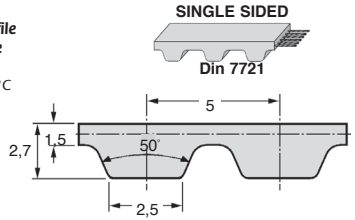
Dimensions in mm

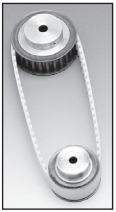
AT-type timing belt

Pitch AT5

Steel cored polyurethane

- 2nd generation metric profile
- Transmits a greater torque
- Pitch 5mm
- Working temp. -30°C to +80°C
- Max. speed 40m/s
- Efficiency: ut up to 98%
- Oil-resistant
- Low noise
- Resists stretching





Info.

- When ordering. add the width to the part number.
  E.g.: **AT5/525/25**

Accessories

- **AT5** belts **(tome 4 p.82)**
- **GTC** tension rollers **(tome 4 p.146)**

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for widths 10mm	16mm	25mm
AT5/225	225	45	25,03 €	37,28 €	50,98 €
AT5/255	255	51	25,67 €	37,73 €	51,33 €
AT5/280	280	56	25,98 €	38,01 €	51,78 €
AT5/300	300	60	26,29 €	38,25 €	52,10 €
AT5/330	330	66	26,42 €	38,74 €	53,06 €
AT5/340	340	68	26,46 €	38,95 €	53,06 €
AT5/375	375	75	26,96 €	39,61 €	54,23 €
AT5/390	390	78	27,10 €	40,04 €	54,78 €
AT5/420	420	84	27,52 €	40,58 €	55,57 €
AT5/450	450	90	28,00 €	41,63 €	56,50 €
AT5/455	455	91	28,10 €	41,82 €	56,88 €
AT5/500	500	100	29,53 €	44,09 €	61,16 €
AT5/525	525	105	30,93 €	46,59 €	64,74 €
AT5/545	545	109	31,83 €	48,40 €	67,71 €
AT5/600	600	120	34,12 €	52,10 €	72,47 €
AT5/610	610	122	34,63 €	52,67 €	73,67 €
AT5/660	660	132	35,56 €	54,23 €	76,02 €
AT5/710	710	142	37,28 €	56,50 €	79,02 €
AT5/720	720	144	37,59 €	56,88 €	79,63 €
AT5/750	750	150	38,01 €	58,11 €	80,79 €
AT5/780	780	156	39,18 €	59,95 €	83,76 €
AT5/825	825	165	40,43 €	62,34 €	86,76 €
AT5/860	860	172	41,38 €	64,14 €	89,78 €
AT5/975	975	195	44,90 €	70,10 €	98,73 €
AT5/1050	1050	210	48,14 €	74,87 €	105,19 €
AT5/1125	1125	225	73,47 €	114,06 €	111,14 €
AT5/1500	1500	300	59,95 €	95,70 €	137,98 €
AT5/2000	2000	400	83,76 €	129,65 €	183,24 €

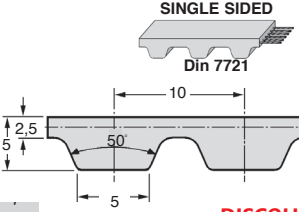
Dimensions en mm

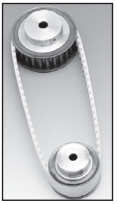
Steel cored polyurethane

Pitch AT10

- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Working temp. -30°C to +80°C
- Max. speed 40m/s
- Efficiency: up to 98%
- Oil-resistant
- Low noise
- Resists stretching

SINGLE SIDED





Info.

- When ordering. add the width to the part number E.g.: **AT5/5**.

Accessories

- **AT10** belts *(tome 4 p.83)*
- **GTC** tension rollers *(tome 4 p.146)*

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for widths 25mm	32mm	50mm
AT10/500	500	50	77,22 €	97,47 €	143,38 €
AT10/560	560	56	81,40 €	-	152,90 €
AT10/600	600	60	83,76 €	107,02 €	156,47 €
AT10/610	610	61	84,38 €	107,64 €	157,59 €
AT10/660	660	60	89,78 €	114,76 €	167,76 €
AT10/700	700	70	93,29 €	120,11 €	174,87 €
AT10/730	730	73	96,26 €	124,88 €	180,25 €
AT10/780	780	78	101,08 €	130,24 €	190,36 €
AT10/800	800	80	104,02 €	132,63 €	192,78 €
AT10/840	840	84	108,82 €	139,17 €	202,90 €
AT10/890	890	89	116,57 €	149,85 €	218,41 €
AT10/920	920	92	121,30 €	157,04 €	229,12 €
AT10/960	960	96	129,08 €	167,76 €	242,22 €
AT10/980	980	98	133,18 €	169,55 €	254,71 €
AT10/1000	1000	100	136,18 €	174,33 €	258,88 €
AT10/1010	1010	101	137,36 €	174,87 €	260,63 €
AT10/1050	1050	105	139,77 €	179,71 €	266,01 €
AT10/1080	1080	108	141,56 €	182,02 €	268,41 €
AT10/1100	1100	110	144,54 €	185,02 €	273,74 €
AT10/1150	1150	115	148,08 €	190,36 €	282,05 €
AT10/1200	1200	120	151,66 €	195,67 €	289,25 €
AT10/1210	1210	121	152,29 €	196,90 €	291,00 €
AT10/1250	1250	125	156,47 €	201,10 €	297,00 €
AT10/1280	1280	128	157,59 €	204,08 €	300,53 €
AT10/1300	1300	130	160,01 €	206,45 €	304,11 €
AT10/1320	1320	132	162,39 €	209,43 €	309,46 €
AT10/1350	1350	135	165,98 €	213,57 €	316,60 €
AT10/1360	1360	136	167,76 €	215,40 €	319,60 €
AT10/1400	1400	140	172,51 €	223,73 €	329,76 €
AT10/1480	1480	148	182,02 €	236,80 €	349,39 €
AT10/1500	1500	150	183,84 €	239,82 €	353,54 €
AT10/1600	1600	160	195,67 €	255,84 €	377,38 €
AT10/1700	1700	170	208,25 €	271,37 €	401,76 €
AT10/1720	1720	172	211,23 €	273,74 €	405,90 €
AT10/1800	1800	180	220,16 €	287,44 €	424,99 €
AT10/1860	1860	186	227,32 €	296,38 €	437,49 €
AT10/1940	1940	194	238,02 €	312,47 €	462,56 €

Dimensions in mm

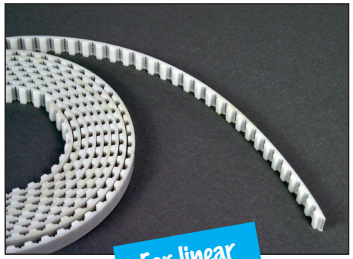
AT-type timing belt per metre

Pitch
AT5
AT10

Steel cored polyurethane

SINGLE-SIDED

Din 7721



- **2nd generation metric profile**
- **Transmits a greater load**
- Pitch 5 or 10mm
- **For linear movements**
- Secured using rigid connecting plates
- Working temp. -20°C to +80°C
- Max. speed 40m/s
- Tolerance over length ±0.8mm/1000mm
- Efficiency: up to 98%
- Oil-resistant
- Low noise
- Resists stretching

Uses

- For reciprocating movements

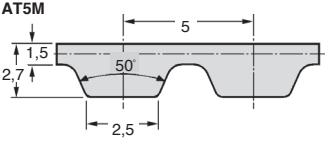
Info.

- Min. length: 1000mm
- Supplied in multiples of 1 metre
- When ordering. add the length (L) and the width (l) to the part number (AT5M/L/l). E.g.: **AT5M/1000/16**

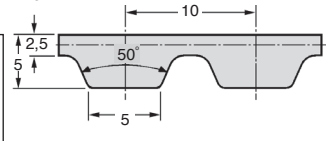
Accessories

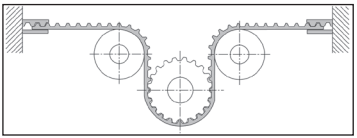
- **AT.../P** connecting plate **(tome 4 p.85)**
- **AT** pulley **(tome 4 p.62)**

AT5M



AT10M





Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-7%	On request

Part number	Pitch	Price 1 to 5, per metre for width 10mm	16mm	25mm	32mm	50mm
AT5M	AT5	37,57 €	44,64 €	83,69 €	-	-
AT10M	AT10	-	-	72,17 €	92,12 €	102,38 €

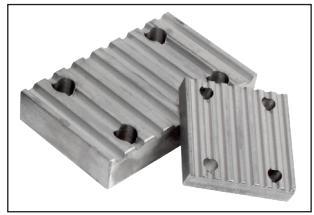
Dimensions in mm

Alu Connecting plate for AT type timing belts

For AT5M and AT10M timing belts

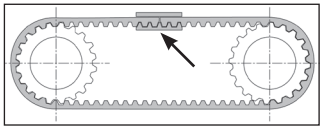
Pitch
AT5
AT10

- **For linear movement**
- Rigid connecting plate
- Pitches: 5 and 10mm
- For use with **AT5M** and **AT10M** belts supplied by the metre
- Material:
  Aluminium

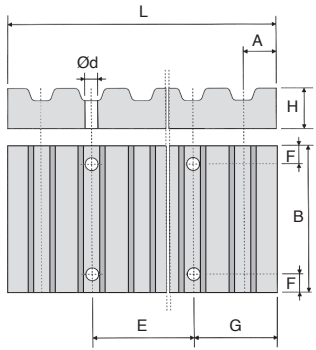


Uses

- For closing a belt or attaching one end of a belt to a frame



Typical application



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Pitch	B	L	H	E	F	G	Ød	A	Belt width	Stock*	Price each 1 to 5
AT5/25P	AT5	44	41,5	8	25	6	8,25	5,5	3,25	25	✔	18,28 €
AT10/25P	AT10	50	80,0	15	50	8	15,00	9,0	5,00	25	✔	27,23 €
AT10/32P	AT10	57	80,0	15	50	8	15,00	9,0	5,00	32	✔	31,04 €
AT10/50P	AT10	75	80,0	15	50	8	15,00	9,0	5,00	50	✔	26,02 €

**Depending on availability - Dimensions in mm*

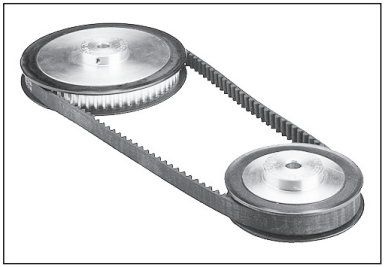
Find our full range of

FEET

on HPCEUROPE.COM

- Swivel base
- Sheet steel base
- Solid base

Belt calculation



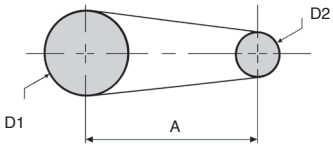
*Each belt has a fixed length, therefore when designing your system include a mechanism for altering the distance between the pulleys so that the belt or chain can be tensioned correctly. Please see our ranges of belt idlers (**BTE, BTE/SS, TMR** or **TFR**) and rollers (**GTC** or **GTC/SS**). Please feel free to contact us if you need assistance when dimensioning your system.*

Determination of belt length

D1 = Pitch diameter of large pulley
D2 = Pitch diameter of small pulley
A = Center distance
L = Total belt length
Z1 & **Z2** = No of teeth
P = Pitch

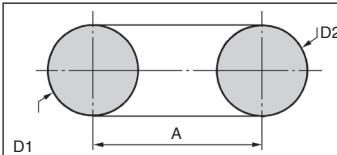
$$D1 = \frac{Z_1 \cdot P}{\pi} \qquad D2 = \frac{Z_2 \cdot P}{\pi}$$

$$\text{No. of teeth} = \frac{L}{P}$$



• *For a simple transmission two pulleys (reducer or multiplier):*

$$L\ (mm) = \frac{\pi}{2} \cdot (D2 + D1) + 2 \cdot A + \frac{(D2 - D1)^2}{4 \cdot A}$$

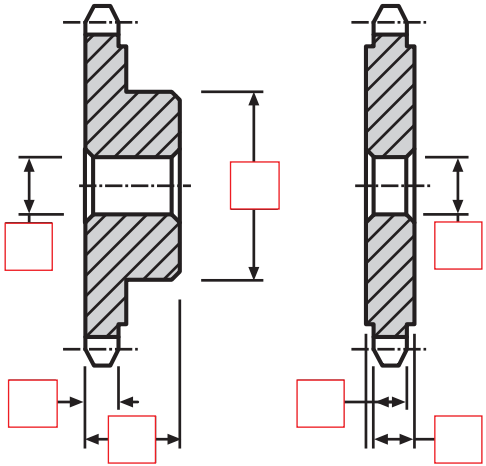


• *For a simple transmission two pulleys with a ratio of 1/1:*

$$L\ (mm) = 2 \cdot A + Z_1 \cdot P$$

CHAIN SPROCKETS
PLEASE FILL IN THE DETAILS

Please complete this form and return it to us!
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055



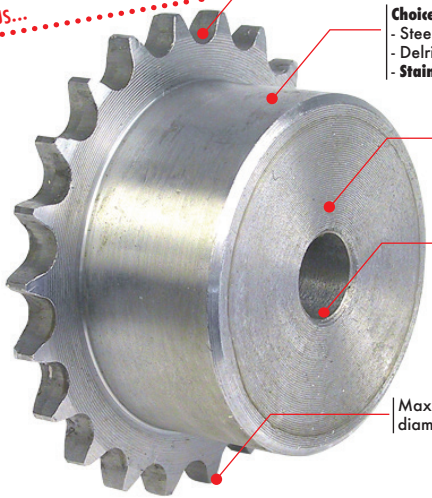
SPROCKET CHARACTERISTICS			
Pitch		Keyway	
N° of teeth		Tapped hole	
Ø PCD		Material	
Ø external		Treatment	
Quantity		Other:	

MADE TO MEASURE

CHAIN SPROCKETS

1. SMALL CHANGES: Find the Part N° of the standard part (from the catalogue or website) and specify the modification(s) required (bore, keyway....)
2. CHANGES TO DIMENSIONS: Please complete the form opposite
3. CUSTOM MADE PART: Please send us your drawing(s)

Made to measure versions of SIMPLEX, DUPLEX OR TRIPLEX sprockets are available!
Contact us...



DID YOU KNOW?
A system built using sprockets and chains must be kept under tension and correctly lubricated. Please do not forget to include a chain tensioner in your system.

Contact our technical support team for more information

PLASTIC CHAIN SPROCKET

NEW

p.92

CHAIN SPROCKET

p.95

STAINLESS STEEL CHAIN SPROCKET

stainless steel

p.99

CHAIN SPROCKET WITH HARDENED TEETH

p.104

SINGLE CHAIN SUPPLIED BY THE METRE

p.122

CHAIN LINK

p.123

SPROCKETS AND CHAINS

P. 92-127

SINGLE CHAIN SUPPLIED BY THE METRE

stainless steel

p.124

CHAIN LINK

stainless steel

p.125

CHAIN TOOL

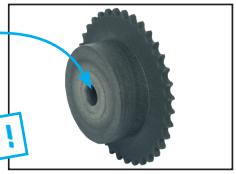
p.127

Plastic chain sprocket

New Eco Nyl

DIN 06B-1 3/8"

Moulded Nylon PA6



- **Pitch 3/8" (9,525mm) (DIN 06B-1)**
- Roll diameter 6.35mm
- Material
  Glass-fibre reinforced nylon PA6
  Grey colour

Application

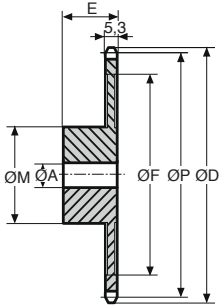
- Low coefficient of friction
- Requires little lubrication
- Quiet
- Resistant to aqueous and aggressive environments

Option

- Bore + keyway on request from 10 pieces upwards

Info

- Rough pilot bore after moulding
- **Pilot bore dimension given as a guide only



DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Z teeth	ØD	ØP	ØM	Pre bore ØA**	E	ØF	Price each 1 to 9
PCS37-12/PA6	12	40,5	36,8	25	8	25	-	3,25 €
PCS37-13/PA6	13	43,5	39,8	28	8	25	-	3,93 €
PCS37-14/PA6	14	46,5	42,8	30	8	25	-	4,28 €
PCS37-15/PA6	15	49,5	45,8	34	8	25	-	4,85 €
PCS37-17/PA6	17	55,5	51,8	35	10	28	-	5,13 €
PCS37-18/PA6	18	58,6	54,9	40	10	28	-	5,87 €
PCS37-19/PA6	19	61,6	57,9	44	12	28	-	6,26 €
PCS37-20/PA6	20	64,6	60,9	44	12	28	-	6,79 €
PCS37-21/PA6	21	67,6	63,9	48	12	28	-	6,83 €
PCS37-25/PA6	25	79,7	76,0	57	12	28	-	7,92 €
PCS37-30/PA6	30	94,8	91,12	40	12	28	-	9,73 €
PCS37-36/PA6	36	113,0	109,2	70	16	30	-	10,18 €

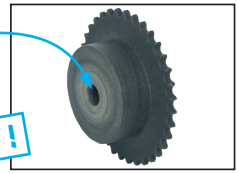
Dimensions in mm

Plastic chain sprocket

Moulded Nylon PA6

DIN 08B-1

1/2"



- **Pitch 1/2" (12,7mm) (DIN 08B-1)**
- Roller diameter 8,51mm
- Material :
  Glass-fibre reinforced nylon PA6
  Grey colour

Application

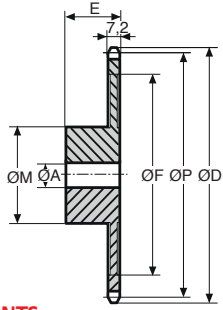
- Low coefficient of friction
- Requires little lubrication
- Quiet
- Resistant to aqueous and aggressive environments

Option

- Bore + keyway on request from 10 pieces upwards

Info

- Rough pilot bore after moulding
- **Pilot bore dimension given as a guide only



DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Z teeth	ØD	ØP	ØM	Pre bore ØA**	E	ØF	Price each 1 to 9
PCS50-9/PA6	9	42,0	37,13	24	10	28	-	4,74 €
PCS50-10/PA6	10	45,9	41,10	26	10	28	-	5,09 €
PCS50-12/PA6	12	54,6	49,07	32	10	28	-	5,13 €
PCS50-14/PA6	14	63,2	57,07	41	10	28	-	5,16 €
PCS50-15/PA6	15	65,9	61,09	45	10	28	-	5,20 €
PCS50-16/PA6	16	69,9	65,10	45	10	28	-	5,23 €
PCS50-17/PA6	17	74,0	69,11	50	11	28	-	6,19 €
PCS50-18/PA6	18	78,0	73,13	50	11	28	-	6,33 €
PCS50-20/PA6	20	86,0	81,19	50	11	28	-	8,48 €
PCS50-21/PA6	21	91,3	85,22	50	11	29	-	8,88 €
PCS50-28/PA6	28	118,3	113,40	60	16	29	-	11,31 €
PCS50-30/PA6	30	126,3	121,50	60	16	30	-	12,20 €
PCS50-36/PA6	36	150,6	145,70	60	16	30	125	14,25 €
PCS50-38/PA6	38	158,6	153,80	60	16	30	125	15,24 €
PCS50-40/PA6	40	166,8	161,87	60	16	30	135	17,15 €

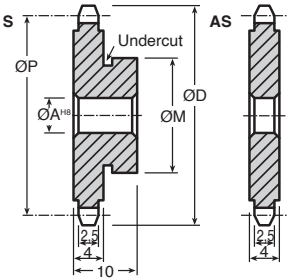
Dimensions in mm

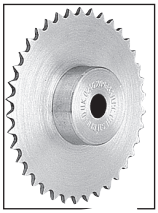
Chain sprocket

Sta Size XS

PITCH 4mm

Stainless steel





stainless steel

- **Pitch 4mm**
- Roller diameter 2.5mm
- Material: stainless steel (303) Z10CNF 18.09

Accessories

- **SUA-4** chain *(tome 4 p.122)*

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Smallest size

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	ØP	ØD	ØM	ØA	Undercut Ø x width	Price each 1 to 5 S	AS
S 4-10	10	12,94	14,71	12	4	8,00 x 2,5	18,98 €	On request
S 4-11	11	14,20	16,02	12	4	8,00 x 2,5	20,16 €	
S 4-12	12	15,45	17,32	12	4	8,00 x 2,5	21,18 €	
S 4-13	13	16,71	18,62	12	4	9,05 x 2,5	22,24 €	
S 4-14	14	17,97	19,92	12	4	10,33 x 2,5	24,11 €	
S 4-15	15	19,23	21,21	12	4	11,60 x 2,5	24,71 €	
S 4-16	16	20,50	22,50	12	4	-	26,25 €	
S 4-17	17	21,76	23,79	12	4	-	28,43 €	
S 4-18	18	23,06	25,08	12	4	-	29,67 €	
S 4-19	19	24,29	26,37	12	4	-	31,01 €	
S 4-20	20	25,57	27,65	15	5	-	32,45 €	
S 4-21	21	26,83	28,94	15	5	-	33,81 €	
S 4-23	23	29,37	31,50	15	5	-	35,23 €	
S 4-25	25	31,91	34,06	15	5	-	36,59 €	
S 4-27	27	34,45	36,62	15	5	-	39,93 €	
S 4-30	30	38,26	40,45	15	5	-	44,56 €	
S 4-33	33	42,08	44,29	15	5	-	46,95 €	
S 4-35	35	44,62	46,84	15	5	-	48,29 €	
S 4-36	36	45,89	48,12	15	5	-	49,62 €	
S 4-38	38	48,43	50,67	15	5	-	49,97 €	
S 4-40	40	50,98	53,22	20	6	-	50,34 €	
S 4-42	42	53,52	55,77	20	6	-	50,54 €	
S 4-44	44	56,07	58,32	20	6	-	51,00 €	
S 4-48	48	61,12	63,42	20	6	-	51,47 €	
S 4-50	50	63,66	65,98	20	6	-	51,94 €	
S 4-60	60	76,39	78,72	20	6	-	53,99 €	
S 4-80	80	101,86	104,20	20	6	-	167,38 €	

Dimensions in mm

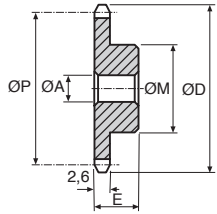
C45 steel

DIN 04-1

6mm

Economy range

- **Pitch 6mm (DIN 04-1)**
- Roller diameter 4mm
- Material:
  C45 UNI7845 steel
- **HPC are unable to modify these parts**
- **The prebore dimensions are given as a guide only and are subject to change



Accessories

- Chain part number **SUA-6/M** **(tome 4 p.122)**

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z teeth	ØP	ØD	ØM	ØA**	E	Weight (kg)	Price each
PCS6-10	10	19,42	21,70	13	6	10	0,01	2,02 €
PCS6-11	11	21,30	23,60	14	6	10	0,01	2,16 €
PCS6-12	12	23,18	25,40	16	6	10	0,02	3,38 €
PCS6-13	13	25,05	27,30	18	8	10	0,02	3,39 €
PCS6-14	14	26,96	29,20	20	8	10	0,03	3,32 €
PCS6-15	15	28,86	31,00	20	8	10	0,03	3,40 €
PCS6-16	16	30,76	33,00	20	8	13	0,03	3,41 €
PCS6-17	17	32,65	35,00	20	8	13	0,04	3,36 €
PCS6-18	18	34,55	36,90	20	8	13	0,04	3,36 €
PCS6-19	19	36,44	38,80	20	8	13	0,04	3,33 €
PCS6-20	20	38,34	40,70	20	8	13	0,04	3,31 €
PCS6-21	21	40,25	42,60	25	8	13	0,06	3,64 €
PCS6-22	22	42,16	44,50	25	8	13	0,06	4,04 €
PCS6-23	23	44,06	46,40	25	8	13	0,06	4,23 €
PCS6-24	24	45,96	48,30	25	8	13	0,07	4,33 €
PCS6-25	25	47,87	50,20	25	8	13	0,07	4,73 €
PCS6-27	27	51,67	54,00	30	8	15	0,10	5,02 €
PCS6-30	30	57,42	59,80	30	8	15	0,11	6,67 €
PCS6-33	33	63,11	65,50	30	8	15	0,12	7,17 €
PCS6-35	35	66,93	69,30	30	8	15	0,13	7,55 €
PCS6-36	36	68,84	71,20	30	8	15	0,13	8,16 €
PCS6-38	38	72,66	75,00	30	8	15	0,14	8,34 €
PCS6-40	40	76,47	78,90	30	8	15	0,15	9,08 €
PCS6-45	45	86,01	88,50	40	10	16	0,46	11,41 €
PCS6-48	48	91,74	94,20	62	12	18	0,48	11,79 €
PCS6-50	50	95,55	98,00	50	12	20	0,49	11,81 €
PCS6-57	57	108,93	111,40	50	12	20	0,53	13,13 €
PCS6-76	76	145,19	147,60	60	12	20	1,58	25,90 €

Dimensions in mm

Chain sprocket

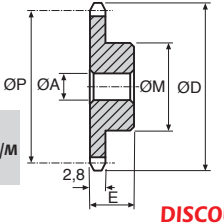
DIN 05B-1

8mm

C45 steel

- **Pitch 8mm (DIN 05B-1)**
- Roller diameter 5mm
- Material:
  C45 UNI7845 steel
- **HPC are unable to modify these parts**
- **The prebore dimensions are given as a guide only and are subject to change

Economy range



Accessories

- Chain part number **SBR-8/M, SBS-8/M** **(tome 4 p.122, p.124)**

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z teeth	ØP	ØD	ØM	ØA**	E	Weight (kg)	Price each
PCS8-8	8	20,90	24,0	13	6	12	0,01	1,93 €
PCS8-9	9	23,39	26,6	15	6	12	0,02	1,92 €
PCS8-10	10	25,89	29,2	17	8	12	0,02	2,03 €
PCS8-11	11	28,39	31,7	18	8	13	0,03	2,15 €
PCS8-12	12	30,91	34,2	20	8	13	0,04	3,09 €
PCS8-13	13	33,42	36,7	23	8	13	0,05	3,13 €
PCS8-14	14	35,95	39,2	25	8	13	0,05	3,27 €
PCS8-15	15	38,48	41,7	28	8	13	0,07	3,50 €
PCS8-16	16	41,01	44,3	30	8	14	0,08	3,49 €
PCS8-17	17	43,53	46,8	30	8	14	0,09	3,64 €
PCS8-18	18	46,07	49,3	30	8	14	0,09	4,21 €
PCS8-19	19	48,61	51,9	30	8	14	0,09	4,20 €
PCS8-20	20	51,14	54,4	30	8	14	0,10	4,19 €
PCS8-21	21	53,68	57,0	35	8	14	0,12	4,28 €
PCS8-23	23	58,75	62,0	35	8	14	0,13	4,47 €
PCS8-25	25	63,83	67,5	35	8	14	0,15	4,93 €
PCS8-27	27	68,91	72,2	40	10	16	0,20	5,17 €
PCS8-30	30	76,53	79,8	40	10	16	0,22	7,08 €
PCS8-33	33	84,16	87,5	40	10	16	0,24	7,61 €
PCS8-35	35	89,25	92,5	40	10	16	0,25	8,33 €
PCS8-36	36	91,79	95,0	40	10	16	0,26	8,70 €
PCS8-38	38	96,88	100,2	40	10	16	0,28	9,64 €
PCS8-39	39	99,42	102,7	40	10	16	0,29	9,51 €
PCS8-40	40	101,97	105,3	40	10	16	0,58	10,84 €
PCS8-45	45	114,69	118,0	60	12	20	0,67	14,23 €
PCS8-48	48	122,32	125,6	60	12	20	0,63	16,78 €
PCS8-50	50	127,41	130,7	60	12	20	1,00	16,54 €

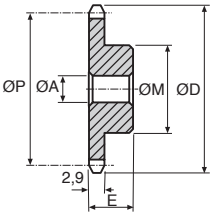
Dimensions in mm

C45 steel

Pitch 1/4”

Economy range

- **Pitch 1/4” (6,35mm)**
- Roller diameter 3,3mm
- Material:
  C45 UNI7845 steel
- **HPC *are unable to modify these parts***
- **The prebore dimensions are given as a guide only and are subject to change



Accessories

- Chain part number **SUA-250/M** **(tome 4 p.122)**

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z teeth	ØP	ØD	ØM	ØA**	E	Weight (kg)	Price each
PCS25-8	8	16,58	19,4	10	6	12	0,01	2,24 €
PCS25-9	9	18,56	21,4	11,5	6	12	0,01	2,25 €
PCS25-10	10	20,55	23,3	13	6	12	0,02	2,36 €
PCS25-11	11	22,54	25,3	15	8	13	0,02	3,06 €
PCS25-12	12	24,53	27,3	17	8	13	0,02	3,52 €
PCS25-13	13	26,53	29,3	17	8	13	0,03	3,51 €
PCS25-14	14	28,53	31,3	17	8	13	0,03	3,72 €
PCS25-15	15	30,53	33,3	20	8	13	0,04	3,96 €
PCS25-16	16	32,55	35,3	22	8	14	0,05	3,94 €
PCS25-17	17	34,55	37,3	22	8	14	0,05	4,00 €
PCS25-18	18	36,56	39,4	25	8	14	0,06	4,14 €
PCS25-19	19	38,58	41,4	25	8	14	0,06	4,24 €
PCS25-20	20	40,58	43,4	25	8	14	0,06	4,34 €
PCS25-21	21	42,60	45,4	30	8	14	0,08	4,67 €
PCS25-25	25	50,66	53,5	30	8	14	0,10	5,63 €
PCS25-28	28	56,71	59,5	30	8	16	0,12	7,13 €
PCS25-29	29	58,73	61,5	30	8	16	0,12	7,53 €
PCS25-30	30	60,75	63,6	30	8	16	0,13	7,59 €
PCS25-32	32	64,78	67,6	30	8	16	0,13	8,81 €
PCS25-33	33	66,80	69,6	30	8	16	0,14	9,20 €
PCS25-34	34	68,82	71,6	30	8	16	0,17	9,31 €
PCS25-35	35	70,84	73,6	30	8	16	0,17	9,74 €
PCS25-36	36	72,85	75,6	30	8	16	0,15	10,22 €
PCS25-37	37	74,87	77,7	30	8	16	0,18	11,98 €
PCS25-38	38	76,89	79,7	30	8	16	0,16	13,22 €
PCS25-39	39	78,91	81,7	30	8	16	0,19	14,43 €
PCS25-40	40	80,93	83,7	30	8	16	0,17	15,81 €

Dimensions in mm

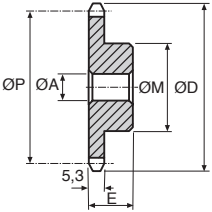
Chain sprocket

DIN06B-1
3/8"

C43 steel

Economy range

- **Pitch 3/8" (9.525mm) (DIN 06B-1)**
- Roller diameter 6.35mm
- Material:
  Steel C43
- **We are unable to modify these parts**
- **Pilot bore dimensions are given as a guide only and are subject to change**



Options

- American pitch (ASA) on request
- **Custom made versions are available**

Accessories

- **SBR-375** chains
(tome 4 p.122)

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP	ØD	ØM	Pilot bore not guaranteed ØA**	E	Stock*	Price each 1 to 5
PCS37-8	8	24,89	28,0	15	8	22	✔	2,00 €
PCS37-9	9	27,85	31,0	18	8	22	✔	2,16 €
PCS37-10	10	30,82	34,0	20	8	22	✔	2,13 €
PCS37-12	12	36,80	40,0	25	8	25	✔	3,21 €
PCS37-13	13	39,80	43,0	28	10	25	✔	3,42 €
PCS37-14	14	42,80	46,3	31	10	25	✔	3,84 €
PCS37-15	15	45,81	49,3	34	10	25	✔	3,88 €
PCS37-16	16	48,82	52,3	37	10	28	✔	4,46 €
PCS37-17	17	51,83	55,3	40	10	28	✔	5,04 €
PCS37-18	18	54,85	58,3	43	10	28	✔	5,19 €
PCS37-20	20	60,89	64,3	46	10	28	✔	5,97 €
PCS37-21	21	63,91	68,0	48	12	28	✔	6,05 €
PCS37-22	22	66,93	71,0	50	12	28	✔	6,81 €
PCS37-23	23	69,95	73,5	52	12	28	-	7,39 €
PCS37-24	24	72,97	77,0	54	12	28	✔	7,86 €
PCS37-25	25	76,00	80,0	57	12	28	✔	8,60 €
PCS37-26	26	79,02	83,0	60	12	28	✔	8,73 €
PCS37-27	27	82,04	86,0	60	12	28	✔	8,97 €
PCS37-28	28	85,07	89,0	60	12	28	-	9,15 €
PCS37-29	29	88,09	92,0	60	12	28	-	9,69 €
PCS37-30	30	91,12	94,7	60	12	28	✔	10,14 €
PCS37-32	32	97,17	101,3	65	14	30	✔	11,95 €
PCS37-33	33	100,20	104,3	65	14	30	-	12,74 €
PCS37-34	34	103,23	107,3	65	14	30	✔	12,72 €
PCS37-35	35	106,26	110,4	65	14	30	-	13,58 €
PCS37-36	36	109,29	113,4	70	14	30	-	14,15 €
PCS37-38	38	115,34	119,5	70	14	30	-	14,72 €
PCS37-40	40	121,40	125,5	70	14	30	✔	15,16 €

*Depending on availability - Dimensions in mm

Stainless steel chain sprocket

304 stainless steel

DIN 06B-1
3/8"

- **Pitch 3/8" (9.525mm) (DIN 06B-1)**
- Roller diameter 6.35mm
- Material:
  stainless steel AISI 304
- ***We are unable to modify these parts***
- *Pilot bore dimensions are given as a guide only and are suject to change

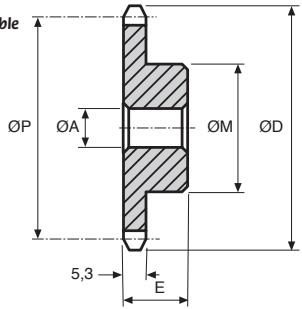
stainless steel

Options

- American pitch (ASA) on request
- ***Custom made versions are available***

Accessories

- ***SBS-375*** chain
  tome 4 p.122)



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-12%	On request

Part number	Z teeth	ØP	ØD	ØM	Pilot bore no guaranteed ØA*	E	Stock*	Price each 1 to 3
PCS37-12/SS	12	36,80	40,0	25	8	25	✔	16,24 €
PCS37-13/SS	13	39,80	43,0	28	10	25	✔	16,93 €
PCS37-15/SS	15	45,81	49,3	34	10	25	✔	18,59 €
PCS37-16/SS	16	48,82	52,3	37	10	28	✔	22,70 €
PCS37-17/SS	17	51,83	55,3	40	10	28	✔	24,22 €
PCS37-18/SS	18	54,85	58,3	43	10	28	✔	25,23 €
PCS37-19/SS	19	57,87	61,3	46	10	28	-	25,69 €
PCS37-20/SS	20	60,89	64,3	46	10	28	✔	27,23 €
PCS37-21/SS	21	63,91	68,0	48	12	28	-	25,16 €
PCS37-23/SS	23	69,95	73,5	52	12	28	-	30,55 €
PCS37-25/SS	25	76,00	80,0	57	12	28	✔	33,59 €
PCS37-30/SS	30	91,12	94,7	60	12	30	✔	41,49 €

*Depending on availability - Dimensions in mm

Chain sprocket

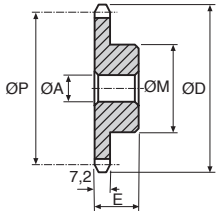
DIN 08B-1

1/2"

C43 steel

Economy range

- **Pitch 1/2" (12.7mm) (DIN 08B-1)**
- Roller diameter 8.51mm
- Material: steel C43
- **We are unable to modify these parts**
- **Pilot bore dimensions are given as a guide only and are sujebct to change



Options

- American pitch (ASA) on request
- **Custom made versions are available**

Accessories

- **SBR-500** chains **(tome 4 p.122)**

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP	ØD	ØM	Pilot bore not guaranteed ØA**	E	Stock*	Price each 1 to 5
PCS50-8	8	33,18	37,2	20	10	25	✔	2,31 €
PCS50-9	9	37,13	41,0	24	10	25	✔	3,47 €
PCS50-10	10	41,10	45,2	26	10	25	✔	4,02 €
PCS50-12	12	49,07	53,0	33	10	28	✔	5,35 €
PCS50-15	15	61,09	65,5	45	10	28	✔	6,76 €
PCS50-16	16	65,10	69,5	50	12	28	✔	7,48 €
PCS50-18	18	73,14	77,8	56	12	28	✔	8,11 €
PCS50-20	20	81,19	85,8	64	12	28	✔	10,48 €
PCS50-21	21	85,22	89,7	68	14	28	✔	11,11 €
PCS50-22	22	89,24	93,8	70	14	28	✔	11,48 €
PCS50-23	23	93,27	98,2	70	14	28	-	11,90 €
PCS50-24	24	97,29	101,8	70	14	28	✔	12,67 €
PCS50-25	25	101,33	105,8	70	14	28	✔	12,92 €
PCS50-26	26	105,36	110,0	70	16	30	✔	13,74 €
PCS50-27	27	109,40	114,0	70	16	30	-	13,94 €
PCS50-28	28	113,42	118,0	70	16	30	✔	14,28 €
PCS50-29	29	117,46	122,0	80	16	30	-	16,18 €
PCS50-30	30	121,50	126,1	80	16	30	✔	18,00 €
PCS50-31	31	125,54	130,2	90	16	30	-	18,93 €
PCS50-32	32	129,56	134,3	90	16	30	-	19,18 €
PCS50-33	33	133,60	138,4	90	16	30	-	19,39 €
PCS50-34	34	137,64	142,6	90	16	30	-	21,75 €
PCS50-35	35	141,68	146,7	90	16	30	-	22,36 €
PCS50-36	36	145,72	151,0	90	20	35	✔	24,79 €
PCS50-37	37	149,76	154,6	90	20	35	-	25,47 €
PCS50-38	38	153,80	158,6	90	20	35	-	25,63 €
PCS50-39	39	157,83	162,7	90	20	35	-	26,91 €
PCS50-40	40	161,87	166,8	90	20	35	✔	27,43 €

*Depending on availability - Dimensions in mm

Stainless steel chain sprocket

304 Stainless steel

DIN 08B-1

1/2”

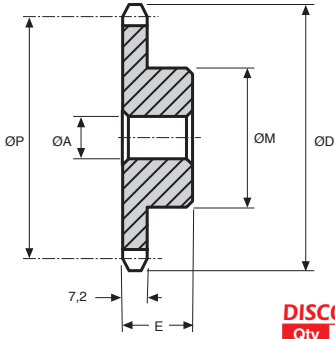
- **Pitch 1/2” (12.7mm) (DIN 08B-1)**
- Roller diameter 8.51mm
- Material:
  stainless steel AISI 304
- ***We are unable to modify these parts***
- *Pilot bore dimensions are given as a guide only and are suject to change

Options

- American pitch (ASA) on request
- ***Custom made versions are available***

Accessories

- ***SBS-500*** chain
  tome 4 p.124)



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-12%	On request

Part number	Z teeth	ØP	ØD	ØM	Pilot bore no guaranteed ØA*	E	Stock*	Price each 1 to 3
PCS50-12/SS	12	49,07	53,0	33	10	28	✔	20,44 €
PCS50-13/SS	13	53,06	57,4	37	10	28	✔	22,75 €
PCS50-15/SS	15	61,09	65,5	45	10	28	✔	25,91 €
PCS50-16/SS	16	65,10	69,5	50	12	28	-	27,20 €
PCS50-17/SS	17	69,11	73,6	52	12	28	✔	29,60 €
PCS50-18/SS	18	73,14	77,8	56	12	28	-	34,05 €
PCS50-19/SS	19	77,16	81,7	60	12	28	✔	36,12 €
PCS50-20/SS	20	81,19	85,8	64	12	28	✔	39,95 €
PCS50-21/SS	21	85,22	89,7	68	14	28	-	44,07 €
PCS50-23/SS	23	93,27	98,2	70	14	28	-	49,55 €
PCS50-25/SS	25	101,33	105,8	70	14	28	✔	59,14 €
PCS50-30/SS	30	121,50	126,1	80	16	30	-	88,13 €

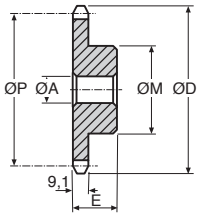
*Depending on availability - Dimensions in mm

Chain sprocket

DIN 10B-1

5/8"

C43 steel



- **Pitch 5/8" (15.875 mm) (DIN 10B-1)**
- Roller diameter 10.16mm
- Material: Steel C43
- **We are unable to modify these parts**
- **Pilot bore dimensions are given as a guide only and are subject to change

Options

- American pitch (ASA) on request
- **Custom made versions are available**

Accessories

- **SBR-625** chains **(tome 4 p.122)**

Economy range

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP	ØD	ØM	Pilot bore not guaranteed ØA**	E	Stock*	Price each 1 to 5
PCS62-8	8	41,48	47,0	25	10	25	✔	3,88 €
PCS62-9	9	46,42	52,6	30	10	25	-	4,40 €
PCS62-10	10	51,37	57,5	35	10	25	✔	5,25 €
PCS62-13	13	66,32	73,0	47	12	30	✔	8,34 €
PCS62-15	15	76,36	83,0	57	12	30	✔	9,65 €
PCS62-16	16	81,37	88,0	60	14	30	✔	10,93 €
PCS62-17	17	86,39	93,0	60	14	30	✔	11,60 €
PCS62-18	18	91,42	98,3	70	14	30	✔	14,23 €
PCS62-20	20	101,49	108,4	75	14	30	✔	14,47 €
PCS62-21	21	106,52	113,4	75	16	30	✔	15,01 €
PCS62-22	22	111,55	118,0	80	16	30	-	16,07 €
PCS62-23	23	116,58	123,4	80	16	30	-	16,77 €
PCS62-24	24	121,62	128,3	80	16	30	-	17,43 €
PCS62-25	25	126,66	134,0	80	16	30	-	18,70 €
PCS62-26	26	131,70	139,0	85	20	35	-	22,23 €
PCS62-27	27	136,75	144,0	85	20	35	-	24,00 €
PCS62-28	28	141,78	148,7	90	20	35	-	24,98 €
PCS62-29	29	146,83	153,8	90	20	35	-	26,39 €
PCS62-30	30	151,87	158,8	90	20	35	✔	27,52 €
PCS62-31	31	156,92	163,9	95	20	35	-	29,40 €
PCS62-32	32	161,95	168,9	95	20	35	-	30,84 €
PCS62-33	33	167,00	174,5	95	20	35	-	31,85 €
PCS62-34	34	172,05	179,0	95	20	35	-	30,98 €
PCS62-35	35	177,10	184,1	95	20	35	-	31,58 €
PCS62-38	38	192,24	199,2	100	20	35	-	38,54 €
PCS62-39	39	197,29	204,2	100	20	35	-	40,35 €
PCS62-40	40	202,34	209,3	100	20	35	✔	41,45 €

*Depending on availability - Dimensions in mm

Stainless steel chain sprocket

304 stainless steel

DIN 10B-1

5/8”

- **Pitch 5/8” (15.875mm) (DIN 10B-1)**
- Roller diameter 10.16mm
- Material:
  strainless steel AISI 304
- **We are unable to modify these parts**
- *Pilot bore dimensions are given as a guide only and are suject to change

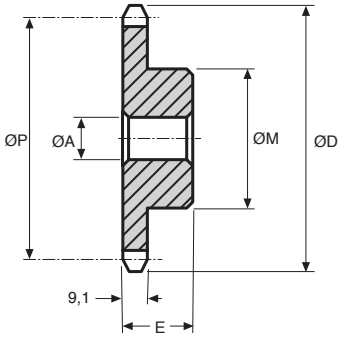
stainless steel

Options

- American pitch(ASA) on request
- **Custom made versions are available**

Accessories

- **SBS-625** chain **(tome 4 p.124)**



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-12%	On request

Part number	Z Teeth	ØP	ØD	ØM	*Pilot bore not guaranteed ØA	E	Price each. 1 to 3
PCS62-12/SS	12	61,34	68,0	42	12	30	29,13 €
PCS62-13/SS	13	66,32	73,0	47	12	30	31,60 €
PCS62-15/SS	15	76,36	83,0	57	12	30	38,89 €
PCS62-16/SS	16	81,37	88,0	60	14	30	43,62 €
PCS62-17/SS	17	86,39	93,0	60	14	30	46,52 €
PCS62-18/SS	18	91,42	98,3	70	14	30	58,24 €
PCS62-19/SS	19	96,45	103,3	70	14	30	59,08 €
PCS62-20/SS	20	101,49	108,4	75	14	30	68,26 €
PCS62-21/SS	21	106,52	113,4	75	16	30	65,79 €
PCS62-23/SS	23	116,58	123,4	80	16	30	82,38 €
PCS62-25/SS	25	126,66	134,0	80	16	30	98,02 €
PCS62-30/SS	30	151,87	158,8	90	20	35	117,53 €

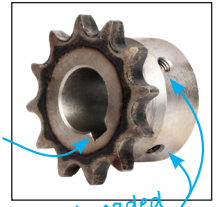
Dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN06B-1 3/8”

C45 tempered steel

- **Pitch 9.525mm (DIN06B-1)**
- Roller diameter 6.35mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

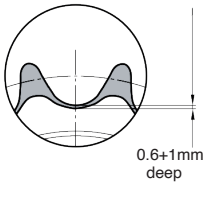


Info

- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-375/M** *chain* **tome 4 p.122)**



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS37-12H-12K	12	36,80	40,45	30	25	12	4	1,80	M4	✔	7,33 €
PCS37-12H-14K						14	5	2,30	M4	-	7,33 €
PCS37-12H-15K						15	5	2,30	M4	✔	7,33 €
PCS37-12H-16K						16	5	2,30	M4	✔	7,33 €
PCS37-13H-12K	13	39,80	43,50	28	25	12	4	1,80	M4	✔	7,83 €
PCS37-13H-14K						14	5	2,30	M4	-	7,83 €
PCS37-13H-15K						15	5	2,30	M4	✔	7,83 €
PCS37-13H-16K						16	5	2,30	M4	-	7,83 €
PCS37-13H-18K						18	6	2,80	M5	-	7,83 €
PCS37-14H-12K	14	42,80	46,50	31	25	12	4	1,80	M4	✔	8,44 €
PCS37-14H-14K						14	5	2,30	M4	-	8,44 €
PCS37-14H-15K						15	5	2,30	M4	✔	8,44 €
PCS37-14H-16K						16	5	2,30	M4	✔	8,44 €
PCS37-14H-18K						18	6	2,80	M5	-	8,44 €

*Depending on availability - Dimensions in mm

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS37-15H-14K	15	45,81	49,50	34	25	14	5	2,30	M4	✔	8,62 €
PCS37-15H-15K						15	5	2,30	M4	-	8,62 €
PCS37-15H-16K						16	5	2,30	M4	-	8,62 €
PCS37-15H-18K						18	6	2,80	M4	✔	8,62 €
PCS37-15H-19K						19	6	2,80	M5	-	8,62 €
PCS37-15H-20K						20	6	2,80	M5	✔	8,62 €
PCS37-15H-22K						22	6	2,80	M5	-	8,62 €
PCS37-15H-24K						24	8	3,30	M6	-	8,62 €
PCS37-16H-14K	16	48,82	52,30	37	28	14	5	2,30	M4	✔	8,57 €
PCS37-16H-15K						15	5	2,30	M4	✔	8,15 €
PCS37-16H-16K						16	5	2,30	M4	-	8,57 €
PCS37-16H-18K						18	6	2,80	M5	-	8,57 €
PCS37-16H-19K						19	6	2,80	M5	-	8,57 €
PCS37-16H-20K						20	6	2,80	M5	✔	8,57 €
PCS37-16H-22K						22	6	2,80	M5	-	8,57 €
PCS37-16H-24K						24	8	3,30	M6	-	8,57 €
PCS37-17H-14K	17	51,83	55,50	40	28	14	5	2,30	M4	-	9,10 €
PCS37-17H-15K						15	5	2,30	M4	✔	9,10 €
PCS37-17H-16K						16	5	2,30	M4	-	9,10 €
PCS37-17H-18K						18	6	2,80	M5	✔	9,10 €
PCS37-17H-19K						19	6	2,80	M5	-	9,10 €
PCS37-17H-20K						20	6	2,80	M5	✔	9,10 €
PCS37-17H-22K						22	6	2,80	M5	-	9,10 €
PCS37-17H-24K						24	8	3,30	M6	✔	9,10 €
PCS37-18H-14K	18	54,85	58,30	43	28	14	5	2,30	M4	-	9,18 €
PCS37-18H-15K						15	5	2,30	M4	✔	9,18 €
PCS37-18H-16K						16	5	2,30	M4	-	9,18 €
PCS37-18H-18K						18	6	2,80	M5	-	9,18 €
PCS37-18H-19K						19	6	2,80	M5	-	9,18 €
PCS37-18H-20K						20	6	2,80	M5	✔	9,18 €
PCS37-18H-22K						22	6	2,80	M5	-	9,18 €
PCS37-18H-24K						24	8	3,30	M6	-	9,18 €
PCS37-19H-15K	19	57,87	61,60	45	28	15	5	2,30	M4	✔	9,59 €
PCS37-19H-16K						16	5	2,30	M4	-	9,59 €
PCS37-19H-18K						18	6	2,80	M5	-	9,59 €
PCS37-19H-19K						19	6	2,80	M5	-	9,59 €
PCS37-19H-20K						20	6	2,80	M5	✔	9,59 €
PCS37-19H-22K						22	6	2,80	M5	-	9,59 €
PCS37-19H-24K						24	8	3,30	M6	-	9,59 €
PCS37-19H-25K						25	8	3,30	M6	✔	9,59 €
PCS37-20H-15K	20	60,89	64,30	46	28	15	5	2,30	M4	-	10,19 €
PCS37-20H-16K						16	5	2,30	M4	-	10,19 €
PCS37-20H-18K						18	6	2,80	M5	-	10,19 €
PCS37-20H-19K						19	6	2,80	M5	-	10,19 €
PCS37-20H-20K						20	6	2,80	M5	✔	10,19 €
PCS37-20H-22K						22	6	2,80	M5	-	10,19 €
PCS37-20H-24K						24	8	3,30	M6	-	10,19 €
PCS37-20H-25K						25	8	3,30	M6	✔	10,19 €

*Depending on availability - Dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN06B-1 3/8”

C45 tempered steel

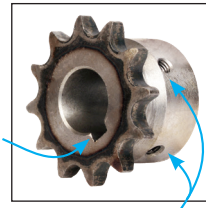
- **Pitch 9.525mm (DIN06B-1)**
- Roller diameter 6.35mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

Info

- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-375/M** *chain* **tome 4 p.122)**

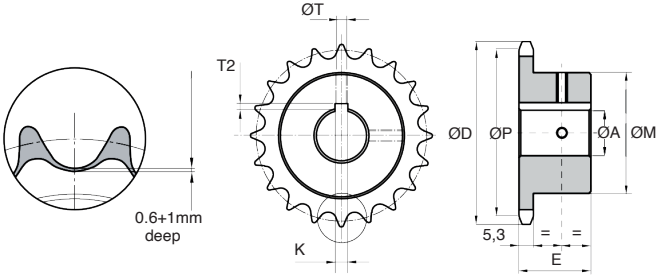


DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS37-21H-15K	21	63,91	67,60	48	28	15	5	2,30	M4	-	10,53 €
PCS37-21H-16K						16	5	2,30	M4	-	10,53 €
PCS37-21H-18K						18	6	2,80	M5	-	10,53 €
PCS37-21H-19K						19	6	2,80	M5	-	10,53 €
PCS37-21H-20K						20	6	2,80	M5	-	10,53 €
PCS37-21H-22K						22	6	2,80	M5	-	10,53 €
PCS37-21H-24K						24	8	3,30	M6	-	10,53 €
PCS37-21H-25K						25	8	3,30	M6	✔	10,53 €
PCS37-23H-15K	23	69,95	73,70	52	28	15	5	2,30	M4	✔	12,06 €
PCS37-23H-16K						16	5	2,30	M4	-	12,06 €
PCS37-23H-18K						18	6	2,80	M5	-	12,06 €
PCS37-23H-19K						19	6	2,80	M5	-	12,06 €
PCS37-23H-20K						20	6	2,80	M5	✔	12,06 €
PCS37-23H-22K						22	6	2,80	M5	-	12,06 €
PCS37-23H-24K						24	8	3,30	M6	-	12,06 €
PCS37-23H-25K						25	8	3,30	M6	✔	12,06 €

*Depending on availability - Dimensions in mm



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

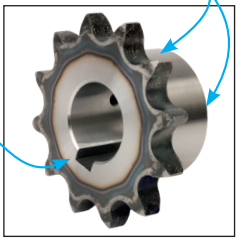
Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS37-24H-18K						18	6	2,80	M5	-	12,88 €
PCS37-24H-19K						19	6	2,80	M5	-	12,88 €
PCS37-24H-20K						20	6	2,80	M5	✔	12,88 €
PCS37-24H-22K	24	72,97	76,70	54	28	22	6	2,80	M5	-	12,88 €
PCS37-24H-24K						24	8	3,30	M6	-	12,88 €
PCS37-24H-25K						25	8	3,30	M6	-	12,88 €
PCS37-24H-28K						28	8	3,30	M6	-	12,88 €
PCS37-24H-30K						30	8	3,30	M6	-	12,88 €
PCS37-25H-18K						18	6	2,80	M5	-	13,82 €
PCS37-25H-19K						19	6	2,80	M5	-	15,15 €
PCS37-25H-20K						20	6	2,80	M5	-	13,82 €
PCS37-25H-22K	25	76,00	79,70	57	28	22	6	2,80	M5	-	13,82 €
PCS37-25H-24K						24	8	3,30	M6	-	13,82 €
PCS37-25H-25K						25	8	3,30	M6	-	13,82 €
PCS37-25H-28K						28	8	3,30	M6	-	13,82 €
PCS37-25H-30K						30	8	3,30	M6	-	13,82 €
PCS37-27H-20K						20	6	2,80	M5	✔	16,46 €
PCS37-27H-22K						22	6	2,80	M5	-	16,46 €
PCS37-27H-24K	27	82,05	85,70	60	28	24	8	3,30	M6	-	16,46 €
PCS37-27H-25K						25	8	3,30	M6	-	16,46 €
PCS37-27H-28K						28	8	3,30	M6	-	16,46 €
PCS37-27H-30K						30	8	3,30	M6	-	16,46 €
PCS37-30H-20K						20	6	2,80	M5	-	19,18 €
PCS37-30H-22K						22	6	2,80	M5	-	19,18 €
PCS37-30H-24K	30	91,12	94,80	60	30	24	8	3,30	M6	-	19,18 €
PCS37-30H-25K						25	8	3,30	M6	✔	19,18 €
PCS37-30H-28K						28	8	3,30	M6	-	19,18 €
PCS37-30H-30K						30	8	3,30	M6	-	19,18 €

*Depending on availability - Dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN08B-1
1/2”

C45 tempered steel



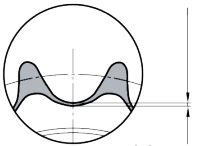
- **Pitch 12,7mm (DIN 08B-1)**
- Roller diameter 8,51mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

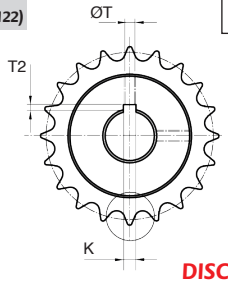
Info

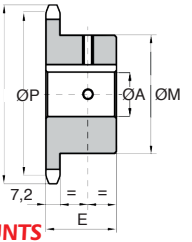
- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-500/M** chain **(tome 4 p.122)**







DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS50-12H-12K						12	4	1,80	M4	✔	9,81 €
PCS50-12H-14K						14	5	2,30	M4	✔	9,81 €
PCS50-12H-15K						15	5	2,30	M4	-	9,81 €
PCS50-12H-16K	12	49,07	53,90	33	28	16	5	2,30	M4	✔	9,81 €
PCS50-12H-18K						18	6	2,80	M5	✔	9,81 €
PCS50-12H-19K						19	6	2,80	M5	✔	9,81 €
PCS50-12H-20K						20	6	2,80	M5	✔	9,81 €
PCS50-13H-12K						12	4	1,80	M4	✔	10,04 €
PCS50-13H-14K						14	5	2,30	M4	✔	10,04 €
PCS50-13H-15K						15	5	2,30	M4	-	10,04 €
PCS50-13H-16K						16	5	2,30	M4	-	10,04 €
PCS50-13H-18K	13	53,06	57,90	37	28	18	6	2,80	M5	-	10,04 €
PCS50-13H-19K						19	6	2,80	M5	✔	10,04 €
PCS50-13H-20K						20	6	2,80	M5	✔	10,04 €
PCS50-13H-22K						22	6	2,80	M5	-	10,04 €
PCS50-13H-24K						24	8	3,30	M6	✔	10,04 €

*Depending on availability - Dimensions in mm

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS50-14H-14K						14	5	2,30	M4	-	10,84 €
PCS50-14H-15K						15	5	2,30	M4	-	10,84 €
PCS50-14H-16K						16	5	2,30	M4	-	10,84 €
PCS50-14H-18K						18	6	2,80	M5	✔	10,84 €
PCS50-14H-19K	14	57,07	61,60	41	28	19	6	2,80	M5	-	10,84 €
PCS50-14H-20K						20	6	2,80	M5	✔	10,84 €
PCS50-14H-22K						22	6	2,80	M5	-	10,84 €
PCS50-14H-24K						24	8	3,30	M6	-	10,84 €
PCS50-14H-25K						25	8	3,30	M6	✔	10,84 €
PCS50-15H-14K						14	5	2,30	M4	✔	11,44 €
PCS50-15H-15K						15	5	2,30	M4	-	11,44 €
PCS50-15H-16K						16	5	2,30	M4	-	11,44 €
PCS50-15H-18K						18	6	2,80	M4	-	11,44 €
PCS50-15H-19K						19	6	2,80	M5	✔	11,44 €
PCS50-15H-20K	15	61,09	65,90	45	28	20	6	2,80	M5	✔	11,44 €
PCS50-15H-22K						22	6	2,80	M5	-	11,44 €
PCS50-15H-24K						24	8	3,30	M6	-	11,44 €
PCS50-15H-25K						25	8	3,30	M6	✔	11,44 €
PCS50-15H-28K						28	8	3,30	M6	✔	11,44 €
PCS50-15H-30K						30	8	3,30	M6	-	11,44 €
PCS50-16H-15K						15	5	2,30	M4	-	12,82 €
PCS50-16H-16K						16	5	2,30	M4	-	12,82 €
PCS50-16H-18K						18	6	2,80	M4	-	12,82 €
PCS50-16H-19K						19	6	2,80	M5	-	12,82 €
PCS50-16H-20K	16	65,10	69,50	50	28	20	6	2,80	M5	✔	12,82 €
PCS50-16H-22K						22	6	2,80	M5	-	12,82 €
PCS50-16H-24K						24	8	3,30	M6	-	12,82 €
PCS50-16H-25K						25	8	3,30	M6	✔	12,82 €
PCS50-16H-28K						28	8	3,30	M6	✔	12,82 €
PCS50-16H-30K						30	8	3,30	M6	-	12,82 €
PCS50-17H-15K						15	5	2,30	M4	-	13,23 €
PCS50-17H-16K						16	5	2,30	M4	-	13,23 €
PCS50-17H-18K						18	6	2,80	M4	-	13,23 €
PCS50-17H-19K						19	6	2,80	M5	-	13,23 €
PCS50-17H-20K	17	69,11	74,00	52	28	20	6	2,80	M5	✔	13,23 €
PCS50-17H-22K						22	6	2,80	M5	-	13,23 €
PCS50-17H-24K						24	8	3,30	M6	-	13,23 €
PCS50-17H-25K						25	8	3,30	M6	-	13,23 €
PCS50-17H-28K						28	8	3,30	M6	-	13,23 €
PCS50-17H-30K						30	8	3,30	M6	✔	13,23 €
PCS50-18H-16K						16	5	2,30	M4	-	13,79 €
PCS50-18H-18K						18	6	2,80	M4	-	13,79 €
PCS50-18H-19K						19	6	2,80	M5	-	13,79 €
PCS50-18H-20K						20	6	2,80	M5	✔	13,79 €
PCS50-18H-22K						22	6	2,80	M5	-	13,79 €
PCS50-18H-24K	18	73,14	77,80	56	28	24	8	3,30	M6	✔	13,79 €
PCS50-18H-25K						25	8	3,30	M6	-	13,79 €
PCS50-18H-28K						28	8	3,30	M6	-	13,79 €
PCS50-18H-30K						30	8	3,30	M6	✔	13,79 €
PCS50-18H-32K						32	10	3,30	M8	-	13,79 €
PCS50-18H-35K						35	10	3,30	M8	-	13,79 €

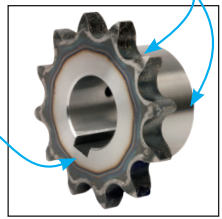
*Depending on availability - Dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN08B-1
1/2”

C45 tempered steel

- **Pitch 12,7mm (DIN 08B-1)**
- Roller diameter 8,51mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

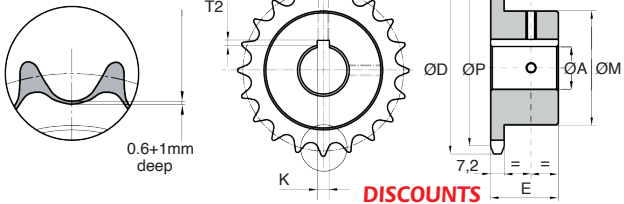


Info

- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-500/M** *chain* **(tome 4 p.122)**



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS50-19H-19K						19	6	2,80	M5	-	15,28 €
PCS50-19H-20K						20	6	2,80	M5	✔	15,28 €
PCS50-19H-22K						22	8	3,30	M6	-	15,28 €
PCS50-19H-24K						24	8	3,30	M6	-	15,28 €
PCS50-19H-25K	19	77,16	82,00	60	28	25	8	3,30	M6	✔	15,28 €
PCS50-19H-28K						28	8	3,30	M6	-	15,28 €
PCS50-19H-30K						30	10	3,30	M8	-	15,28 €
PCS50-19H-32K						32	10	3,30	M8	-	15,28 €
PCS50-19H-35K						35	10	3,30	M8	-	15,28 €
PCS50-20H-19K						19	6	2,80	M5	-	15,97 €
PCS50-20H-20K						20	6	2,80	M5	✔	15,97 €
PCS50-20H-22K						22	6	2,80	M5	-	15,97 €
PCS50-20H-24K						24	8	3,30	M6	-	15,97 €
PCS50-20H-25K	20	81,19	85,80	64	28	25	8	3,30	M6	-	15,97 €
PCS50-20H-28K						28	8	3,30	M6	-	15,97 €
PCS50-20H-30K						30	8	3,30	M6	✔	15,97 €
PCS50-20H-32K						32	10	3,30	M8	-	15,97 €
PCS50-20H-35K						35	10	3,30	M8	-	15,97 €

*Depending on availability - Dimensions in mm

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Stock*	Price each 1 to 5
PCS50-21H-19K						19	6	2,80	M5	-	16,73 €
PCS50-21H-20K						20	6	2,80	M5	✔	16,73 €
PCS50-21H-22K						22	6	2,80	M5	-	16,73 €
PCS50-21H-24K						24	8	3,30	M6	-	16,73 €
PCS50-21H-25K	21	85,22	90,10	68	28	25	8	3,30	M6	-	16,73 €
PCS50-21H-28K						28	8	3,30	M6	-	16,73 €
PCS50-21H-30K						30	8	3,30	M6	-	16,73 €
PCS50-21H-32K						32	10	3,30	M8	-	16,73 €
PCS50-21H-35K						35	10	3,30	M8	-	16,73 €
PCS50-23H-20K						20	6	2,80	M5	✔	18,00 €
PCS50-23H-22K						22	6	2,80	M5	-	18,00 €
PCS50-23H-24K						24	8	3,30	M6	-	18,00 €
PCS50-23H-25K						25	8	3,30	M6	-	18,00 €
PCS50-23H-28K	23	93,27	98,10	70	28	28	8	3,30	M6	-	18,00 €
PCS50-23H-30K						30	8	3,30	M6	-	18,00 €
PCS50-23H-32K						32	10	3,30	M8	-	18,00 €
PCS50-23H-35K						35	10	3,30	M8	-	18,00 €
PCS50-23H-38K						38	10	3,30	M8	-	18,00 €
PCS50-24H-20K						20	6	2,80	M5	-	19,19 €
PCS50-24H-22K						22	6	2,80	M5	-	19,19 €
PCS50-24H-24K						24	8	3,30	M6	✔	19,19 €
PCS50-24H-25K						25	8	3,30	M6	✔	19,19 €
PCS50-24H-28K	24	97,29	102,70	70	28	28	8	3,30	M6	-	19,19 €
PCS50-24H-30K						30	8	3,30	M6	-	19,19 €
PCS50-24H-32K						32	10	3,30	M8	-	19,19 €
PCS50-24H-35K						35	10	3,30	M8	-	19,19 €
PCS50-24H-38K						38	10	3,30	M8	-	19,19 €
PCS50-25H-20K						20	6	2,80	M5	✔	19,84 €
PCS50-25H-22K						22	6	2,80	M5	-	19,84 €
PCS50-25H-24K						24	8	3,30	M6	-	19,84 €
PCS50-25H-25K						25	8	3,30	M6	-	19,84 €
PCS50-25H-28K	25	101,33	105,80	70	28	28	8	3,30	M6	-	19,84 €
PCS50-25H-30K						30	8	3,30	M6	-	19,84 €
PCS50-25H-32K						32	10	3,30	M8	-	19,84 €
PCS50-25H-35K						35	10	3,30	M8	-	19,84 €
PCS50-25H-38K						38	10	3,30	M8	-	19,84 €
PCS50-27H-22K						22	6	2,80	M5	-	23,41 €
PCS50-27H-25K						25	8	3,30	M6	✔	23,41 €
PCS50-27H-28K						28	8	3,30	M6	-	23,41 €
PCS50-27H-30K	27	109,40	114,00	70	30	30	8	3,30	M6	✔	23,41 €
PCS50-27H-32K						32	10	3,30	M8	-	23,41 €
PCS50-27H-35K						35	10	3,30	M8	-	23,41 €
PCS50-27H-38K						38	10	3,30	M8	-	23,41 €
PCS50-30H-25K						25	8	3,30	M6	-	27,09 €
PCS50-30H-28K						28	8	3,30	M6	-	27,09 €
PCS50-30H-30K	30	121,50	126,00	80	30	30	8	3,30	M6	✔	27,09 €
PCS50-30H-32K						32	10	3,30	M8	-	27,09 €
PCS50-30H-35K						35	10	3,30	M8	-	27,09 €
PCS50-30H-38K						38	10	3,30	M8	-	27,09 €

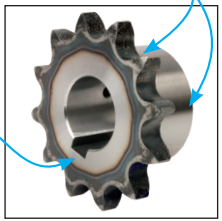
*Depending on availability - Dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN10B-1 5/8”

C45 tempered steel

- **Pitch 15,875mm (DIN 10B-1)**
- Roller diameter 10,16mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

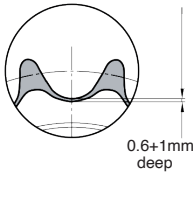


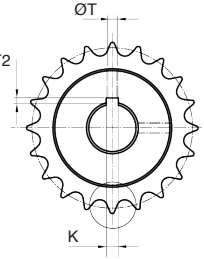
Info

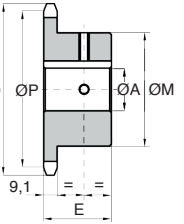
- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-625/M** *chain* **(tome 4 p.122)**







DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS62-12H-16K	12	61,34	68,20	42	30	16	5	2,30	M4	12,81 €
PCS62-12H-19K						19	6	2,80	M5	12,81 €
PCS62-12H-20K						20	6	2,80	M5	12,81 €
PCS62-12H-22K						22	6	2,80	M5	12,81 €
PCS62-12H-24K						24	8	3,30	M6	12,81 €
PCS62-12H-25K						25	8	3,30	M6	12,81 €
PCS62-12H-28K				51	30	28	8	3,30	M6	12,81 €
PCS62-12H-30K				51	30	30	8	3,30	M6	12,81 €
PCS62-13H-16K	13	66,32	73,20	47	30	16	5	2,30	M4	13,17 €
PCS62-13H-19K						19	6	2,80	M5	13,17 €
PCS62-13H-20K						20	6	2,80	M5	13,17 €
PCS62-13H-22K						22	6	2,80	M5	13,17 €
PCS62-13H-24K						24	8	3,30	M6	13,17 €
PCS62-13H-25K						25	8	3,30	M6	13,17 €
PCS62-13H-28K						28	8	3,30	M6	13,17 €
PCS62-13H-30K						30	8	3,30	M6	13,17 €

All dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 à 5
PCS62-14H-16K	14	71,34	78,20	52	30	16	5	2,30	M4	14,33 €
PCS62-14H-19K						19	6	2,80	M5	14,33 €
PCS62-14H-20K						20	6	2,80	M5	14,33 €
PCS62-14H-22K						22	6	2,80	M5	14,33 €
PCS62-14H-24K						24	8	3,30	M6	14,33 €
PCS62-14H-25K						25	8	3,30	M6	14,33 €
PCS62-14H-28K						28	8	3,30	M6	14,33 €
PCS62-14H-30K						30	8	3,30	M6	14,33 €
PCS62-15H-19K	15	76,36	83,20	57	30	19	6	2,80	M5	16,12 €
PCS62-15H-20K						20	6	2,80	M5	16,12 €
PCS62-15H-22K						22	6	2,80	M5	16,12 €
PCS62-15H-24K						24	8	3,30	M6	16,12 €
PCS62-15H-25K						25	8	3,30	M6	16,12 €
PCS62-15H-28K						28	8	3,30	M6	16,12 €
PCS62-15H-30K						30	8	3,30	M6	16,12 €
PCS62-15H-32K						32	10	3,30	M8	16,12 €
PCS62-15H-35K						35	10	3,30	M8	16,12 €
PCS62-16H-20K	16	81,37	88,00	60	30	20	6	2,80	M5	17,39 €
PCS62-16H-22K						22	6	2,80	M5	17,39 €
PCS62-16H-24K						24	8	3,30	M6	17,39 €
PCS62-16H-25K						25	8	3,30	M6	17,39 €
PCS62-16H-28K						28	8	3,30	M6	17,39 €
PCS62-16H-30K						30	8	3,30	M6	17,39 €
PCS62-16H-32K						32	10	3,30	M8	17,39 €
PCS62-16H-35K						35	10	3,30	M8	17,39 €
PCS62-17H-20K	17	86,39	93,20	60	30	20	6	2,80	M5	18,25 €
PCS62-17H-22K						22	6	2,80	M5	18,25 €
PCS62-17H-24K						24	8	3,30	M6	18,25 €
PCS62-17H-25K						25	8	3,30	M6	18,25 €
PCS62-17H-28K						28	8	3,30	M6	18,25 €
PCS62-17H-30K						30	8	3,30	M6	18,25 €
PCS62-17H-32K						32	10	3,30	M8	18,25 €
PCS62-17H-35K						35	10	3,30	M8	18,25 €
PCS62-18H-20K	18	91,42	98,30	70	30	20	6	2,80	M5	20,40 €
PCS62-18H-22K						22	6	2,80	M5	20,40 €
PCS62-18H-24K						24	8	3,30	M6	20,40 €
PCS62-18H-25K						25	8	3,30	M6	20,40 €
PCS62-18H-28K						28	8	3,30	M6	20,40 €
PCS62-18H-30K						30	8	3,30	M6	20,40 €
PCS62-18H-32K						32	10	3,30	M8	20,40 €
PCS62-18H-35K						35	10	3,30	M8	20,40 €
PCS62-18H-38K						38	10	3,30	M8	20,40 €
PCS62-18H-40K						40	12	3,30	M10	20,40 €

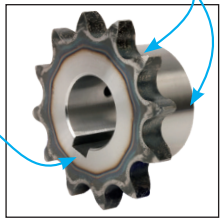
All dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN10B-1
5/8”

C45 tempered steel

- **Pitch 15,875mm (DIN 10B-1)**
- Roller diameter 10,16mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

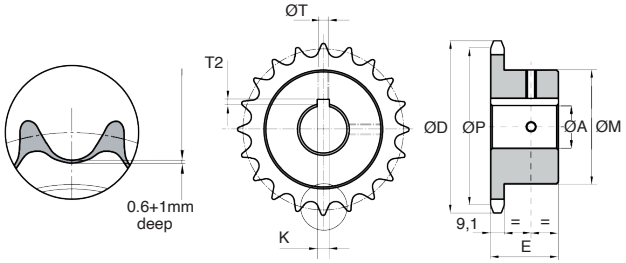


Info

- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-625/M** chain **(tome 4 p.122)**



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS62-19H-20K	19	96,45	103,30	70	30	20	6	2,80	M5	22,01 €
PCS62-19H-22K						22	6	2,80	M5	22,01 €
PCS62-19H-24K						24	8	3,30	M6	22,01 €
PCS62-19H-25K						25	8	3,30	M6	22,01 €
PCS62-19H-28K						28	8	3,30	M6	22,01 €
PCS62-19H-30K						30	8	3,30	M6	22,01 €
PCS62-19H-32K						32	10	3,30	M8	22,01 €
PCS62-19H-35K						35	10	3,30	M8	22,01 €
PCS62-19H-38K						38	10	3,30	M8	22,01 €
PCS62-19H-40K						40	12	3,30	M10	22,01 €

All dimensions in mm

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS62-20H-20K						20	6	2,80	M5	23,20 €
PCS62-20H-22K						22	6	2,80	M5	23,20 €
PCS62-20H-24K						24	8	3,30	M6	23,20 €
PCS62-20H-25K						25	8	3,30	M6	23,20 €
PCS62-20H-28K						28	8	3,30	M6	23,20 €
PCS62-20H-30K	20	101,49	108,40	75	30	30	8	3,30	M6	23,20 €
PCS62-20H-32K						32	10	3,30	M8	23,20 €
PCS62-20H-35K						35	10	3,30	M8	23,20 €
PCS62-20H-38K						38	10	3,30	M8	23,20 €
PCS62-20H-40K						40	12	3,30	M10	23,20 €
PCS62-21H-20K						20	6	2,80	M5	24,57 €
PCS62-21H-22K						22	6	2,80	M5	24,57 €
PCS62-21H-24K						24	8	3,30	M6	24,57 €
PCS62-21H-25K						25	8	3,30	M6	24,57 €
PCS62-21H-28K						28	8	3,30	M6	24,57 €
PCS62-21H-30K	21	106,52	113,40	75	30	30	8	3,30	M6	24,57 €
PCS62-21H-32K						32	10	3,30	M8	24,57 €
PCS62-21H-35K						35	10	3,30	M8	24,57 €
PCS62-21H-38K						38	10	3,30	M8	24,57 €
PCS62-21H-40K						40	12	3,30	M10	24,57 €
PCS62-23H-20K						20	6	2,80	M5	26,77 €
PCS62-23H-22K						22	6	2,80	M5	26,77 €
PCS62-23H-24K						24	8	3,30	M6	26,77 €
PCS62-23H-25K						25	8	3,30	M6	26,77 €
PCS62-23H-28K						28	8	3,30	M6	26,77 €
PCS62-23H-30K	23	116,58	123,40	80	30	30	8	3,30	M6	26,77 €
PCS62-23H-32K						32	10	3,30	M8	26,77 €
PCS62-23H-35K						35	10	3,30	M8	26,77 €
PCS62-23H-38K						38	10	3,30	M8	26,77 €
PCS62-23H-40K						40	12	3,30	M10	26,77 €
PCS62-23H-42K						42	12	3,30	M10	26,77 €
PCS62-24H-20K						20	6	2,80	M5	28,21 €
PCS62-24H-22K						22	6	2,80	M5	28,21 €
PCS62-24H-24K						24	8	3,30	M6	28,21 €
PCS62-24H-25K						25	8	3,30	M6	28,21 €
PCS62-24H-28K						28	8	3,30	M6	28,21 €
PCS62-24H-30K	24	121,62	128,50	80	30	30	8	3,30	M6	28,21 €
PCS62-24H-32K						32	10	3,30	M8	28,21 €
PCS62-24H-35K						35	10	3,30	M8	28,21 €
PCS62-24H-38K						38	10	3,30	M8	28,21 €
PCS62-24H-40K						40	12	3,30	M10	28,21 €
PCS62-24H-42K						42	12	3,30	M10	28,21 €
PCS62-25H-22K						22	6	2,80	M5	29,15 €
PCS62-25H-24K						24	8	3,30	M6	29,15 €
PCS62-25H-25K						25	8	3,30	M6	29,15 €
PCS62-25H-28K						28	8	3,30	M6	29,15 €
PCS62-25H-30K	25	126,66	133,50	80	30	30	8	3,30	M6	29,15 €
PCS62-25H-32K						32	10	3,30	M8	29,15 €
PCS62-25H-35K						35	10	3,30	M8	29,15 €
PCS62-25H-38K						38	10	3,30	M8	29,15 €
PCS62-25H-40K						40	12	3,30	M10	29,15 €
PCS62-25H-42K						42	12	3,30	M10	29,15 €

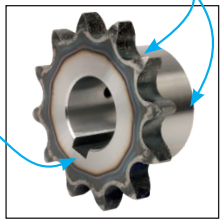
All dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN12B-1
3/4”

C45 tempered steel

- **Pitch 19,05mm (DIN 12B-1)**
- Roller diameter 12,07mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

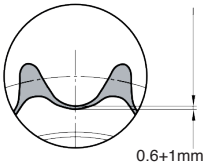


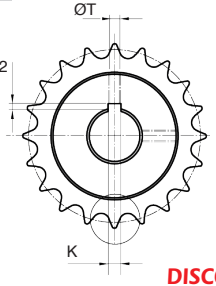
Info

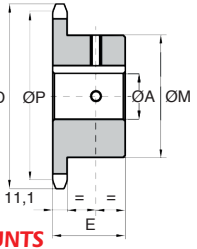
- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-750/M** chain **(tome 4 p.122)**







DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS75-12H-20K	12	73,60	81,80	52	35	20	6	2,80	M5	16,66 €
PCS75-12H-22K						22	6	2,80	M5	16,66 €
PCS75-12H-24K						24	8	3,30	M6	16,66 €
PCS75-12H-25K						25	8	3,30	M6	16,66 €
PCS75-12H-28K						28	8	3,30	M6	16,66 €
PCS75-12H-30K						30	8	3,30	M6	16,66 €
PCS75-13H-20K	13	79,60	87,10	58	35	20	6	2,80	M5	19,32 €
PCS75-13H-22K						22	6	2,80	M5	19,32 €
PCS75-13H-24K						24	8	3,30	M6	19,32 €
PCS75-13H-25K						25	8	3,30	M6	19,32 €
PCS75-13H-28K						28	8	3,30	M6	19,32 €
PCS75-13H-30K						30	8	3,30	M6	19,32 €
PCS75-13H-32K						32	10	3,30	M8	19,32 €
PCS75-13H-35K						35	10	3,30	M8	19,32 €

All dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS75-14H-20K	14	85,61	93,80	64	35	20	6	2,80	M5	22,00 €
PCS75-14H-22K						22	6	2,80	M5	22,00 €
PCS75-14H-24K						24	8	3,30	M6	22,00 €
PCS75-14H-25K						25	8	3,30	M6	22,00 €
PCS75-14H-28K						28	8	3,30	M6	22,00 €
PCS75-14H-30K						30	8	3,30	M6	22,00 €
PCS75-14H-32K						32	10	3,30	M8	22,00 €
PCS75-14H-35K						35	10	3,30	M8	22,00 €
PCS75-15H-20K	15	91,63	99,20	70	35	20	6	2,80	M5	24,00 €
PCS75-15H-22K						22	6	2,80	M5	24,00 €
PCS75-15H-24K						24	8	3,30	M6	24,00 €
PCS75-15H-25K						25	8	3,30	M6	24,00 €
PCS75-15H-28K						28	8	3,30	M6	24,00 €
PCS75-15H-30K						30	8	3,30	M6	24,00 €
PCS75-15H-32K						32	10	3,30	M8	24,00 €
PCS75-15H-35K						35	10	3,30	M8	24,00 €
PCS75-15H-38K						38	10	3,30	M8	24,00 €
PCS75-15H-40K						40	12	3,30	M10	24,00 €
PCS75-16H-20K	16	97,65	105,50	75	35	20	6	2,80	M5	25,64 €
PCS75-16H-22K						22	6	2,80	M5	25,64 €
PCS75-16H-24K						24	8	3,30	M6	28,00 €
PCS75-16H-25K						25	8	3,30	M6	25,64 €
PCS75-16H-28K						28	8	3,30	M6	25,64 €
PCS75-16H-30K						30	8	3,30	M6	25,64 €
PCS75-16H-32K						32	10	3,30	M8	25,64 €
PCS75-16H-35K						35	10	3,30	M8	25,64 €
PCS75-16H-38K						38	10	3,30	M8	25,64 €
PCS75-16H-40K						40	12	3,30	M10	25,64 €
PCS75-17H-22K	17	103,67	111,20	80	35	22	6	2,80	M5	27,51 €
PCS75-17H-24K						24	8	3,30	M6	30,13 €
PCS75-17H-25K						25	8	3,30	M6	27,51 €
PCS75-17H-28K						28	8	3,30	M6	27,51 €
PCS75-17H-30K						30	8	3,30	M6	27,51 €
PCS75-17H-32K						32	10	3,30	M8	27,51 €
PCS75-17H-35K						35	10	3,30	M8	27,51 €
PCS75-17H-38K						38	10	3,30	M8	27,51 €
PCS75-17H-40K						40	12	3,30	M10	27,51 €
PCS75-18H-22K	18	109,71	118,00	80	35	22	6	2,80	M5	28,28 €
PCS75-18H-24K						24	8	3,30	M6	31,05 €
PCS75-18H-25K						25	8	3,30	M6	28,28 €
PCS75-18H-28K						28	8	3,30	M6	28,28 €
PCS75-18H-30K						30	8	3,30	M6	28,28 €
PCS75-18H-32K						32	10	3,30	M8	28,28 €
PCS75-18H-35K						35	10	3,30	M8	28,28 €
PCS75-18H-38K						38	10	3,30	M8	28,28 €
PCS75-18H-40K						40	12	3,30	M10	28,28 €

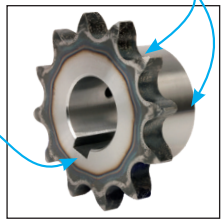
All dimensions in mm

Chain sprocket with hardened teeth Ste DIN

DIN12B-1
3/4”

C45 tempered steel

2 threaded holes



Bore and keyway

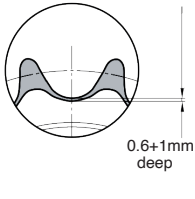
- **Pitch 19,05mm (DIN 12B-1)**
- Roller diameter 12,07mm
- Materials:
  C45 steel UNI7845
  Hardened teeth 45-53HRC

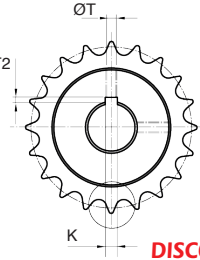
Info

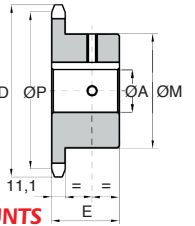
- DIN 6885 keyway on the central tooth line
- 2 threaded holes, 1 on keyway and 1 at 90°

Accessories

- **SBR-750/M** chain **(tome 4 p.122)**







DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS75-19H-25K						25	8	3,30	M6	30,88 €
PCS75-19H-28K						28	8	3,30	M6	30,88 €
PCS75-19H-30K						30	8	3,30	M6	30,88 €
PCS75-19H-32K						32	10	3,30	M8	30,88 €
PCS75-19H-35K	19	115,75	123,30	80	35	35	10	3,30	M8	30,88 €
PCS75-19H-38K						38	10	3,30	M8	30,88 €
PCS75-19H-40K						40	12	3,30	M10	30,88 €
PCS75-19H-42K						42	12	3,30	M10	30,88 €
PCS75-19H-45K						45	14	3,80	M12	30,88 €
PCS75-20H-25K						25	8	3,30	M6	31,83 €
PCS75-20H-28K						28	8	3,30	M6	32,68 €
PCS75-20H-30K						30	8	3,30	M6	32,68 €
PCS75-20H-32K						32	10	3,30	M8	32,68 €
PCS75-20H-35K	20	121,78	129,70	80	35	35	10	3,30	M8	32,68 €
PCS75-20H-38K						38	10	3,30	M8	32,68 €
PCS75-20H-40K						40	12	3,30	M10	32,68 €
PCS75-20H-42K						42	12	3,30	M10	32,68 €
PCS75-20H-45K						45	14	3,80	M12	32,68 €

All dimensions in mm

DISCOUNTS

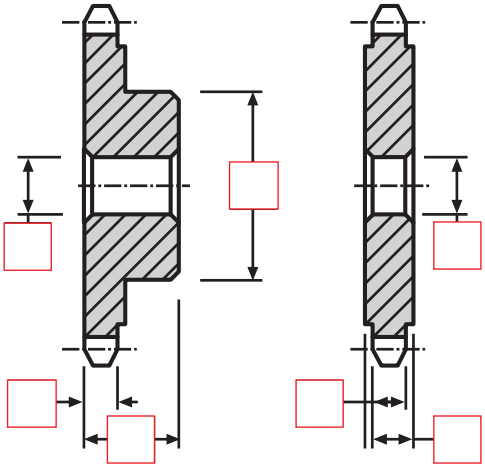
Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part Number	Z Teeth	ØP	ØD	ØM	E	ØA	K (H9)	T2	ØT	Price each 1 to 5
PCS75-21H-28K	21	127,82	135,40	90	40	28	8	3,30	M6	38,65 €
PCS75-21H-30K						30	8	3,30	M6	38,65 €
PCS75-21H-32K						32	10	3,30	M8	38,65 €
PCS75-21H-35K						35	10	3,30	M8	38,65 €
PCS75-21H-38K						38	10	3,30	M8	38,65 €
PCS75-21H-40K						40	12	3,30	M10	38,65 €
PCS75-21H-42K						42	12	3,30	M10	38,65 €
PCS75-21H-45K						45	14	3,80	M12	38,65 €
PCS75-21H-48K						48	14	3,80	M12	38,65 €
PCS75-21H-50K						50	14	3,80	M12	38,65 €
PCS75-23H-28K	23	139,90	147,40	90	40	28	8	3,30	M6	44,15 €
PCS75-23H-30K						30	8	3,30	M6	44,15 €
PCS75-23H-32K						32	10	3,30	M8	44,15 €
PCS75-23H-35K						35	10	3,30	M8	44,15 €
PCS75-23H-38K						38	10	3,30	M8	44,15 €
PCS75-23H-40K						40	12	3,30	M10	44,15 €
PCS75-23H-42K						42	12	3,30	M10	44,15 €
PCS75-23H-45K						45	14	3,80	M12	44,15 €
PCS75-23H-48K						48	14	3,80	M12	44,15 €
PCS75-23H-50K						50	14	3,80	M12	44,15 €
PCS75-24H-28K	24	145,94	154,10	90	40	28	8	3,30	M6	44,76 €
PCS75-24H-30K						30	8	3,30	M6	44,76 €
PCS75-24H-32K						32	10	3,30	M8	44,76 €
PCS75-24H-35K						35	10	3,30	M8	44,76 €
PCS75-24H-38K						38	10	3,30	M8	44,76 €
PCS75-24H-40K						40	12	3,30	M10	44,76 €
PCS75-24H-42K						42	12	3,30	M10	44,76 €
PCS75-24H-45K						45	14	3,80	M12	44,76 €
PCS75-24H-48K						48	14	3,80	M12	44,76 €
PCS75-24H-50K						50	14	3,80	M12	44,76 €
PCS75-25H-28K	25	152,00	159,50	90	40	28	8	3,30	M6	47,53 €
PCS75-25H-30K						30	8	3,30	M6	47,53 €
PCS75-25H-32K						32	10	3,30	M8	47,53 €
PCS75-25H-35K						35	10	3,30	M8	47,53 €
PCS75-25H-38K						38	10	3,30	M8	47,53 €
PCS75-25H-40K						40	12	3,30	M10	47,53 €
PCS75-25H-42K						42	12	3,30	M10	47,53 €
PCS75-25H-45K						45	14	3,80	M12	47,53 €
PCS75-25H-48K						48	14	3,80	M12	47,53 €
PCS75-25H-50K						50	14	3,80	M12	47,53 €

All dimensions in mm

CHAIN SPROCKETS
PLEASE FILL IN THE DETAILS

Please complete this form and return it to us!
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055



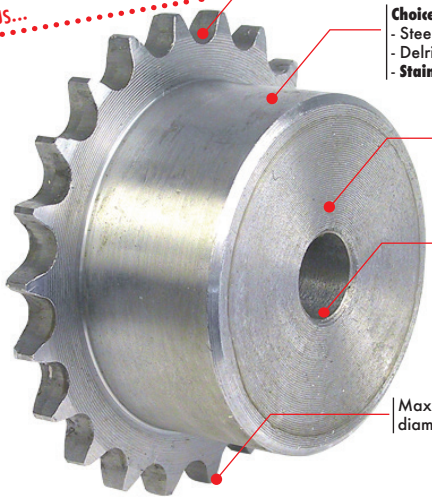
SPROCKET CHARACTERISTICS			
Pitch		Keyway	
N° of teeth		Tapped hole	
Ø PCD		Material	
Ø external		Treatment	
Quantity		Other:	

MADE TO MEASURE

CHAIN SPROCKETS

1. SMALL CHANGES: Find the Part N° of the standard part (from the catalogue or website) and specify the modification(s) required (bore, keyway....)
2. CHANGES TO DIMENSIONS: Please complete the form opposite
3. CUSTOM MADE PART: Please send us your drawing(s)

Made to measure versions of SIMPLEX, DUPLEX OR TRIPLEX sprockets are available!
Contact us...



DID YOU KNOW?
A system built using sprockets and chains must be kept under tension and correctly lubricated. Please do not forget to include a chain tensioner in your system.

Contact our technical support team for more information

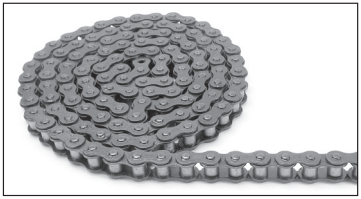
Single chain supplied by the metre

Stock

Pitch
4.0 to 19.05 mm

Steel

- Compatible with standard HPC sprockets
- Supplied in multiples of either 1 metre, 5 metres (in box) or in chain reel (30 metres or 50 metres) lengths depending on model



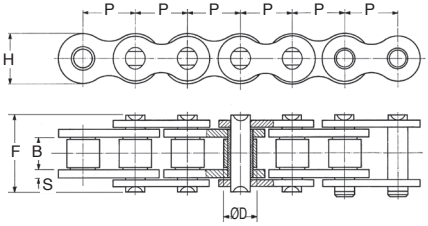
Option

- American pitch (ASA) available on request

Accessories

- Roll-Ring® **RLR** idler **(tome 4 p.130 to p.143)**

New in chain reel



DISCOUNTS A

No. metres	1+	10+	25+	55+
Discount	List	-5%	-10%	On request

DISCOUNTS B

No. metres	1+	100+
Discount	List	On request

Part number	DIN	Pitch P (mm)	B (mm)	Roller ØD (mm)	F (mm)	H (mm)	S (mm)	Breaking strength (kN)	Sold in multiples of	Stock*		Price per metre
In box												
SUA-4	-	4,00	2,70	2,50	6,8	4,1	-	1,8	1 metre	✔	A	252,58 €
SUA-6/M	04-1	6,00	2,80	4,00	7,8	5,0	0,60	3	5 metres	✔	A	12,90 €
SUA-250/M	-	6,35	3,30	3,30	8,0	6,0	-	4	5 metres	✔	A	15,80 €
SBR-8/M	05B-1	8,00	3,00	5,00	8,9	7,1	0,80	5	5 metres	✔	A	12,87 €
SBR-375/M	06B-1	9,52	5,72	6,35	14,1	8,2	1,30	9	5 metres	✔	A	8,24 €
SBR-500/M	08B-1	12,70	7,75	8,51	18,2	11,8	1,60	18	5 metres	✔	A	7,97 €
SBR-625/M	10B-1	15,88	9,65	10,16	20,9	14,7	1,70	22,4	5 metres	✔	A	9,94 €
SBR-750/M	12B-1	19,05	11,68	12,07	24,2	16,0	1,85	29	5 metres	✔	A	12,79 €
In chain reel												
SUA-6/M/T	04-1	6,00	2,80	4,00	7,8	5,0	0,60	3	50 metres	-	B	11,30 €
SBR-8/M/T	05B-1	8,00	3,00	5,00	8,9	7,1	0,80	5	50 metres	-	B	10,28 €
SBR-375/M/T	06B-1	9,52	5,72	6,35	14,1	8,2	1,30	9	50 metres	-	B	6,30 €
SBR-500/M/T	08B-1	12,70	7,75	8,51	18,2	11,8	1,60	18	50 metres	-	B	5,99 €
SBR-625/M/T	10B-1	15,88	9,65	10,16	20,9	14,7	1,70	22,4	30 metres	-	B	8,19 €
SBR-750/M/T	12B-1	19,05	11,68	12,07	24,2	16,0	1,85	29	30 metres	-	B	11,60 €

*Depending on availability - Dimensions in mm

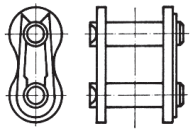
- ***Quick fitting***
- *Connecting link: e.g.:* **SUA-4/L**
  Offset link: from pitch of 9,52mm, e.g.: **SBR-375/LC**
- **Not sold individually, please contact us for details**

Accessories

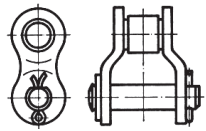
- *Compatible with* **SUA** *and* **SBR** *chains* **(tome 4 p.122)**

SUA/L SBR/L

SBR/LC



Connecting link



Offset link

DISCOUNTS

Qty	1+	10+	25+	45+
Disc.	List	-5%	-10%	On request

Part number Connecting link	Part number Offset link	DIN	Pitch P (mm)	For chain	Stock* Connecting link	Stock* Offset link	Price each 1 to 9 Connecting link	Price each 1 to 9 Offset link
SUA-4/L	-	-	4,00	SUA-4	✔	-	12,80 €	-
SUA-6/L	-	04-1	6,00	SUA-6	✔	-	0,92 €	-
SUA-250/L	-	-	6,35	SUA-250	✔	-	1,06 €	-
SBR-8/L	-	05B-1	8,00	SBR-8	✔	-	1,19 €	-
SBR-375/L	SBR-375/LC	06B-1	9,53	SBR-375	✔	✔	0,77 €	1,47 €
SBR-500/L	SBR-500/LC	08B-1	12,70	SBR-500	✔	✔	1,07 €	2,38 €
SBR-625/L	SBR-625/LC	10B-1	15,88	SBR-625	✔	✔	0,77 €	1,81 €
SBR-750/L	SBR-750/LC	12B-1	19,05	SBR-750	✔	✔	1,28 €	2,33 €

**Depending on availability - Dimensions in mm*

Single chain supplied by the metre

Sta Stock

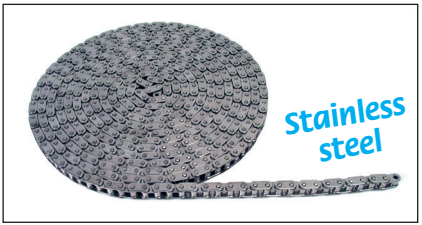
Pitch
9.52 to 19.05 mm

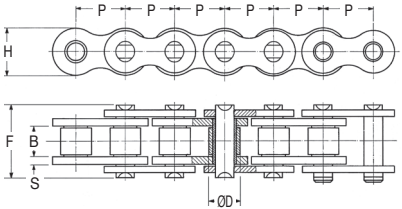
Stainless steel

- Compatible with standard HPC sprockets
- Supplied in multiples of 5 metres

Accessories

- ***Chain tensioner*** *section* ***(tome 4 p.130 to p.143)***





DISCOUNTS

No metres	1+	10+	25+
Discounts	List	-10%	On request

Part number	DIN	Pitch P (mm)	B (mm)	Roller ØD (mm)	F (mm)	H (mm)	S (mm)	Breaking strength (kN)	Sold in multiples of	Stock*	Price per metre
SBS-375/M	06B-1	9,52	5,72	6,35	14,0	8,3	1,3	9	5 metres	✔	33,67 €
SBS-500/M	08B-1	12,70	7,75	8,51	18,7	11,8	1,6	18	5 metres	✔	38,88 €
SBS-625/M	10B-1	15,88	9,65	10,16	21,1	14,7	1,70	22,4	5 metres	✔	54,20 €
SBS-750/M	12B-1	19,05	11,68	12,07	24,5	16,1	1,85	29	5 metres	✔	62,14 €

**Depending on availability - Dimensions in mm*

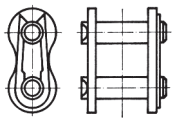
- ***Quick fitting***
- *Connecting link: e.g.* **SBS-375/L**
  Offset link: e.g. **SBS-375/LC**
- *Not sold individually, please contact us for details*

Accessories

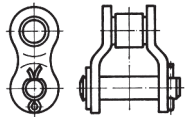
- *Compatible with* ***SBS*** *stainless steel chains* **(tome 4 p.124)**

SBS/L

SBS/LC



Connecting link



Offset link

DISCOUNTS

No metres	1+	10+	25+
Discounts	List	-10%	On request

Part number			Pitch		Stock*	Stock*	Price each 1 to 9	
Connecting link	Offset link	DIN	P (mm)	For chain	Connecting link	Offset link	Connecting link	Offset link
SBS-375/L	SBS-375/LC	06B-1	9,52	SBS-375	✔	✔	2,84 €	2,87 €
SBS-500/L	SBS-500/LC	08B-1	12,70	SBS-500	✔	✔	2,70 €	4,66 €
SBS-625/L	SBS-625/LC	10B-1	15,88	SBS-625	✔	✔	4,36 €	3,31 €
SBS-750/L	SBS-750/LC	12B-1	19,05	SBS-750	✔	✔	2,24 €	7,08 €

**Depending on availability - Dimensions in mm*

Find our full range of

BEARING HOUSINGS

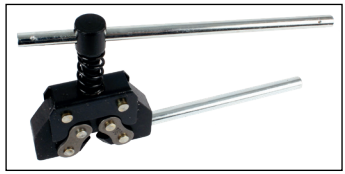
on HPCEUROPE.COM

- Food industry version
- Pressed steel housings
- Food industry housings
- Cast housings
- Stainless steel housings

Drive chain maintenance tools

SBRTOOL

- ***Tools designed to open drive chains by removing the pin from a link***
- *No solid workbench required*
- *Can be used to dismantle a chain that is already installed*
- *Ideal for maintenance services and workshops*



Typical application

DISCOUNTS

Qty	1+	3+	5+
Disc.	Net	-5%	On request

Part number	Chain pitch	Stock*	Price each 1 to 2
SBR-TOOL-B1	Pitch from 6.35 to 19.05mm	✔	167,46 €
SBR-TOOL-C1	Pitch from 25.4 to 31.75mm	-	275,47 €

**Depending on availability - Dimensions in mm*

AUTOMATIC CHAIN TENSIONER

p.130

ROLL-RING® CHAIN TENSIONER

p.136

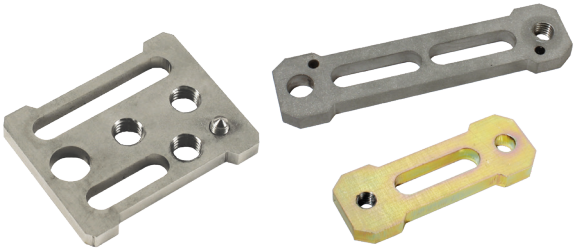
CHAIN IDLER SPROCKET

p.139

UNIVERSAL TENSION ARM

p.142

RIGID MANUAL TENSIONER



p.144

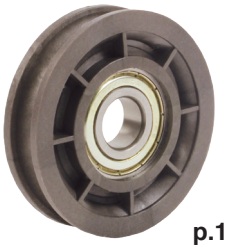
TIGHTENERS FOR CHAINS/BELTS

P. 130-151

BELT TENSIONER

p.146

TENSIONER PULLEY



p.148

Automatic chain tensioner

TC1RP

With 180° guide

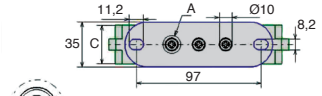
- ***Tensioner for single chain***
- *Materials:*
  Housing: steel with corrosion proof epoxy finish
  Profile: Green HD1000 polyethylene
  Machined column: Black HD500 polyethylene
  Screws and springs: stainless steel 304L

Adjustment

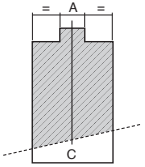
- *Tension pressure can be reduced by freeing the springs, see instruction sheet*

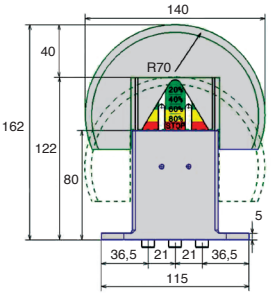
Accessories

- *For use with* ***SBR*** *or* ***SBS*** *chains* ***(tome 4 p.122-124)***



Detail A
Pre-tensioning spring





DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

Part number	Chain	A	C	Stroke	Tension (N) 1 spring	2 springs	3 springs	Stock*	Price each 1 to 3
TC1-RP-06B1	06B1	5	30	40	60 to 132	120 to 264	180 to 396	-	239,14 €
TC1-RP-08B1	08B1	7	30	40	60 to 132	120 to 264	180 to 396	-	239,14 €
TC1-RP-10B1	10B1	9	30	40	60 to 132	120 to 264	180 to 396	-	239,14 €
TC1-RP-12B1	12B1	11	30	40	60 to 132	120 to 264	180 to 396	-	239,14 €

**Depending on availability - Dimensions in mm*

Automatic chain tensioner

With sprocket

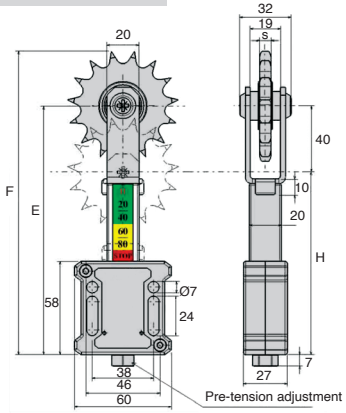
TCRX

- ***Tensioner for single chain***
- *Materials:*
  Housing and column: polyamide reinforced with 30% glass fibre
  Screws and springs: stainless steel 304L
  Steel version: bracket and sprocket steel
  Stainless steel version: bracket, axle and nut stainless steel 304L, stainless steel sprocket, sprocket bearing lubricated for life (FM 222 grease suitable for food industry acc USA standards.

Steel or stainless steel

Accessories

- *For use with* ***SBR*** *or* ***SBS*** *chains* ***(tome 4 p.222-224)***



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

Part number	Chain	Pitch	N° of teeth	S	Øext	ØPCD	F	E	H	Stroke	Tension (N)	Price each 1 to 3
Steel sprocket												
TCRX-06B1	06B1	9,525	15	5,3	49,3	45,81	160	135,0	95,0	40	100 to 240	69,44 €
TCRX-08B1	08B1	12,700	15	7,2	65,5	61,09	186	153,5	113,5	40	100 to 240	68,74 €
TCRX-10B1	10B1	15,875	15	9,1	83,0	76,36	196	153,5	113,5	40	100 to 240	73,42 €
Stainless steel sprocket												
TCRX-06B1/SS	06B1	9,525	15	5,3	49,3	45,81	160	135,0	95,0	40	100 to 240	85,72 €
TCRX-08B1/SS	08B1	12,700	15	7,2	65,5	61,09	186	153,5	113,5	40	100 to 240	91,18 €
TCRX-10B1/SS	10B1	15,875	15	9,1	83,0	76,36	196	153,5	113,5	40	100 to 240	116,48 €

**Depending on availability - Dimensions in mm*

Automatic chain tensioner

TCLAR

With wide guide

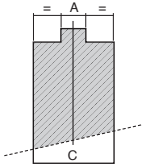
- ***Tensioner for single chain***
- *Materials:*
  Housing: polyamide reinforced with 30% glass fibre
  Profile: Green HD1000 polyethylene
  Machined column: Black HD500 polyethylene
  Screws and springs: stainless steel 304L

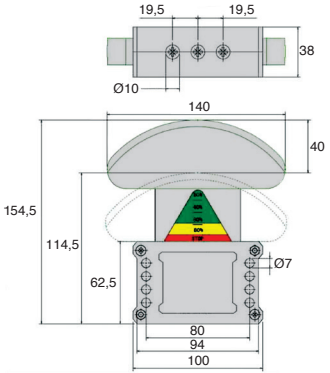
Adjustment

- *Tension pressure can be reduced by loosening the springs, see instructions*

Accessories

- *To use with* ***SBR*** *or* ***SBS*** *chains* **(tome 4 p.122-124)**





DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

Part number	Chain	A	C	Stroke	Tension (N) 1 spring	2 springs	3 springs	Price each 1 to 3
TCL-AR-06B1	06B1	5	30	40	60 to 132	120 to 264	180 to 396	127,52 €
TCL-AR-08B1	08B1	7	30	40	60 to 132	120 to 264	180 to 396	127,52 €
TCL-AR-10B1	10B1	9	30	40	60 to 132	120 to 264	180 to 396	127,52 €
TCL-AR-12B1	12B1	11	30	40	60 to 132	120 to 264	180 to 396	127,52 €

Dimensions in mm

Automatic chain tensioner

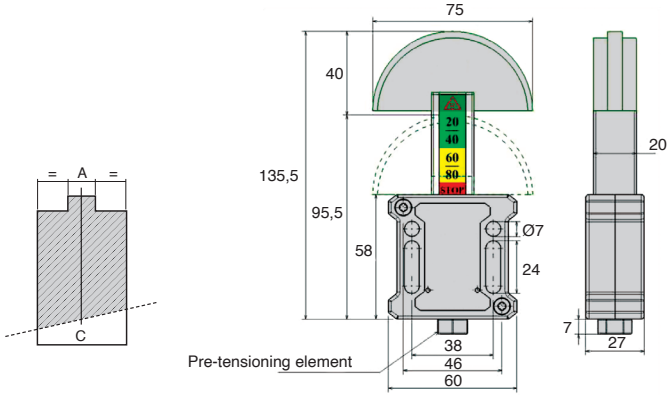
With guide

TCSH

- ***Tensioner for single chain***
- *Materials:*
  Housing and column: polyamide reinforced with 30% glass fibre
  Profile: Green HD1000 polyethylene
  Screws and springs: stainless steel 304L

Accessories

- *For use with **SBR** or **SBS** chains*
  (tome 4 p.222-224)



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

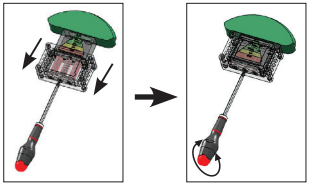
Part number	Chain	A	C	Stroke	Tension (N)	Stock*	Price each 1 to 3
TCSH-06B1	06B1	5	20	40	100 to 240	✔	40,98 €
TCSH-08B1	08B1	7	20	40	100 to 240	✔	40,98 €
TCSH-10B1	10B1	9	20	40	100 to 240	✔	40,98 €
TCSH-12B1	12B1	11	20	40	100 to 240	✔	40,98 €

**Depending on availability - Dimensions in mm*

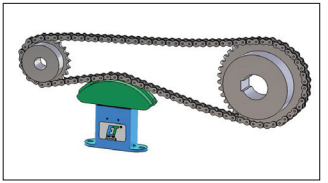
Automatic chain and belt tensioner

TCLAR
TC1RP

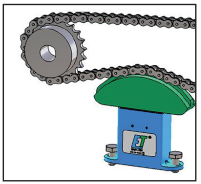
Mounting instructions

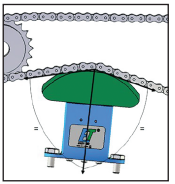


Pre-tension the tensioner using the screws situated under the body

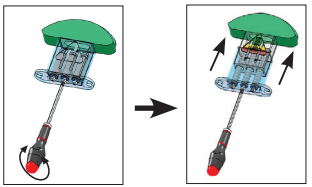


Position the tensioner under the chain (or belt) as close as possible to the driving sprocket on the slack side

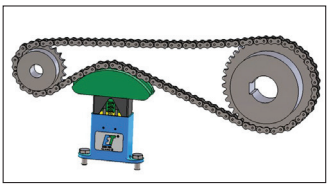




Once the angles of the belt or chain are equidistant to the tensioner, manually put it under tension and tighten.



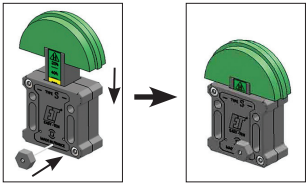
The springs can be loosened to the tension required starting with the one in the middle, leaving the belt (or chain) under pressure. There are two different types of springs.



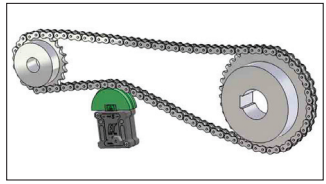
The tensioner is now ready for use. The stroke of the tensioner should be within the green range.

Mounting instructions

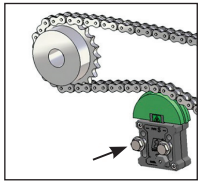
TCSH
TCRX

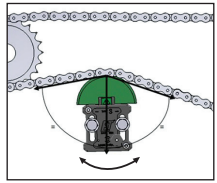


Pre-tension the tensioner using the button.

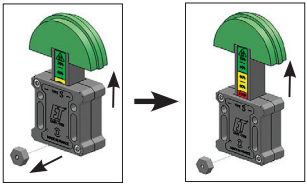


Position the tensioner under the chain (or belt) as close as possible to the driving sprocket on the slack side.

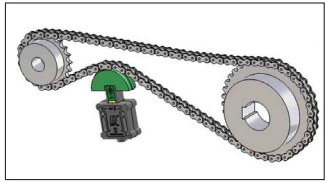




Once the angles of the belt or chain are equidistant to the tensioner, manually put it under tension and tighten.



The spring can be released by removing the pre-tension button, thus freeing the tensioner



The tensioner is now ready for use. The stroke of the tensioner should be within the green range.

Where there is movement in both directions, 2 tensioners must be used under both the slack and tight sides

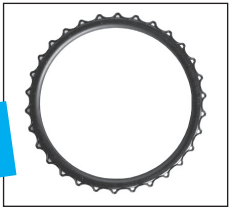
Roll-Ring® chain tensioner

RLR

Self-adjusting

- ***Easily installed***
- *Uses the space between two drive sprockets*
- *Self positioning*
- *Dampens vibration*
- *Self lubricating*
- *Working temperature: -20°C to +70°C (except RLR20-030: -4°C to +40°C)*
- *Normal resistance to UV radiation*
- *Material: polymer*

Very easy to use



Use

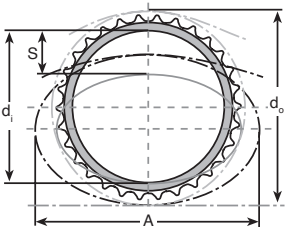
- *Multiple tensioners can be used in series on long chains or in parallel on multiple chains*
- *On triple chains, tensioners are only needed on inner and outer strands*

Advantages

- *Works equally as well on vertically or diagonally mounted chains*
- *Does not require fixing or special installation*

Accessories

- *For use with **SBR** or **SBS** chains* ***(tome 4 p.122-124)***



DISCOUNTS

Qty	1+	6+	21+
Disc.	List	-5%	On request

Part number	No. of teeth	Ref. ISO	Pitch (mm)	do	Internal diameter di	Max. deviation S	A	Static force of max. expansion (N)	Max. chain speed (m/s)	Stock*	Price each 1 to 5
RLR05-030	30	05B	8,00	76,5	65,0	20	104,0	2,9	5,0	✔	135,92 €
RLR06-030	30	06B	9,52	91,1	73,0	25	122,0	15,2	5,2	✔	117,77 €
RLR06-036	36	06B	9,52	109,0	89,0	25	143,0	28,5	5,2	✔	160,55 €
RLR08-026	26	08B	12,70	105,5	87,5	27	135,0	13,4	7,5	✔	109,63 €
RLR08-030	30	08B	12,70	121,5	101,6	30	161,6	14,2	8,6	✔	126,52 €
RLR08-034	34	08B	12,70	137,5	115,4	30	165,0	22,0	8,8	✔	143,37 €
RLR10-026	26	10B	15,88	128,4	105,0	28	153,0	28,2	4,2	✔	133,62 €
RLR10-030	30	10B	15,88	148,0	124,6	33	177,0	23,0	8,8	-	153,74 €
RLR10-034	34	10B	15,88	170,0	141,0	38	217,0	45,1	8,8	-	176,37 €
RLR12-026	26	12B	19,05	155,0	127,6	35	209,5	39,2	5,4	✔	163,29 €
RLR12-030	30	12B	19,05	182,2	153,1	45	242,0	32,2	6,2	✔	188,50 €
RLR16-026	26	16B	25,40	207,0	167,0	45	269,0	95,7	5,7	-	199,00 €
RLR16-030	30	16B	25,40	245,8	202,0	50	306,0	108,5	6,2	-	229,82 €
RLR20-030	30	20B	31,75	303,7	256,4	65	390,0	80,5	7,0	-	351,53 €

**Depending on availability - Dimensions in mm*

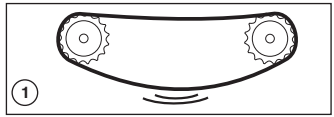
Installation

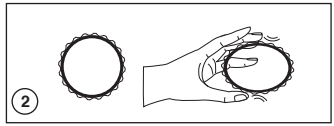
Roll-Ring® chain tensioners do not require any maintenance and can be installed on practically all chain drive systems. **Their installation takes virtually no time and is inexpensive.** The only conditions that must be met to be able to use them are:

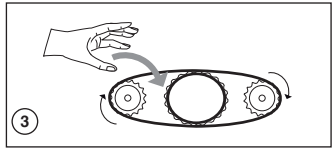
- The gap between the chain strands must be sufficiently large.
- The distance between the chain sprockets must be sufficiently large.

We recommend that you position the tensioner between two chain strands so that there is at least the equivalent of one chain pitch between the Roll-Ring® and the smallest sprocket. The Roll-Ring® can also be mounted in an alternative but efficient manner to that previously described, simply verify that the pre-load is sufficiently high. We do however; recommend that you carry out tests if this is done.

Roll-Ring® chain tensioners can be used in series on the same chain strand. They can also be used in parallel on each strand of a multiple strand chain. For example, a triple strand chain requires two Roll-Ring® tensioners on the outside strands.

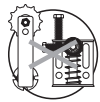






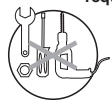
Advantages

Reduced installation time



No additional machining required

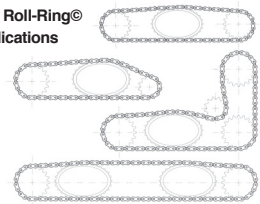
Reduced noise

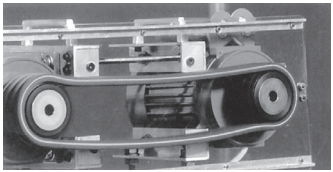


Easy installation

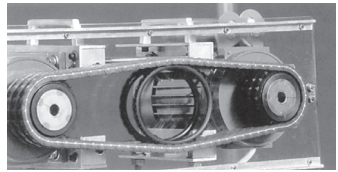
Maintenance free

Typical Roll-Ring© applications





Vibrations on a non tensioned chain



The Roll-Ring© tensioner will dampen the chain

DELIVERY 24/48 H*

FREE DELIVREY FOR ORDERS 100€* OR MORE

€ VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

MINIMUM ORDER 20€*

FREE CATALOGUES

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

FAST QUOTES & ORDERS

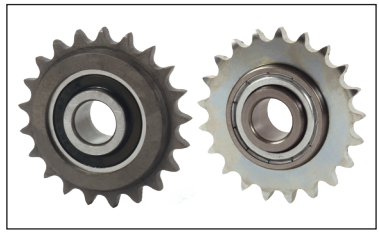
* Certain conditions apply - Deliveries to mainland France only

Chain idler sprocket

Steel or plastic

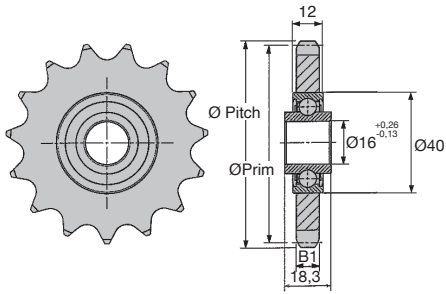
DTR

- **Disk shaped idler sprocket**
- Integrated bearing
- Lubricated for life
- Materials:
  Sprocket in XC38 zinc plated steel or PA6 polyamide (30% glass fibre)
  Steel bearing
- Max speed 70m/min
- Working temp -30/+80°C



Accessories

- For use with **SBR** chains **(tome 4 p.122)**



DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-5%	-10%	On request

Part number	Pitch	Standard	N° of teeth	ØPitch	ØPrim	B1	Bearing	Stock*	Price each 1 to 9
Steel									
DTR-06B1-21	9,525	06B1	21	68,00	63,90	5,30	203KRR	✔	12,98 €
DTR-08B1-16	12,7	08B1	16	69,50	65,10	7,20	203KRR	✔	13,72 €
DTR-10B1-15	15,875	10B1	15	83,00	76,36	9,10	203KRR	✔	16,28 €
DTR-12B1-13	19,05	12B1	13	87,50	79,59	11,10	203KRR	-	17,67 €
DTR-12B1-15	19,05	12B1	15	99,80	91,63	11,10	203KRR	✔	19,20 €
Plastic									
DTR-06B1-21/Z	9,525	06B1	21	68,00	63,90	5,30	203KRR	-	19,83 €
DTR-08B1-16/Z	12,7	08B1	16	69,50	65,10	7,20	203KRR	-	20,65 €
DTR-10B1-15/Z	15,875	10B1	15	83,00	76,36	9,10	203KRR	-	21,70 €
DTR-12B1-13/Z	19,05	12B1	13	87,50	79,59	11,10	203KRR	-	23,67 €
DTR-12B1-15/Z	19,05	12B1	15	99,80	91,63	11,10	203KRR	-	25,50 €

*Depending on availability - Dimensions in mm

Idler chain sprocket

PTR

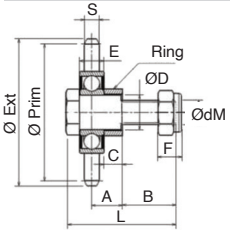
For standard applications

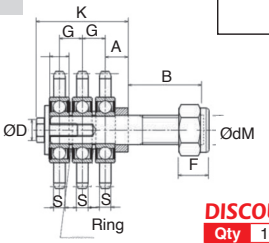
Good price/ quality/ratio

- ***Chain sprocket for use with the BTE universal tension arm***
- *With ball bearings*
- *Greased for life*
- *Material: nut, screw, and sprocket in bichromate steel*
- *Max speed: 70 rpm*
- *t°of use: -30°C to + 80°C*

Accessories

- **BTE** *tension arm* **(tome 4 p.142)**





DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

Part number	Pitch	No. of teeth Z	S	ØdM	ØD	A	B	C	E	F	L	Arm size	Stock*	Price each 1 to 3
Single chain														
PTR-04B1	6,000	15	2,6	M6	6	7	15	4	6	6	28	BTE2	✔	27,55 €
PTR-05B1	8,000	14	2,8	M8	8	7,5	16	4	7	8	30	BTE2	✔	25,11 €
PTR-06B1	9,525	17	5,3	M10	12	12	22	7	10	10	44	BTE3	✔	17,50 €
PTR-08B1	12,700	17	7,2	M12	17	15	26	9	12	12	53	BTE4/BTE5	✔	19,33 €
PTR-10B1	15,800	16	9,1	M12	17	15	26	9	12	12	53	BTE4/BTE5	✔	25,09 €
PTR-12B1	19,050	14	11,1	M12	17	15	26	9	12	12	53	BTE4/BTE5	✔	28,84 €

Part number	Pitch	No. of teeth Z	ØdM	ØD	A	B	G	F	L	Arm size	Stock*	Price each 1 to 3
Double chain												
PTR-06B2	9,525	17	M12	12	12	35	10,24	12	35	BTE4	-	42,61 €
PTR-08B2	12,700	17	M18	17	15	45	13,92	18,5	44	BTE5	-	50,12 €
PTR-10B2	15,800	16	M20	17	15	45	16,59	20	46	BTE6	-	72,71 €
PTR-12B2	19,050	14	M20	17	15	45	19,46	20	49	BTE6	-	82,72 €
Triple chain												
PTR-06B3	9,525	17	M12	12	12	35	10,24	12	45	BTE4	-	57,67 €
PTR-08B3	12,700	17	M18	17	15	45	13,92	18,5	58	BTE5	-	75,22 €
PTR-10B3	15,800	16	M20	17	15	45	16,59	20	64	BTE6	-	107,82 €
PTR-12B3	19,050	14	M20	17	15	45	19,46	20	64	BTE6	-	112,86 €

**Depending on availability - Dimensions in mm*

Inx Stainless steel idler chain sprocket

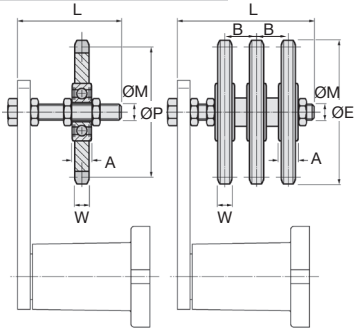
For hostile environments

PTRss

- ***Idler chain sprocket for use with BTE/SS universal tension arm***
- *Fitted with sealed stainless steel bearings*
- *Max working temperature: 100°C*
- *Max speed : 70 rpm*
- *Material :Axle and gear :*
  Stainless steel 304L
  Nuts : Stainless steel A2

Accessories

- ***BTE/SS** tension arm* ***(tome 4 p.143)***



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	3+	5+
Disc.	List	-10%	On request

Part number	Pitch	N° of teeth Z	W	ØM	A	B	L	ØP	ØE	Size of arm	Price each 1 to 2
Simple											
PTR-06B1/SS	9,525	15	5,3	M10	9	-	55	45,81	49,3	BTE3/BTE4	42,72 €
PTR-08B1/SS	12,700	15	7,2	M10	9	-	55	61,09	65,5	BTE4	52,60 €
PTR-10B1/SS	15,800	15	9,1	M12	12	-	80	76,36	83,0	BTE5	67,55 €
PTR-12B1/SS	19,050	15	11,1	M12	12	-	80	91,63	99,8	BTE5	100,47 €
Double											
PTR-06B2/SS	9,525	15	5,3	M10	9	10,24	55	45,81	49,3	BTE4	78,64 €
PTR-08B2/SS	12,700	15	7,2	M10	9	13,92	60	61,09	65,5	BTE4	98,37 €
PTR-10B2/SS	15,800	15	9,1	M12	12	16,59	80	76,36	83,0	BTE5	127,09 €
PTR-12B2/SS	19,050	15	11,1	M12	12	19,46	80	91,63	99,8	BTE5	193,49 €
Triple											
PTR-06B3/SS	9,525	15	5,3	M10	9	10,24	60	45,81	49,3	BTE4	95,51 €
PTR-08B3/SS	12,700	15	7,2	M12	9	13,92	80	61,09	65,5	BTE5	137,11 €
PTR-10B3/SS	15,800	15	9,1	M12	12	16,59	80	76,36	83,0	BTE5	174,04 €
PTR-12B3/SS	19,050	15	11,1	M20	15	19,46	120	91,63	99,8	BTE6	228,81 €

**Depending on availability - Dimensions in mm*

Universal tension arm

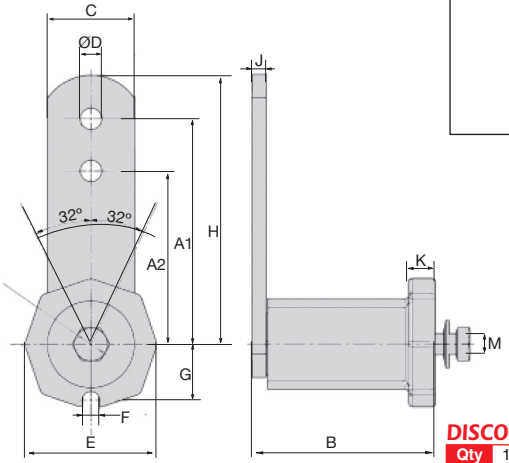
BTE

For standard applications

- ***Universal tension arm for use with PTR tension sprockets***
- *Angle of rotation +/- 32°*
- *Can be installation in any position*
- *Working temperature range: -42° to 80°C*
- *Material:*
  Body: steel (except BTE6, BTE7 and BTE8 which are cast iron)
  Arm: steel

Accessories

- **PTR** *idler sprocket* ***(tome 4 p.140)***



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

Part number	A1	A2	B	C	ØD	E	F	G	H	J	K	ØM	Force (N) 0-32° A1	Force (N) 0-32° A2	Weight (kg)	Stock*	Price each 1 to 3
BTE2-M6	80	60	52	20	8,5	38	8	16	90,0	5	7	M6	0-90	0-110	0,200	✔	34,85 €
BTE3-M8	100	80	63	25	10,5	48	8,5	21	122,5	5	10	M8	0-140	0-170	0,360	✔	37,96 €
BTE4-M10	100	80	78	30	10,5	59	8,5	25	115,0	6	12	M10	0-320	0-430	0,590	✔	43,89 €
BTE5-M12	130	100	108	50	12,5	76	10,5	32	155,0	8	15	M12	0-820	0-1050	1,640	✔	80,18 €
BTE6-M16	175	140	140	60	20,5	92	12,5	41	205,0	10	17	M16	0-1500	0-1880	3,330	-	137,48 €
BTE7-M20	220	175	198	70	20,5	112	12,5	51	255,0	12	18	M20	0-2500	0-3200	6,220	-	208,24 €
BTE8-M24	250	200	212	80	20,5	130	17	52	290	20	20	M24	0-3900	0-4900	9,16	-	496,54 €

**Depending on avaibility - Dimensions in mm*

Universal stainless steel tension arm

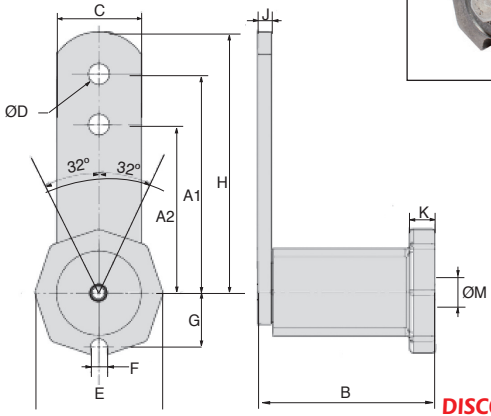
For hostile environments

BTEss

- **Universal tensioner arm for applications in hostile environments**
- Angle of rotation +/- 32°
- Can be mounted in any position
- Used with PTR/SS chain tensioners
- Working temp range -42 to +80°C
- Materials :
  Body stainless steel X5 crNi 18-10
  Arm : stainless steel 304L
  Screw : stainless steel A2

Accessories

- **PTR/SS** *idler sprocket* **(tome 4 p.141)**



DISCOUNTS

Qty	1+	3+	5+
Disc.	List	-10%	On request

Part number	A1	A2	B	C	ØD	E	F	G	H	J	K	ØM	Force (N) 0-32° A1	Force (N) 0-32° A2	Weight (kg)	Price each 1 to 2
BTE2-M6/SS	80	60	52	20	8,5	38	8	16	90,0	5	7	M6	0-90	0-110	0,210	57,22 €
BTE3-M8/SS	100	80	63	25	10,5	48	8,5	21	112,5	5	10	M8	0-140	0-170	0,380	78,16 €
BTE4-M10/SS	100	80	78	30	10,5	59	8,5	25	115,0	6	12	M10	0-320	0-430	0,620	106,89 €
BTE5-M12/SS	130	100	108	50	12,5	76	10,5	34	155,0	8	15	M12	0-820	0-1050	1,700	190,94 €
BTE6-M16/SS	175	140	140	60	20,5	92	12,5	41	205,0	10	17	M16	0-1500	0-1880	3,420	286,43 €

** Depending on availability - Dimensions in mm*

Rigid manual tensioner

TMR

Ideal for belts

steel or stainless steel

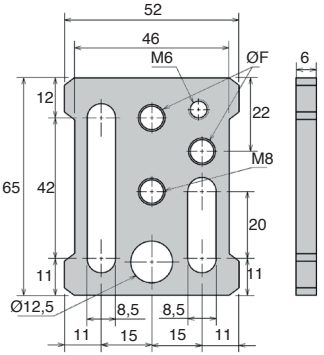
- ***Suitable for mounting and positioning GTC belt rollers and PTR sprockets***
- *Material:*
  Plated XC38 steel
  304L stainless steel

Accessories

- **GTC** *belt tensioner* **(tome 4 p.146)**
- **PTR** *idler chain sprocket* **(tome 4 p.140)**

Typical application using GTC belt roller

Typical application using PTR sprocket



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

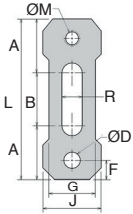
Part number	Material	ØF	Stock*	Price each 1 to 3
TMR-8	Steel	M8	✔	25,97 €
TMR-10	Steel	M10	-	25,97 €
TMR-8/SS	Stainless steel	M8	-	33,44 €
TMR-10/SS	Stainless steel	M10	-	33,44 €

**Depending on avaibility - Dimensions in mm*

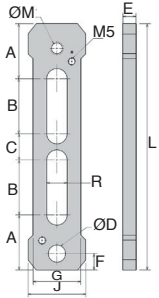
- ***Suitable for mounting and positioning GTC belt rollers and PTR sprockets in a variety of positions***
- *Material:*
  Plated XC38 steel
  304L stainless steel
- **Anti-rotation system*

Accessories

- **GTC** *belt tensioner* ***(tome 4 p.146)***
- **PTR** *idler chain sprocket* ***(tome 4 p.140)***

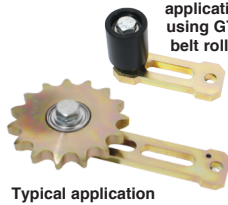


TFR83



TFR125 et TFR150

Typical application using GTC belt roller



Typical application using PTR sprocket

DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

Part number	A	B	C	ØD	E	F	G	J	L	ØM	R	Stock*	Price each 1 to 3
Steel version													
TFR83-8	28	27,5	-	8,5	8	10	24	30	83,5	M8	10,5	✔	14,77 €
TFR83-10	28	27,5	-	8,5	8	10	24	30	83,5	M10	10,5	-	15,22 €
TFR125-8	28	27,5	14	10,5	8	10	24	30	125	M8	10,5	✔	15,80 €
TFR125-10	28	27,5	14	10,5	8	10	24	30	125	M10	10,5	✔	16,40 €
TFR125-12	28	27,5	14	10,5	8	10	24	30	125	M12	10,5	✔	17,30 €
TFR150-10	33,5	33,5	16	12,5	8	15	29	35	150	M10	12,5	-	24,78 €
TFR150-12	33,5	33,5	16	12,5	8	15	29	35	150	M12	12,5	✔	25,38 €
TFR150-16	33,5	33,5	16	12,5	8	15	29	35	150	M16	12,5	-	26,27 €
Stainless steel version													
TFR83-8/SS	28	27,5	-	8,5	8	10	24	30	83,5	M8	10,5	-	23,28 €
TFR83-10/SS	28	27,5	-	8,5	8	10	24	30	83,5	M10	10,5	-	24,19 €
TFR125-8/SS	28	27,5	14	10,5	8	10	24	30	125	M8	10,5	-	29,28 €
TFR125-10/SS	28	27,5	14	10,5	8	10	24	30	125	M10	10,5	-	30,15 €
TFR125-12/SS	28	27,5	14	10,5	8	10	24	30	125	M12	10,5	-	32,26 €
TFR150-10/SS	33,5	33,5	16	12,5	8	15	29	35	150	M10	12,5	-	45,11 €
TFR150-12/SS	33,5	33,5	16	12,5	8	15	29	35	150	M12	12,5	-	45,72 €
TFR150-16/SS	33,5	33,5	16	12,5	8	15	29	35	150	M16	12,5	-	47,21 €

**Depending on avaibility - Dimensions in mm*

Belt tensioner

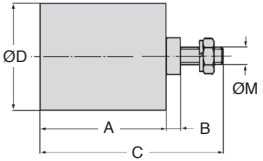
GTC — For standard applications

- **Belt tensioner for use with BTE tender arm or fixed TMR and TFR tensioners**
- Integrated bearings
- Greased for life
- Materials :
  Nut, screw and spacer : Galvanised steel
  Roller : Polyamide
- Max working temp : 70°C

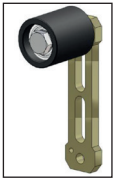
Accessories

- **TMR and TFR** rigid tensioner **(tome 4 p.144, p.145)**
- **BTE** tension arm **(tome 4 p.142)**

Good price/ quality ratio



Typical application : used with BTE tender arm



Typical application : used with TFR tensioner

DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-10%	On request

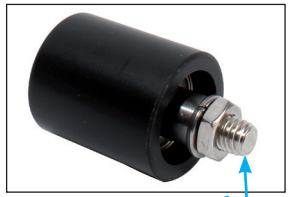
Part number	A	B	C	ØD	ØM	Max speed (rpm)	Weight (kg)	Arm ref	Stock*	Price each 1 to 3
GTC-2	35	3,0	51	30	M8	8000	0,08	BTE2	✔	27,65 €
GTC-3/4	45	6,0	67	40	M10	8000	0,17	BTE3-BTE4	✔	32,57 €
GTC-5	60	7,5	89	60	M12	6000	0,40	BTE5	✔	58,30 €
GTC-6	90	9,0	127	80	M20	5000	1,20	BTE6-BTE7	✔	99,12 €
GTC-7	135	7,0	169	90	M20	4500	1,70	BTE7	-	195,53 €

**Depending on avaibility - Dimensions in mm*

For applications in hostile environements

GTCss

- **Belt tensioner**
  - Sealing caps not fitted
- Integrated bearings
- Max working temp : 70°C
- Materials :
  Nut, screw and spacer :
  304L stainless steel
  Roller : Polyamide

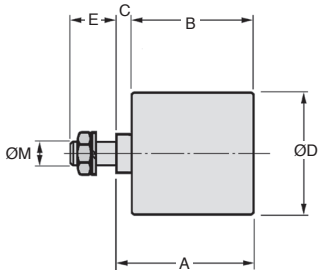


stainless steel

Accessories

- **TMR/SS et TFR/SS** rigid tensioner **(tome 4 p.144, p.145)**
- **BTE/SS** tension arm **(tome 4 p.143)**

Corrosion resistant materials



DISCOUNTS

Qty	1+	3+	5+
Disc.	List	-10%	On request

Part number	A	B	C	ØD	E	ØM	Arm size	Max speed (rpm)	Stock*	Price each 1 to 2
GTC-2/SS	38	35	3	30	13	M8	BTE2	8000	✔	36,60 €
GTC-3/4/SS	51	45	6	40	16	M10	BTE3-BTE4	8000	✔	50,51 €
GTC-5/SS	67,5	60	7,5	60	21,5	M12	BTE5	6000	✔	103,16 €

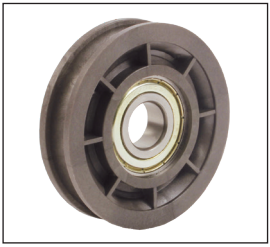
**Depending on avaibility - Dimensions in mm*

Tensioner pulley

PTGR

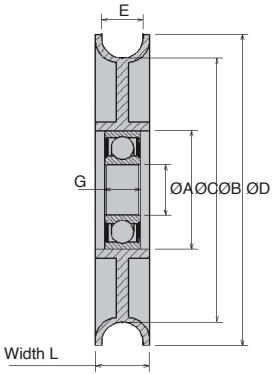
For round belts

- ***Idler pulley***
- *Materials:*
  PA6 reinforced with 30% fibreglass
  Steel bearing
- *Max speed 5,000 RPM*



Accessories

- **AXTR** *shaft* **(tome 4 p.149)**



DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-5%	-10%	On request

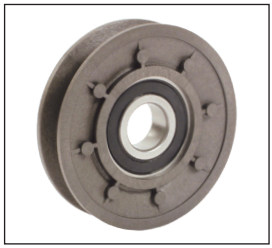
Part number	For round belt	ØD	Width L	ØB	Bearing	C	ØA	E	G	For shaft	Stock*	Price each 1 to 9
PTGR62-10-17	Ø10	76	18	62	6203 2ZZ	38	17	10,3	12	AXTR-M12	✔	15,87 €
PTGR89-14-17	Ø14	105	18	89	6203 2RS	38	17	14,3	12	AXTR-M12	✔	18,20 €
PTGR95-11-17	Ø11	114	20	95	6203 2RS	38	17	11,3	12	AXTR-M12	✔	21,85 €

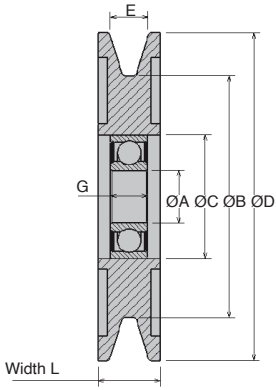
**Depending on availability - Dimensions in mm*

- **Idler pulley**
- Material:
  PA6 reinforced with 30% fibreglass
  steel bearing
- Max speed 5,000 RPM

Accessories

- **AXTR** shaft **(tome 4 p.149)**





DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-5%	-10%	On request

Part number	For V belt	Width ØD	Width L	ØB	Bearing	C	ØA	E	G	For shaft	Stock*	Price each 1 to 9
PTGT49-13-17	A	76	17	49	6203 2RS	38	17	13,3	12	AXTR-M12	✔	13,98 €
PTGT75-13-17	SPA	102	17	75	6203 2RS	38	17	12,8	12	AXTR-M12	✔	15,62 €
PTGT96-15-17	XPB	127	20,5	96	6203 2RS	38	17	15,8	12	AXTR-M12	✔	20,96 €

*Depending on availability - Dimensions en mm

Tensioner pulley

PTGP

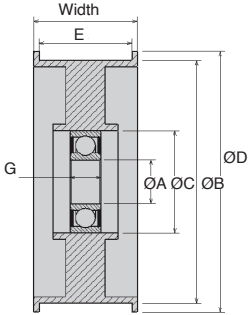
For flat belts

- ***Idler pulley***
- *Material:*
  PA6 reinforced with 30% fibreglass
  Steel bearing
- *Max speed 5,000 RPM*

(Except for PTGP30 and PTGP32/9,000 RPM)

Accessories

- **AXTR** *shaft* **(tome 4 p.149)**



DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-20%	-30%	On request

Part number	ØD	Width L	ØB	Bearing	ØC	ØA	E	G	For shaft	Stock*	Price each 1 to 9
PTGP30-9-8	40	15	30	608 2ZZ	20	8	9,2	7	AXTR-M8	✔	11,71 €
PTGP32-13-8	42	19	32	608 2ZZ	22	8	13,2	7	AXTR-M8	✔	11,84 €
PTGP50-18-17	62	24	50	6203 2RS	38	17	18,3	12	AXTR-M12	✔	12,79 €
PTGP50-20-17	62	26	50	6203 2RS	38	17	20,3	12	AXTR-M12	✔	15,78 €
PTGP75-25-17	87	30,5	75	6203 2RS	38	17	25,3	12	AXTR-M12	✔	16,95 €
PTGP75-31-17	87	36,5	75	6203 2RS	38	17	31,3	12	AXTR-M12	✔	16,12 €
PTGP75-31-17D	87	36,5	75	6203 2RS	38	17	31,3	24	AXTR-M12	✔	20,90 €

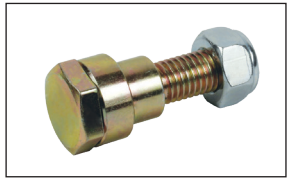
**Depending on availability - Dimensions in mm*

Shaft for tensioner pulley

Suitable for flat, round or V belts

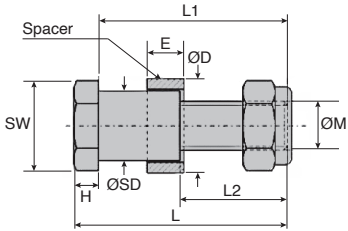
AXTR

- ***Shaft for idler pulley***
- *Material:*
  Zinc plated C45 steel



Accessories

- *Compatible with* ***PTGP, PTGT and PTGR*** *tensioner pulleys* ***(tome 4 p.146, p.147, p.148)***



DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-20%	-30%	On request

Part number	ØM	ØSD	ØD	L	L1	L2	E	Across faces SW	H	Stock*	Price each 1 to 9
AXTR-M8	M8	8	12	30	25	14,5	4	13	5	✔	7,92 €
AXTR-M12	M12	17	23	53	47	26,5	9	22	6	✔	7,59 €

**Depending on availability - Dimensions in mm*

BEVEL GEAR BUDGET RANGE

Economy range

p.154

BEVEL GEAR BUDGET RANGE

Economy range

p.156

BEVEL GEAR BUDGET RANGE

Economy range

p.157

STAINLESS STEEL BEVEL GEAR

stainless steel

p.159

BEVEL GEAR

P. 154-171

PLASTIC BEVEL GEAR

p.163

PLASTIC BEVEL GEAR

p.167

SPIRAL BEVEL GEAR

p.170

Economy range bevel gear

Stock Ste € Eco

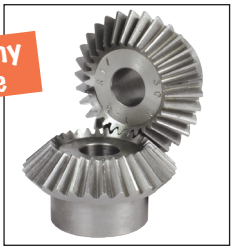
Ratio 1:1

Steel C43

- **Module 1.5 to 5**
- Teeth conform to DIN 3967 except for Module 1 models which are Gleason
- Pressure angle: 20°
- Material: steel C43
- A pair requires 2 gears

Info.

- **Pilot bore dimensions given as a guide only and are subject to change.

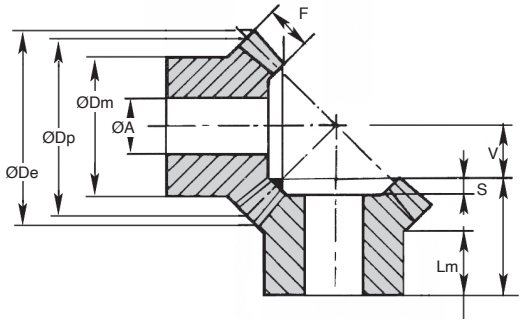


DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Teeth Z	mod	ØD$_a$	ØD$_e$	F	L	ØD$_m$	Pilot bore not guaranteed ØA**	V	S	Lm	Stock*	Price each 1 to 3
B1-16/ECO	16	1	16	17,4	4,0	11,2	13,3	4	4,80	-	6,5	✔	16,01 €
B1-19/ECO	19		19	20,4	4,0	11,8	15,3	4	6,20	-	6,5	✔	16,44 €
B1-22/ECO	22		22	23,4	4,7	12,8	16,3	5	7,20	-	6,5	-	18,43 €
B1-26/ECO	26		26	27,4	5,5	13,3	20,3	5	8,70	-	7,0	-	20,56 €
B1-30/ECO	30		30	31,4	6,4	16,0	20,3	5	10,0	-	8,0	✔	23,76 €
B1.5-16/ECO	16	1,5	24	26,12	6,0	18,9	20,3	8	7,10	-	12,0	✔	16,70 €
B1.5-20/ECO	20		30	32,12	10,0	20,0	22,0	10	7,40	2,0	8,5	✔	20,17 €
B1.5-25/ECO	25		37	39,62	10,0	23,0	28,0	10	11,09	2,0	12,0	✔	25,33 €
B1.5-30/ECO	30		45	47,12	12,0	25,0	30,0	12	13,35	2,5	12,0	✔	29,10 €
B2-16/ECO	16	2	32	34,83	8,0	23,5	25,3	8	9,50	-	14,0	✔	19,73 €
B2-20/ECO	20		40	42,83	12,0	25,0	32,0	10	10,78	3,0	12,0	✔	24,56 €
B2-25/ECO	25		50	52,82	14,0	28,0	40,0	12	14,28	3,0	12,3	✔	39,32 €
B2-30/ECO	30		60	62,83	16,0	30,0	50,0	12	17,78	3,0	12,8	✔	47,32 €
B2.5-16/ECO	16	2,5	40,0	43,53	10,0	28,1	30,3	12	11,90	-	15,0	✔	30,00 €
B2.5-20/ECO	20		50,0	53,53	12,0	30,5	40,0	12	15,43	3,5	16,0	✔	39,35 €
B2.5-25/ECO	25		62,5	66,00	15,0	33,5	50,0	15	19,48	3,5	16,0	✔	47,93 €
B2.5-30/ECO	30		75,0	78,53	18,0	35,5	55,0	15	23,63	3,5	16,0	✔	56,52 €
B3-16/ECO	16	3	48,0	52,25	12,0	31,7	40,3	12	14,30	-	18,0	✔	35,14 €
B3-20/ECO	20		60,0	64,24	18,0	35,0	45,0	15	16,00	4,0	13,6	✔	43,65 €
B3-25/ECO	25		75,0	79,24	20,0	38,0	55,0	15	22,00	4,0	16,0	✔	52,73 €
B3-30/ECO	30		90,0	94,24	22,0	40,0	60,0	20	28,00	4,0	17,0	✔	63,76 €

*Depending on avaibility - Dimensions in mm



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Teeth Z	mod	$ØD_p$	$ØD_e$	F	L	$ØD_m$	Pilot bore not guaranteed ØA**	V	S	Lm	Stock*	Price each 1 to 3
B3.5-16/ECO	16	3,5	56,0	60,95	14,0	36,4	45,3	16	16,60	-	20,0	✔	39,27 €
B3.5-20/ECO	20		70,0	74,95	22,0	40,5	55,0	15	18,13	4,5	17,0	-	47,83 €
B3.5-25/ECO	25		87,5	92,45	26,0	43,5	65,0	20	23,97	4,5	18,0	-	67,17 €
B3.5-30/ECO	30		105,0	109,95	30,0	48,0	70,0	20	30,02	4,5	19,0	-	78,32 €
B4-16/ECO	16	4	64,0	69,65	15,0	44,3	50,3	16	19,70	-	25,0	✔	46,08 €
B4-20/ECO	20		80,0	85,65	25,0	43,0	60,0	18	20,74	5,0	18,0	✔	57,32 €
B4-25/ECO	25		100,0	105,65	28,0	45,0	70,0	20	28,50	5,0	18,0	✔	72,39 €
B4-30/ECO	30		120,0	125,65	32,0	48,0	80,0	20	35,67	5,0	16,0	-	93,62 €
B4.5-16/ECO	16	4,5	72,0	78,38	17,5	46,3	55,3	20	21,70	-	25,0	-	50,96 €
B4.5-20/ECO	20		90,0	96,38	28,0	48,0	65,0	20	23,41	6,0	18,0	-	81,15 €
B4.5-25/ECO	25		112,5	118,80	32,0	50,0	75,0	20	31,76	6,0	18,0	-	98,71 €
B4.5-30/ECO	30		135,0	141,38	35,0	53,0	90,0	20	40,82	6,0	17,0	-	119,64 €
B5-16/ECO	16	5	80,0	87,07	18,0	48,9	60,3	20	25,10	-	25,0	-	55,56 €
B5-20/ECO	20		100,0	107,07	30,0	50,5	70,0	20	26,86	6,5	18,5	✔	83,43 €
B5-25/ECO	25		125,0	132,07	34,0	53,5	90,0	20	36,36	6,5	18,0	✔	107,40 €
B5-30/ECO	30		150,0	157,07	38,0	56,5	110,0	20	45,97	6,17	18,0	✔	134,97 €

Depending on availability - Dimensions in mm

Economy range bevel gear

Ratio 2:1

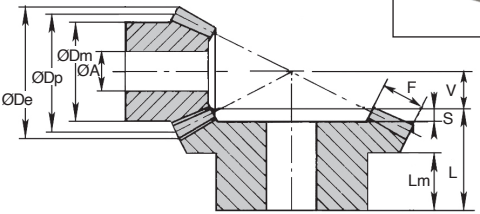
Steel C43

- ***Module 1.5 to 5***
- *Teeth conform to DIN 3967 except for Module 1 models which are Gleason*
- *Pressure angle: 20°*
- *Material: steel C43*
- *A pair requires 2 gears*

Economy range

Info.

- ***Pilot bore dimensions given as a guide only and are subject to change.*



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Teeth Z	mod	ØD$_s$	ØD$_a$	F	L	ØD	Pilot bore not guaranteed ØA**	V	S	Lm	Stock*	Price each 1 to 3
DB1-15/ECO	15	1	15	17,4	5	11,9	13,3	4	10,10	-	6,5	-	-
DB1-30/ECO	30		30	30,6	5	15,1	20,3	5	4,90	1,4	9,0	-	-
DB1.5-16/ECO	16	1,5	24	26,68	8	19,5	21	10	16,33	1,5	11,3	✔	17,38 €
DB1.5-32/ECO	32		48	49,34	8	20,0	32	12	7,45	3,0	10,0	✔	30,48 €
DB2-16/ECO	16	2	32	35,57	10	23,0	26	10	22,41	2,0	11,9	✔	21,98 €
DB2-32/ECO	32		64	65,78	10	25,0	40	12	10,21	4,0	10,0	✔	50,64 €
DB2.5-16/ECO	16	2,5	40	44,47	12	27,5	34	12	28,38	2,5	14,4	✔	30,98 €
DB2.5-32/ECO	32		80	82,23	12	25,0	50	15	12,97	5,0	10,0	✔	56,82 €
DB3-16/ECO	16	3	48	53,36	15	28,0	40	15	33,64	3,0	11,6	✔	37,95 €
DB3-32/ECO	32		96	98,68	15	30,0	60	15	15,31	6,0	10,0	✔	71,65 €
DB3.5-16/ECO	16	3,5	56	62,26	18	33,5	48	15	38,83	3,5	14,4	✔	41,61 €
DB3.5-32/ECO	32		112	115,12	18	31,0	70	20	17,77	7,0	10,0	✔	84,85 €
DB4-16/ECO	16	4	64	71,15	20	36,0	50	15	44,81	4,0	13,4	✔	51,97 €
DB4-32/ECO	32		128	131,57	20	32,0	80	20	20,42	8,0	10,0	✔	89,27 €
DB4.5-16/ECO	16	4,5	72	80,05	22	39,5	60	20	51,00	4,5	15,4	-	56,66 €
DB4.5-32/ECO	32		144	148,00	22	36,0	90	20	23,21	9,0	10,0	-	117,54 €
DB5-16/ECO	16	5	80	88,94	25	50,0	60	20	56,06	5,0	21,1	-	61,85 €
DB5-32/ECO	32		160	164,46	25	38,0	100	20	25,52	10,0	10,0	-	141,49 €

**Depending on avaibility - Dimensions in mm*

Economy range bevel gear

Steel C43

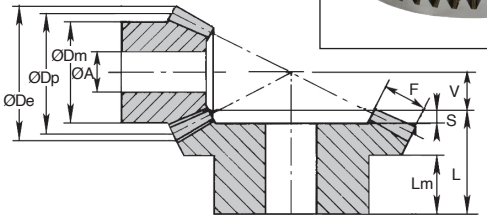
Ratio 3:1

- **Module 1.5 to 5**
- Teeth conform to DIN 3967 except for Module 1 models which are Gleason
- Pressure angle: 20°
- Material: steel C43
- A pair requires 2 gears

Info.

- **Pilot bore dimensions given as a guide only and are subject to change.

Economy range



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Teeth Z	mod	ØD	ØD	F	L	ØD	Pilot bore not guaranteed ØA**	V	S	Lm	Stock*	Price each 1 to 3
TB1-15/ECO	15	1	15	17,7	7,1	16,6	13,3	4	15,4	-	9,2	-	-
TB1-45/ECO	45		45	45,3	7,1	17,1	25,3	8	4,9	1,9	10	-	-
TB1.5-16/ECO	16	1,5	24	26,82	12	24,0	20	10	24,42	1,0	11,7	✔	19,30 €
TB1.5-48/ECO	48		72	72,95	12	20,0	50	12	7,27	3,0	10,0	✔	59,51 €
TB2-16/ECO	16	2	32	35,80	15	28,5	26	12	33,26	1,5	12,4	✔	22,88 €
TB2-48/ECO	48		96	97,26	15	23,0	60	15	9,90	4,0	10,0	✔	74,66 €
TB2.5-16/ECO	16	2,5	40	44,74	18	32,0	32	12	42,41	1,5	13,0	-	34,46 €
TB2.5-48/ECO	48		120	121,58	18	26,0	70	20	12,60	5,0	10,0	-	87,10 €
TB3-16/ECO	16	3	48	53,69	18	32,0	40	15	54,25	2,0	12,1	✔	34,71 €
TB3-48/ECO	48		144	145,90	18	29,0	80	20	16,20	6,0	10,0	✔	105,22 €
TB3.5-16/ECO	16	3,5	56	62,64	22	38,0	48	15	62,29	2,5	15,0	-	44,15 €
TB3.5-48/ECO	48		168	170,21	22	31,0	90	20	18,48	7,0	10,0	-	139,33 €
TB4-16/ECO	16	4	64	71,59	25	41,5	55	20	71,23	3,0	15,2	-	55,58 €
TB4-48/ECO	48		192	194,53	25	33,0	100	20	21,20	8,0	10,0	-	171,13 €
TB4.5-16/ECO	16	4,5	72	80,53	28	53,0	60	20	80,27	3,0	23,4	-	63,69 €
TB4.5-48/ECO	48		216	218,84	28	49,0	100	20	23,93	9,0	18,0	-	243,75 €
TB5-16/ECO	16	5	80	89,48	35	60,0	60	20	85,61	3,0	22,5	-	69,76 €
TB5-48/ECO	48		240	243,16	35	50,0	150	20	25,45	10,0	20,0	-	263,61 €

*Depending on availability - Dimensions in mm

Economy range bevel gear

Ratio 4:1

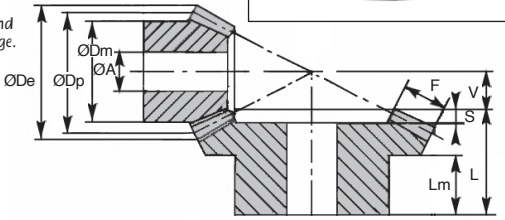
Steel C43

- ***Module 1 to 5***
- *Teeth conform to DIN 3967 except for Module 1 models which are Gleason*
- *Pressure angle: 20°*
- *Material: steel C43*
- *A pair requires 2 gears*

Economy range

Info.

- ***Pilot bore dimensions given as a guide only and are subject to change.*



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Teeth Z	mod	ØD1	ØD2	F	L	ØD3	Pilot bore not guaranteed ØA**	V	S	Lm	Stock*	Price each 1 to 3
FB1-15/ECO	15	1	15	17,8	9,3	17,2	13,3	4	20,8	-	7,7	-	18,45 €
FB1-60/ECO	60		60	60,3	9,3	17,1	30,3	8	4,9	1,9	10	-	63,77 €
FB1.5-16/ECO	16	1,5	24	26,91	12	25,0	18	10	36,02	1,0	12,2	✔	18,92 €
FB1.5-64/ECO	64		96	96,73	12	22,0	70	15	8,53	3,0	10,0	✔	83,43 €
FB2-16/ECO	16	2	32	35,88	15	24,0	25	12	49,07	1,0	8,2	✔	23,39 €
FB2-64/ECO	64		128	128,97	15	24,0	80	20	11,79	4,0	10,0	✔	101,23 €
FB2.5-16/ECO	16	2,5	40	44,85	18	30,5	30	12	61,99	1,5	11,7	-	33,80 €
FB2.5-64/ECO	64		160	161,21	18	29,0	90	20	13,77	5,0	10,0	-	134,99 €
FB3-16/ECO	16	3	48	53,82	22	34,0	40	15	74,05	2,0	11,0	-	34,39 €
FB3-64/ECO	64		192	193,45	22	30,0	100	20	16,41	6,0	10,0	-	165,05 €
FB3.5-16/ECO	16	3,5	56	62,80	25	45,0	48	15	87,13	2,0	19,1	-	45,39 €
FB3.5-64/ECO	64		224	225,70	25	50,0	100	20	19,32	7,0	22,0	-	253,06 €
FB4-16/ECO	16	4	64	71,76	30	50,0	50	20	98,21	2,0	18,5	-	53,26 €
FB4-64/ECO	64		256	257,94	30	50,0	120	20	21,72	8,0	20,0	-	308,08 €
FB4.5-16/ECO	16	4,5	72	80,73	32	53,0	55	20	112,08	2,5	19,0	-	58,83 €
FB4.5-64/ECO	64		288	290,18	32	53,0	130	20	24,83	9,0	23,0	-	319,71 €
FB5-16/ECO	16	5	80	89,70	35	58,0	60	20	125,06	2,5	20,6	-	66,82 €
FB5-64/ECO	64		320	322,42	35	58,0	150	20	27,65	10,0	25,0	-	495,17 €

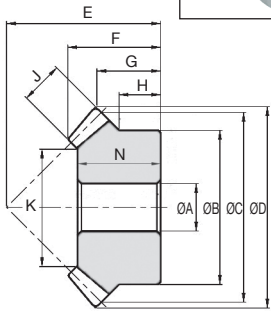
**Depending on availability - Dimensions in mm*

Stainless steel bevel gear

Stainless steel 303

Ratio 1:1

- ***Module 1 to 2.5***
- *Pressure angle 20°*
- *Teeth: Gleason*
- *Precision JIS B 1704 : 1978 grade 3*
- *Material :*
Stainless steel 303
- *Gear hardness < 187HB*
- *Two gears required to make a pair*



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-12%	On request

Part number	Module	Teeth Z	ØA H7	ØB	ØC	ØD	E	F	G	H	N	J	K	Weight (g)	Price each 1 to 5
SSB1-20-RA	1	20	6	16	20	21,41	20	13,95	10,71	8	12	5	9,86	0,019	69,48 €
SSB1-25-RA		25	6	20	25	26,41	23	15,16	11,21	8	14	6	15,03	0,035	76,59 €
SSB1-30-RA		30	8	24	30	31,41	28	17,71	13,71	10	16	6	19,03	0,057	93,85 €
SSB1.5-20-RA	1,5	20	8	26	30	32,12	30	21,24	16,06	13	19	8	15,37	0,074	88,34 €
SSB1.5-25-RA		25	10	30	37,5	39,62	34	22,25	16,31	11,5	19	9	19,54	0,11	110,47 €
SSB1.5-30-RA		30	10	36	45	47,12	43	28,24	21,56	16	25	10	25,72	0,21	166,72 €
SSB2-20-RA	2	20	12	34	40	42,83	37	24,89	18,41	14	22	10	21,72	0,15	128,74 €
SSB2-25-RA		25	12	45	50	52,83	40	24,33	16,41	12,5	20	12	26,06	0,24	160,33 €
SSB2-30-RA		30	12	45	60	62,83	50	29,43	21,41	12,5	25	12	36,06	0,37	240,37 €
SSB2.5-20-RA	2,5	20	14	42	50	53,54	48	32,54	24,77	19	29	12	28,06	0,30	182,87 €
SSB2.5-25-RA		25	16	55	62,5	66,04	50	30,41	20,52	15	26	15	34,57	0,46	236,98 €
SSB2.5-30-RA		30	16	60	75	78,54	62	36,28	26,27	17	32	15	47,57	0,76	368,54 €

Dimensions in mm

Ratio
1,5:1
2:1
3:1

Stainless steel 303

- ***Module 1 to 2.5***
- *Pressure angle 20°*
- *Teeth: Gleason*
- *Precision JIS B 1704 : 1978 grade 3*
- *Material :*
Stainless steel 303
- *Gear hardness < 187HB*
- *Two gears required to make a pair*

stainless steel

DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-12%	On request

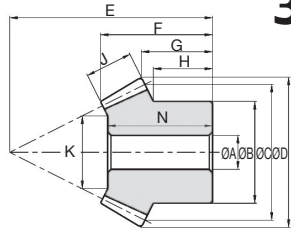
Part number	Module	Teeth Z	ØA H7	ØB	ØC	ØD	E	F	G	H	N	J	K	Weight (g)	Price each 1 to 5
Ratio 1,5:1															
SSHB1.5-20-RA	1,5	20	8	25	30	33,13	33	18,63	11,54	8,83	17	9	17,05	0,063	95,57 €
SSHB1.5-30-RA		30	10	30	45	46,24	28	18,53	13,93	8	16	9	27,37	0,120	147,19 €
SSHB2-20-RA	2	20	10	35	40	44,18	45	25,06	16,39	13,33	22	11	21,34	0,160	142,70 €
SSHB2-30-RA		30	10	35	60	61,65	40	26,87	21,24	15	23	11	37,56	0,260	224,76 €
SSHB2.5-20-RA	2,5	20	12	40	50	55,22	55	31,06	19,24	14,16	28	15	27,42	0,280	204,71 €
SSHB2.5-30-RA		30	15	45	75	77,07	50	34,22	26,55	18	30	15	45,61	0,540	347,99 €
Ratio 2:1															
SSDB1.5-20-RA	1,5	20	8	25	30	33,61	46	25,54	16,9	14,75	24	10	17,28	0,088	102,03 €
SSDB1.5-40-RA		40	10	38	60	60,88	35	25,01	20,88	15	22	10	39,64	0,270	228,96 €
SSDB2-20-RA	2	20	12	32	40	44,81	60	34,16	21,2	18	32	15	20,92	0,190	160,70 €
SSDB2-40-RA		40	12	50	80	81,17	45	32,37	26,17	18	27	15	48,46	0,610	372,68 €
SSDB2.5-20-RA	2,5	20	12	40	50	56,01	75	43,78	26,5	22,5	41	20	24,56	0,400	249,74 €
SSDB2.5-40-RA		40	15	60	100	101,46	55	39,73	31,46	20	35	20	60,28	1,210	629,33 €

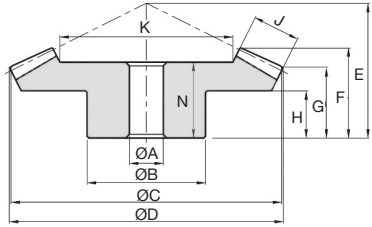
Dimensions in mm

Stainless steel bevel gear

Stainless steel 303

Ratio
1,5:1
2:1
3:1





DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-12%	On request

Part number	Module	Teeth Z	ØA H7	ØB	ØC	ØD	E	F	G	H	N	J	K	Weight (g)	Price each 1 to 5
Ratio 3:1															
SSTB1.5-15-RA	1.5	15	8	18	22,5	26,54	47	23,19	13,92	12,5	22,5	10	14,75	0,041	76,21 €
SSTB1.5-45-RA		45	10	36	67,5	68,06	28	20,44	17,59	11	17	10	46,58	0,250	249,00 €
SSTB2-15-RA	2	15	10	24	30	35,35	60	29,8	15,89	14	29	15	19,13	0,095	110,45 €
SSTB2-45-RA		45	12	60	90	90,75	40	30,4	26,12	17	26	15	59,04	0,800	435,38 €
SSTB2.5-15-RA	2.5	15	12	30	37,5	44,18	75	38,41	19,86	17,5	37	20	20,51	0,190	156,56 €
SSTB2.5-45-RA		45	15	60	112,5	113,43	50	38,35	32,65	22	35	20	72,84	1,360	725,26 €

Dimensions in mm

Bevel gears

Principle

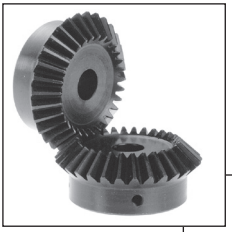
- Bevel gears are used to change the direction of transfer in a power transfer system. Unlike straight spur gears, bevel gears with the same module are not interchangeable, a pinion can only be used with the wheel for which it was designed and manufactured

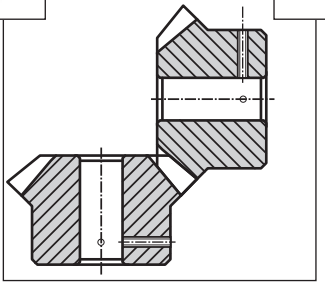
Assembly

- When assembling a pair of gears, the two cones should be mated together. As this can can result in axial and radial forces, it may be necessary to use stops, bearings or housings.

Application

- Pairs of bevel gears are often used to transmit power or movement through 90°.





Plastic bevel gear

Moulded nylon PA6

Ratio 1:1

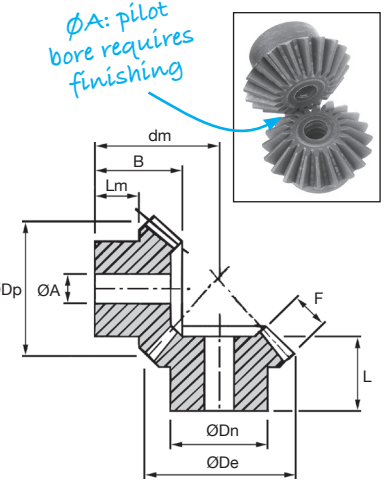
- Module 1 to 3.5
- Moulded parts
- Material: Nylon 6 reinforced with 30% glass fibre
- Rough pilot bore after moulding

Options

- We are unable to modify these parts

Info.

- The 2 bevels should form a matching pair
- Moulded pre-bore must be machined to suit the application
- *Pilot bore dimension given as a guide only



Economy range

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Teeth Z	Module	ØDe	ØDp	B	F	ØDn	dm	Pilot bore no guaranteed ØA*	L	Lm	Stock*	Price each 1 to 9
MEB1-16	16	1,0	17,8	16,0	14,0	4	13	18,59	5	14,0	9,0	✔	4,94 €
MEB1.5-16	16	1,5	25,0	24,0	18,0	6	20	25,10	8	17,0	8,9	✔	6,22 €
MEB1.5-20	20	1,5	32,1	30,0	20,0	8	22	28,70	6	18,0	9,0	✔	6,92 €
MEB1.5-30	30	1,5	47,1	45,0	25,0	10	35	39,70	12	22,5	12,0	✔	10,27 €
MEB2-16	16	2,0	34,8	32,0	20,0	9	25	28,80	10	17,0	9,3	✔	8,65 €
MEB2-20	20	2,0	42,8	40,0	27,0	12	32	35,70	8	22,0	12,0	✔	12,20 €
MEB2-30	30	2,0	62,8	60,0	30,0	16	50	47,80	12	27,0	12,8	✔	16,62 €
MEB2.5-16	16	2,5	43,5	40,0	27,0	10	30	37,30	12	22,0	13,3	✔	10,83 €
MEB2.5-20	20	2,5	53,5	50,0	30,0	12	38	45,90	12	27,0	16,0	✔	12,57 €
MEB2.5-30	30	2,5	78,5	75,0	35,0	18	50	59,10	14	32,0	16,0	-	17,48 €
MEB3-16	16	3,0	52,2	48,0	30,0	12	38	44,20	11	26,0	16,2	✔	15,86 €
MEB3-20	20	3,0	64,2	60,0	35,0	18	44	51,10	14	31,0	13,6	✔	16,82 €
MEB3-30	30	3,0	94,2	90,0	40,0	22	60	68,10	20	36,0	19,0	✔	21,94 €
MEB3.5-20	20	3,5	74,9	70,0	40,5	22	56	58,60	14	36,0	19,0	-	On request

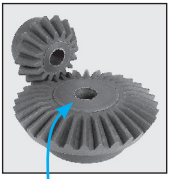
*Depending on availability - Dimensions in mm

Plastic bevel gear

Ratio 2:1 – 3:1

Moulded nylon PA6

- **Module 1.5 to 3**
- Moulded parts
- Material:
  Nylon 6 reinforced with 30% glass fibre



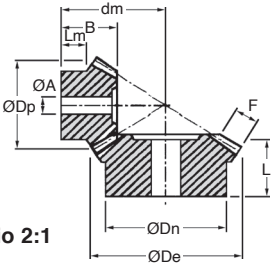
ØA: Pilot bore requires finishing**

Options

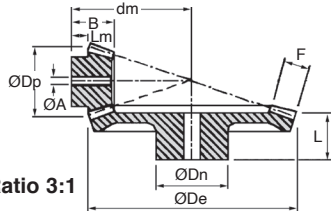
- ***We are unable to modify these parts***

Info.

- The 2 bevels should form a matching pair
- Moulded pre-bore must be machined to suit the application
- **Pilot bore dimension given as a guide only



Ratio 2:1



Ratio 3:1

Economy range

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Teeth Z	Module	ØDe	ØDp	B	F	ØDn	Pilot bore no guaranteed ØA*	dm	L	Lm	Stock*	Price each 1 to 9
Ratio 2:1													
MDB1.5-16	16	1,5	26,7	24	18,5	8	18	8	34,9	17,0	10,3	✔	7,80 €
MDB1.5-32	32	1,5	49,3	48	20,0	8	32	12	27,5	17,5	10,0	✔	13,38 €
MDB2-16	16	2,0	35,6	32	23,0	10	24	10	45,4	21,0	12,2	✔	9,10 €
MDB2-32	32	2,0	65,8	64	25,0	10	40	12	35,2	22,0	10,0	✔	19,96 €
MDB2.5-16	16	2,5	44,4	40	27,5	12	30	12	56,0	25,0	14,4	✔	11,75 €
MDB2.5-32	32	2,5	82,2	80	30,0	12	50	15	43,5	26,5	10,0	✔	24,75 €
MDB3-16	16	3,0	53,4	48	28,0	15	40	14	61,6	25,0	11,6	-	On request
MDB3-32	32	3,0	98,7	96	33,0	15	60	15	50,4	30,5	15,0	-	On request
Ratio 3:1													
MTB1.5-16	16	1,5	26,9	24	22,0	12	20	8	46,3	21,0	9,7	✔	On request
MTB1.5-48	48	1,5	72,9	72	21,0	12	42	15	29,2	19,0	12,0	✔	On request
MTB2.5-16	16	2,5	44,7	40	28,0	18	34	14	70,4	26,0	9,2	-	14,93 €
MTB2.5-48	48	2,5	121,6	120	32,0	18	60	20	44,6	27,0	16,0	-	28,69 €
MTB3-16	16	3,0	53,7	48	30,0	18	35	10	84,2	28,0	11,2	-	On request
MTB3-48	48	3,0	145,9	144	38,0	18	50	20	54,1	32,0	19,0	-	On request

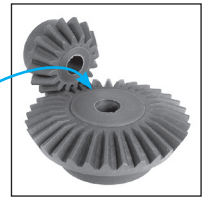
*Depending on availability - Dimensions in mm

Plastic bevel gear

Moulded nylon 6

Ratio 1.5:1 – 4:1

- **Module 2 to 3**
- Moulded parts
- Material:
  Nylon 6 reinforced with 30% glass fibre



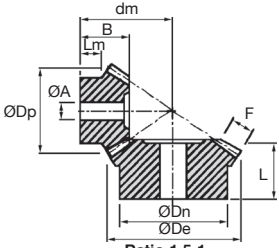
ØA: pilot bore requires finishing

Options

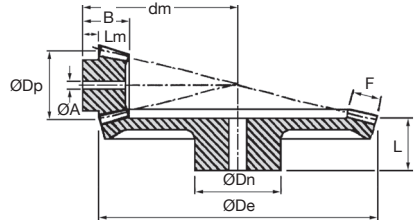
- **We are unable to modify these parts**

Info.

- The 2 bevels should form a matching pair
- Moulded pre-bore must be machined to suit the application
- *Pilot bore dimension given as a guide only



Ratio 1.5:1



Ratio 4:1

Economy range

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

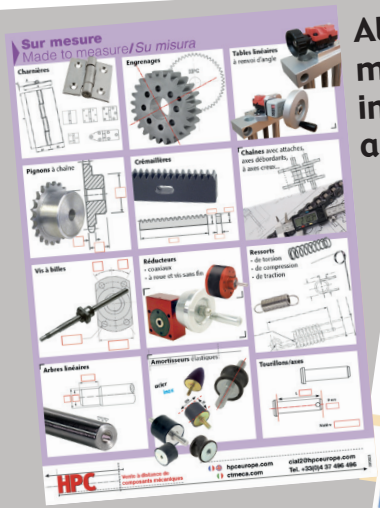
Part number	Teeth Z	Module	ØDe	ØDp	B	F	ØDn	Pilot bore no guaranteed ØA*	dm	L	Lm	Stock*	Price each 1 to 9
Ratio 4:1													
MFB2.5-16	16	2,5	44,9	40	30,5	18	32	15	92,6	29,0	11,7	✔	14,02 €
MFB2.5-64	64	2,5	161,2	160	35,0	18	80	20	48,8	30,0	16,0	✔	60,42 €
MFB3-16	16	3,0	53,8	48	32,0	20	35	10	108,0	30,0	11,1	✔	26,19 €
MFB3-64	64	3,0	193,5	192	42,0	20	60	19	58,8	36,0	22,0	✔	52,72 €
Ratio 1,5:1													
MHB2-20	20	2,0	43,3	40	23,0	10	30	8	43,3	23,0	10,2	-	On request
MHB2-30	30	2,0	62,2	60	27,0	10	50	11	40,6	27,5	15,2	-	On request

*Depending on availability - Dimensions in mm

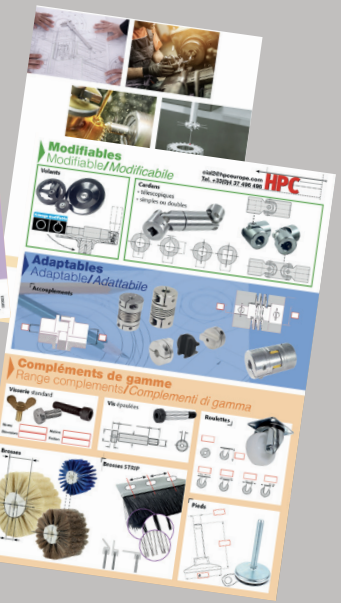
Request our guide

MADE TO MEASURE MECHANICAL PARTS

on HPCEUROPE.COM



All your pieces made to measure, individually or in small and medium series!



GUIDE FREE

Plastic bevel gear

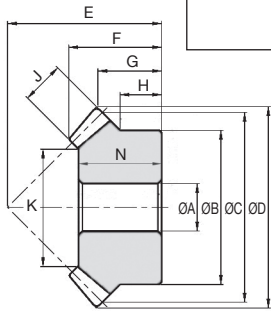
Nylon MC901

Ratio
1:1

- ***Module 1 to 2.5***
- *Pressure angle 20°*
- *Teeth: Gleason*
- *Material :*
  Nylon MC901
- *Two gears required to make a pair*

Info.

- Plastic gears are susceptible to the effects of temperature and moisture. Dimensional changes may occur while performing secondary operations and during post-machining operations.



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-12%	On request

Part number	Module	Teeth Z	ØA	ØB	ØC	ØD	E	F	G	H	N	J	K	Weight (g)	Price each 1 à 5
ZB1-20-RA	1	20	6	16	20	21,41	20	13,95	10,71	8	12	5	9,86	2,77	39,83 €
ZB1-25-RA		25	6	20	25	26,41	23	15,16	11,21	8	14	6	15,03	5,13	48,25 €
ZB1-30-RA		30	8	24	30	31,41	28	17,71	13,71	10	16	6	19,03	8,44	60,13 €
ZB1.25-20-RA	1,25	20	8	22	25	26,77	23	15,27	11,38	9	13	6	13,03	5,31	46,42 €
ZB1.25-25-RA		25	8	25	31,25	33,02	28	17,88	13,26	9,25	16	7	18,70	9,27	54,39 €
ZB1.5-20-RA	1,5	20	8	26	30	32,12	30	21,24	16,06	13	19	8	15,37	11,0	51,85 €
ZB1.5-25-RA		25	8	30	37,5	39,62	34	22,25	16,31	11,5	19	9	19,54	17,0	62,54 €
ZB1.5-30-RA		30	10	36	45	47,12	43	28,24	21,56	16	25	10	25,72	30,9	83,73 €
ZB2-20-RA	2	20	10	34	40	42,83	37	24,89	18,41	14	22	10	21,72	22,5	64,35 €
ZB2-25-RA		25	10	40	50	52,83	40	24,33	16,41	10	20	12	26,06	32,7	81,42 €
ZB2-30-RA		30	12	45	60	62,83	50	29,43	21,41	12,5	25	12	36,06	54,5	109,04 €
ZB2.5-20-RA	2,5	20	12	42	50	53,54	48	32,54	24,77	19	29	12	28,06	45,9	86,69 €
ZB2.5-25-RA		25	14	50	62,5	66,04	50	30,41	20,52	12,5	26	15	34,57	63,9	111,30 €
ZB2.5-30-RA		30	16	60	75	78,54	62	36,28	26,27	17	32	15	47,57	113	153,67 €

Dimensions in mm

Plastic bevel gear

Nyl

Ratio
1,5:1
2:1
3:1

Nylon MC901

- ***Module* 1 to 2.5**
- *Pressure angle 20°*
- *Teeth: Gleason*
- *Material :*
  Nylon MC901
- *Two gears required to make a pair*

Info.

- Plastic gears are susceptible to the effects of temperature and moisture. Dimensional changes may occur while performing secondary operations and during post-machining operations.

DISCOUNTS

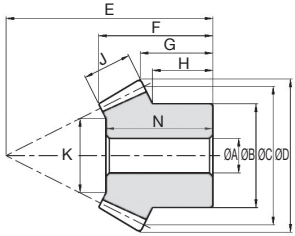
Qty	1+	6+	10+
Disc.	List	-12%	On request

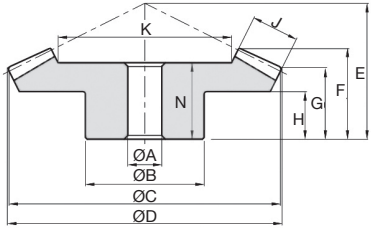
Part number	Module	Teeth Z	ØA	ØB	ØC	ØD	E	F	G	H	N	J	K	Weight (g)	Price each 1 to 5
Ratio 1,5:1															
ZHB1.5-20-RA	1,5	20	8	25	30	33,13	33	18,63	11,54	8,83	17	9	17,05	0,009	51,36 €
ZHB1.5-30-RA		30	10	30	45	46,24	28	18,53	13,93	8,00	16	9	27,37	0,018	70,27 €
ZHB2-20-RA	2	20	10	35	40	44,18	45	25,06	16,39	13,33	22	11	21,34	0,024	66,98 €
ZHB2-30-RA		30	10	35	60	61,65	40	26,87	21,24	15,00	23	11	37,56	0,039	103,11 €
ZHB2.5-20-RA	2,5	20	12	40	50	55,22	55	31,06	19,24	14,16	28	15	27,42	0,042	91,27 €
ZHB2.5-30-RA		30	15	45	75	77,07	50	34,22	26,55	18,00	30	15	45,61	0,081	141,88 €
Ratio 2:1															
ZDB1-20-RA	1	20	6	16	20	22,41	28	13,78	8,60	7,00	12	6	9,17	0,003	43,33 €
ZDB1-40-RA		40	8	25	40	40,59	22	15,07	12,59	8,00	12	6	26,58	0,010	72,59 €
ZDB1.25-20-RA	1,25	20	8	22	25	28,01	36	18,66	11,75	10,25	17	8	13,22	0,007	49,98 €
ZDB1.25-40-RA		40	10	32	50	50,73	27	18,54	15,23	10,00	16	8	33,61	0,021	88,30 €
ZDB1.5-20-RA	1,5	20	8	25	30	33,61	46	25,54	16,90	14,75	24	10	17,28	0,013	57,66 €
ZDB1.5-40-RA		40	10	38	60	60,88	35	25,01	20,88	15,00	22	10	39,64	0,039	105,43 €
ZDB2-20-RA	2	20	12	32	40	44,81	60	34,16	21,20	18,00	32	15	20,92	0,028	70,87 €
ZDB2-40-RA		40	12	40	80	81,17	45	32,37	26,17	18,00	27	15	48,46	0,076	155,99 €
ZDB2.5-20-RA	2,5	20	12	40	50	56,01	75	43,78	26,50	22,50	41	20	24,56	0,060	103,43 €
ZDB2.5-40-RA		40	15	50	100	101,47	55	39,73	31,47	20,00	35	20	60,28	0,160	232,98 €

Dimensions in mm

Nylon MC901

Ratio
1,5:1
2:1
3:1





DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-12%	On request

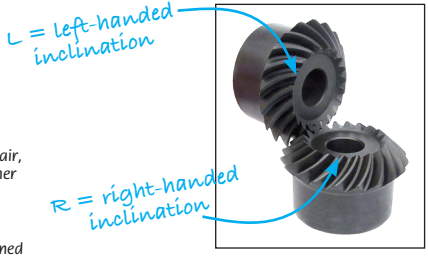
Part number	Module	Teeth Z	ØA	ØB	ØC	ØD	E	F	G	H	N	J	K	Weight (g)	Price each 1 à 5
Ratio 3:1															
ZTB1.5-15-RA	1,5	15	8	18	22,5	26,54	47	23,19	13,92	12,50	22,5	10	14,75	0,006	52,91 €
ZTB1.5-45-RA		45	10	40	67,5	68,06	28	20,44	17,59	11,00	17	10	46,58	0,040	108,02 €
ZTB2-15-RA	2	15	10	24	30	35,35	60	29,80	15,89	14,00	29	15	19,13	0,014	65,55 €
ZTB2-45-RA		45	12	60	90	90,75	40	30,40	26,12	17,00	26	15	59,04	0,120	177,69 €
ZTB2.5-15-RA	2,5	15	12	30	37,5	44,18	75	38,41	19,86	17,50	37	20	20,51	0,028	76,19 €
ZTB2.5-45-RA		45	15	60	112,5	113,43	50	38,35	32,65	22,00	35	20	72,84	0,200	266,33 €

Dimensions in mm

Ratio 1:1

Hardened steel

- ***Module 1 to 3***
- *Helical angle 35°*
- *Pitch angle 45°*
- *Face angle:*
  20 teeth = 49°12'
  25 teeth = 48°22'
  30 teeth = 47°48'
- *Pressure angle 20°*
- *Two gears are needed to make a pair, one angled to the right (R), the other to the left (L)*
- ***This pair must be used together***
- *Material: steel S45C*
- *Teeth surfaces are induction hardened*



Option

- ***We are unable to modify these parts***

IN STOCK*
Otherwise contact us

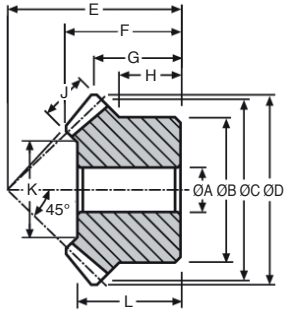
DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-12%	On request

Part number	Module	Teeth Z	ØA	ØB	ØC	ØD	E	F	G	H	J	K	L	Weight (kg)	Price each
SMS1-20R	1	20	6	16	20,0	21,30	20	13,84	10,65	8	5	9,86	12	0,02	58,39 €
SMS1-20L															58,39 €
SMS1-25R	1	25	6	20	25,0	26,22	23	15,08	11,11	8	6	15,03	14	0,05	65,73 €
SMS1-25L															65,73 €
SMS1-30R	1	30	8	24	30,0	31,26	28	17,61	13,63	10	6	19,03	16	0,05	77,98 €
SMS1-30L															77,98 €
SMS1,5-20R	1,5	20	8	26	30,0	31,74	30	21,18	15,87	13	8	15,37	19	0,07	66,56 €
SMS1,5-20L															66,56 €
SMS1,5-25R	1,5	25	10	30	37,5	39,30	34	22,14	16,15	11,5	9	19,54	19	0,12	82,09 €
SMS1,5-25L															82,09 €
SMS1,5-30R	1,5	30	10	36	45,0	46,84	43	28,11	21,42	16	10	25,72	25	0,20	103,43 €
SMS1,5-30L															103,43 €

**Depending on availability - Dimensions in mm*

Ratio 1:1



IN STOCK*
Otherwise contact us

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-12%	On request

Part number	Module	Teeth Z	ØA	ØB	ØC	ØD	E	F	G	H	J	K	L	Weight (kg)	Price each
SMS2-20R	2	20	12	34	40,0	42,4	37	24,75	18,2	14	10	21,72	22	0,15	83,33 €
SMS2-20L															83,33 €
SMS2-25R	2	25	12	40	50,0	52,38	40	24,20	16,19	10	12	26,06	20	0,20	107,00 €
SMS2-25L															107,00 €
SMS2-30R	2	30	12	45	60,0	62,42	50	29,27	21,21	12,5	12	36,06	25	0,37	159,43 €
SMS12-30L															159,43 €
SMS2,5-20R	2,5	20	14	42	50,0	52,94	48	32,42	24,47	19	12	28,06	29	0,30	147,37 €
SMS2,5-20L															147,37 €
SMS2,5-25R	2,5	25	16	50	62,5	65,54	50	30,24	20,27	12,5	15	34,57	26	0,40	174,99 €
SMS2,5-25L															174,99 €
SMS2,5-30R	2,5	30	16	60	75,0	78,04	62	36,08	26,02	17	15	47,57	32	0,77	226,39 €
SMS2,5-30L															226,39 €
SMS3-20R	3	20	16	50	60,0	63,72	58	39,60	29,86	23	15	31,57	35	0,50	180,63 €
SMS3-20L															180,63 €
SMS3-25R	3	25	20	60	75,0	78,77	60	37,57	24,39	15	20	37,43	32	0,70	231,97 €
SMS3-25L															231,97 €
SMS3-30R	3	30	20	70	90,0	93,61	75	45,25	31,80	20	20	53,43	40	1,30	301,87 €
SMS3-30L															301,87 €

**Depending on availability - Dimensions in mm*

WORM

p.174

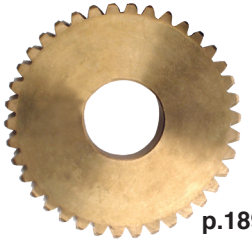
WORM

p.175

WORMS AND WHEELS

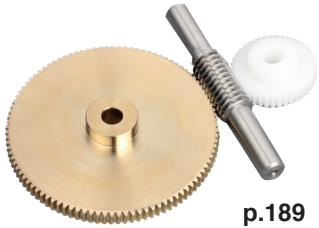
P. 174-193

WHEEL



p.189

WORM AND WHEEL SET



p.189

Worm and wheel set

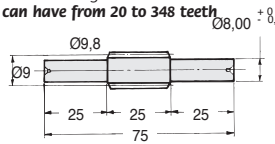
Module 0.4

Worm in steel or machined plastic

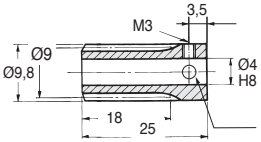
- **Pitch 1.257mm**
- ***Machined parts***
- *Pressure angle 20°*
- *Right handed lead angle*
- *Materials:*
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: Bronze CuAl10NiFe4
  or Delrin plastic
- *Delrin: Working temp. -50°C to +80°C*

Options

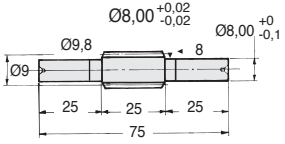
- *Left handed lead angle*
- ***Wheel can have from 20 to 348 teeth***



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT STEEL

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT DELRIN

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W0.4-1	SW0.4-1	1	2°32'	38,02 €	69,59 €
W0.4-2	SW0.4-2	2	5°04'	38,57 €	74,51 €
W0.4-3	SW0.4-3	3	7°35'	40,52 €	78,73 €
W0.4-4	SW0.4-4	4	10°40'	43,63 €	81,15 €
Hardened steel					
WH0.4-1	SWH0.4-1	1	2°32'	52,89 €	98,98 €
WH0.4-2	SWH0.4-2	2	5°04'	54,84 €	105,92 €
WH0.4-3	SWH0.4-3	3	7°35'	56,73 €	111,81 €
WH0.4-4	SWH0.4-4	4	10°40'	61,97 €	115,39 €
Plastic					
ZW0.4-1	ZSW0.4-1	1	2°32'	26,12 €	49,16 €
ZW0.4-2	ZSW0.4-2	2	5°04'	27,25 €	52,53 €
ZW0.4-3	ZSW0.4-3	3	7°35'	28,49 €	55,55 €
ZW0.4-4	ZSW0.4-4	4	10°40'	30,67 €	57,30 €

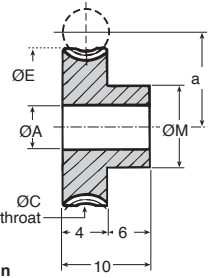
Dimensions in mm

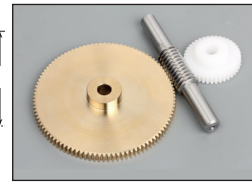
Wheel in bronze or machined plastic

Module 0.4

Info.

- **Pitch 1.257mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W0.4-1.** wheel **M0.4-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrinworm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze Nm	(kW)	Delrin Nm	(kW)
Steel	**0.57**	(0.0012)	**0.36**	(0.00075)
Hardened steel	**1.00**	(0.0021)	-	
Delrin	-		**0.14**	(0.00030)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Delrin	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M0.4-28/1	ZM0.4-28/1	28	11,20	10,10	12,00	12,40	10,40	3	34,23 €	17,15 €
M0.4-30/1	ZM0.4-30/1	30	12,00	10,50	12,80	13,20	8,00	3	34,95 €	17,49 €
M0.4-34/1	ZM0.4-34/1	34	13,60	11,30	14,40	14,80	8,00	3	35,68 €	17,94 €
M0.4-36/1	ZM0.4-36/1	36	14,40	11,70	15,20	15,60	8,00	3	37,21 €	18,50 €
M0.4-40/1	ZM0.4-40/1	40	16,00	12,50	16,80	17,20	12,00	4	38,49 €	19,28 €
M0.4-45/1	ZM0.4-45/1	45	18,00	13,50	18,80	19,20	12,00	4	38,97 €	19,57 €
M0.4-48/1	ZM0.4-48/1	48	19,20	14,10	20,00	20,40	12,00	4	38,97 €	19,72 €
M0.4-50/1	ZM0.4-50/1	50	20,00	14,50	20,80	21,20	12,00	4	38,97 €	19,89 €
M0.4-62/1	ZM0.4-62/1	62	24,80	16,90	25,60	26,00	12,00	4	39,23 €	20,67 €
M0.4-72/1	ZM0.4-72/1	72	28,80	18,90	29,60	30,00	12,00	5	42,25 €	21,15 €
M0.4-75/1	ZM0.4-75/1	75	30,00	19,50	30,80	31,20	12,00	5	42,45 €	23,46 €
M0.4-84/1	ZM0.4-84/1	84	33,60	21,30	34,40	34,80	12,00	5	44,67 €	24,80 €
M0.4-100/1	ZM0.4-100/1	100	40,00	24,50	40,80	41,20	12,00	5	54,98 €	29,39 €
M0.4-120/1	ZM0.4-120/1	120	48,00	28,50	48,80	49,20	12,00	5	61,99 €	34,05 €
M0.4-130/1	ZM0.4-130/1	130	52,00	30,50	52,80	53,20	12,00	5	71,19 €	37,15 €
M0.4-140/1	ZM0.4-140/1	140	56,00	32,50	56,80	57,20	12,00	5	81,15 €	40,86 €
M0.4-200/1	ZM0.4-200/1	200	80,00	44,50	80,80	81,20	20,00	6	153,51 €	77,23 €
M0.4-300/1	ZM0.4-300/1	300	120,00	64,50	120,80	121,20	20,00	6	357,71 €	130,30 €
↓	↓	**Wheels available up to this size**							↓	↓
M0.4-348	**ZM0,4-348**	**348**			**Dimensions : contact us**				On request	On request

Dimensions in mm

Worm and wheel set

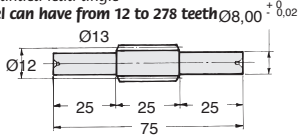
Module 0.5

Worm in steel or machined plastic

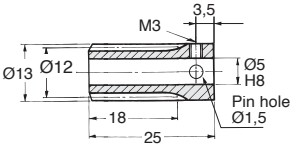
- **Pitch 1.571mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

Options

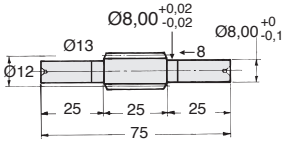
- Left handed lead angle
- **Wheel can have from 12 to 278 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

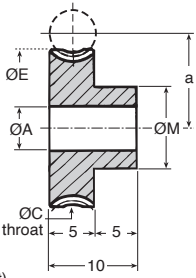
Qty	1+	6+	30+
Disc.	List	-22%	On request

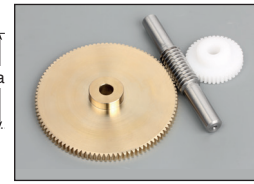
Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W0.5-1	SW0.5-1	1	2°23'	37,21 €	73,28 €
W0.5-2	SW0.5-2	2	4°45'	38,57 €	76,52 €
W0.5-3	SW0.5-3	3	7°07'	40,52 €	80,74 €
W0.5-4	SW0.5-4	4	9°27'	43,63 €	84,43 €
Hardened steel					
WH0.5-1	SWH0.5-1	1	2°23'	52,89 €	104,16 €
WH0.5-2	SWH0.5-2	2	4°45'	54,84 €	108,68 €
WH0.5-3	SWH0.5-3	3	7°07'	57,64 €	114,72 €
WH0.5-4	SWH0.5-4	4	9°27'	61,97 €	120,17 €
Delrin					
ZW0.5-1	ZSW0.5-1	1	2°23'	26,12 €	51,70 €
ZW0.5-2	ZSW0.5-2	2	4°45'	27,25 €	53,94 €
ZW0.5-3	ZSW0.5-3	3	7°07'	28,49 €	56,88 €
ZW0.5-4	ZSW0.5-4	4	9°27'	30,67 €	59,71 €

Dimensions in mm

Info.

- **Pitch 1.571mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W0.5-1.** wheel **M0.5-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (imput)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**1.01** (0.0060)	**0.65** (0.0040)
Hardened steel	**1.86** (0.0039)	-
Delrin	-	**0.25** (0.0005)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M0.5-20	ZM0.5-20	20	10,00	11,00	11,00	11,50	8,50	4	33,77 €	16,95 €
M0.5-25	ZM0.5-25	25	12,50	12,25	13,50	14,00	10,00	4	36,07 €	18,12 €
M0.5-28	ZM0.5-28	28	14,00	13,00	15,00	15,50	10,00	4	36,70 €	18,38 €
M0.5-30	ZM0.5-30	30	15,00	13,50	16,00	16,50	13,00	6	36,84 €	18,42 €
M0.5-32	ZM0.5-32	32	16,00	14,00	17,00	17,50	13,00	6	38,45 €	19,28 €
M0.5-40	ZM0.5-40	40	20,00	16,00	21,00	21,50	13,00	6	44,85 €	22,56 €
M0.5-42	ZM0.5-42	42	21,00	16,50	22,00	22,50	13,00	6	45,54 €	22,80 €
M0.5-48	ZM0.5-48	48	24,00	18,00	25,00	25,50	13,00	6	47,84 €	23,97 €
M0.5-50	ZM0.5-50	50	25,00	18,50	26,00	26,50	13,00	6	48,50 €	24,33 €
M0.5-60	ZM0.5-60	60	30,00	21,00	31,00	31,50	13,00	6	57,18 €	31,63 €
M0.5-78	ZM0.5-78	78	39,00	25,50	40,00	40,50	13,00	6	72,61 €	40,21 €
M0.5-80	ZM0.5-80	80	40,00	26,00	41,00	41,50	13,00	6	74,93 €	47,17 €
M0.5-90	ZM0.5-90	90	45,00	28,50	46,00	46,50	13,00	6	100,57 €	63,27 €
M0.5-100	ZM0.5-100	100	50,00	31,00	51,00	51,50	13,00	6	119,53 €	75,33 €
M0.5-110	ZM0.5-110	110	55,00	33,50	56,00	56,50	13,00	6	124,45 €	78,38 €
M0.5-150	ZM0.5-150	150	75,00	43,50	76,00	76,50	13,00	6	134,14 €	84,31 €
M0.5-160	ZM0.5-160	160	80,00	46,00	81,00	81,50	13,00	6	153,01 €	96,42 €
M0.5-200	ZM0.5-200	200	100,00	56,00	101,00	101,50	13,00	6	290,42 €	105,84 €
↓	↓	Wheels available up to this size							↓	↓
M0,5-278	**ZM0,5-278**	**278**	Dimensions : contact us						On request	On request

Dimensions in mm

Worm and wheel set

Module 0.8

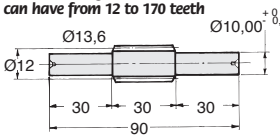
Worm in steel or machined plastic

- **Pitch 2.513mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

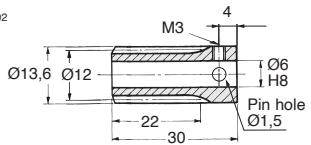
bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Options

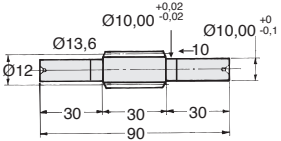
- Left handed lead angle
- **Wheel can have from 12 to 170 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of	Lead	Price each 1 to 5	
Bored type	Shaft type	starts	angle	Bored type	Shaft type
Non hardened steel					
W0.8-1	SW0.8-1	1	3°48'	42,54 €	73,27 €
W0.8-2	SW0.8-2	2	7°35'	44,41 €	77,05 €
W0.8-3	SW0.8-3	3	11°18'	48,13 €	80,74 €
W0.8-4	SW0.8-4	4	14°55'	52,16 €	84,43 €
Hardened steel					
WH0.8-1	SWH0.8-1	1	3°48'	60,52 €	104,15 €
WH0.8-2	SWH0.8-2	2	7°35'	63,13 €	109,51 €
WH0.8-3	SWH0.8-3	3	11°18'	68,62 €	114,73 €
WH0.8-4	SWH0.8-4	4	14°55'	75,59 €	120,17 €
Delrin					
ZW0.8-1	ZSW0.8-1	1	3°48'	29,98 €	On request
ZW0.8-2	ZSW0.8-2	2	7°35'	31,23 €	54,16 €
ZW0.8-3	ZSW0.8-3	3	11°18'	33,86 €	56,73 €
ZW0.8-4	ZSW0.8-4	4	14°55'	36,70 €	59,42 €

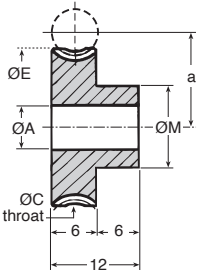
Dimensions in mm

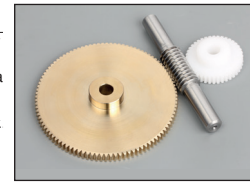
Wheel in bronze or machined plastic

Module 0.8

Info.

- **Pitch 2.513mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W0.8-1.** wheel **M0.8-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**2.82** (0.006)	**1.84** (0.0039)
Hardened steel	**5.26** (0.011)	-
Delrin	-	**0.70** (0.0015)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M0.8-15	ZM0.8-15	15	12,00	12,00	13,60	14,40	10	5	34,03 €	17,01 €
M0.8-18	ZM0.8-18	18	14,40	13,20	16,00	16,80	10	5	38,02 €	19,09 €
M0.8-20	ZM0.8-20	20	16,00	14,00	17,60	18,40	12	5	38,72 €	19,39 €
M0.8-24	ZM0.8-24	24	19,20	15,60	20,80	21,60	12	5	41,95 €	20,98 €
M0.8-25	ZM0.8-25	25	20,00	16,00	21,60	22,40	16	8	44,15 €	22,16 €
M0.8-28	ZM0.8-28	28	22,40	17,20	24,00	24,80	16	8	45,77 €	22,96 €
M0.8-30	ZM0.8-30	30	24,00	18,00	25,60	26,40	16	8	47,60 €	23,91 €
M0.8-32	ZM0.8-32	32	25,60	18,80	27,20	28,00	16	8	49,30 €	24,80 €
M0.8-40	ZM0.8-40	40	32,00	22,00	33,60	34,40	20	8	58,88 €	49,89 €
M0.8-42	ZM0.8-42	42	33,60	22,80	35,20	36,00	20	8	63,11 €	34,92 €
M0.8-48	ZM0.8-48	48	38,40	25,20	40,00	40,80	20	8	73,54 €	40,59 €
M0.8-50	ZM0.8-50	50	40,00	26,00	41,60	42,40	20	8	79,32 €	49,90 €
M0.8-60	ZM0.8-60	60	48,00	30,00	49,60	50,40	20	8	121,40 €	76,43 €
M0.8-78	ZM0.8-78	78	62,40	37,20	64,00	64,80	20	8	130,53 €	82,20 €
M0.8-80	ZM0.8-80	80	64,00	38,00	65,60	66,40	20	8	131,69 €	82,98 €
M0.8-90	ZM0.8-90	90	72,00	42,00	73,60	74,40	20	8	150,02 €	94,46 €
M0.8-100	ZM0.8-100	100	80,00	46,00	81,60	82,40	20	8	164,65 €	103,64 €
M0.8-110	ZM0.8-110	110	88,00	50,00	89,60	90,40	20	8	202,68 €	127,71 €
M0.8-150	ZM0.8-150	150	120,00	66,00	121,60	122,40	20	8	402,45 €	146,60 €
↓	↓	Wheels available up to this size							↓	↓
M0,8-170	ZM0,8-170	170	Dimensions : contact us						On request	On request

Dimensions in mm

Worm and wheel set

Module 1.0

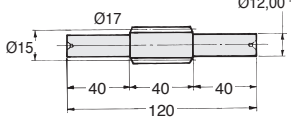
Worm in steel or machined plastic

- **Pitch 3.142mm**
- ***Machined parts***
- *Pressure angle 20°*
- *Right handed lead angle*
- *Materials:*
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or delrin plastic
- *Delrin: Working temp. -50°C to +80°C*

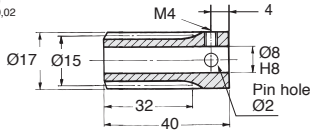
bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Options

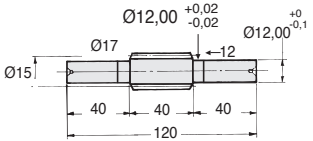
- *Left handed lead angle*
- ***Wheel can have from 12 to 138 teeth***



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1-1	SW1-1	1	3°48'	48,99 €	90,48 €
W1-2	SW1-2	2	7°35'	51,86 €	92,95 €
W1-3	SW1-3	3	11°18'	56,88 €	99,22 €
W1-4	SW1-4	4	14°56'	59,40 €	100,68 €
Hardened steel					
WH1-1	SWH1-1	1	3°48'	69,81 €	128,58 €
WH1-2	SWH1-2	2	7°35'	73,67 €	132,12 €
WH1-3	SWH1-3	3	11°18'	80,78 €	140,90 €
WH1-4	SWH1-4	4	14°56"	84,43 €	143,03 €
Delrin					
ZW1-1	ZSW1-1	1	3°48'	34,61 €	63,87 €
ZW1-2	ZSW1-2	2	7°35'	36,53 €	65,51 €
ZW1-3	ZSW1-3	3	11°18'	40,11 €	69,93 €
ZW1-4	ZSW1-4	4	14°56'	41,81 €	71,02 €

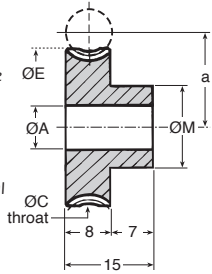
Dimensions in mm

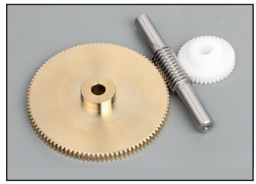
Wheel in bronze or machined plastic

Module 1.0

Info.

- **Pitch 3.142mm**
- *To order. add the number of starts on the worm to the wheel's part number. E.g: worm* **W1-1.** *wheel* **M1-20/1**
- *The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.*





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**5.87** (0.012)	**3.42** (0.0072)
Hardened steel	**10.06** (0.021)	-
Delrin	-	**1.32** (0.0027)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M1-12	ZM1-12	12	12	13,50	14	15	14	6	49,30 €	24,80 €
M1-15	ZM1-15	15	15	15,00	17	18	15	6	51,03 €	25,59 €
M1-18	ZM1-18	18	18	16,50	20	21	15	6	53,16 €	26,64 €
M1-20	ZM1-20	20	20	17,50	22	23	15	6	53,68 €	26,93 €
M1-24	ZM1-24	24	24	19,50	26	27	20	8	56,48 €	28,49 €
M1-25	ZM1-25	25	25	20,00	27	28	20	8	59,00 €	29,57 €
M1-28	ZM1-28	28	28	21,50	30	31	20	8	61,18 €	30,67 €
M1-30	ZM1-30	30	30	22,50	32	33	25	8	63,13 €	34,97 €
M1-32	ZM1-32	32	32	23,50	34	35	25	8	66,36 €	36,81 €
M1-40	ZM1-40	40	40	27,50	42	43	25	8	89,63 €	56,38 €
M1-42	ZM1-42	42	42	28,50	44	45	25	8	91,63 €	57,64 €
M1-48	ZM1-48	48	48	31,50	50	51	25	10	111,11 €	69,93 €
M1-50	ZM1-50	50	50	32,50	52	53	25	10	119,60 €	75,33 €
M1-60	ZM1-60	60	60	37,50	62	63	25	10	131,76 €	82,98 €
M1-78	ZM1-78	78	78	46,50	80	81	25	10	171,89 €	108,26 €
M1-80	ZM1-80	80	80	47,50	82	83	25	10	195,56 €	123,16 €
M1-90	ZM1-90	90	90	52,50	92	93	25	10	243,10 €	153,14 €
M1-100	ZM1-100	100	100	57,50	102	103	25	10	381,21 €	138,97 €
M1-110	ZM1-110	110	110	62,50	112	113	30	10	381,21 €	138,97 €
↓	↓	**Wheels available up to this size**							↓	↓
M1-138	ZM1-138	138		**Dimensions : contact us**					On request	On request

Dimensions in mm

Worm and wheel set

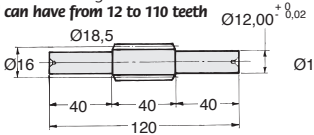
Module 1.25

Worm in steel or machined plastic

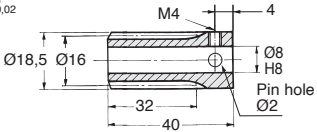
- **Pitch 3.927mm**
- ***Machined parts***
- *Pressure angle 20°*
- *Right handed lead angle*
- *Materials:*
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- *Delrin: Working temp. -50°C to +80°C*

Options

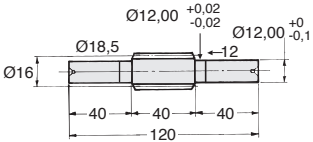
- *Left handed lead angle*
- ***Wheel can have from 12 to 110 teeth***



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

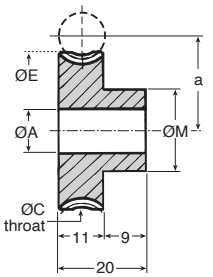
Qty	1+	6+	30+
Disc.	List	-22%	On request

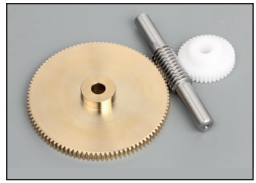
Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W1.25-1	SW1.25-1	1	4°28'	48,99 €	90,48 €
W1.25-2	SW1.25-2	2	8°53'	51,85 €	92,95 €
W1.25-3	SW1.25-3	3	13°11'	56,88 €	99,22 €
W1.25-4	SW1.25-4	4	17°21'	59,40 €	100,68 €
Hardened steel					
WH1.25-1	SWH1.25-1	1	4°28'	69,81 €	128,58 €
WH1.25-2	SWH1.25-2	2	8°53'	73,67 €	132,12 €
WH1.25-3	SWH1.25-3	3	13°11'	80,79 €	140,90 €
WH1.25-4	SWH1.25-4	4	17°21'	84,43 €	143,03 €
Delrin					
ZW1.25-1	ZSW1.25-1	1	4°28'	34,61 €	63,71 €
ZW1.25-2	ZSW1.25-2	2	8°53'	36,41 €	65,36 €
ZW1.25-3	ZSW1.25-3	3	13°11'	40,01 €	69,84 €
ZW1.25-4	ZSW1.25-4	4	17°21'	41,77 €	64,43 €

Dimensions in mm

Info.

- **Pitch 3.927mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W1.25-1.** wheel **M1.25-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**11.41** (0.024)	**7.02** (0.015)
Hardened steel	**20.25** (0.042)	-
Delrin	-	**2.75** (0.006)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M1.25-12	ZM1.25-12	12	15,00	15,50	17,50	18,75	14,00	8	53,58 €	26,93 €
M1.25-15	ZM1.25-15	15	18,75	17,38	21,25	22,50	14,00	8	56,33 €	28,26 €
M1.25-20	ZM1.25-20	20	25,00	20,50	27,50	28,75	20,00	10	54,67 €	31,63 €
M1.25-38	ZM1.25-38	38	47,50	31,75	50,00	51,25	25,00	10	99,87 €	62,83 €
M1.25-45	ZM1.25-45	45	56,25	36,13	58,75	60,00	25,00	10	127,92 €	80,64 €
M1.25-60	ZM1.25-60	60	75,00	45,50	77,50	78,75	32,00	12	212,57 €	133,83 €
↓	↓	**Wheels available up to this size**							↓	↓
M1,25-110	**ZM1,25-110**	110	**Dimensions : contact us**						On request	On request

Dimensions in mm

Worm and wheel set

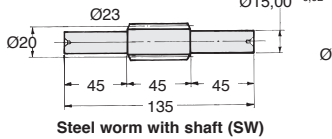
Module 1.5

Worm in steel or machined plastic

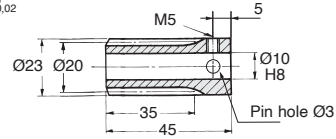
- **Pitch 4.712mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

Options

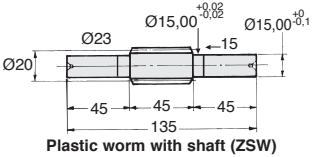
- Left handed lead angle
- **Wheel can have from 12 to 90 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W1.5-1	SW1.5-1	1	4°17'	56,78 €	106,40 €
W1.5-2	SW1.5-2	2	8°31'	65,99 €	112,06 €
W1.5-3	SW1.5-3	3	12°40'	69,25 €	115,60 €
W1.5-4	SW1.5-4	4	16°42'	75,09 €	116,85 €
Hardened steel					
WH1.5-1	SWH1.5-1	1	4°17'	80,74 €	151,19 €
WH1.5-2	SWH1.5-2	2	8°31'	93,68 €	159,18 €
WH1.5-3	SWH1.5-3	3	12°40'	98,37 €	164,06 €
WH1.5-4	SWH1.5-4	4	16°42'	106,61 €	166,01 €
Delrin					
ZW1.5-1	ZSW1.5-1	1	4°17'	39,99 €	75,20 €
ZW1.5-2	ZSW1.5-2	2	8°31'	46,30 €	79,18 €
ZW1.5-3	ZSW1.5-3	3	12°40'	48,68 €	81,57 €
ZW1.5-4	ZSW1.5-4	4	16°42'	52,79 €	82,45 €

Dimensions in mm

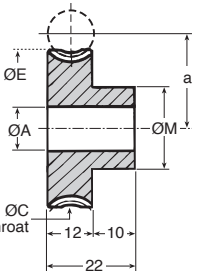
Worm and wheel set

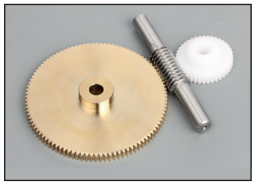
Wheel in bronze or machined plastic

Module 1.5

Info.

- **Pitch 4.712mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W1.5-1.** wheel **M1.5-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**16.80** (0.035)	**10.05** (0.021)
Hardened steel	**30.00** (0.063)	-
Delrin	-	**3.97** (0.008)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	Centres ØC	Centres ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M1.5-12	ZM1.5-12	12	18,00	19,00	21,00	22,50	15	8	59,13 €	29,71 €
M1.5-15	ZM1.5-15	15	22,50	21,25	25,50	27,00	18	8	72,96 €	36,60 €
M1.5-18	ZM1.5-18	18	27,00	23,50	30,00	31,50	18	8	77,97 €	39,23 €
M1.5-20	ZM1.5-20	20	30,00	25,00	33,00	34,50	20	10	80,44 €	44,42 €
M1.5-22	ZM1.5-22	22	33,00	26,50	36,00	37,50	20	10	82,98 €	45,98 €
M1.5-24	ZM1.5-24	24	36,00	28,00	39,00	40,50	20	10	85,74 €	47,41 €
M1.5-25	ZM1.5-25	25	37,50	28,75	40,50	42,00	25	10	88,30 €	48,94 €
M1.5-28	ZM1.5-28	28	42,00	31,00	45,00	46,50	25	10	92,75 €	58,33 €
M1.5-30	ZM1.5-30	30	45,00	32,50	48,00	49,50	30	15	97,18 €	61,25 €
M1.5-32	ZM1.5-32	32	48,00	34,00	51,00	52,50	30	15	100,48 €	63,27 €
M1.5-34	ZM1.5-34	34	51,00	35,50	54,00	55,50	30	15	112,05 €	70,57 €
M1.5-40	ZM1.5-40	40	60,00	40,00	63,00	64,50	30	15	150,67 €	94,93 €
M1.5-42	ZM1.5-42	42	63,00	41,50	66,00	67,50	30	15	166,50 €	104,87 €
M1.5-48	ZM1.5-48	48	72,00	46,00	75,00	76,50	30	15	211,60 €	133,28 €
M1.5-50	ZM1.5-50	50	75,00	47,50	78,00	79,50	30	15	227,69 €	143,43 €
M1.5-60	ZM1.5-60	60	90,00	55,00	93,00	94,50	30	15	317,62 €	200,02 €
M1.5-78	ZM1.5-78	78	117,00	68,50	120,00	121,50	30	15	626,08 €	228,06 €
M1.5-80	ZM1.5-80	80	120,00	70,00	123,00	124,50	30	15	626,08 €	228,06 €
↓	Wheels available up to this size								↓	↓
M1,5-90	ZM1,5-90	Dimensions: contact us							805,90 €	270,87 €

Dimensions in mm

Worm and wheel set

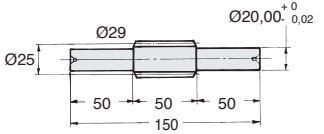
Module 2.0

Worm in steel or machined plastic

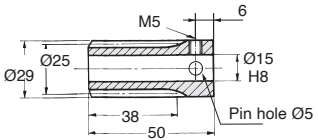
- **Pitch 6.283mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

Options

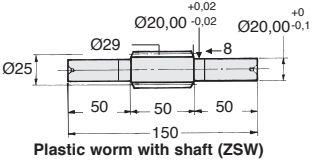
- Left handed lead angle
- **Wheel can have from 12 to 285 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of	Lead	Price each 1 to 5	
Bored type	Shaft type	starts	angle	Bored type	Shaft type
Non hardened steel					
W2-1	SW2-1	1	4°34'	98,91 €	149,96 €
W2-2	SW2-2	2	9°05'	106,02 €	159,13 €
W2-3	SW2-3	3	13°29'	113,80 €	162,50 €
W2-4	SW2-4	4	17°45'	125,44 €	170,72 €
Hardened steel					
WH2-1	SWH2-1	1	4°34'	140,53 €	213,18 €
WH2-2	SWH2-2	2	9°05'	150,67 €	226,08 €
WH2-3	SWH2-3	3	13°29'	161,62 €	231,04 €
WH2-4	SWH2-4	4	17°45'	178,16 €	242,44 €
Delrin					
ZW2-1	ZSW2-1	1	4°34'	69,49 €	105,58 €
ZW2-2	ZSW2-2	2	9°05'	74,57 €	112,06 €
ZW2-3	ZSW2-3	3	13°29'	80,02 €	114,47 €
ZW2-4	ZSW2-4	4	17°45'	88,22 €	120,06 €

Dimensions in mm

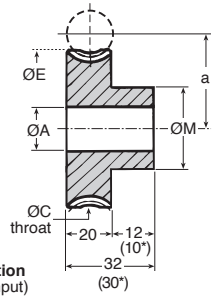
Worm and wheel set

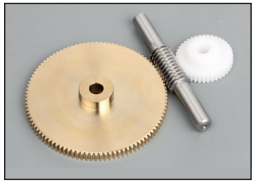
Wheel in bronze or machined plastic

Module 2.0

Info.

- **Pitch 6.283mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W2-1.** wheel **M2-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**45** (0.094)	**28.3** (0.059)
Hardened steel	**79** (0.166)	-
Delrin	-	**11.0** (0.023)

DISCOUNT Bronze

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	ØC	ØE	ØM	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
M2-12	ZM2-12	12	24	24,50	28	30	20	12	121,97 €	61,31 €
M2-15	ZM2-15	15	30	27,50	34	36	25	15	148,78 €	82,40 €
M2-18	ZM2-18	18	36	30,50	40	42	30	15	163,19 €	89,23 €
M2-20	ZM2-20	20	40	32,50	44	46	30	15	169,31 €	106,52 €
M2-22	ZM2-22	22	44	34,50	48	50	30	15	189,50 €	112,95 €
M2-24	ZM2-24	24	48	36,50	52	54	30	15	199,64 €	119,31 €
M2-25	ZM2-25	25	50	37,50	54	56	40	20	204,82 €	125,72 €
M2-28	ZM2-28	28	56	40,50	60	62	40	20	214,98 €	137,21 €
M2-30	ZM2-30	30	60	42,50	64	66	50	20	220,07 €	138,52 €
M2-32	ZM2-32	32	64	44,50	68	70	50	20	228,59 €	142,60 €
M2-34	ZM2-34	34	68	46,50	72	74	50	20	254,63 €	160,45 €
M2-40	ZM2-40	40	80	52,50	84	86	50	20	341,43 €	215,16 €
M2-42	ZM2-42	42	84	54,50	88	90	50	20	373,17 €	235,03 €
M2-45	ZM2-45	45	90	57,50	94	96	50	20	423,44 €	266,88 €
M2-48	ZM2-48	48	96	60,50	100	102	50	20	689,85 €	238,22 €
M2-50	ZM2-50	50	100	62,50	104	106	50	20	689,85 €	238,22 €
M2-60	ZM2-60	60	120	72,50	124	126	50	20	849,72 €	293,28 €
M2-65	ZM2-65	65	130	77,50	134	136	50	20	1 093,71 €	348,23 €
↓	↓	**Wheels available up to this size**							↓	↓
M2-72	**ZM2-72**	72	**Dimensions: contact us**						On request	On request

Dimensions in mm

Worm and wheel set

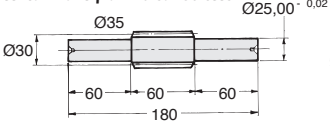
Module 2.5

Worm in steel or machined plastic

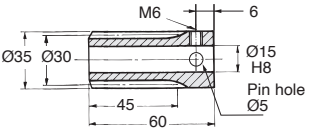
- **Pitch 7.854mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

Options

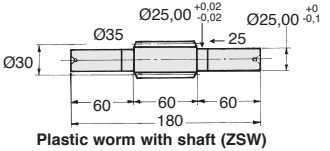
- Left handed lead angle
- **Wheel can have from 15 to 230 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) shaft with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		No. of starts	Lead angle	Price each 1 to 5	
Bored type	Shaft type			Bored type	Shaft type
Non hardened steel					
W2.5-1	SW2.5-1	1	4°34'	149,11 €	219,23 €
W2.5-2	SW2.5-2	2	9°50'	159,18 €	228,46 €
W2.5-3	SW2.5-3	3	13°29'	165,63 €	237,42 €
W2.5-4	SW2.5-4	4	17°45'	171,27 €	248,36 €
Hardened steel					
WH2.5-1	SWH2.5-1	1	4°34'	201,61 €	316,40 €
WH2.5-2	SWH2.5-2	2	9°50'	213,37 €	327,53 €
WH2.5-3	SWH2.5-3	3	13°29'	216,64 €	334,56 €
WH2.5-4	SWH2.5-4	4	17°45'	222,34 €	342,71 €
Delrin					
ZW2.5-1	ZSW2.5-1	1	4°34'	98,47 €	148,78 €
ZW2.5-2	ZSW2.5-2	2	9°50'	105,58 €	155,33 €
ZW2.5-3	ZSW2.5-3	3	13°29'	110,27 €	161,73 €
ZW2.5-4	ZSW2.5-4	4	17°45'	114,25 €	169,60 €

Dimensions in mm

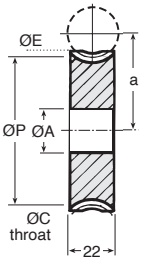
Worm and wheel set

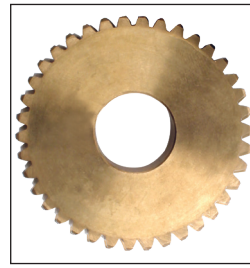
Wheel in bronze or machined plastic

Module 2.5

Info.

- **Pitch 7.854mm**
- *To order. add the number of starts on the worm to the wheel's part number. E.g: worm* **W2.5-1.** *wheel* **M2.5-20/1**
- *The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.*





Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze Nm (kW)	Delrin Nm (kW)
Steel	**81** (0.169)	**40** (0.085)
Hardened steel	**124** (0.258)	-
Delrin	-	**18** (0.034)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	Centres ØC	Centres ØE	Centres ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
PM2.5-15	ZPM2.5-15	15	37,50	33,75	42,50	45,00	15	115,01 €	82,73 €
PM2.5-20	ZPM2.5-20	20	50,00	40,00	55,00	57,50	20	140,99 €	101,43 €
PM2.5-25	ZPM2.5-25	25	62,50	46,25	67,50	70,00	20	157,03 €	112,95 €
PM2.5-30	ZPM2.5-30	30	75,00	52,50	80,00	82,50	20	164,01 €	117,96 €
PM2.5-40	ZPM2.5-40	40	100,00	65,00	105,00	107,50	20	508,30 €	185,27 €
PM2.5-50	ZPM2.5-50	50	125,00	77,50	130,00	132,50	20	805,90 €	270,87 €
↓	↓	Wheels available up to this size						↓	↓
PM2.5-55	**ZPM2.5-55**	**55**	**137,50**	**83,75**	**142,50**	**145,00**	**20**	**967,08 €**	**333,58 €**

Dimensions in mm

Worm and wheel set

Module 3.0

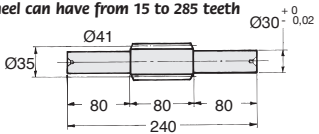
Worm in steel or machined plastic

- **Pitch 9.425mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4
  or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

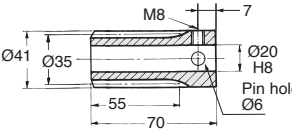
bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Options

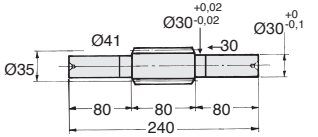
- Left handed lead angle
- **Wheel can have from 15 to 285 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

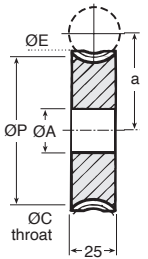
Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Part number Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Price each 1 to 5 Shaft type
Non hardened steel					
W3-1	SW3-1	1	4°54'	178,00 €	254,69 €
W3-2	SW3-2	2	9°44'	183,88 €	270,37 €
W3-3	SW3-3	3	14°25'	189,34 €	281,70 €
W3-4	SW3-4	4	18°55'	196,81 €	292,84 €
Hardened steel					
WH3-1	SWH3-1	1	4°54'	228,47 €	348,66 €
WH3-2	SWH3-2	2	9°44'	234,53 €	338,86 €
WH3-3	SWH3-3	3	14°25'	246,33 €	344,36 €
WH3-4	SWH3-4	4	18°55'	256,19 €	361,53 €
Delrin					
ZW3-1	ZSW3-1	1	4°54'	140,99 €	195,96 €
ZW3-2	ZSW3-2	2	9°44'	145,09 €	203,22 €
ZW3-3	ZSW3-3	3	14°25'	149,07 €	211,47 €
ZW3-4	ZSW3-4	4	18°55'	154,41 €	219,54 €

Dimensions in mm

Info.

- **Pitch 9.425mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: worm **W3-1.** wheel **M3-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.



Torque and power indication
for 50 teeth at 1000 rpm (input)

WHEEL material / WORM material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**139** (0.291)	**69** (0.145)
Hardened steel	**200** (0.422)	-
Delrin	-	**27** (0.058)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bronze	Part number Plastic	Z Teeth	Centres ØP	Centres a	Centres ØC	ØE	ØA	Price each 1 to 5 Bronze	Price each 1 to 5 Plastic
PM3-15	ZPM3-15	15	45	40,00	51	54	25	123,16 €	88,57 €
PM3-20	ZPM3-20	20	60	47,50	66	69	25	155,66 €	111,99 €
PM3-25	ZPM3-25	25	75	55,00	81	84	25	187,44 €	134,82 €
PM3-30	ZPM3-30	30	90	62,50	96	99	25	270,01 €	194,32 €
PM3-40	ZPM3-40	40	120	77,50	126	129	25	693,19 €	252,49 €
↓	↓	Wheels available up to this size						↓	↓
PM3-48	ZPM3-48	48	Dimensions: contact us					On request	On request

Dimensions in mm

Worm and wheel set

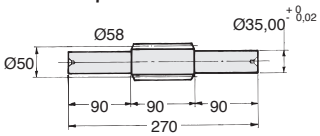
Module 4.0

Worm in steel or machined plastic

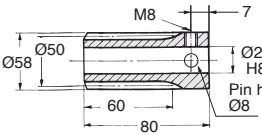
- **Pitch 12.566mm**
- Machined parts
- Pressure angle 20°
- Right handed lead angle
- Materials:
  Worm: Steel 20NCD2 or Delrin plastic
  Wheel: bronze CuAl10NiFe4 or Delrin plastic
- Delrin: Working temp. -50°C to +80°C

Options

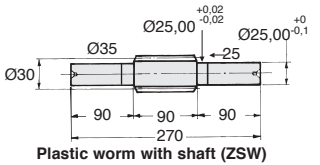
- Left handed lead angle
- **Wheel can have from 15 to 140 teeth**



Steel worm with shaft (SW)



Steel (W) or plastic* (ZW) worm with bore



Plastic worm with shaft (ZSW)

DISCOUNT Steel

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Bored type	Shaft type	No. of starts	Lead angle	Price each 1 to 5 Bored type	Shaft type
Non hardened steel					
W4-1	SW4-1	1	4°34'	277,31 €	372,95 €
W4-2	SW4-2	2	9°50'	291,44 €	392,56 €
W4-3	SW4-3	3	13°30'	306,56 €	414,52 €
W4-4	SW4-4	4	17°45'	325,69 €	442,39 €
Hardened steel					
WH4-1	SWH4-1	1	4°34'	347,17 €	517,24 €
WH4-2	SWH4-2	2	9°50'	366,35 €	527,20 €
WH4-3	SWH4-3	3	13°30'	378,88 €	548,24 €
WH4-4	SWH4-4	4	17°45'	402,79 €	563,73 €
Delrin					
ZW4-1	ZSW4-1	1	4°34'	187,99 €	263,77 €
ZW4-2	ZSW4-2	2	9°50'	197,09 €	277,11 €
ZW4-3	ZSW4-3	3	13°30'	209,13 €	293,77 €
ZW4-4	ZSW4-4	4	17°45'	222,57 €	309,00 €

Dimensions in mm

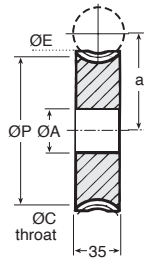
Worm and wheel set

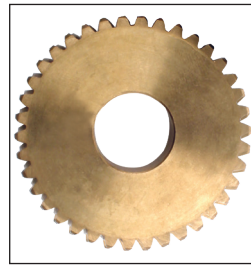
Wheel in bronze or machined plastic

Module 4.0

Info.

- **Pitch 12.566mm**
- To order. add the number of starts on the worm to the wheel's part number. E.g: **worm W4-1.** wheel **M4-20/1**
- The use of a delrin worm with a delrin wheel is only recommended for occasional use. The use of a delrin worm with a steel wheel is preferred.





Torque and power indication
for 50 teeth at 1000 rpm (input)

WORM material \ WHEEL material	Bronze **Nm** (kW)	Delrin **Nm** (kW)
Steel	**309** (0.647)	**61** (0.129)
Hardened steel	**417** (0.873)	-
Delrin	-	**154** (0.324)

DISCOUNT Bronze

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

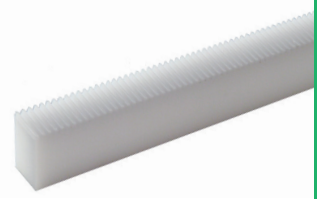
Part number		Z Teeth	ØP	Centres a	ØC	ØE	ØA	Price each 1 to 5 Bronze	Plastic
PM4-15	ZPM4-15	15	60	55	68	72	25	293,22 €	189,67 €
PM4-20	ZPM4-20	20	80	65	88	92	25	341,29 €	220,71 €
PM4-25	ZPM4-25	25	100	75	108	112	35	744,33 €	271,37 €
PM4-30	ZPM4-30	30	120	85	128	132	35	1 180,08 €	396,63 €
↓	↓	Wheels available up to this size							↓
PM4-36	ZPM4-36	36	Dimensions: contact us					On request	On request

Dimensions in mm

MOULDED NYLON RACK

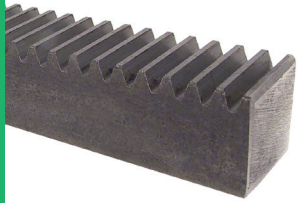
p.196

PLASTIC RACK



p.197

METRIC SECTION RACK



p.200

STAINLESS STEEL METRIC SECTION RACK

stainless steel

p.199

RACK

P. 196-204

Moulded nylon rack

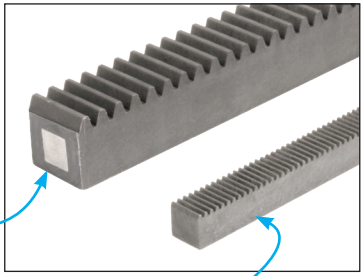
Module 0.5–4.0

Nylon 6 reinforced with 30% glass fibre

- ***Spur rack***
- ***Moulded part***
- *Pressure angle 20°*
- *Material:*
  Nylon 6 reinforced with 30% glass fibre

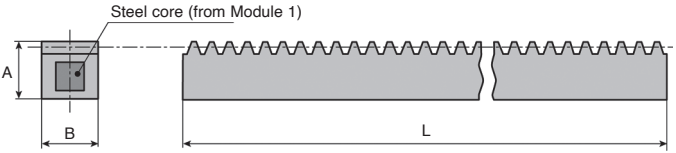
Info.

- *The CRM1-350, CRM1,5-500 and CRM2-500 can be mounted end to end*



Racks with modules 1 to 4 have steel core

Module 0.5 without steel core



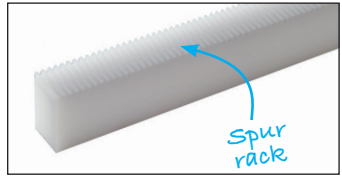
DISCOUNTS

Qty	1+	6+	10+	20+
Disc.	List	-10%	-15%	On request

Part number	m Module	A	B	Length L (mm)	Stock*	Price each 1 to 5
Without steel core						
CRM0.5-250	0,5	8	8	250	✔	5,87 €
With steel core						
CRM1-350	1	15	15	351,67	✔	13,66 €
CRM1.5-500	1,5	17	17	565,2	✔	21,44 €
CRM2-500	2,0	20	20	565,2	✔	23,64 €
CRM3-250	3,0	30	30	250	-	On request
CRM3-500	3,0	30	30	500	✔	30,73 €
CRM3-1000	3,0	30	30	1000	✔	52,39 €
CRM4-1000	4,0	28	20	1000	-	54,62 €

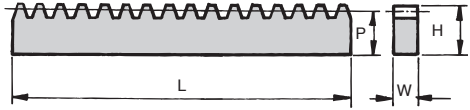
**Depending on availability - Dimensions in mm*

- ***Machined parts***
- *Pressure angle 20°*
- *Max. length 400mm*
- *Max. pitch error 1mm/300mm*
- *Material:*
  delrin plastic



Option

- *Other lengths available for quantities of 10 or more(max length 400mm)*



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

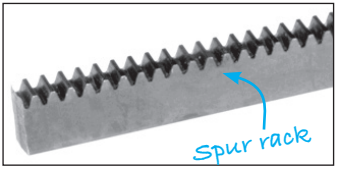
Part number	Module	P (mm)	W (mm)	H (mm)	L (mm)	Stock*	Price each 1 to 5
ZR0.5-400	0,5	11,50	6	12	400	✔	57,98 €
ZR0.8-400	0,8	11,20	6	12	400	✔	52,54 €
ZR1-400	1,0	14,00	8	15	400	✔	54,30 €
ZRR1.5-400	1,5	16,50	12	18	400	✔	65,08 €
ZRR2-400	2,0	18,00	15	20	400	✔	68,35 €

**Depending on availability - Dimensions in mm*

Narrow spur rack

Module 0.4–2.0

Steel



- **Pressure angle 20°**
- Max length from 400 to 1800 depending on module
- **1 metre lengths can be joined end to end**
- Materials:
  Steel S235 except module 1 and 1.25 (Dteel C40/C45)
- Max. pitch error up to module 0.7: 1mm/300mm
  Max. pitch error from module 0.8: 0.1mm/300mm

Option

- Other lengths available for quantities of 10 or more, please contact us

DISCOUNTS

Qty	1+	3+	6+	10+
Disc.	List	-10%	-15%	On request

Part number	Module	P	W	H	L	Stock*	Price each 1 to 2
R0.4-400	0,4	11,60	6	12	400	✔	103,04 €
R0.5-400	0,5	11,50	6	12	400	✔	35,14 €
R0.8-1000	0,8	11,20	6	12	1000	✔	184,89 €
R1-1000	1	14,00	8	15	1000	✔	120,23 €
R1.25-1000	1,25	13,75	8	15	1000	✔	208,90 €
RR1.5-1000	1,5	16,50	18	18	1000	✔	151,55 €
RR2-1000	2	16,00	18	18	1000	-	On request

*Depending on availability - Dimensions in mm

Narrow spur rack

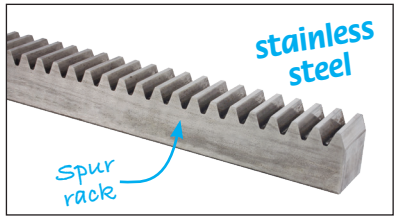
Stainless steel

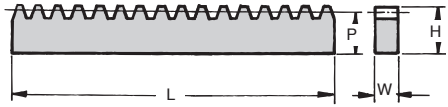
Module 0.5–1

- Pressure angle 20°
- Max. pitch error 1mm/300mm
- Material:
  Stainless steel 304L except

Option

- Other lengths available for quantities of 10 or more





DISCOUNTS

Qty	1+	3+	6+	10+
Disc.	List	-10%	-15%	On request

Part number	Module	P	W	H	L	Stock*	Price each 1 to 2
SR0.5-400/304L	0,5	11,50	6,00	12	400	✔	99,60 €
SR0.8-400/304L	0,8	11,20	6,00	12	400	✔	105,46 €
SR1-400/304L	1,0	14,00	8,00	15	400	✔	111,32 €

Depending of availability - Dimensions in mm

Metric section rack

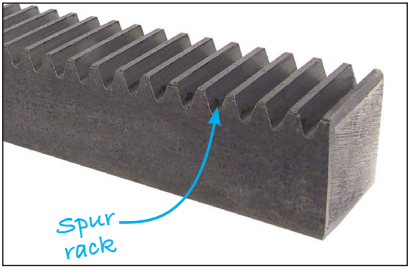
Module 1.0–5.0

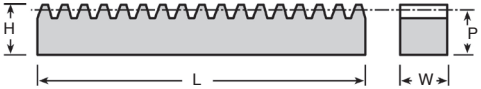
Steel

- ***Racks can be joined end to end***
- *Pressure angle 20°*
- *MR = square section*
- *MMR = rectangular section*
- *Material*
  Steel C40/C45
  Steel 46S20

Options

- *Other lengths available for quantities of 10 or more, please contact us*





DISCOUNTS

Qty	1+	3+	6+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	-25%	On request

Part number	Module	W (mm)	H (mm)	Primitive line P (mm)	Length L (mm)	Material	Stock*	Price each 1 to 2
MR1-1000	1	10	10	9,00	999	C40/45	✔	61,99 €
MR1.25-1000	1,25	15	15	13,75	1001	C40/45	✔	73,82 €
MR1.25-2000	1,25	15	15	13,75	1997	C40/45	-	147,66 €
MR1.5-1000	1,5	15	15	13,50	997	C40/45	✔	61,52 €
MR1.5-2000	1,5	15	15	13,50	1997	C40/45	✔	147,66 €
MR1.75-2000	1,75	15	15	13,25	2002	C40/45	-	On request
MR2-1000	2	20	20	18,00	999	46S20	✔	49,81 €
MR2-2000	2	20	20	18,00	1997	46S20	✔	90,24 €
MR2.5-1000	2,5	25	25	22,50	997	46S20	✔	54,60 €
MR2.5-2000	2,5	25	25	22,50	2002	46S20	-	On request
MR3-1000	3	30	30	27,00	999	46S20	✔	71,35 €
MR3-2000	3	30	30	27,00	1997	46S20	✔	142,72 €
MMR4-1000	4	40	25	21,00	1005	C40/45	✔	153,56 €
MMR4-2000	4	40	25	21,00	2002	C40/45	✔	305,17 €
MMR5-1000	5	50	30	25,00	1005	C40/45	✔	On request
MMR5-2000	5	50	30	25,00	2010	C40/45	-	On request

**Depending on availability - Dimensions in mm*

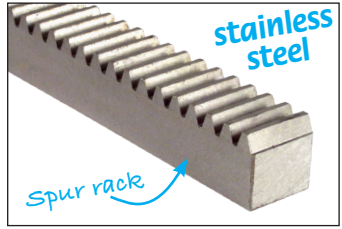
Stainless steel

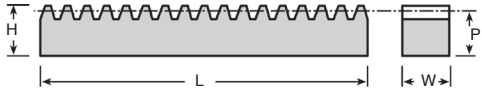
Module 1.0–3.0

- ***Racks can easily be joined end to end***
- *Pressure angle 20°*
- *Material: drawn stainless steel 304*

Option

- *Other lengths available for quantities of 10 or more, please contact us*





DISCOUNTS

Qty	1+	3+	6+
Disc.	List	-10%	On request

Part number	Module	W (mm)	H (mm)	Primitive line P (mm)	Length L (mm)	Stock*	Price each 1 to 2
MRS1-1000	1,0	10	10	9,00	999	✔	80,47 €
MRS1.5-1000	1,5	15	15	13,50	999	✔	230,58 €
MRS2-1000	2,0	20	20	18,00	999	✔	252,06 €
MRS3-1000	3,0	30	30	27,00	999	✔	442,49 €

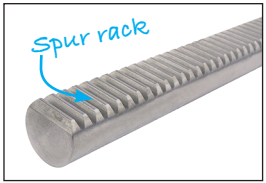
**Depending on availability - Dimensions in mm*

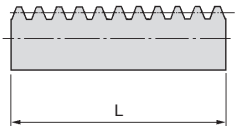
Round spur rack

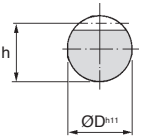
Module 1.0–4.0

Steel

- ***Pressure angle 20°***
- *Diameter tolerance h11*
- *Material:*
  Drawn steel C45







DISCOUNTS

Qty	1+	3+	6+
Disc.	List	-10%	On request

Part number	Module	h (mm)	ØD (mm)	L (mm)	Stock*	Price each 1 to 2
TRM1-1000	1	9,00	10	999	✔	99,60 €
TRM1.5-1000	1,5	13,50	15	999	✔	135,54 €
TRM2-1000	2	18,00	20	999	✔	136,72 €
TRM2.5-1000	2,5	22,50	25	997	✔	181,65 €
TRM3-1000	3	27,00	30	999	-	On request
TRM4-1000	4	36,00	40	1005	-	On request

**Depending on availability - Dimensions in mm*

Round spur rack

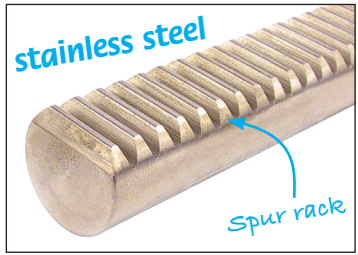
Stainless steel

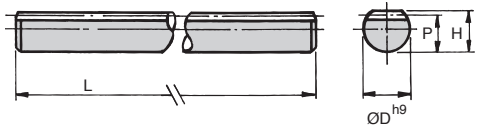
Module 0.25–1.5

- ***Machined parts***
- *Pressure angle 20°*
- *Max. pitch error 1mm/300mm*
- *Material:*
  304L stainless steel, except 0.25 module: 303 stainless steel

Options

- *Other lengths are available*





DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	Module	P (mm)	ØD (mm)	H (mm)	L (mm)	Stock*	Price each 1 to 5
TR0.25-400/303	0,25	5,30	6,00	5,55	400	✔	171,58 €
TR0.5-400/304L	0,50	8,70	10,00	9,20	400	✔	118,33 €
TR0.7-400/304L	0,70	9,80	12,00	10,50	400	-	79,35 €
TR0.8-400/304L	0,80	9,70	12,00	10,50	400	✔	80,12 €
TR1-400/304L	1,00	9,50	12,00	10,50	400	✔	93,48 €
TR1.5-400/304L	1,50	16,00	20,00	17,50	400	✔	118,33 €

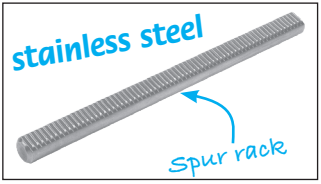
**Depending on availability - Dimensions in mm*

Round spur rack

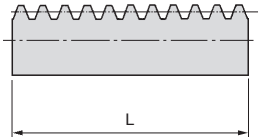
Module 1.0–5.0

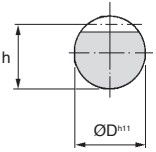
Stainless steel

- ***Pressure angle 20°***
- *Diameter tolerance h11*
- *Material:*
  drawn stainless steel 304



In stock up to module 2





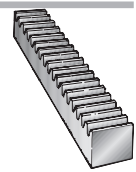
DISCOUNTS

Qty	1+	3+	6+
Disc.	List	-10%	On request

Part number	Module	h (mm)	ØD (mm)	L (mm)	Stock*	Price each 1 to 2
TRM1-1000/SS	1	9,00	10	999	✔	125,56 €
TRM1.5-1000/SS	1,5	13,50	15	999	✔	211,57 €
TRM2-1000/SS	2	18,00	20	999	✔	176,50 €
TRM2.5-1000/SS	2,5	22,50	25	997	-	On request
TRM3-1000/SS	3	27,00	30	999	-	On request
TRM4-1000/SS	4	36,00	40	1005	-	On request
TRM5-1000/SS	5	45,00	50	1005	-	On request

**Depending on availability - Dimensions in mm*

Technical information



- ***Approximate metric module tooth size***
- *Pressure angle 20°*

Module 0.25

Module 0.3

Module 0.35

Module 0.4

Module 0.5

Module 0.6

Module 0.8

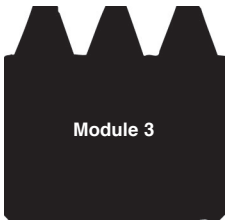
Module 1

Module 1.25

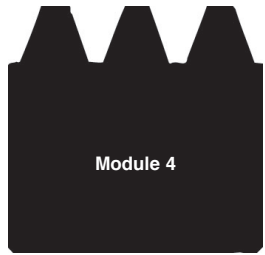
Module 1.5

Module 2

Module 2.5



Module 3

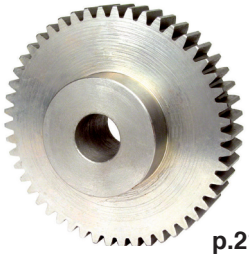


Module 4

INTERNAL GEAR

p.208

STEEL SPUR GEAR



p.212

PLASTIC SPUR GEAR

p.214

STAINLESS STEEL SPUR GEAR

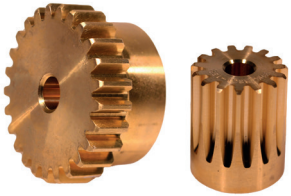
stainless steel

p.219

SPUR GEAR

P. 208-306

BRASS SPUR GEAR



p.218

STEEL SPUR GEAR

Economy range

p.234

MOULDED PLASTIC SPUR GEAR

Economy range

p.244

Internal gear

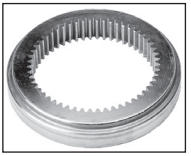
Module 0,4 1,0

Steel or machined plastic

- ***Pressure angle 20°***
- *Materials:*
  steel 20NCD2 or
  delrin plastic (machined parts)

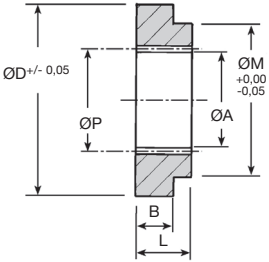
Accessories

- *Spur gears with the same module ex* **G0,4..., ZG0,4...,G1, ZG1...**



IN : Steel

ZIN : Delrin



MODIFIABLE

DISCOUNT Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel IN	Part number Delrin ZIN	Z teeth	PCD ØP	Internal ØA	ØD	L	B	Boss ØM	Price each 1 to 5 Steel IN	Price each 1 to 5 Delrin ZIN
Module 0.4										
IN0.4-100	ZIN0.4-100	100	40	39,2	60	5	3	55	76,28 €	54,89 €
IN0.4-120	ZIN0.4-120	120	48	47,2	75	5	3	70	85,35 €	61,31 €
IN0.4-150	ZIN0.4-150	150	60	53,2	75	5	3	70	97,29 €	69,93 €
IN0.4-200	ZIN0.4-200	200	80	79,2	125	5	3	100	129,41 €	93,06 €
Module 1.0										
IN1-58	ZIN1-58	58	58	56	100	11	8	94	103,00 €	74,18 €
IN1-60	ZIN1-60	60	60	58	100	11	8	94	104,35 €	75,09 €
IN1-100	ZIN1-100	100	100	98	150	11	8	125	179,11 €	128,91 €

Dimensions in mm

Internal gear

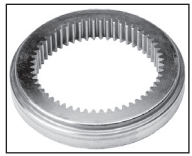
Steel or machined plastic

Module 1,5 2,0

- ***Pressure angle 20°***
- *Materials:*
  steel 20NCD2 or
  delrin plastic (machined parts)

Accessories

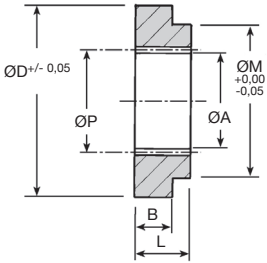
- *Spur gears with the same module ex* **G0,4..., ZG0,4...,G2, ZG2...**



IN : Steel

ZIN : Delrin

MODIFIABLE



DISCOUNT Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNT Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

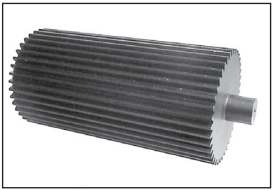
Part number Steel IN	Delrin ZIN	Z teeth	PCD ØP	Internal ØA	ØD	L	B	Boss ØM	Price each 1 to 5 Steel IN	Delrin ZIN
Module 1.5										
IN1.5-41	ZIN1.5-41	41	61,5	58	100	15	12	94	117,59 €	84,52 €
IN1.5-60	ZIN1.5-60	60	90,0	87	150	15	12	125	180,77 €	130,03 €
IN1.5-100	ZIN1.5-100	100	150,0	147	200	15	12	175	306,05 €	235,90 €
Module 2.0										
IN2-40	ZIN2-40	40	80	76	150	15	12	125	162,35 €	113,62 €
IN2-60	ZIN2-60	60	120	116	175	15	12	150	252,94 €	177,05 €
IN2-80	ZIN2-80	80	160	156	220	15	12	200	332,91 €	233,01 €
IN2-100	ZIN2-100	100	200	196	250	15	12	220	428,24 €	299,74 €

Dimensions in mm

AAG ABG

Aluminium or brass

- ***Bar stock with teeth machined to your requirements***
- *All types tooth form*
  Spur or helical gear
  module 0.4 to module 2
  Pulley pitch 2.5mm to 5mm
- *Bar diameter 20mm to 100mm*
- *Precision class 9*



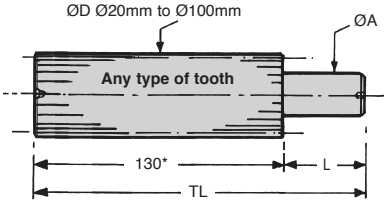
Choose your tooth form

Option

- *Stainless steel 303*

Info.

- *For toothed bars in helical form, face width will be 115mm
- ** Dimensions ØA and L are not guaranteed and are given as a guide only
- *These bars are not kept in stock but are manufactured to order*



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Aluminium 6082

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
AAG2	20 and 30	30	160	12	On request
AAG3	31 and 40	30	160	15	
AAG4	41 and 50	40	170	20	
AAG5	51 and 60	40	170	25	
AAG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

Brass CZ121

Part number	ØD between	L	TL	Boss ØA	Price each 1 to 5
ABG2	20 and 30	30	160	12	On request
ABG3	31 and 40	30	160	15	
ABG4	41 and 50	40	170	20	
ABG5	51 and 60	40	170	25	
ABG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

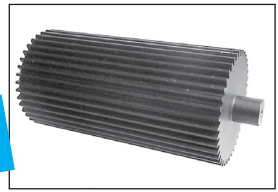
Dimensions in mm

Steel or Delrin

ASG
ADG

- ***Bar stock with teeth machined to your requirements***
- *All types tooth form*
  Spur or helical gear
  module 0.4 to module 2
  Pulley pitch 2.5mm to 5mm
- *Bar diameter 20mm to 100mm*
- *Precision class 9*

Choose your tooth form

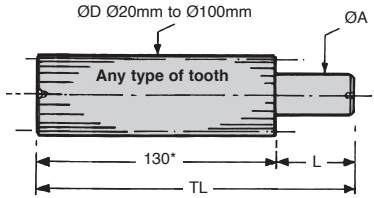


Option

- *Stainless steel 303*

Info.

- **For toothed bars in helical form, face width will be 115mm*
- *** Dimensions ØA and L are not guaranteed and are given as a guide only*
- *These bars are not kept in stock but are manufactured to order*



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Steel 20NCD2

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
ASG2	20 and 30	30	160	12	On request
ASG3	31 and 40	30	160	15	
ASG4	41 and 50	40	170	20	
ASG5	51 and 60	40	170	25	
ASG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

Delrin

Part number	ØD between	L	TL	Boss ØA	Price each 1 to 5
ADG2	20 and 30	30	160	12	On request
ADG3	31 and 40	30	160	15	
ADG4	41 and 50	40	170	20	
ADG5	51 and 60	40	170	25	
ADG6	61 and 100	40	170	25	
ØD GREATER THAN 100mm ON REQUEST					

Dimensions in mm

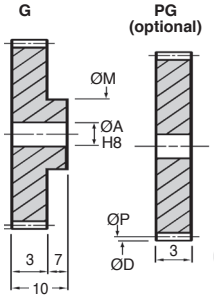
Steel spur gear

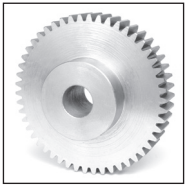
Module 0.4

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**0.147**	0.698	0.073
kW	**0.014**	0.075	0.008





bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G0.4-25	25	10,00	10,80	10,80	3	0,0062	0,0016	24,85 €	On request
G0.4-26	26	10,40	11,20	8,00	3	0,0041	0,0018	24,93 €	
G0.4-27	27	10,80	11,60	8,00	3	0,0043	0,0019	24,99 €	
G0.4-28	28	11,20	12,00	8,00	3	0,0044	0,0021	25,08 €	
G0.4-29	29	11,60	12,40	8,00	3	0,0046	0,0023	25,12 €	
G0.4-30	30	12,00	12,80	8,00	3	0,0047	0,0024	25,26 €	
G0.4-31	31	12,40	13,20	8,00	3	0,0049	0,0026	25,27 €	
G0.4-32	32	12,80	13,60	8,00	3	0,0051	0,0028	25,38 €	
G0.4-33	33	13,20	14,00	8,00	3	0,0053	0,0030	25,38 €	
G0.4-34	34	13,60	14,40	8,00	3	0,0055	0,0032	25,63 €	
G0.4-35	35	14,00	14,80	8,00	3	0,0057	0,0034	25,74 €	
G0.4-36	36	14,40	15,20	8,00	3	0,0059	0,0036	25,74 €	
G0.4-37	37	14,80	15,60	8,00	3	0,0061	0,0038	25,92 €	
G0.4-38	38	15,20	16,00	8,00	3	0,0063	0,0040	26,06 €	
G0.4-39	39	15,60	16,40	8,00	3	0,0065	0,0042	26,17 €	
G0.4-40	40	16,00	16,80	12,00	4	0,0097	0,0043	26,36 €	

Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	PG	Price each 1 to 5 G	PG
G0.4-41	41	16,40	17,20	12,00	4	0,0099	0,0046	26,54 €	On request
G0.4-42	42	16,80	17,60	12,00	4	0,0102	0,0048	26,67 €	
G0.4-43	43	17,20	18,00	12,00	4	0,0104	0,0050	26,96 €	
G0.4-44	44	17,60	18,40	12,00	4	0,0107	0,0053	27,13 €	
G0.4-45	45	18,00	18,80	12,00	4	0,0109	0,0056	27,24 €	
G0.4-46	46	18,40	19,20	12,00	4	0,0112	0,0058	27,40 €	
G0.4-47	47	18,80	19,60	12,00	4	0,0115	0,0061	27,55 €	
G0.4-48	48	19,20	20,00	12,00	4	0,0117	0,0064	27,77 €	
G0.4-49	49	19,60	20,40	12,00	4	0,0120	0,0066	27,91 €	
G0.4-50	50	20,00	20,80	12,00	4	0,0123	0,0069	28,25 €	
G0.4-51	51	20,40	21,20	12,00	4	0,0126	0,0072	28,42 €	
G0.4-52	52	20,80	21,60	12,00	4	0,0129	0,0075	28,50 €	
G0.4-53	53	21,20	22,00	12,00	4	0,0132	0,0078	28,71 €	
G0.4-54	54	21,60	22,40	12,00	4	0,0135	0,0081	28,88 €	
G0.4-55	55	22,00	22,80	12,00	4	0,0138	0,0084	28,89 €	
G0.4-56	56	22,40	23,20	12,00	4	0,0141	0,0088	29,12 €	
G0.4-57	57	22,80	23,60	12,00	4	0,0145	0,0091	29,52 €	
G0.4-58	58	23,20	24,00	12,00	4	0,0148	0,0094	29,69 €	
G0.4-59	59	23,60	24,40	12,00	4	0,0151	0,0098	30,01 €	
G0.4-60	60	24,00	24,80	12,00	4	0,0155	0,0101	30,25 €	
G0.4-61	61	24,40	25,20	12,00	4	0,0158	0,0104	30,51 €	
G0.4-62	62	24,80	25,60	12,00	4	0,0162	0,0108	30,84 €	
G0.4-63	63	25,20	26,00	12,00	4	0,0165	0,0112	31,05 €	
G0.4-64	64	25,60	26,40	12,00	4	0,0169	0,0115	31,28 €	
G0.4-65	65	26,00	26,80	12,00	4	0,0173	0,0119	31,70 €	
G0.4-68	68	27,20	28,00	12,00	4	0,0184	0,0131	31,99 €	
G0.4-70	70	28,00	28,80	12,00	4	0,0192	0,0138	32,22 €	
G0.4-72	72	28,80	29,60	12,00	4	0,0201	0,0147	32,37 €	
G0.4-75	75	30,00	30,80	12,00	4	0,0213	0,0159	32,48 €	
G0.4-77	77	30,80	31,60	12,00	4	0,0222	0,0168	32,77 €	
G0.4-80	80	32,00	32,80	12,00	5	0,0230	0,0180	33,06 €	
G0.4-84	84	33,60	34,40	12,00	5	0,0249	0,0199	33,73 €	
G0.4-86	86	34,40	35,20	12,00	5	0,0259	0,0209	34,29 €	
G0.4-88	88	35,20	36,00	12,00	5	0,0269	0,0219	34,93 €	
G0.4-90	90	36,00	36,80	12,00	5	0,0279	0,0229	35,62 €	
G0.4-96	96	38,40	39,20	12,00	5	0,0311	0,0261	36,32 €	
G0.4-100	100	40,00	40,80	12,00	5	0,0334	0,0284	36,87 €	
G0.4-120	120	48,00	48,80	12,00	5	0,0461	0,0411	37,51 €	
G0.4-140	140	56,00	56,80	12,00	5	0,0611	0,0561	40,77 €	
G0.4-150	150	60,00	60,80	12,00	5	0,0695	0,0645	48,46 €	
G0.4-180	180	72,00	72,80	15,00	6	0,1008	0,0928	59,07 €	
↓	Gears available up to this size								
G0.4-348	348	139,20	140,00	Dimensions: contact us					

Dimensions in mm

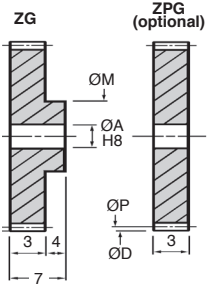
Plastic spur gear

Module 0.4

Machined Delrin

- ***Machined parts***
- *Quality standard 9*
- *Pressure angle 20°*
- *Working temp.: -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**0.04**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.4-25	25	10,00	10,80	9,00	2,00	0,0006	0,0003	12,38 €	On request
ZG0.4-26	26	10,40	11,20	9,00	2,00	0,0006	0,0003	12,38 €	
ZG0.4-27	27	10,80	11,60	9,00	2,00	0,0007	0,0003	12,54 €	
ZG0.4-28	28	11,20	12,00	11,00	3,00	0,0008	0,0004	12,54 €	
ZG0.4-29	29	11,60	12,40	11,00	3,00	0,0008	0,0004	12,54 €	
ZG0.4-30	30	12,00	12,80	11,00	3,00	0,0009	0,0004	12,54 €	
ZG0.4-31	31	12,40	13,20	11,00	3,00	0,0009	0,0004	12,60 €	
ZG0.4-32	32	12,80	13,60	11,00	3,00	0,0009	0,0005	12,60 €	
ZG0.4-33	33	13,20	14,00	11	3,00	0,0010	0,0005	12,60 €	
ZG0.4-34	34	13,60	14,40	11	3,00	0,0010	0,0005	12,77 €	
ZG0.4-35	35	14,00	14,80	11	3,00	0,0010	0,0006	12,77 €	
ZG0.4-36	36	14,40	15,20	11	3,00	0,0011	0,0006	12,77 €	
ZG0.4-37	37	14,80	15,60	11	3,00	0,0011	0,0006	12,93 €	
ZG0.4-38	38	15,20	16,00	11	3,00	0,0011	0,0007	13,13 €	
ZG0.4-39	39	15,60	16,40	11	3,00	0,0012	0,0007	13,13 €	
ZG0.4-40	40	16,00	16,80	11	3,00	0,0012	0,0007	13,23 €	

Dimensions in mm

DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.4-41	41	16,40	17,20	11	3,00	0,0012	0,0008	13,23 €	On request
ZG0.4-42	42	16,80	17,60	11	3,00	0,0013	0,0008	13,30 €	
ZG0.4-43	43	17,20	18,00	11	3,00	0,0013	0,0009	13,46 €	
ZG0.4-44	44	17,60	18,40	11	3,00	0,0014	0,0009	13,50 €	
ZG0.4-45	45	18,00	18,80	11	3,00	0,0014	0,0010	13,50 €	
ZG0.4-46	46	18,40	19,20	11	3,00	0,0015	0,0010	13,78 €	
ZG0.4-47	47	18,80	19,60	11	3,00	0,0015	0,0010	13,86 €	
ZG0.4-48	48	19,20	20,00	11	3,00	0,0015	0,0011	13,86 €	
ZG0.4-49	49	19,60	20,40	14	4,00	0,0018	0,0011	13,98 €	
ZG0.4-50	50	20,00	20,80	14	4,00	0,0019	0,0012	14,01 €	
ZG0.4-51	51	20,40	21,20	14	4,00	0,0019	0,0012	14,13 €	
ZG0.4-52	52	20,80	21,60	14	4,00	0,0020	0,0013	14,13 €	
ZG0.4-53	53	21,20	22,00	14	4,00	0,0020	0,0013	14,36 €	
ZG0.4-54	54	21,60	22,40	14	4,00	0,0021	0,0014	14,42 €	
ZG0.4-55	55	22,00	22,80	14	4,00	0,0021	0,0014	14,42 €	
ZG0.4-56	56	22,40	23,20	14	4,00	0,0022	0,0015	14,62 €	
ZG0.4-57	57	22,80	23,60	14	4,00	0,0023	0,0015	14,78 €	
ZG0.4-58	58	23,20	24,00	14	4,00	0,0023	0,0016	14,89 €	
ZG0.4-59	59	23,60	24,40	14	4,00	0,0024	0,0016	14,98 €	
ZG0.4-60	60	24,00	24,80	14	4,00	0,0024	0,0017	15,09 €	
ZG0.4-61	61	24,40	25,20	14	4,00	0,0025	0,0018	15,27 €	
ZG0.4-62	62	24,80	25,60	14	4,00	0,0025	0,0018	15,34 €	
ZG0.4-63	63	25,20	26,00	14	4,00	0,0026	0,0019	15,57 €	
ZG0.4-64	64	25,60	26,40	14	4,00	0,0027	0,0019	15,66 €	
ZG0.4-65	65	26,00	26,80	14	4,00	0,0027	0,0020	15,87 €	
ZG0.4-68	68	27,20	28,00	14	4,00	0,0029	0,0022	16,01 €	
ZG0.4-70	70	28,00	28,80	14	4,00	0,0031	0,0023	16,17 €	
ZG0.4-72	72	28,80	29,60	14	4,00	0,0032	0,0025	16,17 €	
ZG0.4-75	75	30,00	30,80	14	4,00	0,0034	0,0027	17,88 €	
ZG0.4-77	77	30,80	31,60	14	4,00	0,0036	0,0028	18,05 €	
ZG0.4-80	80	32,00	32,80	14	4,00	0,0038	0,0031	18,05 €	
ZG0.4-84	84	33,60	34,40	14	4,00	0,0041	0,0034	18,38 €	
ZG0.4-86	86	34,40	35,20	14	4,00	0,0043	0,0035	18,54 €	
ZG0.4-88	88	35,20	36,00	14	4,00	0,0044	0,0037	18,76 €	
ZG0.4-90	90	36,00	36,80	14	4,00	0,0046	0,0039	19,06 €	
ZG0.4-96	96	38,40	39,20	14	4,00	0,0051	0,0044	19,49 €	
ZG0.4-100	100	40,00	40,80	14	4,00	0,0055	0,0048	22,57 €	
ZG0.4-120	120	48,00	48,80	14	4,00	0,0077	0,0069	22,91 €	
ZG0.4-140	140	56,00	56,80	14	4,00	0,0102	0,0095	25,48 €	
ZG0.4-150	150	60,00	60,80	20	6,00	0,0116	0,0109	28,50 €	
ZG0.4-180	180	72,00	72,80	20	6,00	0,0164	0,0157	31,51 €	
↓	Gears available up to this size								
ZG0.4-348	**348**	**139,20**	**140,00**		**Dimensions: contact us**				

Dimensions in mm

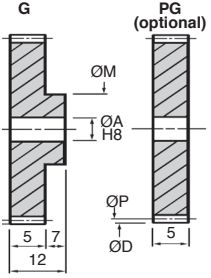
Steel spur gear

Module 0.5

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**0.391**	1.850	0.195
kW	**0.041**	0.194	0.021



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight G	(kg) PG	Stock*	Price each 1 to 5 G	PG
G0.5-20	20	10,00	11,00	8,50	4	0,0049	0,0025	✔	28,42 €	On request
G0.5-21	21	10,50	11,50	8,50	4	0,0052	0,0028	-	28,71 €	
G0.5-22	22	11,00	12,00	8,50	4	0,0055	0,0032	-	28,99 €	
G0.5-23	23	11,50	12,50	8,50	4	0,0059	0,0035	✔	29,39 €	
G0.5-24	24	12,00	13,00	10,00	5	0,0067	0,0036	✔	29,69 €	
G0.5-25	25	12,50	13,50	10,00	5	0,0071	0,0039	✔	30,04 €	
G0.5-26	26	13,00	14,00	10,00	5	0,0075	0,0043	-	30,42 €	
G0.5-27	27	13,50	14,50	10,00	5	0,0079	0,0047	-	30,84 €	
G0.5-28	28	14,00	15,00	10,00	5	0,0083	0,0051	✔	31,28 €	
G0.5-29	29	14,50	15,50	10,00	5	0,0087	0,0056	-	31,28 €	
G0.5-30	30	15,00	16,00	10,00	5	0,0092	0,0060	✔	31,43 €	
G0.5-31	31	15,50	16,50	10,00	5	0,0096	0,0065	-	31,83 €	
G0.5-32	32	16,00	17,00	10,00	5	0,0101	0,0069	✔	32,22 €	
G0.5-33	33	16,50	17,50	10,00	5	0,0106	0,0074	-	32,48 €	
G0.5-34	34	17,00	18,00	10,00	5	0,0111	0,0079	-	On request	
G0.5-35	35	17,50	18,50	10,00	5	0,0116	0,0085	-	33,33 €	
G0.5-36	36	18,00	19,00	10,00	5	0,0121	0,0090	✔	33,63 €	
G0.5-37	37	18,50	19,50	10,00	5	0,0127	0,0095	-	34,00 €	
G0.5-38	38	19,00	20,00	10,00	5	0,0133	0,0101	-	34,27 €	
G0.5-39	39	19,50	20,50	10,00	5	0,0138	0,0107	-	34,65 €	
G0.5-40	40	20,00	21,00	10,00	5	0,0144	0,0113	✔	34,99 €	

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

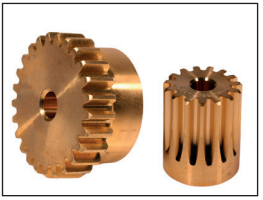
Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight G	(kg) PG		Price each 1 to 5 G	PG
G0.5-41	41	20,50	21,50	10,00	5	0,0150	0,0119	-	35,39 €	
G0.5-42	42	21,00	22,00	10,00	5	0,0157	0,0125	-	35,77 €	
G0.5-43	43	21,50	22,50	10,00	5	0,0163	0,0131	-	36,00 €	
G0.5-44	44	22,00	23,00	10,00	5	0,0169	0,0138	✔	36,41 €	
G0.5-45	45	22,50	23,50	10,00	5	0,0176	0,0145	-	36,77 €	
G0.5-46	46	23,00	24,00	10,00	5	0,0183	0,0151	-	On request	
G0.5-47	47	23,50	24,50	10,00	5	0,0190	0,0158	-	37,46 €	
G0.5-48	48	24,00	25,00	10,00	5	0,0197	0,0166	✔	38,29 €	
G0.5-49	49	24,50	25,50	10,00	5	0,0204	0,0173	✔	38,29 €	
G0.5-50	50	25,00	26,00	12,00	6	0,0222	0,0177	✔	38,65 €	
G0.5-51	51	25,50	26,50	12,00	6	0,0230	0,0185	-	38,92 €	
G0.5-52	52	26,00	27,00	12,00	6	0,0238	0,0192	-	39,13 €	
G0.5-53	53	26,50	27,50	12,00	6	0,0246	0,0200	-	39,48 €	
G0.5-54	54	27,00	28,00	12,00	6	0,0254	0,0208	✔	39,68 €	
G0.5-55	55	27,50	28,50	12,00	6	0,0262	0,0216	-	39,97 €	
G0.5-56	56	28,00	29,00	12,00	6	0,0270	0,0225	-	40,21 €	
G0.5-57	57	28,50	29,50	12,00	6	0,0279	0,0233	-	40,50 €	
G0.5-58	58	29,00	30,00	12,00	6	0,0287	0,0242	-	40,77 €	
G0.5-59	59	29,50	30,50	12,00	6	0,0296	0,0251	-	41,04 €	
G0.5-60	60	30,00	31,00	12,00	6	0,0305	0,0260	✔	41,30 €	
G0.5-61	61	30,50	31,50	12,00	6	0,0314	0,0269	-	41,47 €	
G0.5-62	62	31,00	32,00	12,00	6	0,0323	0,0278	-	41,78 €	
G0.5-64	64	32,00	33,00	12,00	6	0,0342	0,0297	✔	42,36 €	
G0.5-65	65	32,50	33,50	12,00	6	0,0352	0,0307	-	42,67 €	
G0.5-68	68	34,00	35,00	12,00	6	0,0382	0,0337	-	42,91 €	
G0.5-70	70	35,00	36,00	12,00	6	0,0403	0,0357	✔	43,43 €	
G0.5-72	72	36,00	37,00	12,00	6	0,0424	0,0379	✔	43,86 €	
G0.5-75	75	37,50	38,50	12,00	6	0,0457	0,0412	-	44,21 €	
G0.5-77	77	38,50	39,50	12,00	6	0,0480	0,0435	-	44,72 €	
G0.5-80	80	40,00	41,00	12,00	6	0,0515	0,0470	✔	45,15 €	
G0.5-84	84	42,00	43,00	12,00	6	0,0565	0,0519	✔	45,49 €	
G0.5-86	86	43,00	44,00	12,00	6	0,0590	0,0545	-	46,08 €	
G0.5-88	88	44,00	45,00	12,00	6	0,0616	0,0571	-	46,44 €	
G0.5-90	90	45,00	46,00	12,00	6	0,0643	0,0598	✔	47,01 €	
G0.5-96	96	48,00	49,00	12,00	6	0,0727	0,0682	-	47,42 €	
G0.5-100	100	50,00	51,00	12,00	6	0,0786	0,0740	✔	47,58 €	
G0.5-120	120	60,00	61,00	18,00	6	0,1116	0,1071	✔	57,60 €	
G0.5-140	140	70,00	71,00	18,00	6	0,1507	0,1462	-	68,83 €	
G0.5-150	150	75,00	76,00	18,00	6	0,1725	0,1679	-	74,84 €	
G0.5-180	180	90,00	91,00	20,00	8	0,2469	0,2423	-	84,69 €	
G0.5-200	200	100,00	101,00	20,00	8	0,3040	0,2994	-	92,48 €	
G0.5-220	220	110,00	111,00	20,00	10	0,3671	0,3625	-	100,84 €	
G0.5-250	250	125,00	126,00	20,00	10	0,4730	0,4684	-	110,84 €	
↓				Gears available up to this size						
G0.5-278	278	139,00	140,00	Dimensions: contact us						

On request

*Depending on availability - Dimensions in mm

Module 0,5

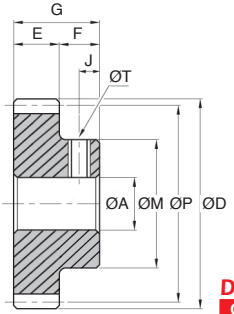
Brass CuZn39Pb3



- ***Spur gear with JIS grade 8teeth (JISB1702-1:1998)***
- *Pressure angle 20°*
- *Material:*
  Brass CuZn39Pb3 (C6304)

Info

- **Torque (bending strength)*



DISCOUNTS

Qty	1+	6+	10+
Disc.	Price	-12%	On request

Part number	Teeth Z	ØP	ØD	ØM	ØA (H7)	E	F	G	ØT	J	Torque* (Nm)	Weight (kg)	Price each 1 to 5
GB0.5-15-RA03T	15	7,5	8,5	8,5	3	3	11	14	M3	2,5	0,058	0,005	27,45 €
GB0.5-16-RA03T	16	8,0	9,0	9,0	3	3	11	14	M3	2,5	0,065	0,006	27,45 €
GB0.5-20-RA04	20	10,0	11,0	8,5	4	3	7	10	-	-	0,091	0,004	27,98 €
GB0.5-20-RA03T	20	10,0	11,0	11,0	3	3	11	14	M3	2,5	0,091	0,010	31,86 €
GB0.5-22-RA03T	22	11,0	12,0	9,0	3	3	7	10	M3	3,5	0,10	0,005	33,93 €
GB0.5-24-RA04T	24	12,0	13,0	10,0	4	3	7	10	M3	3,5	0,12	0,006	35,58 €
GB0.5-25-RA04	25	12,5	13,5	11,0	4	3	7	10	-	-	0,12	0,008	35,58 €
GB0.5-30-RA04	30	15,0	16,0	13,0	4	3	7	10	-	-	0,16	0,011	36,35 €
GB0.5-30-RA03T	30	15,0	16,0	12,0	3	3	7	10	M3	3,5	0,16	0,010	39,92 €
GB0.5-30-RA04T	30	15,0	16,0	12,0	4	3	7	10	M3	3,5	0,16	0,010	39,92 €
GB0.5-30-RA05T	30	15,0	16,0	12,0	5	3	7	10	M4	3,5	0,16	0,009	39,92 €
GB0.5-38-RA04T	38	19,0	20,0	16,0	4	3	7	10	M3	3,5	0,22	0,018	41,38 €
GB0.5-40-RA04	40	20,0	21,0	17,0	4	3	7	10	-	-	0,23	0,020	41,49 €
GB0.5-50-RA04T	50	25,0	26,0	22,0	4	3	7	10	M3	3,5	0,31	0,033	45,76 €

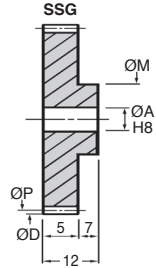
Dimensions in mm

304L stainless steel

Module 0.5

- ***Quality standard 9***
- *Pressure angle 20°*

Torque and power indication For 50 teeth at 1000 rpm			
	STS 304L	*brass*	*fibre*
Nm	**0.391**	*0.195*	*0.156*
kW	**0.041**	*0.021*	*0.016*



stainless steel

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG0.5-20-304L	20	10	11	8,5	4	37,74 €
SSG0.5-22-304L	22	11	12	8,5	4	38,65 €
SSG0.5-24-304L	24	12	13	10	5	39,65 €
SSG0.5-25-304L	25	12,5	13,5	10	5	40,05 €
SSG0.5-26-304L	26	13	14	10	5	40,58 €
SSG0.5-28-304L	28	14	15	10	5	41,67 €
SSG0.5-30-304L	30	15	16	10	5	41,92 €
SSG0.5-32-304L	32	16	17	10	5	42,90 €
SSG0.5-36-304L	36	18	19	10	5	44,85 €
SSG0.5-40-304L	40	20	21	10	5	46,65 €
SSG0.5-44-304L	44	22	23	10	5	48,58 €
SSG0.5-48-304L	48	24	25	10	5	50,98 €
SSG0.5-50-304L	50	25	26	12	6	51,46 €
SSG0.5-54-304L	54	27	28	12	6	52,84 €
SSG0.5-56-304L	56	28	29	12	6	53,62 €
SSG0.5-60-304L	60	30	31	12	6	55,03 €
SSG0.5-64-304L	64	32	33	12	6	60,31 €
SSG0.5-70-304L	70	35	36	12	6	61,80 €
SSG0.5-80-304L	80	40	41	12	6	64,22 €
↓	**Gears available up to this size**					
SSG0.5-278-304L	**278**	**139**	**140**	**Dimensions: contact us**		

**Depending on availability - Dimensions in mm*

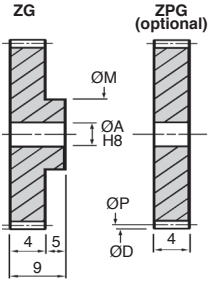
Plastic spur gear

Module 0.5

Machined Delrin

- ***Machined parts***
- *Quality standard 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**0.1**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.5-20	20	10,00	11,00	9	3	✔	0,0007	0,0004	14,13 €	On request
ZG0.5-21	21	10,50	11,50	9	3	-	0,0008	0,0004	14,36 €	
ZG0.5-22	22	11,00	12,00	9	3	-	0,0008	0,0005	14,42 €	
ZG0.5-23	23	11,50	12,50	10	3	-	0,0010	0,0005	14,78 €	
ZG0.5-24	24	12,00	13,00	10	3	✔	0,0010	0,0005	14,89 €	
ZG0.5-25	25	12,50	13,50	10	3	✔	0,0011	0,0006	14,98 €	
ZG0.5-26	26	13,00	14,00	10	3	-	0,0011	0,0006	15,27 €	
ZG0.5-27	27	13,50	14,50	10	3	-	0,0012	0,0007	15,34 €	
ZG0.5-28	28	14,00	15,00	10	3	-	0,0012	0,0008	15,66 €	
ZG0.5-29	29	14,50	15,50	10	3	-	0,0013	0,0008	15,66 €	
ZG0.5-30	30	15,00	16,00	12	4	✔	0,0015	0,0008	15,73 €	
ZG0.5-31	31	15,50	16,50	12	4	-	0,0016	0,0009	15,87 €	
ZG0.5-32	32	16,00	17,00	12	4	✔	0,0016	0,0010	16,17 €	
ZG0.5-33	33	16,50	17,50	12	4	-	0,0017	0,0010	16,23 €	
ZG0.5-34	34	17,00	18,00	12	4	-	0,0017	0,0011	16,27 €	
ZG0.5-35	35	17,50	18,50	12	4	✔	0,0018	0,0012	16,64 €	
ZG0.5-36	36	18,00	19,00	12	4	-	0,0019	0,0012	16,80 €	
ZG0.5-40	40	20,00	21,00	12	4	✔	0,0022	0,0016	17,51 €	

**Depending on availability- Dimensions in mm*

DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.5-41	41	20,50	21,50	12	4	-	0,0023	0,0016	17,65 €	
ZG0.5-42	42	21,00	22,00	12	4	-	0,0024	0,0017	17,88 €	
ZG0.5-43	43	21,50	22,50	12	4	-	0,0024	0,0018	18,05 €	
ZG0.5-44	44	22,00	23,00	12	4	-	0,0025	0,0019	18,38 €	
ZG0.5-45	45	22,50	23,50	12	4	-	0,0026	0,0020	18,42 €	
ZG0.5-46	46	23,00	24,00	12	4	-	0,0027	0,0021	18,54 €	
ZG0.5-47	47	23,50	24,50	12	4	-	0,0028	0,0022	18,76 €	
ZG0.5-48	48	24,00	25,00	12	4	-	0,0029	0,0023	19,25 €	
ZG0.5-49	49	24,50	25,50	12	4	-	0,0030	0,0024	19,25 €	
ZG0.5-50	50	25,00	26,00	12	4	✔	0,0031	0,0025	19,38 €	
ZG0.5-51	51	25,50	26,50	12	4	-	0,0032	0,0026	19,49 €	
ZG0.5-52	52	26,00	27,00	12	4	-	0,0033	0,0027	19,55 €	
ZG0.5-53	53	26,50	27,50	12	4	-	0,0034	0,0028	19,67 €	
ZG0.5-54	54	27,00	28,00	14	4	-	0,0038	0,0029	19,88 €	
ZG0.5-55	55	27,50	28,50	14	4	-	0,0039	0,0030	19,97 €	
ZG0.5-56	56	28,00	29,00	14	4	-	0,0040	0,0031	20,17 €	
ZG0.5-57	57	28,50	29,50	14	4	-	0,0041	0,0032	20,28 €	
ZG0.5-58	58	29,00	30,00	14	4	-	0,0042	0,0033	22,57 €	
ZG0.5-59	59	29,50	30,50	14	4	-	0,0044	0,0035	22,64 €	
ZG0.5-60	60	30,00	31,00	14	4	✔	0,0045	0,0036	22,77 €	
ZG0.5-61	61	30,50	31,50	14	4	-	0,0046	0,0037	22,91 €	
ZG0.5-62	62	31,00	32,00	14	4	-	0,0047	0,0038	23,01 €	
ZG0.5-63	63	31,50	32,50	14	4	-	0,0049	0,0039	23,17 €	
ZG0.5-64	64	32,00	33,00	14	4	-	0,0050	0,0041	23,49 €	
ZG0.5-65	65	32,50	33,50	14	4	-	0,0051	0,0042	23,64 €	
ZG0.5-68	68	34,00	35,00	14	4	-	0,0055	0,0046	23,68 €	
ZG0.5-70	70	35,00	36,00	14	4	✔	0,0058	0,0049	23,91 €	
ZG0.5-72	72	36,00	37,00	14	4	-	0,0061	0,0052	24,17 €	
ZG0.5-75	75	37,50	38,50	14	4	-	0,0065	0,0056	24,44 €	
ZG0.5-77	77	38,50	39,50	14	4	-	0,0068	0,0059	24,81 €	
ZG0.5-80	80	40,00	41,00	16	5	✔	0,0075	0,0064	28,25 €	
ZG0.5-84	84	42,00	43,00	16	5	-	0,0082	0,0070	28,50 €	
ZG0.5-86	86	43,00	44,00	16	5	-	0,0085	0,0074	28,99 €	
ZG0.5-88	88	44,00	45,00	16	5	-	0,0089	0,0077	29,15 €	
ZG0.5-90	90	45,00	46,00	16	5	✔	0,0092	0,0081	29,39 €	
ZG0.5-96	96	48,00	49,00	16	5	-	0,0104	0,0092	29,69 €	
ZG0.5-100	100	50,00	51,00	16	5	✔	0,0112	0,0100	36,00 €	
ZG0.5-120	120	60,00	61,00	16	5	✔	0,0156	0,0144	49,27 €	
ZG0.5-150	150	75,00	76,00	20	8	✔	0,0238	0,0226	67,98 €	
ZG0.5-180	180	90,00	91,00	20	8	-	0,0338	0,0326	85,43 €	
ZG0.5-200	200	100,00	101,00	30	10	-	0,0415	0,0403	69,38 €	
ZG0.5-220	220	110,00	111,00	30	10	-	0,0499	0,0488	69,38 €	
ZG0.5-250	250	125,00	126,00	50	12	-	0,0642	0,0630	85,43 €	
↓	Gears available up to this size									
ZG0.5-278	278	139,00	140,00	Dimensions: contact us						

On request

*Depending on availability- Dimensions in mm

Steel spur gear

Module 0.6

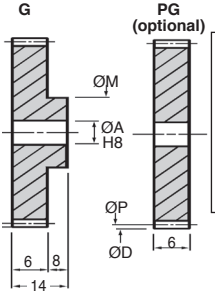
Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Option

- ***Alternative number of teeth, up to 231***

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**0.630**	2.910	0.315
kW	**0.067**	0.306	0.033



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G0.6-16	16	9,60	10,80	10,80	4	0,008	0,003	27,70 €	On request
G0.6-18	18	10,80	12,00	12,00	4	0,010	0,004	28,89 €	
G0.6-20	20	12,00	13,20	12,00	4	0,011	0,005	30,55 €	
G0.6-22	22	13,20	14,40	12,00	4	0,012	0,006	31,62 €	
G0.6-24	24	14,40	15,60	12,00	4	0,013	0,007	31,91 €	
G0.6-28	28	16,80	18,00	12,00	4	0,016	0,010	33,17 €	
G0.6-29	29	17,40	18,60	12,00	4	0,016	0,010	33,56 €	
G0.6-35	35	21,00	22,20	15,00	5	0,025	0,015	34,88 €	
G0.6-40	40	24,00	25,20	15,00	5	0,029	0,020	35,29 €	
G0.6-50	50	30,00	31,60	20,00	6	0,049	0,030	35,90 €	
G0.6-55	55	33,00	34,20	20,00	6	0,055	0,038	36,35 €	
G0.6-60	60	36,00	37,20	20,00	6	0,063	0,045	36,98 €	
G0.6-63	63	37,80	39,00	20,00	6	0,068	0,050	37,46 €	
G0.6-80	80	48,00	49,20	20,00	6	0,099	0,082	39,63 €	
G0.6-84	84	50,40	51,60	30,00	8	0,129	0,089	40,59 €	
G0.6-120	120	72,00	73,20	30,00	8	0,225	0,185	61,82 €	
G0.6-150	150	90,00	91,20	30,00	8	0,330	0,290	82,25 €	
↓	Gears available up to this size								
G0.6-231	**231**	**138,60**	**139,80**	**Dimensions: contact us**					

**Depending on availability - Dimensions in mm*

Steel 20NCD2

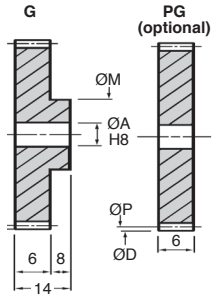
Module 0.7

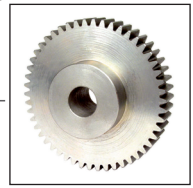
- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Option

- ***Alternative number of teeth, up to 231***

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**0.60**	3.200	0.326
kW	**0.06**	0.336	0.030





bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G0.7-15	15	10,50	11,90	11,90	5	0,009	0,006	30,99 €	On request
G0.7-18	18	12,60	14,00	12,00	5	0,011	0,008	33,42 €	
G0.7-20	20	14,00	15,40	12,00	5	0,012	0,009	34,13 €	
G0.7-24	24	16,80	18,20	12,00	5	0,015	0,012	35,50 €	
G0.7-26	26	18,20	19,60	12,00	5	0,017	0,014	36,29 €	
G0.7-28	28	19,60	21,00	12,00	5	0,019	0,016	36,77 €	
G0.7-30	30	21,00	22,40	12,00	5	0,021	0,018	37,37 €	
G0.7-35	35	24,50	25,90	16,00	6	0,031	0,025	37,68 €	
G0.7-40	40	28,00	29,40	16,00	6	0,038	0,031	38,11 €	
G0.7-42	42	29,40	30,80	16,00	6	0,040	0,034	38,32 €	
G0.7-48	48	33,60	35,00	16,00	6	0,050	0,044	39,05 €	
G0.7-50	50	35,00	36,40	16,00	6	0,053	0,047	39,47 €	
G0.7-60	60	42,00	43,40	16,00	6	0,073	0,067	41,17 €	
G0.7-70	70	49,00	50,40	16,00	8	0,094	0,092	42,88 €	
G0.7-76	76	53,20	54,60	16,00	8	0,109	0,107	45,16 €	
G0.7-175	175	122,50	123,90	25,00	12	0,566	0,547	119,63 €	
↓	Gears available up to this size								
G0.7-198	**198**	**138,60**	**140,00**	**Dimensions: contact us**					

**Depending on availability - Dimensions in mm*

MINIMUM ORDER 20€*

FREE DELIVERY FOR ORDERS 100€* OR MORE

VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

FAST QUOTES & ORDERS

FREE CATALOGUES

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

DELIVERY 24/48 H*

* Certain conditions apply - Deliveries to mainland France only

Steel 20NCD2

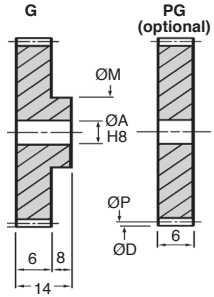
Module 0.75

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Option

- ***Alternative number of teeth, up to 198***

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**0.990**	4.570	0.480
kW	**0.104**	0.477	0.057



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G0.75-11	11	9,00	10,50	10,50	4	0,007	0,002	27,70 €	On request
G0.75-13	13	9,75	11,25	11,25	5	0,008	0,003	28,29 €	
G0.75-14	14	10,50	12,00	12,00	5	0,009	0,003	28,92 €	
G0.75-15	15	11,25	12,75	12,00	5	0,009	0,004	29,67 €	
G0.75-17	17	12,75	14,25	12,00	5	0,011	0,005	31,28 €	
G0.75-18	18	13,50	15,00	12,00	5	0,011	0,006	31,91 €	
G0.75-20	20	15,00	16,50	12,00	5	0,013	0,007	32,48 €	
G0.75-22	22	16,50	18,00	12,00	5	0,015	0,009	33,17 €	
G0.75-24	24	18,00	19,50	12,00	5	0,017	0,011	33,82 €	
G0.75-25	25	18,75	20,25	12,00	5	0,017	0,012	34,17 €	
G0.75-28	28	21,00	22,50	12,00	5	0,021	0,015	34,88 €	
G0.75-30	30	22,50	24,00	12,00	5	0,023	0,017	35,18 €	
G0.75-40	40	30,00	31,50	16,00	6	0,042	0,031	35,90 €	
G0.75-45	45	33,75	35,25	16,00	6	0,050	0,040	36,51 €	
G0.75-60	60	45,00	46,50	16,00	6	0,082	0,072	39,14 €	
G0.75-70	70	52,50	54,00	16,00	8	0,106	0,097	41,04 €	
G0.75-72	72	54,00	55,50	16,00	8	0,112	0,103	42,22 €	
G0.75-100	100	75,00	76,50	16,00	8	0,210	0,201	69,47 €	
G0.75-150	150	112,50	114,00	20,00	10	0,470	0,454	113,65 €	
G0.75-180	180	135,00	136,50	30,00	12	0,671	0,655	154,78 €	
↓	**Gears available up to this size**								
G0.75-184	**184**	**138,00**	**139,50**	**Dimensions: contact us**					

Dimensions in mm

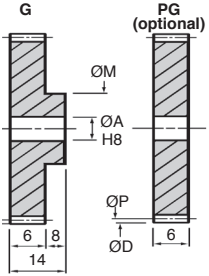
Steel spur gear

Module 0.8

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**1**	5	0.54
kW	**0.104**	0.522	0.06



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG		Price each 1 to 5 G	Price each 1 to 5 PG
G0.8-12	12	9,60	11,20	11,20	5	0,009	0,004	✔	28,89 €	On request
G0.8-13	13	10,40	12,00	12,00	5	0,011	0,005	-	29,67 €	
G0.8-14	14	11,20	12,80	12,00	5	0,012	0,006	-	30,25 €	
G0.8-15	15	12,00	13,60	12,00	5	0,013	0,007	✔	30,99 €	
G0.8-16	16	12,80	14,40	12,00	5	0,014	0,008	✔	31,77 €	
G0.8-17	17	13,60	15,20	12,00	5	0,015	0,010	-	32,78 €	
G0.8-18	18	14,40	16,00	12,00	5	0,017	0,011	✔	33,42 €	
G0.8-19	19	15,20	16,80	12,00	5	0,018	0,012	-	34,03 €	
G0.8-20	20	16,00	17,60	12,00	5	0,020	0,014	✔	34,13 €	
G0.8-21	21	16,80	18,40	12,00	5	0,021	0,015	-	34,49 €	
G0.8-22	22	17,60	19,20	12,00	5	0,023	0,017	✔	34,88 €	
G0.8-23	23	18,40	20,00	12,00	5	0,025	0,019	-	35,26 €	
G0.8-24	24	19,20	20,80	12,00	5	0,026	0,021	✔	35,50 €	
G0.8-25	25	20,00	21,60	12,00	5	0,028	0,023	✔	35,90 €	
G0.8-26	26	20,80	22,40	12,00	5	0,030	0,024	-	36,29 €	
G0.8-27	27	21,60	23,20	12,00	5	0,032	0,027	-	36,60 €	
G0.8-28	28	22,40	24,00	12,00	5	0,034	0,029	-	36,77 €	
G0.8-29	29	23,20	24,80	12,00	5	0,037	0,031	-	37,06 €	
G0.8-30	30	24,00	25,60	16,00	6	0,043	0,032	✔	37,37 €	
G0.8-31	31	24,80	26,40	16,00	6	0,045	0,035	-	37,39 €	
G0.8-32	32	25,60	27,20	16,00	6	0,048	0,037	✔	37,46 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	PG		Price each 1 to 5 G	PG
G0.8-33	33	26,40	28,00	16,00	6	0,050	0,040	-	37,62 €	
G0.8-34	34	27,20	28,80	16,00	6	0,053	0,042	-	37,64 €	
G0.8-35	35	28,00	29,60	16,00	6	0,056	0,045	-	37,68 €	
G0.8-36	36	28,80	30,40	16,00	6	0,058	0,048	✔	37,80 €	
G0.8-37	37	29,60	31,20	16,00	6	0,061	0,050	-	37,88 €	
G0.8-38	38	30,40	32,00	16,00	6	0,064	0,053	-	38,00 €	
G0.8-39	39	31,20	32,80	16,00	6	0,067	0,056	-	38,00 €	
G0.8-40	40	32,00	33,60	16,00	6	0,070	0,059	✔	38,29 €	
G0.8-41	41	32,80	34,40	16,00	6	0,073	0,062	-	38,32 €	
G0.8-42	42	33,60	35,20	16,00	6	0,076	0,066	-	38,41 €	
G0.8-43	43	34,40	36,00	16,00	6	0,080	0,069	-	38,47 €	
G0.8-44	44	35,20	36,80	16,00	6	0,083	0,072	✔	38,53 €	
G0.8-45	45	36,00	37,60	16,00	6	0,086	0,076	-	38,65 €	
G0.8-46	46	36,80	38,40	16,00	6	0,090	0,079	-	38,82 €	
G0.8-47	47	37,60	39,20	16,00	6	0,093	0,083	-	38,92 €	
G0.8-48	48	38,40	40,00	16,00	6	0,097	0,086	-	39,05 €	
G0.8-49	49	39,20	40,80	16,00	6	0,101	0,090	-	39,14 €	
G0.8-50	50	40,00	41,60	16,00	6	0,105	0,094	✔	39,21 €	
G0.8-51	51	40,80	42,40	16,00	6	0,108	0,098	-	39,47 €	
G0.8-52	52	41,60	43,20	16,00	6	0,112	0,102	-	36,68 €	
G0.8-53	53	42,40	44,00	16,00	6	0,116	0,106	-	39,78 €	
G0.8-54	54	43,20	44,80	16,00	6	0,121	0,110	-	39,97 €	
G0.8-55	55	44,00	45,60	16,00	6	0,125	0,114	-	40,11 €	
G0.8-56	56	44,80	46,40	16,00	6	0,129	0,118	-	40,29 €	
G0.8-57	57	45,60	47,20	16,00	6	0,133	0,123	-	40,50 €	
G0.8-58	58	46,40	48,00	16,00	6	0,138	0,127	-	40,59 €	
G0.8-59	59	47,20	48,80	16,00	6	0,142	0,132	-	40,84 €	
G0.8-60	60	48,00	49,60	16,00	8	0,144	0,135	✔	41,04 €	
G0.8-61	61	48,80	50,40	16,00	8	0,149	0,139	-	41,17 €	
G0.8-62	62	49,60	51,20	16,00	8	0,153	0,144	-	41,38 €	
G0.8-63	63	50,40	52,00	16,00	8	0,158	0,149	✔	41,47 €	
G0.8-64	64	51,20	52,80	16,00	8	0,163	0,154	-	On request	
G0.8-66	66	52,80	54,40	16,00	8	0,173	0,164	-	41,85 €	
G0.8-68	68	54,40	56,00	16,00	8	0,183	0,174	-	42,04 €	
G0.8-70	70	56,00	57,60	16,00	8	0,194	0,185	-	42,36 €	
G0.8-75	75	60,00	61,60	16,00	8	0,222	0,213	-	42,88 €	
G0.8-76	76	60,80	62,40	16,00	8	0,228	0,218	-	43,99 €	
G0.8-80	80	64,00	65,60	16,00	8	0,252	0,242	-	45,16 €	
G0.8-86	86	68,80	70,40	16,00	8	0,290	0,281	-	45,92 €	
G0.8-88	88	70,40	72,00	16,00	8	0,303	0,294	-	46,58 €	
G0.8-90	90	72,00	73,60	20,00	8	0,324	0,308	✔	47,57 €	
G0.8-96	96	76,80	78,40	20,00	8	0,367	0,351	-	48,46 €	
G0.8-100	100	80,00	81,60	20,00	8	0,397	0,381	✔	53,04 €	
G0.8-112	112	89,60	91,20	20,00	8	0,495	0,479	-	61,50 €	
G0.8-120	120	96,00	97,60	20,00	8	0,566	0,550	-	70,02 €	
G0.8-127	127	101,60	103,20	25,00	10	0,633	0,617	-	84,12 €	
G0.8-128	128	102,40	104,00	25,00	10	0,653	0,626	-	86,78 €	
G0.8-140	140	112,00	113,60	25,00	10	0,777	0,750	-	91,63 €	
G0.8-150	150	120,00	121,60	25,00	12	0,889	0,862	-	106,02 €	
↓				Gears available up to this size						
G0.8-173	173	138,40	140,00	Dimensions : contact us						

On request

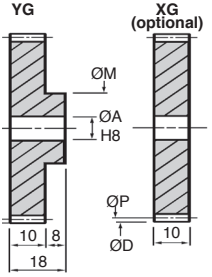
*Depending on availability - Dimensions in mm

HEAVY DUTY spur gear

Module 0.8

Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*



Options

- *Material :*
  20NCD2 case-hardened

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	**35NCD6** *hardened*	*20NCD2*	*20NCD2 hardened*
Nm	**4.000**	*5.800*	*4.000*	*11.000*
kW	**0.418**	*0.612*	*0.418*	*1.119*

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Stock*	Price each 1 to 5 YG	Price each 1 to 5 XG
YG0.8-12	12	9,60	11,20	11,20	5	0,011	0,004	-	On request	On request
YG0.8-13	13	10,40	12,00	12,40	5	0,014	0,005	✔	36,98 €	
YG0.8-14	14	11,20	12,80	12,80	5	0,015	0,006	-	37,68 €	
YG0.8-15	15	12,00	13,60	13,60	5	0,017	0,007	✔	38,65 €	
YG0.8-16	16	12,80	14,40	14,00	5	0,019	0,008	-	39,63 €	
YG0.8-17	17	13,60	15,20	14,00	5	0,020	0,010	-	40,84 €	
YG0.8-18	18	14,40	16,00	14,00	5	0,022	0,011	✔	41,68 €	
YG0.8-19	19	15,20	16,80	14,00	5	0,023	0,012	-	42,22 €	
YG0.8-20	20	16,00	17,60	14,00	5	0,025	0,014	✔	42,67 €	
YG0.8-21	21	16,80	18,40	14,00	5	0,026	0,015	-	42,91 €	
YG0.8-22	22	17,60	19,20	14,00	5	0,028	0,017	-	43,52 €	
YG0.8-23	23	18,40	20,00	14,00	5	0,030	0,019	-	43,99 €	
YG0.8-24	24	19,20	20,80	14,00	5	0,031	0,021	-	44,22 €	
YG0.8-25	25	20,00	21,60	14,00	5	0,033	0,023	✔	44,81 €	
YG0.8-26	26	20,80	22,40	14,00	5	0,035	0,024	-	45,22 €	
YG0.8-27	27	21,60	23,20	14,00	5	0,037	0,027	-	45,62 €	
YG0.8-28	28	22,40	24,00	14,00	5	0,039	0,029	-	45,92 €	
YG0.8-29	29	23,20	24,80	14,00	5	0,042	0,031	-	46,22 €	
YG0.8-30	30	24,00	25,60	20,00	6	0,054	0,032	✔	46,48 €	
YG0.8-31	31	24,80	26,40	20,00	6	0,056	0,035	-	46,58 €	
YG0.8-33	33	26,40	28,00	20,00	6	0,061	0,040	-	47,01 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Stock*	Price each 1 to 5 YG	Price each 1 to 5 XG
YG0.8-34	34	27,20	28,80	20,00	6	0,063	0,042	-	47,03 €	
YG0.8-35	35	28,00	29,60	20,00	6	0,066	0,045	✔	47,13 €	
YG0.8-36	36	28,80	30,40	20,00	6	0,069	0,048	-	47,18 €	
YG0.8-37	37	29,60	31,20	20,00	6	0,072	0,050	-	47,29 €	
YG0.8-38	38	30,40	32,00	20,00	6	0,075	0,053	✔	47,44 €	
YG0.8-39	39	31,20	32,80	20,00	6	0,078	0,056	-	47,54 €	
YG0.8-40	40	32,00	33,60	20,00	6	0,081	0,059	✔	47,57 €	
YG0.8-41	41	32,80	34,40	20,00	6	0,084	0,062	-	47,67 €	
YG0.8-42	42	33,60	35,20	20,00	6	0,087	0,066	-	47,76 €	
YG0.8-43	43	34,40	36,00	20,00	6	0,090	0,069	-	47,84 €	
YG0.8-44	44	35,20	36,80	20,00	6	0,093	0,072	-	48,08 €	
YG0.8-45	45	36,00	37,60	20,00	6	0,097	0,076	-	48,30 €	
YG0.8-46	46	36,80	38,40	20,00	6	0,100	0,079	-	48,47 €	
YG0.8-47	47	37,60	39,20	20,00	6	0,104	0,083	-	48,55 €	
YG0.8-48	48	38,40	40,00	20,00	6	0,108	0,086	-	48,76 €	
YG0.8-49	49	39,20	40,80	20,00	6	0,111	0,090	-	48,79 €	
YG0.8-50	50	40,00	41,60	20,00	6	0,115	0,094	✔	48,83 €	
YG0.8-51	51	40,80	42,40	20,00	6	0,119	0,098	-	49,24 €	
YG0.8-52	52	41,60	43,20	20,00	6	0,123	0,102	-	49,43 €	
YG0.8-53	53	42,40	44,00	20,00	6	0,127	0,106	-	49,58 €	
YG0.8-54	54	43,20	44,80	20,00	6	0,131	0,110	-	49,78 €	
YG0.8-55	55	44,00	45,60	20,00	6	0,135	0,114	-	50,09 €	
YG0.8-56	56	44,80	46,40	20,00	6	0,140	0,118	-	50,21 €	
YG0.8-57	57	45,60	47,20	20,00	6	0,144	0,123	-	50,57 €	
YG0.8-58	58	46,40	48,00	20,00	6	0,148	0,127	-	50,71 €	
YG0.8-59	59	47,20	48,80	20,00	6	0,153	0,132	-	50,86 €	
YG0.8-60	60	48,00	49,60	20,00	6	0,157	0,136	-	51,09 €	
YG0.8-61	61	48,80	50,40	20,00	6	0,162	0,141	-	51,37 €	
YG0.8-62	62	49,60	51,20	20,00	6	0,167	0,146	-	51,58 €	
YG0.8-63	63	50,40	52,00	20,00	6	0,172	0,151	-	51,88 €	
YG0.8-64	64	51,20	52,80	20,00	6	0,177	0,155	-	52,05 €	
YG0.8-66	66	52,80	54,40	30,00	8	0,210	0,164	-	52,16 €	
YG0.8-68	68	54,40	56,00	40,00	8	0,254	0,174	-	52,44 €	
YG0.8-70	70	56,00	57,60	40,00	8	0,265	0,185	-	52,85 €	
YG0.8-75	75	60,00	61,60	40,00	8	0,293	0,213	-	53,51 €	
YG0.8-76	76	60,80	62,40	40,00	8	0,299	0,218	✔	54,72 €	
YG0.8-80	80	64,00	65,60	40,00	8	0,323	0,242	-	56,33 €	
YG0.8-86	86	68,80	70,40	40,00	8	0,361	0,281	-	57,11 €	
YG0.8-88	88	70,40	72,00	40,00	8	0,374	0,294	-	58,13 €	
YG0.8-90	90	72,00	73,60	40,00	8	0,388	0,308	-	59,33 €	
YG0.8-96	96	76,80	78,40	40,00	8	0,431	0,351	-	60,29 €	
YG0.8-100	100	80,00	81,60	40,00	8	0,461	0,381	✔	66,20 €	
YG0.8-112	112	89,60	91,20	40,00	8	0,559	0,479	-	76,81 €	
YG0.8-120	120	96,00	97,60	40,00	8	0,630	0,550	-	87,27 €	
YG0.8-127	127	101,60	103,20	40,00	10	0,697	0,617	-	104,81 €	
YG0.8-128	128	102,40	104,00	50,00	10	0,750	0,624	-	108,20 €	
YG0.8-140	140	112,00	113,60	50,00	10	0,873	0,748	-	114,34 €	
YG0.8-150	150	120,00	121,60	50,00	12	0,985	0,859	-	132,17 €	
↓	Gears available up to this size									
YG0.8-173	173	138,40	140,00	Dimensions : contact us						

On request

*Depending on availability - Dimensions in mm

MINIMUM ORDER 20€*

€ VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

CAD FILES STEP, IGES...

1,2,3 PRODUCTS SOLD INDIVIDUALLY

€ VOLUME DISCOUNT

MADE TO MEASURE AVAILABLE

FREE CATALOGUES

FREE DELIVREY FOR ORDERS 100€* OR MORE

CAD FILES STEP, IGES...

1,2,3 PRODUCTS SOLD INDIVIDUALLY

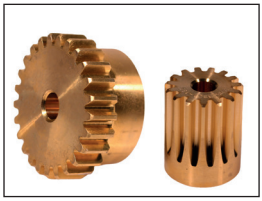
FAST QUOTES & ORDERS

€ VOLUME DISCOUNT

* Certain conditions apply - Deliveries to mainland France only

Brass CuZn39Pb3

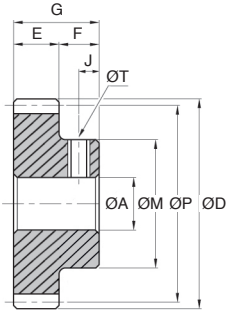
Module 0,8



- ***Spur gear with JIS grade 8teeth (JISB1702-1:1998)***
- *Pressure angle 20°*
- *Material:*
  Brass CuZn39Pb3 (C6304)

Info

- **Torque (bending strength)*



DISCOUNTS

Qty	1+	6+	10+
Disc.	Price	-12%	On request

Part number	Teeth Z	ØP	ØD	ØM	ØA (H7)	E	F	G	ØT	J	Torque* (Nm)	Weight (kg)	Price each 1 to 5
GB0.8-15-RA04T	15	12,0	13,6	9,0	4	4	8	12	M3	4	0,20	0,007	On request
GB0.8-16-RA04T	16	12,8	14,4	10,0	4	4	8	12	M3	4	0,22	0,008	On request
GB0.8-20-RA05	20	16,0	17,6	13,5	5	4	8	12	-	-	0,31	0,014	30,36 €
GB0.8-20-RA04T	20	16,0	17,6	12,0	4	4	8	12	M3	4	0,31	0,013	On request
GB0.8-24-RA05T	24	19,2	20,8	16,0	5	4	8	12	M4	4	0,40	0,021	37,74 €
GB0.8-25-RA05	25	20,0	21,6	17,0	5	4	8	12	-	-	0,43	0,024	37,38 €
GB0.8-30-RA04T	30	24,0	25,6	20,0	4	4	8	12	M3	4	0,55	0,035	45,35 €
GB0.8-30-RA05	30	24,0	25,6	20,0	5	4	8	12	-	-	0,55	0,034	43,39 €
GB0.8-40-RA05	40	32,0	33,6	20,0	5	4	8	12	-	-	0,79	0,046	55,17 €

Dimensions in mm

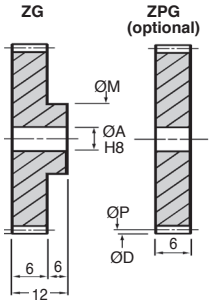
Plastic spur gear

Module 0.8

Machined Delrin

- ***Machined parts***
- *Quality standard 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**0.3**



DISCOUNTS

Qty.	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.8-12	12	9,60	11,20	11,20	3	0,0012	0,0005	14,42 €	On request
ZG0.8-13	13	10,40	12,00	12,00	3	0,0014	0,0006	14,89 €	
ZG0.8-14	14	11,20	12,80	12,80	3	0,0016	0,0007	15,09 €	
ZG0.8-15	15	12,00	13,60	13,60	3	0,0019	0,0008	15,57 €	
ZG0.8-16	16	12,80	14,40	14,40	3	0,0021	0,0009	15,87 €	
ZG0.8-17	17	13,60	15,20	15,20	3	0,0024	0,0011	16,27 €	
ZG0.8-18	18	14,40	16,00	14,00	4	0,0023	0,0012	16,80 €	
ZG0.8-19	19	15,20	16,80	14,00	4	0,0024	0,0013	16,90 €	
ZG0.8-20	20	16,00	17,60	14,00	4	0,0025	0,0015	17,08 €	
ZG0.8-21	21	16,80	18,40	14,00	4	0,0027	0,0016	17,23 €	
ZG0.8-22	22	17,60	19,20	14,00	4	0,0029	0,0018	17,48 €	
ZG0.8-23	23	18,40	20,00	14,00	4	0,0030	0,0020	17,65 €	
ZG0.8-24	24	19,20	20,80	14,00	4	0,0032	0,0021	17,73 €	
ZG0.8-25	25	20,00	21,60	14,00	4	0,0034	0,0023	17,88 €	
ZG0.8-26	26	20,80	22,40	14,00	4	0,0036	0,0025	18,17 €	
ZG0.8-27	27	21,60	23,20	14,00	4	0,0038	0,0027	18,38 €	
ZG0.8-28	28	22,40	24,00	14,00	4	0,0040	0,0029	18,42 €	
ZG0.8-29	29	23,20	24,80	14,00	4	0,0043	0,0032	18,54 €	
ZG0.8-30	30	24,00	25,60	15,00	5	0,0046	0,0033	18,70 €	
ZG0.8-31	31	24,80	26,40	15,00	5	0,0048	0,0036	18,70 €	

Dimensions in mm

DISCOUNTS

Qty.	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.8-32	32	25,60	27,20	15,00	5	0,0050	0,0038	18,76 €	
ZG0.8-33	33	26,40	28,00	15,00	5	0,0053	0,0041	18,76 €	
ZG0.8-34	34	27,20	28,80	15,00	5	0,0055	0,0043	18,76 €	
ZG0.8-35	35	28,00	29,60	15,00	5	0,0058	0,0046	18,91 €	
ZG0.8-36	36	28,80	30,40	15,00	5	0,0061	0,0049	20,86 €	
ZG0.8-38	38	30,40	32,00	15,00	5	0,0067	0,0054	21,03 €	
ZG0.8-39	39	31,20	32,80	15,00	5	0,0070	0,0057	21,03 €	
ZG0.8-40	40	32,00	33,60	15,00	5	0,0073	0,0061	21,14 €	
ZG0.8-41	41	32,80	34,40	15,00	5	0,0076	0,0064	21,14 €	
ZG0.8-42	42	33,60	35,20	15,00	5	0,0079	0,0067	21,14 €	
ZG0.8-43	43	34,40	36,00	15,00	5	0,0082	0,0070	21,16 €	
ZG0.8-44	44	35,20	36,80	15,00	5	0,0086	0,0074	21,16 €	
ZG0.8-45	45	36,00	37,60	15,00	5	0,0089	0,0077	21,35 €	
ZG0.8-46	46	36,80	38,40	15,00	5	0,0093	0,0081	21,35 €	
ZG0.8-47	47	37,60	39,20	15,00	5	0,0096	0,0084	21,53 €	
ZG0.8-48	48	38,40	40,00	15,00	5	0,0100	0,0088	24,52 €	
ZG0.8-49	49	39,20	40,80	15,00	5	0,0104	0,0092	24,52 €	
ZG0.8-50	50	40,00	41,60	15,00	5	0,0108	0,0095	24,52 €	
ZG0.8-51	51	40,80	42,40	15,00	5	0,0111	0,0099	24,81 €	
ZG0.8-52	52	41,60	43,20	15,00	5	0,0115	0,0103	24,85 €	
ZG0.8-53	53	42,40	44,00	15,00	5	0,0120	0,0107	25,02 €	
ZG0.8-54	54	43,20	44,80	15,00	5	0,0124	0,0112	25,12 €	
ZG0.8-55	55	44,00	45,60	15,00	5	0,0128	0,0116	25,26 €	
ZG0.8-57	57	45,60	47,20	18,00	6	0,0141	0,0124	25,38 €	
ZG0.8-58	58	46,40	48,00	18,00	6	0,0146	0,0128	25,48 €	
ZG0.8-59	59	47,20	48,80	18,00	6	0,0150	0,0133	25,68 €	
ZG0.8-60	60	48,00	49,60	18,00	6	0,0155	0,0137	25,72 €	
ZG0.8-61	61	48,80	50,40	18,00	6	0,0160	0,0142	31,13 €	
ZG0.8-62	62	49,60	51,20	18,00	6	0,0164	0,0147	31,28 €	
ZG0.8-63	63	50,40	52,00	18,00	6	0,0169	0,0152	31,32 €	
ZG0.8-64	64	51,20	52,80	18,00	6	0,0174	0,0157	31,51 €	
ZG0.8-66	66	52,80	54,40	18,00	6	0,0184	0,0167	31,62 €	
ZG0.8-68	68	54,40	56,00	18,00	6	0,0195	0,0177	31,77 €	
ZG0.8-70	70	56,00	57,60	18,00	6	0,0205	0,0188	On request	
ZG0.8-75	75	60,00	61,60	18,00	6	0,0233	0,0216	36,77 €	
ZG0.8-76	76	60,80	62,40	18,00	6	0,0239	0,0222	38,65 €	
ZG0.8-80	80	64,00	65,60	18,00	6	0,0263	0,0246	39,22 €	
ZG0.8-86	86	68,80	70,40	18,00	6	0,0302	0,0285	40,00 €	
ZG0.8-88	88	70,40	72,00	18,00	6	0,0316	0,0298	40,71 €	
ZG0.8-90	90	72,00	73,60	22,00	6	0,0339	0,0312	40,71 €	
ZG0.8-96	96	76,80	78,40	22,00	6	0,0382	0,0355	44,02 €	
ZG0.8-100	100	80,00	81,60	22,00	8	0,0413	0,0386	48,08 €	
ZG0.8-112	112	89,60	91,20	22,00	8	0,0511	0,0484	62,18 €	
ZG0.8-120	120	96,00	97,60	30,00	10	0,0583	0,0556	70,62 €	
ZG0.8-140	140	112,00	113,60	30,00	10	0,0785	0,0758	83,27 €	
ZG0.8-150	150	120,00	121,60	30,00	12	0,0898	0,0870	102,52 €	
↓	Gears available up to this size								
ZG0.8-173	**173**	**138,40**	**140,00**	**Dimensions : contact us**					

On request

Dimensions in mm

Steel spur gear economy range

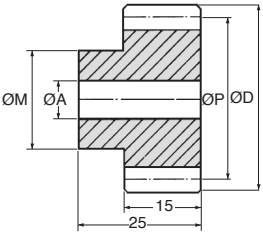
Module 1,0

C45 steel

- **Economy range of gears**
- Pressure angle 20°
- Material:
  C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each 1 to 5
G1-12/ECO	12	12	14	9	5	0,010	✔	2,69 €
G1-13/ECO	13	13	15	10	5	0,020	-	2,69 €
G1-14/ECO	14	14	16	10	6	0,020	✔	2,81 €
G1-15/ECO	15	15	17	12	6	0,020	✔	2,81 €
G1-16/ECO	16	16	18	13	6	0,030	✔	2,98 €
G1-17/ECO	17	17	19	14	8	0,030	-	3,04 €
G1-18/ECO	18	18	20	15	8	0,030	✔	3,04 €
G1-19/ECO	19	19	21	15	8	0,040	-	3,20 €
G1-20/ECO	20	20	22	16	8	0,040	✔	3,31 €
G1-21/ECO	21	21	23	16	8	0,050	-	3,31 €
G1-22/ECO	22	22	24	18	8	0,050	✔	3,36 €
G1-23/ECO	23	23	25	18	8	0,060	-	3,50 €
G1-24/ECO	24	24	26	20	8	0,060	✔	3,92 €
G1-25/ECO	25	25	27	20	8	0,070	✔	3,96 €
G1-26/ECO	26	26	28	20	8	0,070	✔	3,97 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each 1 to 5
G1-27/ECO	27	27	29	20	8	0,080	✔	3,98 €
G1-28/ECO	28	28	30	20	8	0,080	✔	4,46 €
G1-29/ECO	29	29	31	20	8	0,090	-	4,52 €
G1-30/ECO	30	30	32	20	8	0,090	✔	4,69 €
G1-31/ECO	31	31	33	25	10	0,110	-	4,91 €
G1-32/ECO	32	32	34	25	10	0,120	✔	5,06 €
G1-33/ECO	33	33	35	25	10	0,120	✔	4,98 €
G1-34/ECO	34	34	36	25	10	0,130	-	5,31 €
G1-35/ECO	35	35	37	25	10	0,140	✔	5,30 €
G1-36/ECO	36	36	38	25	10	0,140	✔	5,78 €
G1-37/ECO	37	37	39	25	10	0,150	-	5,80 €
G1-38/ECO	38	38	40	25	10	0,160	✔	6,09 €
G1-39/ECO	39	39	41	25	10	0,160	-	6,01 €
G1-40/ECO	40	40	42	25	10	0,170	✔	6,19 €
G1-41/ECO	41	41	43	30	10	0,190	-	6,50 €
G1-42/ECO	42	42	44	30	10	0,200	✔	6,81 €
G1-43/ECO	43	43	45	30	10	0,210	-	6,91 €
G1-44/ECO	44	44	46	30	10	0,220	✔	6,95 €
G1-45/ECO	45	45	47	30	10	0,230	✔	7,26 €
G1-46/ECO	46	46	48	30	10	0,230	✔	7,77 €
G1-47/ECO	47	47	49	30	10	0,240	-	7,84 €
G1-48/ECO	48	48	50	30	10	0,350	✔	8,18 €
G1-49/ECO	49	49	51	30	10	0,360	-	8,14 €
G1-50/ECO	50	50	52	30	12	0,260	✔	7,95 €
G1-51/ECO	51	51	53	40	12	0,320	-	8,93 €
G1-52/ECO	52	52	54	40	12	0,330	✔	8,79 €
G1-53/ECO	53	53	55	40	12	0,330	✔	8,83 €
G1-54/ECO	54	54	56	40	12	0,340	-	8,87 €
G1-55/ECO	55	55	57	40	12	0,360	✔	9,47 €
G1-56/ECO	56	56	58	40	12	0,370	-	9,89 €
G1-57/ECO	57	57	59	40	12	0,380	-	9,96 €
G1-58/ECO	58	58	60	40	12	0,390	✔	10,00 €
G1-59/ECO	59	59	61	40	12	0,400	-	10,11 €
G1-60/ECO	60	60	62	40	12	0,410	✔	10,49 €
G1-61/ECO	61	61	63	50	12	0,470	-	11,10 €
G1-62/ECO	62	62	64	50	12	0,490	-	11,14 €
G1-63/ECO	63	63	65	50	12	0,500	-	11,20 €
G1-64/ECO	64	64	66	50	12	0,510	✔	11,30 €
G1-65/ECO	65	65	67	50	12	0,520	✔	11,48 €
G1-66/ECO	66	66	68	50	12	0,530	-	12,18 €
G1-67/ECO	67	67	69	50	12	0,550	-	12,22 €
G1-68/ECO	68	68	70	50	12	0,560	-	12,30 €
G1-69/ECO	69	69	71	50	12	0,570	-	12,52 €
G1-70/ECO	70	70	72	50	12	0,580	✔	12,81 €

*Depending on availability - Dimensions in mm

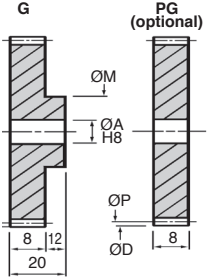
Steel spur gear

Module 1.0

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**2.600**	12	1.25
kW	**0.254**	1.261	0.134



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Stock*	Price each. 1 to 5 G	Price each. 1 to 5 PG
G1-9	9	10,00	12,00	12	6	0,011	0,003	✔	25,75 €	On request
G1-10	10	11,00	13,00	13	6	0,014	0,004	✔	25,75 €	
G1-11	11	12,00	14,00	14	6	0,017	0,005	-	25,75 €	
G1-12	12	12,00	14,00	14	6	0,017	0,005	✔	16,13 €	
G1-13	13	13,00	15,00	15	6	0,020	0,006	-	26,11 €	
G1-14	14	14,00	16,00	15	6	0,021	0,008	✔	26,62 €	
G1-15	15	15,00	17,00	12	8	0,014	0,008	✔	16,95 €	
G1-16	16	16,00	18,00	12	8	0,015	0,009	✔	17,17 €	
G1-17	17	17,00	19,00	12	8	0,017	0,011	✔	28,04 €	
G1-18	18	18,00	20,00	15	8	0,024	0,013	✔	17,98 €	
G1-19	19	19,00	21,00	15	8	0,026	0,014	-	29,10 €	
G1-20	20	20,00	22,00	15	8	0,028	0,016	✔	18,75 €	
G1-21	21	21,00	23,00	15	8	0,030	0,018	-	30,25 €	
G1-22	22	22,00	24,00	15	8	0,032	0,020	✔	24,15 €	
G1-23	23	23,00	25,00	15	8	0,034	0,022	✔	30,85 €	
G1-24	24	24,00	26,00	15	8	0,036	0,025	✔	19,42 €	
G1-25	25	25,00	27,00	15	8	0,039	0,027	✔	20,22 €	
G1-26	26	26,00	28,00	15	8	0,041	0,029	✔	30,85 €	
G1-27	27	27,00	29,00	15	8	0,044	0,032	✔	34,13 €	
G1-28	28	28,00	30,00	15	8	0,046	0,035	✔	34,38 €	
G1-29	29	29,00	31,00	15	8	0,049	0,037	-	35,83 €	
G1-30	30	30,00	32,00	20	8	0,064	0,040	✔	22,82 €	
G1-31	31	31,00	33,00	20	8	0,067	0,043	-	36,88 €	
G1-32	32	32,00	34,00	20	8	0,070	0,046	✔	23,40 €	
G1-33	33	33,00	35,00	20	8	0,074	0,049	-	37,68 €	
G1-34	34	34,00	36,00	20	8	0,077	0,053	✔	38,29 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	PG	Stock*	Price each. 1 to 5 G	PG
G1-35	35	35,00	37,00	20	8	0,080	0,056	-	38,65 €	
G1-36	36	36,00	38,00	20	8	0,083	0,059	✔	24,43 €	
G1-37	37	37,00	39,00	20	8	0,087	0,063	✔	39,55 €	
G1-38	38	38,00	40,00	20	8	0,091	0,066	-	40,21 €	
G1-39	39	39,00	41,00	20	8	0,094	0,070	-	40,95 €	
G1-40	40	40,00	42,00	20	8	0,098	0,074	✔	26,16 €	
G1-41	41	41,00	43,00	20	8	0,102	0,078	-	41,79 €	
G1-42	42	42,00	44,00	20	8	0,106	0,082	✔	41,99 €	
G1-43	43	43,00	45,00	20	8	0,110	0,086	-	42,22 €	
G1-44	44	44,00	46,00	20	8	0,114	0,090	-	42,22 €	
G1-45	45	45,00	47,00	20	8	0,119	0,094	✔	42,51 €	
G1-46	46	46,00	48,00	20	8	0,123	0,099	✔	42,67 €	
G1-47	47	47,00	49,00	20	8	0,127	0,103	-	42,82 €	
G1-48	48	48,00	50,00	20	8	0,132	0,108	✔	42,88 €	
G1-49	49	49,00	51,00	20	8	0,137	0,112	-	45,16 €	
G1-50	50	50,00	52,00	30	10	0,173	0,115	✔	29,72 €	
G1-51	51	51,00	53,00	30	10	0,178	0,120	-	48,06 €	
G1-52	52	52,00	54,00	30	10	0,183	0,125	-	48,76 €	
G1-53	53	53,00	55,00	30	10	0,188	0,130	-	49,35 €	
G1-54	54	54,00	56,00	30	10	0,193	0,135	✔	50,04 €	
G1-55	55	55,00	57,00	30	10	0,198	0,141	-	50,81 €	
G1-56	56	56,00	58,00	30	10	0,204	0,146	✔	50,86 €	
G1-57	57	57,00	59,00	30	10	0,209	0,151	-	51,70 €	
G1-58	58	58,00	60,00	30	10	0,215	0,157	-	52,34 €	
G1-59	59	59,00	61,00	30	10	0,220	0,163	-	52,95 €	
G1-60	60	60,00	62,00	30	10	0,226	0,168	✔	33,73 €	
G1-61	61	61,00	63,00	30	10	0,232	0,174	-	54,35 €	
G1-62	62	62,00	64,00	30	10	0,238	0,180	-	55,32 €	
G1-63	63	63,00	65,00	30	10	0,244	0,186	-	On request	
G1-64	64	64,00	66,00	30	10	0,250	0,192	✔	57,96 €	
G1-65	65	65,00	67,00	30	10	0,256	0,198	✔	59,31 €	
G1-66	66	66,00	68,00	30	10	0,262	0,205	-	60,54 €	
G1-68	68	68,00	70,00	30	10	0,275	0,218	✔	62,82 €	
G1-70	70	70,00	72,00	30	10	0,288	0,231	✔	63,70 €	
G1-72	72	72,00	74,00	30	10	0,302	0,244	✔	64,99 €	
G1-73	73	73,00	75,00	30	10	0,309	0,251	-	66,76 €	
G1-74	74	74,00	76,00	30	10	0,316	0,258	-	68,50 €	
G1-76	76	76,00	78,00	30	10	0,331	0,273	-	69,36 €	
G1-78	78	78,00	80,00	30	10	0,345	0,288	-	70,46 €	
G1-80	80	80,00	82,00	30	10	0,361	0,303	✔	71,89 €	
G1-84	84	84,00	86,00	30	10	0,392	0,334	-	72,89 €	
G1-88	88	88,00	90,00	30	10	0,425	0,368	-	74,51 €	
G1-90	90	90,00	92,00	30	10	0,442	0,385	✔	76,81 €	
G1-96	96	96,00	98,00	30	10	0,496	0,438	✔	85,01 €	
G1-100	100	100,00	102,00	30	10	0,534	0,476	✔	86,22 €	
G1-112	112	112,00	114,00	30	10	0,656	0,598	-	107,89 €	
G1-120	120	120,00	122,00	30	12	0,745	0,688	✔	121,97 €	
G1-130	130	130,00	132,00	30	12	0,865	0,808	-	138,38 €	
G1-150	150	150,00	152,00	40	15	1,135	1,077	✔	162,39 €	
↓	Gears available up to this size									
G1-590	590	590,00	592,00	Dimensions : contact us						

On request

*Depending on availability - Dimensions in mm

HEAVY DUTY spur gear

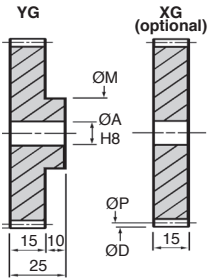
Module 1.0

Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*

Options

- *Material :*
  20NCD2 case-hardened



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	**10.600**	*15.500*	*10.600*	*29.300*
kW	**1.119**	*1.626*	*1.119*	*3.074*

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG		Price each. 1 to 5 YG	Price each. 1 to 5 XG
YG1-9	9	10,00	12,00	12	6	0,017	0,006	-	32,05 €	On request
YG1-10	10	11,00	13,00	13	6	0,020	0,008	✔	32,05 €	
YG1-11	11	12,00	14,00	14	6	0,024	0,010	-	32,05 €	
YG1-12	12	12,00	14,00	14	6	0,024	0,010	✔	32,05 €	
YG1-13	13	13,00	15,00	15	6	0,028	0,012	-	32,58 €	
YG1-14	14	14,00	16,00	16	6	0,032	0,014	✔	33,33 €	
YG1-15	15	15,00	17,00	17	6	0,037	0,017	✔	33,77 €	
YG1-16	16	16,00	18,00	18	8	0,041	0,017	-	34,40 €	
YG1-17	17	17,00	19,00	18	8	0,044	0,020	-	On request	
YG1-18	18	18,00	20,00	18	8	0,047	0,023	-	35,76 €	
YG1-19	19	19,00	21,00	18	8	0,051	0,027	-	36,35 €	
YG1-20	20	20,00	22,00	20	8	0,059	0,030	✔	37,62 €	
YG1-21	21	21,00	23,00	20	8	0,063	0,034	-	37,88 €	
YG1-22	22	22,00	24,00	20	8	0,066	0,038	✔	38,29 €	
YG1-23	23	23,00	25,00	20	8	0,071	0,042	-	38,41 €	
YG1-24	24	24,00	26,00	20	8	0,075	0,046	✔	38,79 €	
YG1-25	25	25,00	27,00	20	8	0,079	0,051	✔	40,29 €	
YG1-26	26	26,00	28,00	25	8	0,097	0,055	-	41,68 €	
YG1-27	27	27,00	29,00	25	8	0,102	0,060	-	42,62 €	
YG1-28	28	28,00	30,00	25	8	0,107	0,065	✔	43,62 €	
YG1-29	29	29,00	31,00	25	8	0,112	0,070	-	44,65 €	
YG1-30	30	30,00	32,00	25	8	0,117	0,075	✔	45,45 €	
YG1-31	31	31,00	33,00	25	8	0,123	0,081	-	45,95 €	
YG1-32	32	32,00	34,00	25	8	0,129	0,087	✔	46,48 €	
YG1-33	33	33,00	35,00	25	8	0,135	0,092	-	47,13 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG		Price each. 1 to 5 YG	XG
YG1-34	34	34,00	36,00	25	8	0,141	0,098	✔	47,57 €	
YG1-35	35	35,00	37,00	25	8	0,147	0,105	-	48,30 €	
YG1-36	36	36,00	38,00	30	8	0,170	0,111	-	On request	
YG1-37	37	37,00	39,00	30	8	0,176	0,118	-	49,27 €	
YG1-38	38	38,00	40,00	30	8	0,183	0,124	-	50,19 €	
YG1-39	39	39,00	41,00	30	8	0,190	0,131	-	51,04 €	
YG1-40	40	40,00	42,00	30	8	0,197	0,138	✔	51,88 €	
YG1-41	41	41,00	43,00	30	8	0,204	0,146	-	52,11 €	
YG1-42	42	42,00	44,00	30	8	0,212	0,153	✔	52,34 €	
YG1-43	43	43,00	45,00	30	8	0,220	0,161	-	52,49 €	
YG1-44	44	44,00	46,00	30	8	0,227	0,169	-	52,85 €	
YG1-45	45	45,00	47,00	30	8	0,235	0,177	-	53,04 €	
YG1-46	46	46,00	48,00	30	8	0,244	0,185	-	53,16 €	
YG1-47	47	47,00	49,00	30	8	0,252	0,193	-	53,43 €	
YG1-48	48	48,00	50,00	30	8	0,261	0,202	-	53,51 €	
YG1-49	49	49,00	51,00	30	8	0,269	0,211	-	56,33 €	
YG1-50	50	50,00	52,00	35	10	0,297	0,216	✔	59,02 €	
YG1-51	51	51,00	53,00	35	10	0,307	0,225	-	59,97 €	
YG1-52	52	52,00	54,00	35	10	0,316	0,235	✔	60,73 €	
YG1-53	53	53,00	55,00	35	10	0,325	0,244	-	61,63 €	
YG1-54	54	54,00	56,00	35	10	0,335	0,254	-	On request	
YG1-55	55	55,00	57,00	35	10	0,345	0,264	-	63,34 €	
YG1-56	56	56,00	58,00	35	10	0,355	0,274	✔	63,45 €	
YG1-57	57	57,00	59,00	35	10	0,365	0,284	-	64,36 €	
YG1-58	58	58,00	60,00	35	10	0,375	0,294	-	65,32 €	
YG1-59	59	59,00	61,00	35	10	0,386	0,305	-	66,10 €	
YG1-60	60	60,00	62,00	35	10	0,397	0,316	✔	66,82 €	
YG1-61	61	61,00	63,00	35	10	0,406	0,326	-	67,83 €	
YG1-62	62	62,00	64,00	35	10	0,419	0,338	-	69,00 €	
YG1-63	63	63,00	65,00	35	10	0,430	0,349	-	71,05 €	
YG1-64	64	64,00	66,00	35	10	0,441	0,360	-	72,35 €	
YG1-65	65	65,00	67,00	35	10	0,453	0,372	-	73,99 €	
YG1-66	66	66,00	68,00	35	10	0,465	0,384	-	75,53 €	
YG1-68	68	68,00	70,00	35	10	0,489	0,408	-	77,75 €	
YG1-70	70	70,00	72,00	35	10	0,514	0,433	✔	79,33 €	
YG1-72	72	72,00	74,00	35	10	0,539	0,458	-	81,05 €	
YG1-73	73	73,00	75,00	35	10	0,553	0,471	-	84,38 €	
YG1-74	74	74,00	76,00	45	10	0,614	0,485	-	85,27 €	
YG1-76	76	76,00	78,00	45	10	0,641	0,512	-	86,42 €	
YG1-78	78	78,00	80,00	45	10	0,669	0,539	-	87,77 €	
YG1-80	80	80,00	82,00	45	10	0,697	0,568	✔	89,55 €	
YG1-84	84	84,00	86,00	45	10	0,756	0,627	-	90,88 €	
YG1-88	88	88,00	90,00	45	10	0,818	0,689	-	93,02 €	
YG1-90	90	90,00	92,00	45	10	0,850	0,721	-	95,68 €	
YG1-96	96	96,00	98,00	45	10	0,951	0,822	-	106,06 €	
YG1-100	100	100,00	102,00	45	10	1,022	0,892	✔	107,44 €	
YG1-112	112	112,00	114,00	45	10	1,251	1,122	-	123,59 €	
YG1-120	120	120,00	122,00	45	12	1,418	1,289	✔	152,14 €	
YG1-130	130	130,00	132,00	45	12	1,644	1,515	-	172,73 €	
YG1-150	150	150,00	152,00	45	15	2,149	2,019	-	202,41 €	
↓	Gears available up to this size								↓	
YG1-590	590	590,00	592,00	Dimensions : contact us					On request	

On request

*Depending on availability - Dimensions in mm

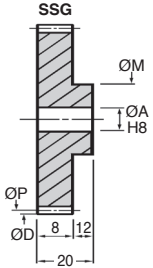
Stainless steel spur gear

Module 1.0

304L stainless steel

- ***Quality standard 9***
- *Pressure angle 20°*

Torque and power indication For 50 teeth at 1000 rpm		
	StS 304L	*brass*
Nm	**2.600**	*1.250*
kW	**0.254**	*0.134*



stainless steel

DISCOUNTS

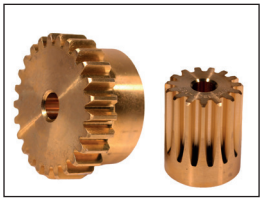
Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA		Price each 1 to 5
SSG1-12-304L	12	12	14	14	6	✔	39,23 €
SSG1-15-304L	15	15	17	12	8	✔	40,23 €
SSG1-16-304L	16	16	18	12	8	✔	42,38 €
SSG1-18-304L	18	18	20	15	8	✔	43,70 €
SSG1-20-304L	20	20	22	15	8	✔	43,84 €
SSG1-22-304L	22	22	24	15	8	-	45,56 €
SSG1-24-304L	24	24	26	15	8	✔	45,74 €
SSG1-25-304L	25	25	27	15	8	✔	46,75 €
SSG1-26-304L	26	26	28	15	8	-	48,76 €
SSG1-28-304L	28	28	30	15	8	✔	50,69 €
SSG1-30-304L	30	30	32	20	8	-	47,42 €
SSG1-32-304L	32	32	34	20	8	-	56,11 €
SSG1-36-304L	36	36	38	20	8	✔	63,32 €
SSG1-40-304L	40	40	42	20	8	-	68,72 €
SSG1-44-304L	44	44	46	20	8	-	73,81 €
SSG1-48-304L	48	48	50	20	8	-	78,59 €
SSG1-50-304L	50	50	52	30	10	✔	84,12 €
SSG1-54-304L	54	54	56	30	10	-	91,53 €
SSG1-56-304L	56	56	58	30	10	-	93,14 €
SSG1-60-304L	60	60	62	30	10	✔	105,11 €
SSG1-64-304L	64	64	66	30	10	-	116,17 €
SSG1-66-304L	66	66	68	30	10	-	133,48 €
SSG1-70-304L	70	70	72	30	10	-	140,51 €
↓	**Gears available up to this size**						
SSG1-590-304L	**590**	**590**	**592**	**Dimensions: contact us**			

**Depending on availability - Dimensions in mm*

Brass CuZn39Pb3

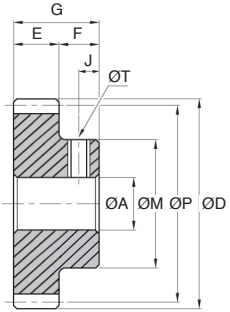
Module 1,0



- ***Spur gear with JIS grade 8teeth (JISB1702-1:1998)***
- *Pressure angle 20°*
- *Material:*
  Brass CuZn39Pb3 (C6304)

Info

- **Torque (bending strength)*



DISCOUNTS

Qty	1+	6+	10+
Disc.	Price	-12%	On request

Part number	Teeth Z	ØP	ØD	ØM	ØA (H7)	E	F	G	ØT	J	Torque* (Nm)	Weight (kg)	Price each 1 to 5
GB1-16-RA05T	16	16	18	12	5	6	8	14	M4	4	0,52	0,015	43,35 €
GB1-18-RA06T	18	18	20	15	6	6	8	14	M4	4	0,62	0,021	44,75 €
GB1-20-RA06T	20	20	22	16	6	6	8	14	M4	4	0,73	0,026	46,50 €
GB1-22-RA06T	22	22	24	18	6	6	8	14	M4	4	0,83	0,033	30,20 €
GB1-24-RA06T	24	24	26	20	6	6	8	14	M4	4	0,94	0,040	30,75 €
GB1-30-RA06T	30	30	32	25	6	6	8	14	M4	4	1,28	0,065	63,01 €
GB1-40-RA06T	40	40	42	28	6	6	8	14	M4	4	1,86	0,100	91,87 €

Dimensions in mm

Plastic spur gear

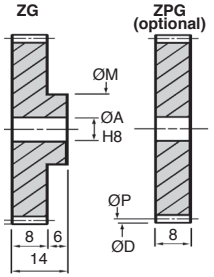
Del Stock

Module 1.0

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**0.7**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG1-9	9	10,00	12,00	12	4	0,0015	0,0007	✔	12,77 €	On request
ZG1-10	10	11,00	13,00	12	4	0,0016	0,0008	✔	12,77 €	
ZG1-11	11	12,00	14,00	12	4	0,0018	0,0010	-	12,77 €	
ZG1-12	12	12,00	14,00	12	4	0,0018	0,0010	✔	12,77 €	
ZG1-13	13	13,00	15,00	12	4	0,0020	0,0012	-	13,13 €	
ZG1-14	14	14,00	16,00	12	4	0,0022	0,0015	✔	13,30 €	
ZG1-15	15	15,00	17,00	12	4	0,0025	0,0017	✔	13,50 €	
ZG1-16	16	16,00	18,00	15	6	0,0029	0,0018	✔	13,86 €	
ZG1-17	17	17,00	19,00	15	6	0,0032	0,0020	-	14,01 €	
ZG1-18	18	18,00	20,00	15	6	0,0035	0,0023	✔	14,36 €	
ZG1-19	19	19,00	21,00	15	6	0,0038	0,0026	-	14,42 €	
ZG1-20	20	20,00	22,00	15	6	0,0041	0,0029	✔	14,98 €	
ZG1-21	21	21,00	23,00	18	6	0,0050	0,0033	-	15,09 €	
ZG1-22	22	22,00	24,00	18	6	0,0054	0,0036	✔	15,34 €	
ZG1-23	23	23,00	25,00	18	6	0,0057	0,0040	-	15,34 €	
ZG1-24	24	24,00	26,00	18	6	0,0061	0,0044	✔	15,57 €	
ZG1-25	25	25,00	27,00	18	6	0,0065	0,0048	✔	16,17 €	
ZG1-26	26	26,00	28,00	18	6	0,0069	0,0052	✔	16,80 €	
ZG1-27	27	27,00	29,00	18	6	0,0073	0,0056	✔	17,08 €	
ZG1-28	28	28,00	30,00	18	6	0,0078	0,0060	-	17,48 €	
ZG1-29	29	29,00	31,00	18	6	0,0082	0,0065	-	17,88 €	
ZG1-30	30	30,00	32,00	18	6	0,0087	0,0070	✔	18,38 €	
ZG1-31	31	31,00	33,00	18	6	0,0092	0,0075	-	20,29 €	
ZG1-32	32	32,00	34,00	18	6	0,0097	0,0080	✔	20,66 €	

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG1-33	33	33,00	35,00	18	6	0,0103	0,0085	✔	20,86 €	
ZG1-34	34	34,00	36,00	18	6	0,0108	0,0090	✔	21,14 €	
ZG1-35	35	35,00	37,00	18	6	0,0114	0,0096	✔	21,35 €	
ZG1-36	36	36,00	38,00	18	6	0,0119	0,0102	✔	21,53 €	
ZG1-38	38	38,00	40,00	18	6	0,0131	0,0114	✔	22,14 €	
ZG1-39	39	39,00	41,00	18	6	0,0137	0,0120	-	25,72 €	
ZG1-40	40	40,00	42,00	18	6	0,0144	0,0126	✔	26,11 €	
ZG1-42	42	42,00	44,00	18	6	0,0157	0,0140	-	26,35 €	
ZG1-43	43	43,00	45,00	18	6	0,0164	0,0146	-	26,62 €	
ZG1-44	44	44,00	46,00	18	6	0,0171	0,0154	-	26,88 €	
ZG1-45	45	45,00	47,00	18	6	0,0178	0,0161	✔	27,05 €	
ZG1-46	46	46,00	48,00	18	6	0,0186	0,0168	✔	27,77 €	
ZG1-47	47	47,00	49,00	18	6	0,0193	0,0176	-	28,89 €	
ZG1-48	48	48,00	50,00	18	6	0,0201	0,0183	✔	32,40 €	
ZG1-50	50	50,00	52,00	22	8	0,0222	0,0197	✔	35,76 €	
ZG1-51	51	51,00	53,00	22	8	0,0230	0,0205	-	36,19 €	
ZG1-52	52	52,00	54,00	22	8	0,0239	0,0213	-	36,93 €	
ZG1-53	53	53,00	55,00	22	8	0,0247	0,0222	-	On request	
ZG1-54	54	54,00	56,00	22	8	0,0256	0,0230	-	37,68 €	
ZG1-55	55	55,00	57,00	22	8	0,0265	0,0239	-	38,47 €	
ZG1-56	56	56,00	58,00	22	8	0,0274	0,0248	-	38,94 €	
ZG1-58	58	58,00	60,00	22	8	0,0292	0,0267	-	39,55 €	
ZG1-59	59	59,00	61,00	22	8	0,0302	0,0276	-	45,34 €	
ZG1-60	60	60,00	62,00	22	8	0,0311	0,0286	✔	45,95 €	
ZG1-61	61	61,00	63,00	22	8	0,0321	0,0295	-	On request	
ZG1-62	62	62,00	64,00	22	8	0,0331	0,0305	-	47,42 €	
ZG1-63	63	63,00	65,00	22	8	0,0341	0,0316	-	48,76 €	
ZG1-64	64	64,00	66,00	22	8	0,0351	0,0326	-	49,65 €	
ZG1-65	65	65,00	67,00	22	8	0,0362	0,0336	-	50,81 €	
ZG1-66	66	66,00	68,00	22	8	0,0372	0,0347	-	51,88 €	
ZG1-68	68	68,00	70,00	22	8	0,0394	0,0368	-	53,43 €	
ZG1-70	70	70,00	72,00	22	8	0,0416	0,0391	✔	54,54 €	
ZG1-72	72	72,00	74,00	22	8	0,0439	0,0414	✔	55,70 €	
ZG1-73	73	73,00	75,00	22	8	0,0451	0,0425	-	57,25 €	
ZG1-74	74	74,00	76,00	22	8	0,0463	0,0437	✔	62,18 €	
ZG1-76	76	76,00	78,00	22	8	0,0487	0,0462	-	63,05 €	
ZG1-78	78	78,00	80,00	22	8	0,0512	0,0486	-	63,93 €	
ZG1-80	80	80,00	82,00	22	8	0,0537	0,0512	✔	65,20 €	
ZG1-84	84	84,00	86,00	22	8	0,0590	0,0565	-	66,17 €	
ZG1-88	88	88,00	90,00	22	8	0,0646	0,0621	-	67,63 €	
ZG1-90	90	90,00	92,00	26	8	0,0686	0,0649	✔	77,45 €	
ZG1-96	96	96,00	98,00	26	8	0,0777	0,0739	-	85,84 €	
ZG1-100	100	100,00	102,00	30	10	0,0840	0,0803	-	84,75 €	
ZG1-112	112	112,00	114,00	30	10	0,1045	0,1008	-	92,56 €	
ZG1-120	120	120,00	122,00	40	12	0,1195	0,1158	-	113,96 €	
ZG1-130	130	130,00	132,00	40	12	0,1397	0,1360	-	135,33 €	
ZG1-140	140	140,00	142,00	40	12	0,1616	0,1579	✔	166,65 €	
↓	Gears available up to this size									
ZG1-400	400	400,00	402,00	Dimensions : contact us						

On request

*Depending on availability - Dimensions in mm

Moulded plastic spur gear

Nyl | € Eco | Stock

Module 1.0

Moulded nylon 6

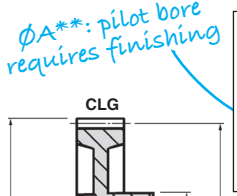
- ***Moulded parts***
- *Pressure angle 20°*
- *Material:*
  Nylon 6, Reinforced with 30% glass fibres

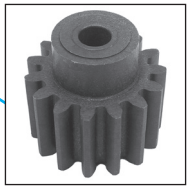
Options

- ***Alternative number of teeth (up to 77)***
- *We are unable to modify these parts. For parts that can be modified to order, please see the* **ZG** *and* **ZPG** *ranges.*

Info

- *Moulded pilot bore must be machined to suit the application*
- ***Pilot bore dimension given as a guide only*





Economy range

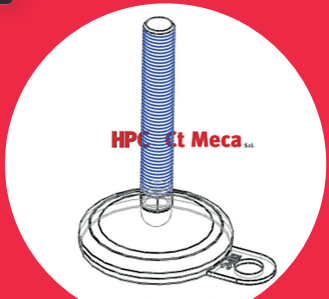
DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Teeth	External ØD	PCD ØP	Boss ØM	Pilot bore ØA**	Stock*	Price each 1 to 9
CLG1-12	12	14	12	9	4	✔	3,06 €
CLG1-15	15	17	15	10	4	✔	3,23 €
CLG1-16	16	18	16	13	5	✔	3,26 €
CLG1-20	20	22	20	16	5	✔	3,55 €
CLG1-24	24	26	24	20	6	✔	3,80 €
CLG1-25	25	27	25	20	6	✔	3,83 €
CLG1-28	28	30	28	22	6	✔	4,12 €
CLG1-30	30	32	30	25	6	✔	4,86 €
CLG1-32	32	34	32	25	6	✔	5,15 €
CLG1-35	35	37	35	30	8	✔	5,25 €
CLG1-40	40	42	40	30	8	✔	6,16 €
CLG1-45	45	47	45	35	10	✔	6,74 €
CLG1-50	50	52	50	35	10	✔	7,69 €
CLG1-55	55	57	55	35	14	✔	8,12 €
CLG1-60	60	62	60	40	14	✔	8,72 €
CLG1-70	70	72	70	40	20	✔	9,52 €
CLG1-72	72	74	72	40	20	✔	10,03 €
CLG1-75	75	77	75	50	20	-	On request
↓	Gears available up to this size						↓
CLG1-77	**77**	**79**	**77**	**50**	**20**		**On request**

**Depending on availability - Dimensions in mm*

1650 families of products modelled



3D files free

NATIVE FORMATS AVAILABLE

Inventor, SolidEdge, SolidWorks, AutoCAD...

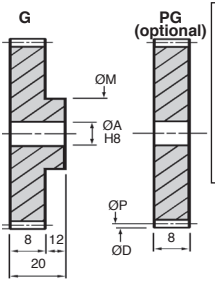
www.hpceurope.com

Module 1.25

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**3.80**	18	1.90
kW	**0.40**	1.89	0.19



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG		Price each 1 to 5 G	Price each 1 to 5 PG
G1.25-9	9	12,50	15,00	15,00	6	0,019	0,006	-	33,33 €	On request
G1.25-10	10	13,75	16,25	16,25	6	0,024	0,007	-	On request	
G1.25-11	11	15,00	17,50	17,50	6	0,029	0,009	-	33,33 €	
G1.25-12	12	15,00	17,50	17,50	6	0,029	0,009	✔	33,33 €	
G1.25-13	13	16,25	18,75	18,25	6	0,032	0,011	-	34,88 €	
G1.25-14	14	17,50	20,00	20,00	6	0,039	0,013	✔	35,50 €	
G1.25-15	15	18,75	21,25	12,00	6	0,023	0,015	-	36,10 €	
G1.25-16	16	20,00	22,50	12,00	8	0,022	0,016	✔	37,37 €	
G1.25-17	17	21,25	23,75	12,00	8	0,024	0,019	-	38,32 €	
G1.25-18	18	22,50	25,00	15,00	8	0,033	0,021	-	39,25 €	
G1.25-19	19	23,75	26,25	15,00	8	0,036	0,024	-	40,84 €	
G1.25-20	20	25,00	27,50	15,00	8	0,039	0,027	✔	41,38 €	
G1.25-21	21	26,25	28,75	15,00	8	0,042	0,030	-	41,99 €	
G1.25-22	22	27,50	30,00	15,00	8	0,045	0,033	✔	42,36 €	
G1.25-23	23	28,75	31,25	15,00	8	0,048	0,037	-	42,88 €	
G1.25-24	24	30,00	32,50	15,00	8	0,052	0,040	-	43,62 €	
G1.25-25	25	31,25	33,75	15,00	8	0,055	0,044	-	44,56 €	
G1.25-26	26	32,50	35,00	15,00	8	0,059	0,048	-	45,09 €	
G1.25-27	27	33,75	36,25	15,00	8	0,063	0,052	-	46,11 €	
G1.25-28	28	35,00	37,50	15,00	8	0,067	0,056	-	48,08 €	
G1.25-29	29	36,25	38,75	15,00	8	0,072	0,060	-	49,35 €	
G1.25-30	30	37,50	40,00	20,00	8	0,089	0,065	-	51,01 €	
G1.25-31	31	38,75	41,25	20,00	8	0,093	0,069	-	52,05 €	
G1.25-32	32	40,00	42,50	20,00	8	0,098	0,074	✔	53,11 €	
G1.25-33	33	41,25	43,75	20,00	8	0,103	0,079	-	54,10 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	PG		Price each 1 to 5 G	PG
G1.25-34	34	42,50	45,00	20,00	8	0,108	0,084	-	54,82 €	
G1.25-35	35	43,75	46,25	20,00	8	0,113	0,089	-	56,02 €	
G1.25-36	36	45,00	47,50	20,00	8	0,119	0,094	✔	56,74 €	
G1.25-37	37	46,25	48,75	20,00	8	0,124	0,100	-	57,28 €	
G1.25-38	38	47,50	50,00	20,00	8	0,130	0,105	-	57,92 €	
G1.25-39	39	48,75	51,25	20,00	8	0,135	0,111	-	58,68 €	
G1.25-40	40	50,00	52,50	30,00	10	0,173	0,115	✔	59,07 €	
G1.25-41	41	51,25	53,75	30,00	10	0,179	0,121	✔	59,33 €	
G1.25-42	42	52,50	55,00	30,00	10	0,185	0,128	-	59,59 €	
G1.25-43	43	53,75	56,25	30,00	10	0,192	0,134	-	59,97 €	
G1.25-44	44	55,00	57,50	30,00	10	0,198	0,141	-	60,22 €	
G1.25-45	45	56,25	58,75	30,00	10	0,205	0,147	✔	60,48 €	
G1.25-46	46	57,50	60,00	30,00	10	0,212	0,154	-	60,67 €	
G1.25-47	47	58,75	61,25	30,00	10	0,219	0,161	-	61,07 €	
G1.25-48	48	60,00	62,50	30,00	10	0,226	0,168	-	61,26 €	
G1.25-49	49	61,25	63,75	30,00	10	0,233	0,176	-	62,59 €	
G1.25-50	50	62,50	65,00	30,00	10	0,241	0,183	-	63,11 €	
G1.25-51	51	63,75	66,25	30,00	10	0,248	0,191	-	63,75 €	
G1.25-52	52	65,00	67,50	30,00	10	0,256	0,198	-	64,36 €	
G1.25-53	53	66,25	68,75	30,00	10	0,264	0,206	-	64,97 €	
G1.25-54	54	67,50	70,00	30,00	10	0,272	0,214	-	65,37 €	
G1.25-55	55	68,75	71,25	30,00	10	0,280	0,222	-	65,83 €	
G1.25-56	56	70,00	72,50	30,00	10	0,288	0,231	-	68,72 €	
G1.25-57	57	71,25	73,75	30,00	10	0,297	0,239	-	71,95 €	
G1.25-58	58	72,50	75,00	30,00	10	0,306	0,248	-	72,89 €	
G1.25-59	59	73,75	76,25	30,00	10	0,314	0,257	-	74,51 €	
G1.25-60	60	75,00	77,50	30,00	10	0,323	0,266	-	76,15 €	
G1.25-61	61	76,25	78,75	30,00	10	0,332	0,275	-	76,83 €	
G1.25-62	62	77,50	80,00	30,00	10	0,342	0,284	-	77,96 €	
G1.25-63	63	78,75	81,25	30,00	10	0,351	0,293	-	78,73 €	
G1.25-64	64	80,00	82,50	30,00	10	0,361	0,303	-	79,61 €	
G1.25-65	65	81,25	83,75	30,00	10	0,370	0,313	-	80,71 €	
G1.25-66	66	82,50	85,00	30,00	10	0,380	0,322	-	81,83 €	
G1.25-68	68	85,00	87,50	30,00	10	0,400	0,343	-	83,74 €	
G1.25-70	70	87,50	90,00	30,00	10	0,421	0,363	✔	85,26 €	
G1.25-72	72	90,00	92,50	30,00	10	0,442	0,385	-	85,70 €	
G1.25-73	73	91,25	93,75	30,00	10	0,453	0,396	-	86,10 €	
G1.25-74	74	92,50	95,00	30,00	10	0,464	0,407	-	86,59 €	
G1.25-76	76	95,00	97,50	30,00	10	0,487	0,429	-	88,13 €	
G1.25-78	78	97,50	100,00	30,00	10	0,510	0,452	-	91,18 €	
G1.25-80	80	100,00	102,50	30,00	10	0,534	0,476	-	97,22 €	
G1.25-84	84	105,00	107,50	30,00	10	0,583	0,525	-	98,09 €	
G1.25-88	88	110,00	112,50	30,00	10	0,635	0,577	-	107,81 €	
G1.25-90	90	112,50	115,00	30,00	10	0,661	0,604	-	108,79 €	
G1.25-96	96	120,00	122,50	30,00	12	0,745	0,688	-	125,21 €	
G1.25-100	100	125,00	127,50	30,00	12	0,804	0,746	-	127,18 €	
G1.25-112	112	140,00	142,50	30,00	12	0,995	0,938	-	140,72 €	
G1.25-120	120	150,00	152,50	40,00	15	1,135	1,077	-	150,55 €	
G1.25-130	130	162,50	165,00	40,00	15	1,323	1,265	-	167,78 €	
G1.25-140	140	175,00	177,50	40,00	15	1,525	1,468	-	181,30 €	
↓	**Gears available up to this size**									
G1.25-142	**142**	**177,50**	**180,00**		**Dimensions: contact us**					

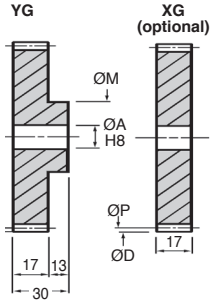
On request

**Depending on availability - Dimensions in mm*

Module 1.25

Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Options

- *Material :*
  20NCD2 case-hardened

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	**17**	*24*	*17*	*47*
kW	**1.79**	*2.604*	*1.79*	*5.013*

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG1.25-9	9	12,50	15,00	15,00	6	0,027	0,012	41,47 €	On request
YG1.25-10	10	13,75	16,25	16,25	6	0,033	0,016	41,47 €	
YG1.25-11	11	15,00	17,50	17,50	6	0,040	0,019	41,47 €	
YG1.25-12	12	15,00	17,50	17,50	6	0,040	0,019	41,47 €	
YG1.25-13	13	16,25	18,75	18,75	6	0,048	0,023	43,52 €	
YG1.25-14	14	17,50	20,00	20,00	6	0,056	0,028	44,22 €	
YG1.25-15	15	18,75	21,25	20,00	6	0,061	0,032	45,16 €	
YG1.25-16	16	20,00	22,50	20,00	8	0,061	0,034	46,48 €	
YG1.25-17	17	21,25	23,75	20,00	8	0,066	0,040	47,67 €	
YG1.25-18	18	22,50	25,00	25,00	8	0,089	0,045	49,04 €	
YG1.25-19	19	23,75	26,25	25,00	8	0,095	0,051	50,86 €	
YG1.25-20	20	25,00	27,50	25,00	8	0,101	0,057	51,58 €	
YG1.25-21	21	26,25	28,75	25,00	8	0,108	0,064	52,34 €	
YG1.25-22	22	27,50	30,00	25,00	8	0,115	0,071	On request	
YG1.25-23	23	28,75	31,25	25,00	8	0,122	0,078	53,51 €	
YG1.25-24	24	30,00	32,50	25,00	8	0,129	0,085	54,35 €	
YG1.25-25	25	31,25	33,75	25,00	8	0,137	0,093	55,49 €	
YG1.25-26	26	32,50	35,00	25,00	8	0,145	0,101	56,13 €	
YG1.25-27	27	33,75	36,25	25,00	8	0,154	0,110	57,49 €	
YG1.25-28	28	35,00	37,50	25,00	8	0,162	0,119	60,09 €	
YG1.25-29	29	36,25	38,75	25,00	8	0,172	0,128	61,63 €	
YG1.25-30	30	37,50	40,00	35,00	8	0,228	0,137	63,59 €	
YG1.25-31	31	38,75	41,25	35,00	8	0,238	0,147	64,97 €	
YG1.25-32	32	40,00	42,50	35,00	8	0,248	0,157	66,27 €	
YG1.25-33	33	41,25	43,75	35,00	8	0,258	0,167	67,52 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG1.25-34	34	42,50	45,00	35,00	8	0,269	0,178	68,39 €	
YG1.25-35	35	43,75	46,25	35,00	8	0,280	0,189	69,90 €	
YG1.25-36	36	45,00	47,50	35,00	8	0,291	0,200	70,86 €	
YG1.25-37	37	46,25	48,75	35,00	8	0,303	0,212	71,38 €	
YG1.25-38	38	47,50	50,00	35,00	8	0,315	0,224	72,21 €	
YG1.25-39	39	48,75	51,25	35,00	8	0,327	0,236	73,10 €	
YG1.25-40	40	50,00	52,50	45,00	10	0,396	0,245	73,72 €	
YG1.25-41	41	51,25	53,75	45,00	10	0,409	0,258	74,16 €	
YG1.25-42	42	52,50	55,00	45,00	10	0,422	0,271	74,44 €	
YG1.25-43	43	53,75	56,25	45,00	10	0,435	0,285	74,73 €	
YG1.25-44	44	55,00	57,50	45,00	10	0,449	0,299	75,11 €	
YG1.25-45	45	56,25	58,75	45,00	10	0,463	0,313	75,50 €	
YG1.25-46	46	57,50	60,00	45,00	10	0,478	0,328	75,71 €	
YG1.25-47	47	58,75	61,25	45,00	10	0,493	0,342	76,10 €	
YG1.25-48	48	60,00	62,50	45,00	10	0,508	0,358	76,40 €	
YG1.25-49	49	61,25	63,75	45,00	10	0,523	0,373	78,07 €	
YG1.25-50	50	62,50	65,00	45,00	10	0,539	0,389	78,79 €	
YG1.25-51	51	63,75	66,25	45,00	10	0,555	0,405	79,39 €	
YG1.25-52	52	65,00	67,50	45,00	10	0,572	0,421	80,41 €	
YG1.25-53	53	66,25	68,75	45,00	10	0,589	0,438	80,77 €	
YG1.25-54	54	67,50	70,00	45,00	10	0,606	0,455	81,50 €	
YG1.25-55	55	68,75	71,25	45,00	10	0,623	0,473	82,15 €	
YG1.25-56	56	70,00	72,50	45,00	10	0,641	0,490	85,73 €	
YG1.25-57	57	71,25	73,75	45,00	10	0,659	0,508	89,72 €	
YG1.25-58	58	72,50	75,00	45,00	10	0,677	0,527	90,88 €	
YG1.25-59	59	73,75	76,25	45,00	10	0,696	0,545	93,02 €	
YG1.25-60	60	75,00	77,50	45,00	10	0,715	0,564	94,88 €	
YG1.25-61	61	76,25	78,75	45,00	10	0,734	0,584	98,03 €	
YG1.25-62	62	77,50	80,00	60,00	10	0,877	0,603	97,22 €	
YG1.25-63	63	78,75	81,25	60,00	10	0,897	0,623	98,09 €	
YG1.25-64	64	80,00	82,50	60,00	10	0,917	0,644	99,24 €	
YG1.25-65	65	81,25	83,75	60,00	10	0,938	0,664	100,57 €	
YG1.25-66	66	82,50	85,00	60,00	10	0,959	0,685	101,90 €	
YG1.25-68	68	85,00	87,50	60,00	10	1,001	0,728	104,40 €	
YG1.25-70	70	87,50	90,00	60,00	10	1,045	0,772	106,20 €	
YG1.25-72	72	90,00	92,50	60,00	10	1,091	0,817	106,93 €	
YG1.25-73	73	91,25	93,75	60,00	10	1,114	0,841	107,33 €	
YG1.25-74	74	92,50	95,00	60,00	10	1,137	0,864	108,00 €	
YG1.25-76	76	95,00	97,50	60,00	10	1,185	0,912	109,81 €	
YG1.25-78	78	97,50	100,00	60,00	10	1,234	0,961	113,67 €	
YG1.25-80	80	100,00	102,50	60,00	10	1,285	1,011	121,31 €	
YG1.25-84	84	105,00	107,50	60,00	10	1,390	1,116	122,45 €	
YG1.25-88	88	110,00	112,50	60,00	10	1,499	1,226	134,44 €	
YG1.25-90	90	112,50	115,00	60,00	10	1,556	1,283	155,95 €	
YG1.25-96	96	120,00	122,50	60,00	12	1,734	1,461	157,04 €	
YG1.25-100	100	125,00	127,50	60,00	12	1,860	1,586	158,41 €	
YG1.25-112	112	140,00	142,50	60,00	12	2,266	1,992	201,47 €	
YG1.25-120	120	150,00	152,50	60,00	15	2,562	2,289	201,47 €	
YG1.25-130	130	162,50	165,00	60,00	15	2,961	2,688	219,05 €	
YG1.25-140	140	175,00	177,50	60,00	15	3,392	3,119	254,88 €	
↓				Gears available up to this size				↓	
YG1.25-142	**142**	**177,50**	**180,00**	**Dimensions: contact us**				on request	

On request

Dimensions in mm

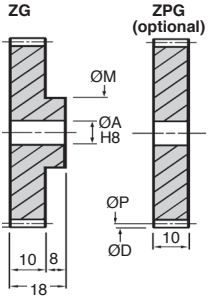
Plastic spur gear

Module 1.25

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**1.0**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG1.25-9	9	12,50	15,00	15	5	0,003	0,001	16,64 €	On request
ZG1.25-10	10	13,75	16,25	15	5	0,003	0,002	16,64 €	
ZG1.25-11	11	15,00	17,50	15	5	0,004	0,002	16,64 €	
ZG1.25-12	12	15,00	17,50	15	5	0,004	0,002	16,64 €	
ZG1.25-13	13	16,25	18,75	15	5	0,004	0,002	16,64 €	
ZG1.25-14	14	17,50	20,00	15	5	0,004	0,003	16,80 €	
ZG1.25-15	15	18,75	21,25	15	5	0,005	0,003	17,27 €	
ZG1.25-16	16	20,00	22,50	16	6	0,005	0,004	17,71 €	
ZG1.25-17	17	21,25	23,75	16	6	0,006	0,004	18,38 €	
ZG1.25-18	18	22,50	25,00	16	6	0,007	0,005	18,76 €	
ZG1.25-19	19	23,75	26,25	16	6	0,007	0,005	20,49 €	
ZG1.25-20	20	25,00	27,50	16	6	0,008	0,006	20,71 €	
ZG1.25-21	21	26,25	28,75	18	6	0,009	0,007	21,03 €	
ZG1.25-22	22	27,50	30,00	18	6	0,010	0,007	21,16 €	
ZG1.25-23	23	28,75	31,25	18	6	0,010	0,008	23,68 €	
ZG1.25-24	24	30,00	32,50	18	6	0,011	0,009	24,12 €	
ZG1.25-25	25	31,25	33,75	18	6	0,012	0,009	24,52 €	
ZG1.25-26	26	32,50	35,00	18	6	0,013	0,010	24,85 €	
ZG1.25-27	27	33,75	36,25	18	6	0,013	0,011	25,48 €	
ZG1.25-28	28	35,00	37,50	18	6	0,014	0,012	26,62 €	
ZG1.25-29	29	36,25	38,75	18	6	0,015	0,013	27,24 €	
ZG1.25-30	30	37,50	40,00	18	6	0,016	0,014	28,13 €	
ZG1.25-31	31	38,75	41,25	18	6	0,017	0,015	32,78 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	ZPG	Price each 1 to 5 ZG	ZPG
ZG1.25-32	32	40,00	42,50	18	6	0,018	0,016	33,38 €	
ZG1.25-33	33	41,25	43,75	18	6	0,019	0,017	34,03 €	
ZG1.25-34	34	42,50	45,00	18	6	0,020	0,018	34,49 €	
ZG1.25-35	35	43,75	46,25	18	6	0,021	0,019	35,26 €	
ZG1.25-36	36	45,00	47,50	18	6	0,022	0,020	35,76 €	
ZG1.25-38	38	47,50	50,00	18	6	0,025	0,022	36,37 €	
ZG1.25-39	39	48,75	51,25	18	6	0,026	0,024	44,34 €	
ZG1.25-40	40	50,00	52,50	22	8	0,028	0,025	44,65 €	
ZG1.25-41	41	51,25	53,75	22	8	0,029	0,026	44,81 €	
ZG1.25-42	42	52,50	55,00	22	8	0,031	0,027	45,09 €	
ZG1.25-44	44	55,00	57,50	22	8	0,033	0,030	45,50 €	
ZG1.25-45	45	56,25	58,75	22	8	0,035	0,031	45,69 €	
ZG1.25-46	46	57,50	60,00	22	8	0,036	0,033	45,86 €	
ZG1.25-47	47	58,75	61,25	22	8	0,038	0,034	52,34 €	
ZG1.25-48	48	60,00	62,50	22	8	0,039	0,036	52,49 €	
ZG1.25-49	49	61,25	63,75	22	8	0,041	0,037	53,68 €	
ZG1.25-50	50	62,50	65,00	22	8	0,042	0,039	54,09 €	
ZG1.25-51	51	63,75	66,25	22	8	0,044	0,040	54,69 €	
ZG1.25-52	52	65,00	67,50	22	8	0,045	0,042	55,18 €	
ZG1.25-53	53	66,25	68,75	22	8	0,047	0,044	55,61 €	
ZG1.25-54	54	67,50	70,00	22	8	0,049	0,045	55,94 €	
ZG1.25-55	55	68,75	71,25	26	10	0,051	0,047	56,48 €	
ZG1.25-56	56	70,00	72,50	26	10	0,053	0,048	58,98 €	
ZG1.25-57	57	71,25	73,75	26	10	0,055	0,050	61,56 €	
ZG1.25-58	58	72,50	75,00	26	10	0,057	0,052	62,46 €	
ZG1.25-59	59	73,75	76,25	26	10	0,059	0,054	67,63 €	
ZG1.25-60	60	75,00	77,50	26	10	0,060	0,056	69,13 €	
ZG1.25-61	61	76,25	78,75	26	10	0,062	0,058	69,83 €	
ZG1.25-62	62	77,50	80,00	26	10	0,064	0,060	70,86 €	
ZG1.25-63	63	78,75	81,25	26	10	0,066	0,062	71,48 €	
ZG1.25-64	64	80,00	82,50	26	10	0,068	0,064	72,21 €	
ZG1.25-65	65	81,25	83,75	26	10	0,070	0,066	73,19 €	
ZG1.25-66	66	82,50	85,00	26	10	0,072	0,068	74,09 €	
ZG1.25-68	68	85,00	87,50	26	10	0,077	0,072	76,14 €	
ZG1.25-70	70	87,50	90,00	26	10	0,081	0,076	77,36 €	
ZG1.25-72	72	90,00	92,50	26	10	0,085	0,081	86,53 €	
ZG1.25-73	73	91,25	93,75	26	10	0,088	0,083	86,95 €	
ZG1.25-74	74	92,50	95,00	26	10	0,090	0,085	87,39 €	
ZG1.25-76	76	95,00	97,50	26	10	0,095	0,090	88,90 €	
ZG1.25-78	78	97,50	100,00	26	10	0,100	0,095	92,07 €	
ZG1.25-80	80	100,00	102,50	30	10	0,106	0,100	107,92 €	
ZG1.25-84	84	105,00	107,50	30	10	0,117	0,110	96,66 €	
ZG1.25-88	88	110,00	112,50	30	10	0,128	0,121	106,32 €	
ZG1.25-90	90	112,50	115,00	30	10	0,133	0,127	107,18 €	
ZG1.25-96	96	120,00	122,50	30	12	0,151	0,144	134,54 €	
ZG1.25-100	100	125,00	127,50	30	12	0,163	0,157	136,58 €	
ZG1.25-112	112	140,00	142,50	30	12	0,203	0,197	176,47 €	
ZG1.25-120	120	150,00	152,50	40	15	0,233	0,226	174,91 €	
↓ Gears available up to this size									
ZG1.25-142	**142**	**177,50**	**180,00**			**Dimensions: contact us**			

On request

Dimensions in mm

Steel spur gear economy range

Module 1,5

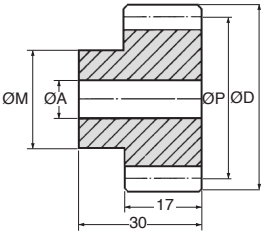
C45 steel

- **Economy range of gears**
- Pressure angle 20°
- Material:
  C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**

Economy range



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each 1 to 5
G1.5-12/ECO	12	18,0	21,0	14	8	0,040	✔	3,32 €
G1.5-13/ECO	13	19,5	22,5	14	8	0,050	-	3,37 €
G1.5-14/ECO	14	21,0	24,0	17	8	0,060	✔	3,63 €
G1.5-15/ECO	15	22,5	25,5	18	8	0,070	✔	3,96 €
G1.5-16/ECO	16	24,0	27,0	20	8	0,080	✔	4,10 €
G1.5-17/ECO	17	25,5	28,5	20	8	0,090	✔	4,52 €
G1.5-18/ECO	18	27,0	30,0	20	8	0,100	✔	4,73 €
G1.5-19/ECO	19	28,5	31,5	20	8	0,100	✔	4,87 €
G1.5-20/ECO	20	30,0	33,0	25	8	0,130	✔	5,06 €
G1.5-21/ECO	21	31,5	34,5	25	10	0,130	✔	5,47 €
G1.5-22/ECO	22	33,0	36,0	25	10	0,140	✔	5,72 €
G1.5-23/ECO	23	34,5	37,5	25	10	0,160	-	6,17 €
G1.5-24/ECO	24	36,0	39,0	25	10	0,170	✔	6,11 €
G1.5-25/ECO	25	37,5	40,5	25	10	0,180	✔	6,80 €
G1.5-26/ECO	26	39,0	42,0	30	12	0,200	✔	6,91 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each 1 to 5
G1.5-27/ECO	27	40,5	43,5	30	12	0,220	✔	7,40 €
G1.5-28/ECO	28	42,0	45,0	30	12	0,230	✔	7,59 €
G1.5-29/ECO	29	43,5	46,5	30	12	0,240	-	7,77 €
G1.5-30/ECO	30	45,0	48,0	30	12	0,260	✔	8,48 €
G1.5-31/ECO	31	46,5	49,5	35	12	0,300	-	8,60 €
G1.5-32/ECO	32	48,0	51,0	35	12	0,310	✔	8,69 €
G1.5-33/ECO	33	49,5	52,5	35	12	0,330	-	9,23 €
G1.5-34/ECO	34	51,0	54,0	35	12	0,340	-	9,30 €
G1.5-35/ECO	35	52,5	55,5	35	12	0,360	✔	9,76 €
G1.5-36/ECO	36	54,0	57,0	35	12	0,370	✔	9,89 €
G1.5-37/ECO	37	55,5	58,5	40	12	0,420	-	10,66 €
G1.5-38/ECO	38	57,0	60,0	40	12	0,440	✔	10,85 €
G1.5-39/ECO	39	58,5	61,5	40	12	0,460	-	11,08 €
G1.5-40/ECO	40	60,0	63,0	40	12	0,480	✔	11,52 €
G1.5-41/ECO	41	61,5	64,5	50	14	0,500	-	11,95 €
G1.5-42/ECO	42	63,0	66,0	50	14	0,590	✔	12,22 €
G1.5-43/ECO	43	64,5	67,5	50	14	0,610	-	13,25 €
G1.5-44/ECO	44	66,0	69,0	50	14	0,630	✔	13,41 €
G1.5-45/ECO	45	67,5	70,5	50	14	0,650	✔	13,44 €
G1.5-46/ECO	46	69,0	72,0	50	14	0,660	-	14,28 €
G1.5-47/ECO	47	70,5	73,5	50	14	0,700	-	14,59 €
G1.5-48/ECO	48	72,0	75,0	50	14	0,700	✔	14,77 €
G1.5-49/ECO	49	73,5	76,5	50	14	0,730	-	14,88 €
G1.5-50/ECO	50	75,0	78,0	50	14	0,760	✔	15,97 €
G1.5-51/ECO	51	76,5	79,5	60	15	0,860	-	15,97 €
G1.5-52/ECO	52	78,0	81,0	60	15	0,890	-	16,17 €
G1.5-53/ECO	53	79,5	82,5	60	15	0,910	✔	17,38 €
G1.5-54/ECO	54	81,0	84,0	60	15	0,940	✔	17,68 €
G1.5-55/ECO	55	82,5	85,5	60	15	0,960	✔	17,84 €
G1.5-56/ECO	56	84,0	87,0	60	15	0,980	-	18,92 €
G1.5-57/ECO	57	85,5	88,5	60	15	1,000	-	19,01 €
G1.5-58/ECO	58	87,0	90,0	60	15	1,030	✔	19,21 €
G1.5-59/ECO	59	88,5	91,5	60	15	1,060	-	19,45 €
G1.5-60/ECO	60	90,0	93,0	60	15	1,090	✔	21,15 €
G1.5-61/ECO	61	91,5	94,5	70	20	1,220	-	21,44 €
G1.5-62/ECO	62	93,0	96,0	70	20	1,250	-	21,60 €
G1.5-63/ECO	63	94,5	97,5	70	20	1,280	-	22,05 €
G1.5-64/ECO	64	96,0	99,0	70	20	1,310	-	23,14 €
G1.5-65/ECO	65	97,5	100,5	70	20	1,340	-	23,37 €
G1.5-66/ECO	66	99,0	102,0	70	20	1,370	-	23,74 €
G1.5-67/ECO	67	100,5	103,5	70	20	1,400	-	24,49 €
G1.5-68/ECO	68	102,0	105,0	70	20	1,430	-	25,03 €
G1.5-69/ECO	69	103,5	106,5	70	20	1,460	-	25,20 €
G1.5-70/ECO	70	105,0	108,0	70	20	1,500	✔	25,45 €

*Depending on availability - Dimensions in mm

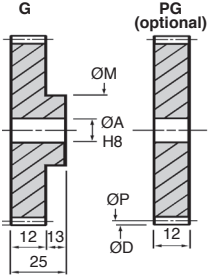
Steel spur gear

Module 1.5

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**8.88**	41.50	4.44
kW	**0.93**	4.23	0.46



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Stock*	Price each 1 to 5 G	Price each 1 to 5 PG
G1.5-9	9	15,00	18,00	18	8	0,032	0,012	✔	33,35 €	On request
G1.5-10	10	16,50	19,50	18	8	0,035	0,015	✔	33,35 €	
G1.5-11	11	18,00	21,00	18	8	0,039	0,019	-	33,35 €	
G1.5-12	12	18,00	21,00	14	8	0,029	0,019	✔	19,85 €	
G1.5-13	13	19,50	22,50	15	8	0,035	0,023	-	32,78 €	
G1.5-14	14	21,00	24,00	15	8	0,040	0,027	✔	33,56 €	
G1.5-15	15	22,50	25,50	18	8	0,052	0,032	✔	21,54 €	
G1.5-16	16	24,00	27,00	20	10	0,058	0,034	✔	22,11 €	
G1.5-17	17	25,50	28,50	20	10	0,063	0,040	✔	36,41 €	
G1.5-18	18	27,00	30,00	20	10	0,069	0,045	✔	29,87 €	
G1.5-19	19	28,50	31,50	20	10	0,075	0,051	-	38,94 €	
G1.5-20	20	30,00	33,00	20	10	0,081	0,058	✔	25,64 €	
G1.5-21	21	31,50	34,50	20	10	0,088	0,064	✔	25,64 €	
G1.5-22	22	33,00	36,00	20	10	0,095	0,071	✔	27,58 €	
G1.5-23	23	34,50	37,50	20	10	0,102	0,079	-	42,45 €	
G1.5-24	24	36,00	39,00	25	10	0,127	0,086	✔	26,92 €	
G1.5-25	25	37,50	40,50	25	10	0,135	0,094	✔	45,16 €	
G1.5-26	26	39,00	42,00	25	10	0,144	0,102	-	47,29 €	
G1.5-27	27	40,50	43,50	25	10	0,152	0,111	-	48,76 €	
G1.5-28	28	42,00	45,00	25	10	0,161	0,120	-	50,21 €	
G1.5-29	29	43,50	46,50	25	10	0,170	0,129	-	51,04 €	
G1.5-30	30	45,00	48,00	25	10	0,180	0,139	✔	32,98 €	
G1.5-31	31	46,50	49,50	25	10	0,190	0,149	-	53,33 €	
G1.5-32	32	48,00	51,00	25	10	0,200	0,159	✔	34,09 €	
G1.5-33	33	49,50	52,50	25	10	0,211	0,170	✔	54,82 €	
G1.5-34	34	51,00	54,00	25	10	0,221	0,180	✔	55,32 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	ØA Alésage	Weight (kg) G	PG	Stock*	Price each 1 to 5 G	PG
G1.5-35	35	52,50	55,50	30	15	0,235	0,183	-	55,96 €	On request
G1.5-36	36	54,00	57,00	30	15	0,247	0,194	-	36,94 €	
G1.5-37	37	55,50	58,50	30	15	0,259	0,206	-	60,13 €	
G1.5-38	38	57,00	60,00	30	15	0,271	0,218	-	61,43 €	
G1.5-39	39	58,50	61,50	30	15	0,283	0,231	-	62,73 €	
G1.5-40	40	60,00	63,00	40	15	0,351	0,243	✔	64,08 €	
G1.5-41	41	61,50	64,50	40	15	0,364	0,257	-	64,08 €	
G1.5-42	42	63,00	66,00	40	15	0,377	0,270	✔	64,12 €	
G1.5-43	43	64,50	67,50	40	15	0,391	0,284	-	64,21 €	
G1.5-44	44	66,00	69,00	40	15	0,405	0,298	-	64,21 €	
G1.5-45	45	67,50	70,50	40	15	0,420	0,312	-	65,54 €	
G1.5-46	46	69,00	72,00	40	15	0,435	0,327	-	On request	
G1.5-47	47	70,50	73,50	40	15	0,450	0,342	-	68,55 €	
G1.5-48	48	72,00	75,00	40	15	0,465	0,358	-	On request	
G1.5-49	49	73,50	76,50	40	15	0,481	0,373	-	On request	
G1.5-50	50	75,00	78,00	40	15	0,497	0,389	✔	78,26 €	
G1.5-51	51	76,50	79,50	40	15	0,513	0,406	-	80,66 €	
G1.5-52	52	78,00	81,00	40	15	0,530	0,423	-	82,30 €	
G1.5-53	53	79,50	82,50	40	15	0,547	0,440	-	83,60 €	
G1.5-54	54	81,00	84,00	40	15	0,564	0,457	-	83,89 €	
G1.5-55	55	82,50	85,50	40	15	0,582	0,475	-	84,25 €	
G1.5-56	56	84,00	87,00	40	15	0,600	0,493	-	84,95 €	
G1.5-57	57	85,50	88,50	40	15	0,618	0,511	-	85,73 €	
G1.5-58	58	87,00	90,00	40	15	0,637	0,530	-	85,73 €	
G1.5-59	59	88,50	91,50	40	15	0,656	0,549	-	86,59 €	
G1.5-60	60	90,00	93,00	40	15	0,675	0,568	✔	87,09 €	
G1.5-62	62	93,00	96,00	40	15	0,715	0,608	-	88,78 €	
G1.5-64	64	96,00	99,00	40	15	0,756	0,648	-	89,88 €	
G1.5-65	65	97,50	100,50	40	15	0,777	0,669	-	92,07 €	
G1.5-66	66	99,00	102,00	40	15	0,798	0,691	-	95,44 €	
G1.5-68	68	102,00	105,00	40	15	0,842	0,734	-	97,60 €	
G1.5-70	70	105,00	108,00	40	15	0,886	0,779	-	101,10 €	
G1.5-71	71	106,50	109,50	50	15	0,980	0,802	-	103,90 €	
G1.5-72	72	108,00	111,00	50	15	1,003	0,825	-	106,93 €	
G1.5-73	73	109,50	112,50	50	15	1,026	0,849	-	109,51 €	
G1.5-74	74	111,00	114,00	50	15	1,050	0,872	-	113,27 €	
G1.5-75	75	112,50	115,50	50	15	1,074	0,897	-	113,96 €	
G1.5-76	76	114,00	117,00	50	15	1,099	0,921	-	114,42 €	
G1.5-78	78	117,00	120,00	50	15	1,149	0,971	-	120,18 €	
G1.5-80	80	120,00	123,00	50	15	1,200	1,022	✔	124,55 €	
G1.5-86	86	129,00	132,00	50	15	1,362	1,184	-	133,86 €	
G1.5-90	90	135,00	138,00	50	15	1,476	1,298	✔	143,40 €	
G1.5-96	96	144,00	147,00	50	15	1,657	1,479	-	152,87 €	
G1.5-98	98	147,00	150,00	50	15	1,720	1,542	-	162,39 €	
G1.5-100	100	150,00	153,00	50	15	1,784	1,606	-	172,98 €	
G1.5-105	105	157,50	160,50	50	15	1,951	1,773	-	184,30 €	
G1.5-110	110	165,00	168,00	50	15	2,125	1,947	-	198,86 €	
G1.5-115	115	172,50	175,50	50	15	2,308	2,130	-	221,47 €	
G1.5-120	120	180,00	183,00	50	15	2,498	2,320	-	247,58 €	
↓ Gears available up to this size										
G1.5-298	298	447,00	450,00			Dimensions : contact us				

*Depending on availability

Module 1.5

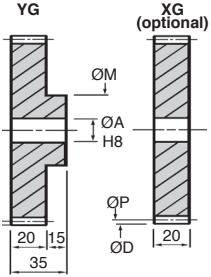
Steel 35NCD6

- **Higher torque**
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material :
  20NCD2 case-hardened

Torque and power indication				
For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	**32**	*46*	*32*	*88*
kW	**3.342**	*4.879*	*3.342*	*8.952*



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG		Price each 1 to 5 YG	Price each 1 to 5 XG
YG1.5-9	9	15,00	18,00	18,00	8	0,043	0,019	✔	41,61 €	On request
YG1.5-10	10	16,50	19,50	19,50	8	0,054	0,025	✔	41,61 €	
YG1.5-11	11	18,00	21,00	21,00	8	0,065	0,031	-	41,61 €	
YG1.5-12	12	18,00	21,00	21,00	8	0,065	0,031	✔	39,63 €	
YG1.5-13	13	19,50	22,50	20,00	8	0,068	0,038	-	40,84 €	
YG1.5-14	14	21,00	24,00	20,00	8	0,076	0,045	✔	41,85 €	
YG1.5-15	15	22,50	25,50	20,00	8	0,083	0,053	✔	42,91 €	
YG1.5-16	16	24,00	27,00	25,00	10	0,105	0,057	✔	44,13 €	
YG1.5-17	17	25,50	28,50	25,00	10	0,113	0,066	-	45,45 €	
YG1.5-18	18	27,00	30,00	25,00	10	0,123	0,076	-	47,01 €	
YG1.5-19	19	28,50	31,50	25,00	10	0,133	0,086	-	49,04 €	
YG1.5-20	20	30,00	33,00	25,00	10	0,143	0,096	✔	51,04 €	
YG1.5-21	21	31,50	34,50	25,00	10	0,155	0,107	-	51,58 €	
YG1.5-22	22	33,00	36,00	30,00	10	0,191	0,119	✔	52,11 €	
YG1.5-23	23	34,50	37,50	30,00	10	0,203	0,131	-	52,85 €	
YG1.5-24	24	36,00	39,00	30,00	10	0,216	0,144	✔	53,51 €	
YG1.5-25	25	37,50	40,50	30,00	10	0,229	0,157	-	56,33 €	
YG1.5-26	26	39,00	42,00	30,00	10	0,243	0,171	-	58,98 €	
YG1.5-27	27	40,50	43,50	30,00	10	0,257	0,185	✔	60,73 €	
YG1.5-28	28	42,00	45,00	30,00	10	0,272	0,200	✔	62,69 €	
YG1.5-29	29	43,50	46,50	30,00	10	0,288	0,215	-	63,70 €	
YG1.5-30	30	45,00	48,00	30,00	10	0,304	0,231	✔	65,54 €	
YG1.5-31	31	46,50	49,50	30,00	10	0,320	0,248	-	66,49 €	
YG1.5-32	32	48,00	51,00	30,00	10	0,337	0,265	-	67,83 €	
YG1.5-33	33	49,50	52,50	30,00	10	0,355	0,283	-	68,39 €	

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG		Price each 1 to 5 YG	XG
YG1.5-34	34	51,00	54,00	30,00	10	0,373	0,301	-	69,00 €	
YG1.5-35	35	52,50	55,50	50,00	15	0,509	0,304	-	69,83 €	
YG1.5-36	36	54,00	57,00	50,00	15	0,529	0,323	-	73,34 €	
YG1.5-37	37	55,50	58,50	50,00	15	0,548	0,343	-	74,84 €	
YG1.5-38	38	57,00	60,00	50,00	15	0,569	0,363	✔	76,59 €	
YG1.5-39	39	58,50	61,50	50,00	15	0,589	0,384	-	78,16 €	
YG1.5-40	40	60,00	63,00	50,00	15	0,611	0,406	✔	79,86 €	
YG1.5-41	41	61,50	64,50	50,00	15	0,633	0,428	-	79,93 €	
YG1.5-42	42	63,00	66,00	50,00	15	0,655	0,450	-	80,08 €	
YG1.5-43	43	64,50	67,50	50,00	15	0,678	0,473	-	80,10 €	
YG1.5-44	44	66,00	69,00	50,00	15	0,702	0,497	-	80,77 €	
YG1.5-45	45	67,50	70,50	50,00	15	0,726	0,521	-	81,83 €	
YG1.5-46	46	69,00	72,00	50,00	15	0,750	0,545	-	83,60 €	
YG1.5-47	47	70,50	73,50	50,00	15	0,775	0,570	-	85,43 €	
YG1.5-48	48	72,00	75,00	50,00	15	0,801	0,596	-	87,27 €	
YG1.5-49	49	73,50	76,50	50,00	15	0,827	0,622	-	91,18 €	
YG1.5-50	50	75,00	78,00	50,00	15	0,854	0,649	-	99,22 €	
YG1.5-51	51	76,50	79,50	50,00	15	0,881	0,676	-	100,53 €	
YG1.5-52	52	78,00	81,00	50,00	15	0,909	0,704	-	102,52 €	
YG1.5-53	53	79,50	82,50	60,00	15	1,037	0,733	-	104,04 €	
YG1.5-54	54	81,00	84,00	60,00	15	1,066	0,762	-	104,55 €	
YG1.5-55	55	82,50	85,50	60,00	15	1,095	0,791	-	105,15 €	
YG1.5-56	56	84,00	87,00	60,00	15	1,125	0,821	-	105,92 €	
YG1.5-57	57	85,50	88,50	60,00	15	1,156	0,852	-	106,93 €	
YG1.5-58	58	87,00	90,00	60,00	15	1,187	0,883	-	107,44 €	
YG1.5-59	59	88,50	91,50	60,00	15	1,219	0,914	-	108,00 €	
YG1.5-60	60	90,00	93,00	60,00	15	1,251	0,947	✔	108,53 €	
YG1.5-62	62	93,00	96,00	60,00	15	1,317	1,013	-	110,65 €	
YG1.5-64	64	96,00	99,00	60,00	15	1,385	1,081	-	112,05 €	
YG1.5-65	65	97,50	100,50	60,00	15	1,420	1,116	-	119,65 €	
YG1.5-66	66	99,00	102,00	60,00	15	1,455	1,151	-	119,65 €	
YG1.5-68	68	102,00	105,00	60,00	15	1,528	1,224	-	121,58 €	
YG1.5-70	70	105,00	108,00	60,00	15	1,602	1,298	-	126,01 €	
YG1.5-71	71	106,50	109,50	60,00	15	1,641	1,336	-	129,51 €	
YG1.5-72	72	108,00	111,00	60,00	15	1,679	1,375	-	133,19 €	
YG1.5-73	73	109,50	112,50	60,00	15	1,718	1,414	-	136,55 €	
YG1.5-74	74	111,00	114,00	60,00	15	1,758	1,454	-	141,25 €	
YG1.5-75	75	112,50	115,50	60,00	15	1,798	1,494	-	150,54 €	
YG1.5-76	76	114,00	117,00	60,00	15	1,839	1,535	-	150,54 €	
YG1.5-78	78	117,00	120,00	75,00	15	2,105	1,618	-	150,54 €	
YG1.5-80	80	120,00	123,00	75,00	15	2,191	1,704	-	155,30 €	
YG1.5-86	86	129,00	132,00	75,00	15	2,460	1,973	-	175,98 €	
YG1.5-90	90	135,00	138,00	75,00	15	2,650	2,164	-	178,89 €	
YG1.5-96	96	144,00	147,00	75,00	15	2,952	2,465	-	229,50 €	
YG1.5-98	98	147,00	150,00	75,00	15	3,057	2,570	-	229,50 €	
YG1.5-100	100	150,00	153,00	75,00	15	3,164	2,677	-	229,50 €	
YG1.5-105	105	157,50	160,50	75,00	15	3,441	2,955	-	249,43 €	
YG1.5-110	110	165,00	168,00	75,00	15	3,732	3,245	-	290,27 €	
YG1.5-115	115	172,50	175,50	75,00	15	4,036	3,550	-	290,27 €	
YG1.5-120	120	180,00	183,00	75,00	15	4,354	3,867	-	362,85 €	
↓	**Gears available up to this size**									
YG1.5-298	**298**	**447,00**	**450,00**	**Dimensions: contact us**						

On request

**Depending on availability - Dimensions in mm*

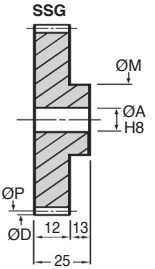
Stainless steel spur gear

Module 1.5

304L stainless steel

- *Quality standard 9*
- *Pressure angle 20°*

Torque and power indication For 50 teeth at 1000 rpm		
	StS 304L	*brass*
Nm	**8,88**	*4,44*
kW	**0,93**	*0,46*



stainless steel

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG1.5-12-304L	12	18	21	14	8	42,54 €
SSG1.5-15-304L	15	22,5	25,5	18	8	46,75 €
SSG1.5-16-304L	16	24	27	20	10	48,76 €
SSG1.5-18-304L	18	27	30	20	10	54,89 €
SSG1.5-20-304L	20	30	33	20	10	58,32 €
SSG1.5-22-304L	22	33	36	20	10	64,53 €
SSG1.5-24-304L	24	36	39	25	10	67,55 €
SSG1.5-30-304L	30	45	48	25	10	85,32 €
SSG1.5-32-304L	32	48	51	25	10	91,68 €
SSG1.5-36-304L	36	54	57	30	15	105,39 €
SSG1.5-40-304L	40	60	63	40	15	111,93 €
SSG1.5-44-304L	44	66	69	40	15	112,15 €
SSG1.5-46-304L	46	69	72	40	15	117,03 €
SSG1.5-48-304L	48	72	75	40	15	122,26 €
SSG1.5-50-304L	50	75	78	40	15	169,76 €
SSG1.5-54-304L	54	81	84	40	15	169,76 €
SSG1.5-56-304L	56	84	87	40	15	169,76 €
SSG1.5-60-304L	60	90	93	40	15	233,30 €
SSG1.5-64-304L	64	96	99	40	15	233,30 €
SSG1.5-66-304L	66	99	102	40	15	267,60 €
SSG1.5-70-304L	70	105	108	40	15	267,60 €
↓	**Gears available up to this size**					
SSG1.5-298-304L	**298**	**447**	**450**	**Dimensions: contact us**		

**Depending on availability - Dimensions in mm*

Moulded plastic spur gear

Nylon 6 moulded

Module 1.5

Economy range

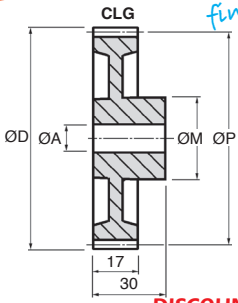
- **Moulded parts**
- Pressure angle 20°
- Material:
  Nylon 6, Reinforced with 30% glass fibres

Options

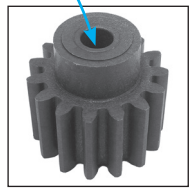
- **Alternative number of teeth (up to 75)**
- HPC are unable to modify these parts. For parts that can be modified to order, please see the **ZG** and **ZPG** ranges.

Info

- Moulded pilot bore must be machined to suit the application
- **Pilot bore dimension given as a guide only



ØA: Pilot bore, must be finished



DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Number of teeth	External ØD	PCD ØP	Boss ØM	Pilot bore ØA**	Stock*	Price each 1 to 9
CLG1.5-12	12	21,0	18,0	14	5	✔	3,17 €
CLG1.5-15	15	25,5	22,5	18	5	✔	3,23 €
CLG1.5-16	16	27,0	24,0	18	5	-	On request
CLG1.5-18	18	30,0	27,0	18	5	-	On request
CLG1.5-20	20	33,0	30,0	25	8	✔	4,09 €
CLG1.5-24	24	39,0	36,0	28	8	✔	4,48 €
CLG1.5-25	25	40,0	37,5	30	8	✔	4,61 €
CLG1.5-28	28	45,0	42,0	30	8	-	On request
CLG1.5-30	30	48,0	45,0	35	12	✔	5,15 €
CLG1.5-32	32	51,0	48,0	35	12	-	On request
CLG1.5-36	36	57,0	54,0	35	16	-	On request
CLG1.5-38	38	60,0	57,0	35	16	-	On request
CLG1.5-40	40	63,0	60,0	40	16	✔	8,83 €
CLG1.5-42	42	66,0	63,0	45	16	-	On request
CLG1.5-45	45	70,5	67,5	45	16	-	On request
CLG1.5-50	50	78,0	75,0	45	16	✔	11,51 €
CLG1.5-54	54	84,0	81,0	50	20	-	On request
CLG1.5-55	55	85,5	82,5	50	20	-	On request
CLG1.5-60	60	93,0	90,0	60	20	✔	15,65 €
CLG1.5-65	65	100,0	97,5	60	20	-	On request
CLG1.5-70	70	108,0	105,0	60	20	✔	20,21 €
↓	Gears available up to this size						↓
CLG1.5-75	**75**	**115,5**	**112,5**	**60**	**20**	-	On request

*Depending on availability - Dimensions in mm

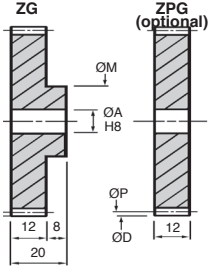
Plastic spur gear

Module 1.5

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**2.4**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG1.5-9	9	15,00	18,00	18	6	0,005	0,002	✔	16,66 €	On request
ZG1.5-10	10	16,50	19,50	18	6	0,005	0,003	✔	16,66 €	
ZG1.5-11	11	18,00	21,00	18	6	0,006	0,003	-	16,66 €	
ZG1.5-12	12	18,00	21,00	18	6	0,006	0,003	✔	16,66 €	
ZG1.5-13	13	19,50	22,50	18	6	0,006	0,004	-	17,49 €	
ZG1.5-14	14	21,00	24,00	20	8	0,007	0,005	-	17,85 €	
ZG1.5-15	15	22,50	25,50	20	8	0,008	0,005	✔	18,10 €	
ZG1.5-16	16	24,00	27,00	20	8	0,009	0,006	✔	18,70 €	
ZG1.5-17	17	25,50	28,50	20	8	0,010	0,007	-	19,27 €	
ZG1.5-18	18	27,00	30,00	24	8	0,012	0,008	✔	19,71 €	
ZG1.5-19	19	28,50	31,50	25	8	0,014	0,009	-	21,52 €	
ZG1.5-20	20	30,00	33,00	25	8	0,015	0,010	✔	22,65 €	
ZG1.5-21	21	31,50	34,50	25	8	0,016	0,011	-	22,76 €	
ZG1.5-22	22	33,00	36,00	25	8	0,017	0,012	-	23,02 €	
ZG1.5-23	23	34,50	37,50	25	8	0,018	0,014	-	23,49 €	
ZG1.5-24	24	36,00	39,00	25	8	0,019	0,015	✔	23,68 €	
ZG1.5-25	25	37,50	40,50	25	8	0,021	0,016	-	25,01 €	
ZG1.5-26	26	39,00	42,00	25	8	0,022	0,017	-	26,11 €	
ZG1.5-27	27	40,50	43,50	25	8	0,024	0,019	-	30,63 €	
ZG1.5-28	28	42,00	45,00	25	8	0,025	0,020	✔	31,49 €	
ZG1.5-29	29	43,50	46,50	25	8	0,027	0,022	-	32,19 €	
ZG1.5-30	30	45,00	48,00	25	8	0,028	0,024	✔	33,06 €	
ZG1.5-31	31	46,50	49,50	28	10	0,031	0,025	-	33,63 €	
ZG1.5-32	32	48,00	51,00	28	10	0,032	0,026	-	34,25 €	

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG1.5-33	33	49,50	52,50	28	10	0,034	0,028	-	34,49 €	On request
ZG1.5-34	34	51,00	54,00	28	10	0,036	0,030	-	41,91 €	
ZG1.5-35	35	52,50	55,50	28	10	0,038	0,032	-	42,25 €	
ZG1.5-36	36	54,00	57,00	28	10	0,040	0,034	✔	44,39 €	
ZG1.5-37	37	55,50	58,50	28	10	0,042	0,036	-	45,47 €	
ZG1.5-38	38	57,00	60,00	28	10	0,044	0,038	-	52,69 €	
ZG1.5-39	39	58,50	61,50	28	10	0,046	0,040	-	53,72 €	
ZG1.5-40	40	60,00	63,00	30	12	0,048	0,041	✔	54,96 €	
ZG1.5-41	41	61,50	64,50	30	12	0,050	0,044	-	55,04 €	
ZG1.5-42	42	63,00	66,00	30	12	0,052	0,046	-	55,19 €	
ZG1.5-43	43	64,50	67,50	30	12	0,055	0,048	-	55,31 €	
ZG1.5-44	44	66,00	69,00	30	12	0,057	0,051	-	55,64 €	
ZG1.5-45	45	67,50	70,50	30	12	0,060	0,053	-	56,02 €	
ZG1.5-46	46	69,00	72,00	30	12	0,062	0,055	-	57,12 €	
ZG1.5-47	47	70,50	73,50	30	12	0,065	0,058	-	58,80 €	
ZG1.5-48	48	72,00	75,00	30	12	0,067	0,060	-	59,95 €	
ZG1.5-49	49	73,50	76,50	30	12	0,070	0,063	-	66,36 €	
ZG1.5-50	50	75,00	78,00	30	12	0,073	0,066	✔	71,07 €	
ZG1.5-51	51	76,50	79,50	36	12	0,078	0,068	-	On request	
ZG1.5-52	52	78,00	81,00	36	12	0,081	0,071	-	74,65 €	
ZG1.5-53	53	79,50	82,50	36	12	0,084	0,074	-	75,72 €	
ZG1.5-54	54	81,00	84,00	36	12	0,087	0,077	-	76,41 €	
ZG1.5-55	55	82,50	85,50	36	12	0,090	0,080	-	77,05 €	
ZG1.5-56	56	84,00	87,00	36	12	0,093	0,083	-	77,60 €	
ZG1.5-57	57	85,50	88,50	36	12	0,096	0,086	-	77,93 €	
ZG1.5-58	58	87,00	90,00	36	12	0,099	0,089	-	78,26 €	
ZG1.5-59	59	88,50	91,50	36	12	0,102	0,092	-	87,38 €	
ZG1.5-60	60	90,00	93,00	36	12	0,106	0,095	✔	87,85 €	
ZG1.5-62	62	93,00	96,00	36	12	0,112	0,102	-	89,53 €	
ZG1.5-64	64	96,00	99,00	36	12	0,119	0,109	-	90,57 €	
ZG1.5-65	65	97,50	100,50	36	12	0,123	0,112	-	102,19 €	
ZG1.5-66	66	99,00	102,00	48	12	0,134	0,116	-	105,92 €	
ZG1.5-68	68	102,00	105,00	48	12	0,142	0,123	-	108,32 €	
ZG1.5-70	70	105,00	108,00	48	12	0,149	0,131	✔	112,28 €	
ZG1.5-71	71	106,50	109,50	48	12	0,153	0,134	-	115,30 €	
ZG1.5-72	72	108,00	111,00	48	12	0,157	0,138	-	105,25 €	
ZG1.5-73	73	109,50	112,50	48	12	0,161	0,142	-	107,81 €	
ZG1.5-74	74	111,00	114,00	48	12	0,165	0,146	-	111,67 €	
ZG1.5-75	75	112,50	115,50	48	12	0,169	0,150	-	126,55 €	
ZG1.5-76	76	114,00	117,00	48	12	0,173	0,154	-	133,21 €	
ZG1.5-78	78	117,00	120,00	48	12	0,182	0,163	-	133,29 €	
ZG1.5-80	80	120,00	123,00	48	12	0,190	0,171	✔	133,86 €	
ZG1.5-86	86	129,00	132,00	48	12	0,217	0,198	-	162,14 €	
ZG1.5-90	90	135,00	138,00	48	12	0,237	0,217	-	154,25 €	
ZG1.5-96	96	144,00	147,00	48	12	0,267	0,247	-	200,70 €	
ZG1.5-100	100	150,00	153,00	48	15	0,288	0,268	-	205,62 €	
↓	Gears available up to this size									
ZG1.5-298	298	447,00	450,00	Dimensions: contact us						

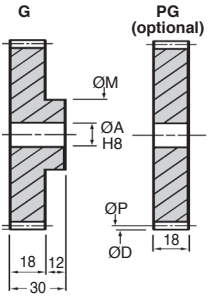
*Depending on availability - Dimensions in mm

Steel spur gear

Module 1.75

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*



Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass	fibre
Nm	**16**	75	8	6.40
kW	**1.72**	7.83	0.86	0.67

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G1.75-9	9	17,50	21,00	21,00	10	0,047	0,022	34,93 €	On request
G1.75-10	10	19,25	22,75	22,75	10	0,059	0,029	34,93 €	
G1.75-11	11	21,00	24,50	24,50	10	0,073	0,037	34,93 €	
G1.75-12	12	21,00	24,50	24,50	10	0,073	0,037	34,93 €	
G1.75-13	13	22,75	26,25	25,00	10	0,083	0,045	35,82 €	
G1.75-14	14	24,50	28,00	25,00	10	0,092	0,054	37,80 €	
G1.75-15	15	26,25	29,75	25,00	10	0,102	0,064	39,48 €	
G1.75-16	16	28,00	31,50	25,00	12	0,104	0,069	40,21 €	
G1.75-17	17	29,75	33,25	25,00	12	0,115	0,080	41,30 €	
G1.75-18	18	31,50	35,00	25,00	12	0,126	0,092	43,08 €	
G1.75-19	19	33,25	36,75	25,00	12	0,139	0,104	44,81 €	
G1.75-20	20	35,00	38,50	30,00	12	0,171	0,117	47,84 €	
G1.75-21	21	36,75	40,25	30,00	12	0,185	0,131	48,94 €	
G1.75-22	22	38,50	42,00	30,00	12	0,199	0,145	49,71 €	
G1.75-23	23	40,25	43,75	30,00	12	0,214	0,160	52,26 €	
G1.75-24	24	42,00	45,50	30,00	12	0,230	0,175	54,57 €	
G1.75-25	25	43,75	47,25	30,00	12	0,246	0,191	54,97 €	
G1.75-26	26	45,50	49,00	30,00	12	0,263	0,208	55,33 €	
G1.75-27	27	47,25	50,75	30,00	12	0,280	0,226	56,29 €	
G1.75-28	28	49,00	52,50	40,00	15	0,335	0,235	56,46 €	
G1.75-29	29	50,75	54,25	40,00	15	0,353	0,254	57,09 €	
G1.75-30	30	52,50	56,00	40,00	15	0,373	0,274	58,68 €	
G1.75-31	31	54,25	57,75	40,00	15	0,393	0,294	59,95 €	
G1.75-32	32	56,00	59,50	40,00	15	0,414	0,315	60,53 €	
G1.75-33	33	57,75	61,25	40,00	15	0,436	0,336	60,85 €	

Dimensions in mm

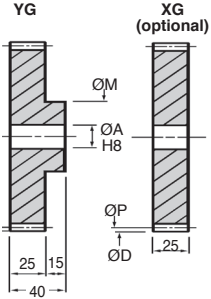
Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	PG	Price each 1 to 5 G	PG
G1.75-34	34	59,50	63,00	40,00	15	0,458	0,359	61,84 €	On request
G1.75-35	35	61,25	64,75	40,00	15	0,481	0,382	61,96 €	
G1.75-36	36	63,00	66,50	50,00	15	0,569	0,405	64,08 €	
G1.75-37	37	64,75	68,25	50,00	15	0,593	0,429	66,97 €	
G1.75-38	38	66,50	70,00	50,00	15	0,618	0,454	68,49 €	
G1.75-39	39	68,25	71,75	50,00	15	0,644	0,480	70,46 €	
G1.75-40	40	70,00	73,50	50,00	15	0,670	0,506	72,00 €	
G1.75-41	41	71,75	75,25	50,00	15	0,697	0,533	73,03 €	
G1.75-42	42	73,50	77,00	50,00	15	0,724	0,560	74,65 €	
G1.75-43	43	75,25	78,75	50,00	15	0,752	0,588	77,45 €	
G1.75-44	44	77,00	80,50	50,00	15	0,781	0,617	78,53 €	
G1.75-45	45	78,75	82,25	60,00	20	0,858	0,628	79,63 €	
G1.75-46	46	80,50	84,00	60,00	20	0,889	0,658	81,22 €	
G1.75-47	47	82,25	85,75	60,00	20	0,919	0,689	82,68 €	
G1.75-48	48	84,00	87,50	60,00	20	0,951	0,720	84,86 €	
G1.75-49	49	85,75	89,25	60,00	20	0,983	0,752	88,07 €	
G1.75-50	50	87,50	91,00	60,00	20	1,016	0,785	89,04 €	
G1.75-51	51	89,25	92,75	60,00	20	1,049	0,818	91,28 €	
G1.75-52	52	91,00	94,50	60,00	20	1,083	0,853	93,54 €	
G1.75-53	53	92,75	96,25	60,00	20	1,118	0,887	95,96 €	
G1.75-54	54	94,50	98,00	80,00	20	1,356	0,923	103,54 €	
G1.75-55	55	96,25	99,75	80,00	20	1,392	0,959	106,63 €	
G1.75-56	56	98,00	101,50	80,00	20	1,428	0,996	111,19 €	
G1.75-57	57	99,75	103,25	80,00	20	1,466	1,033	114,79 €	
G1.75-58	58	101,50	105,00	80,00	20	1,504	1,071	118,32 €	
G1.75-59	59	103,25	106,75	80,00	20	1,543	1,110	122,11 €	
G1.75-60	60	105,00	108,50	80,00	20	1,582	1,149	127,05 €	
G1.75-62	62	108,50	112,00	80,00	20	1,663	0,230	130,19 €	
G1.75-64	64	112,00	115,50	80,00	20	1,746	1,314	134,01 €	
G1.75-65	65	113,75	117,25	80,00	20	1,789	1,356	138,19 €	
G1.75-66	66	115,50	119,00	80,00	20	1,833	1,400	142,46 €	
G1.75-68	68	119,00	122,50	80,00	20	1,921	1,489	146,63 €	
G1.75-70	70	122,50	126,00	100,00	20	2,272	1,580	150,65 €	
G1.75-71	71	124,25	127,75	100,00	20	2,319	1,627	152,77 €	
G1.75-72	72	126,00	129,50	100,00	20	2,367	1,674	155,62 €	
G1.75-73	73	127,75	131,25	100,00	20	2,415	1,722	157,90 €	
G1.75-74	74	129,50	133,00	100,00	20	2,463	1,771	160,26 €	
G1.75-75	75	131,25	134,75	100,00	20	2,513	1,820	162,63 €	
G1.75-76	76	133,00	136,50	100,00	20	2,563	1,870	164,99 €	
G1.75-78	78	136,50	140,00	100,00	20	2,665	1,972	177,86 €	
G1.75-80	80	140,00	143,50	100,00	20	2,769	2,077	188,35 €	
G1.75-86	86	150,50	154,00	100,00	20	3,099	2,407	211,80 €	
G1.75-90	90	157,50	161,00	100,00	20	3,333	2,640	231,89 €	
G1.75-96	96	168,00	171,50	100,00	20	3,702	3,010	256,58 €	
G1.75-98	98	171,50	175,00	100,00	20	3,831	3,139	266,94 €	
G1.75-100	100	175,00	178,50	100,00	20	3,962	3,270	278,69 €	
G1.75-105	105	183,75	187,25	100,00	20	4,302	3,609	On request	
G1.75-110	110	192,50	196,00	100,00	20	4,658	3,965	On request	
G1.75-115	115	201,25	204,75	100,00	20	5,031	4,338	On request	
G1.75-120	120	210,00	213,50	100,00	20	5,420	4,727	On request	
↓ Gears available up to this size									
G1.75-335	**335**	**586,25**	**589,75**			**Dimensions: contact us**			

Dimensions in mm

Module 1.75

Steel 35NCD6

- **Higher torque**
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min



Options

- Material :
  20NCD2 case-hardened

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	**48**	69	48	132
kW	**4.998**	7.16	4.99	13.8

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG1.75-9	9	17,50	21,00	21,00	10	0,062	0,031	43,81 €	On request
YG1.75-10	10	19,25	22,75	22,75	10	0,078	0,041	43,81 €	
YG1.75-11	11	21,00	24,50	24,50	10	0,096	0,051	43,81 €	
YG1.75-12	12	21,00	24,50	24,50	10	0,096	0,051	43,81 €	
YG1.75-13	13	22,75	26,25	25,00	10	0,110	0,063	44,89 €	
YG1.75-14	14	24,50	28,00	25,00	10	0,122	0,075	47,42 €	
YG1.75-15	15	26,25	29,75	25,00	10	0,136	0,089	49,43 €	
YG1.75-16	16	28,00	31,50	25,00	12	0,140	0,096	50,28 €	
YG1.75-17	17	29,75	33,25	25,00	12	0,155	0,111	51,70 €	
YG1.75-18	18	31,50	35,00	25,00	12	0,171	0,127	54,00 €	
YG1.75-19	19	33,25	36,75	25,00	12	0,188	0,144	56,13 €	
YG1.75-20	20	35,00	38,50	30,00	12	0,231	0,162	59,97 €	
YG1.75-21	21	36,75	40,25	30,00	12	0,249	0,181	61,33 €	
YG1.75-22	22	38,50	42,00	30,00	12	0,269	0,201	62,29 €	
YG1.75-23	23	40,25	43,75	30,00	12	0,290	0,222	65,44 €	
YG1.75-24	24	42,00	45,50	30,00	12	0,312	0,243	68,39 €	
YG1.75-25	25	43,75	47,25	30,00	12	0,334	0,266	68,84 €	
YG1.75-26	26	45,50	49,00	30,00	12	0,358	0,289	69,25 €	
YG1.75-27	27	47,25	50,75	30,00	12	0,382	0,314	70,46 €	
YG1.75-28	28	49,00	52,50	40,00	15	0,451	0,327	70,72 €	
YG1.75-29	29	50,75	54,25	40,00	15	0,477	0,353	71,33 €	
YG1.75-30	30	52,50	56,00	40,00	15	0,504	0,380	73,35 €	
YG1.75-31	31	54,25	57,75	40,00	15	0,532	0,408	74,84 €	
YG1.75-32	32	56,00	59,50	40,00	15	0,561	0,437	75,71 €	
YG1.75-33	33	57,75	61,25	40,00	15	0,591	0,467	76,15 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG1.75-34	34	59,50	63,00	40,00	15	0,622	0,498	77,45 €	
YG1.75-35	35	61,25	64,75	40,00	15	0,654	0,530	77,60 €	
YG1.75-36	36	63,00	66,50	50,00	15	0,768	0,563	80,10 €	
YG1.75-37	37	64,75	68,25	50,00	15	0,801	0,596	83,74 €	
YG1.75-38	38	66,50	70,00	50,00	15	0,836	0,631	85,70 €	
YG1.75-39	39	68,25	71,75	50,00	15	0,871	0,666	88,13 €	
YG1.75-40	40	70,00	73,50	50,00	15	0,908	0,702	90,02 €	
YG1.75-41	41	71,75	75,25	50,00	15	0,945	0,740	91,39 €	
YG1.75-42	42	73,50	77,00	50,00	15	0,983	0,778	93,51 €	
YG1.75-43	43	75,25	78,75	50,00	15	1,022	0,817	96,96 €	
YG1.75-44	44	77,00	80,50	50,00	15	1,062	0,857	98,27 €	
YG1.75-45	45	78,75	82,25	60,00	20	1,160	0,872	99,68 €	
YG1.75-46	46	80,50	84,00	60,00	20	1,202	0,914	101,55 €	
YG1.75-47	47	82,25	85,75	60,00	20	1,245	0,956	103,41 €	
YG1.75-48	48	84,00	87,50	60,00	20	1,289	1,000	106,20 €	
YG1.75-49	49	85,75	89,25	60,00	20	1,333	1,045	110,06 €	
YG1.75-50	50	87,50	91,00	60,00	20	1,379	1,090	111,38 €	
YG1.75-51	51	89,25	92,75	60,00	20	1,425	1,137	114,20 €	
YG1.75-52	52	91,00	94,50	60,00	20	1,473	1,184	117,03 €	
YG1.75-53	53	92,75	96,25	60,00	20	1,521	1,232	120,01 €	
YG1.75-54	54	94,50	98,00	80,00	20	1,823	1,282	129,44 €	
YG1.75-55	55	96,25	99,75	80,00	20	1,873	1,332	133,48 €	
YG1.75-56	56	98,00	101,50	80,00	20	1,924	1,383	139,17 €	
YG1.75-57	57	99,75	103,25	80,00	20	1,976	1,435	143,57 €	
YG1.75-58	58	101,50	105,00	80,00	20	2,029	1,488	148,02 €	
YG1.75-59	59	103,25	106,75	80,00	20	2,083	1,542	152,77 €	
YG1.75-60	60	105,00	108,50	80,00	20	2,137	1,596	158,93 €	
YG1.75-62	62	108,50	112,00	80,00	20	2,250	1,709	162,76 €	
YG1.75-64	64	112,00	115,50	80,00	20	2,366	1,825	168,89 €	
YG1.75-65	65	113,75	117,25	80,00	20	2,425	1,884	172,93 €	
YG1.75-66	66	115,50	119,00	80,00	20	2,485	1,944	178,03 €	
YG1.75-68	68	119,00	122,50	80,00	20	2,608	2,068	183,37 €	
YG1.75-70	70	122,50	126,00	100,00	20	3,060	2,195	188,23 €	
YG1.75-71	71	124,25	127,75	100,00	20	3,125	2,259	190,95 €	
YG1.75-72	72	126,00	129,50	100,00	20	3,191	2,325	194,57 €	
YG1.75-73	73	127,75	131,25	100,00	20	3,257	2,392	197,47 €	
YG1.75-74	74	129,50	133,00	100,00	20	3,325	2,460	200,49 €	
YG1.75-75	75	131,25	134,75	100,00	20	3,394	2,528	203,34 €	
YG1.75-76	76	133,00	136,50	100,00	20	3,463	2,598	206,36 €	
YG1.75-78	78	136,50	140,00	100,00	20	3,605	2,739	222,31 €	
YG1.75-80	80	140,00	143,50	100,00	20	3,750	2,885	257,48 €	
YG1.75-86	86	150,50	154,00	100,00	20	4,209	3,343	325,70 €	
YG1.75-90	90	157,50	161,00	100,00	20	4,532	3,667	289,93 €	
YG1.75-96	96	168,00	171,50	100,00	20	5,046	4,181	321,56 €	
YG1.75-98	98	171,50	175,00	100,00	20	5,225	4,359	333,84 €	
YG1.75-100	100	175,00	178,50	100,00	20	5,407	4,541	348,40 €	
YG1.75-105	105	183,75	187,25	100,00	20	5,878	5,013	On request	
YG1.75-110	110	192,50	196,00	100,00	20	6,373	5,508	On request	
YG1.75-115	115	201,25	204,75	100,00	20	6,891	6,025	On request	
YG1.75-120	120	210,00	213,50	100,00	20	7,431	6,566	On request	
↓		Gears available up to this size							
YG1.75-335	335	586,25	589,75	Dimensions: contact us					

On request

Dimensions in mm

Steel spur gear economy range

Stock Eco

Module 2,0

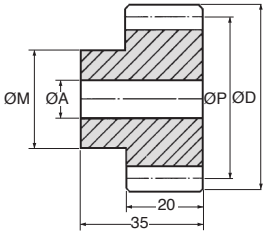
C45 steel

- **Economy range of gears**
- Pressure angle 20°
- Material:
  C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**

Economy range



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each
G2-12/ECO	12	24	28	18	10	0,080	✔	3,75 €
G2-13/ECO	13	26	30	19	10	0,100	-	4,04 €
G2-14/ECO	14	28	32	20	10	0,120	✔	4,47 €
G2-15/ECO	15	30	34	22	10	0,140	✔	4,80 €
G2-16/ECO	16	32	36	24	10	0,160	✔	5,57 €
G2-17/ECO	17	34	38	25	10	0,180	✔	5,62 €
G2-18/ECO	18	36	40	25	10	0,190	✔	5,74 €
G2-19/ECO	19	38	42	25	10	0,210	✔	6,16 €
G2-20/ECO	20	40	44	30	10	0,260	✔	6,70 €
G2-21/ECO	21	42	46	30	12	0,270	✔	6,88 €
G2-22/ECO	22	44	48	30	12	0,290	✔	7,54 €
G2-23/ECO	23	46	50	30	12	0,310	-	7,80 €
G2-24/ECO	24	48	52	35	12	0,360	✔	8,44 €
G2-25/ECO	25	50	54	35	12	0,390	✔	9,03 €
G2-26/ECO	26	52	56	40	12	0,450	-	9,08 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each
G2-27/ECO	27	54	58	40	12	0,470	✔	9,81 €
G2-28/ECO	28	56	60	40	12	0,500	✔	10,29 €
G2-29/ECO	29	58	62	40	14	0,520	-	10,55 €
G2-30/ECO	30	60	64	40	14	0,550	✔	11,22 €
G2-31/ECO	31	62	66	45	14	0,610	✔	11,73 €
G2-32/ECO	32	64	68	45	14	0,650	✔	11,99 €
G2-33/ECO	33	66	70	45	14	0,680	✔	12,86 €
G2-34/ECO	34	68	72	45	14	0,710	✔	13,02 €
G2-35/ECO	35	70	74	45	14	0,740	✔	13,94 €
G2-36/ECO	36	72	76	45	14	0,780	✔	14,20 €
G2-37/ECO	37	74	78	50	14	0,860	-	14,61 €
G2-38/ECO	38	76	80	50	14	0,900	✔	15,66 €
G2-39/ECO	39	78	82	50	14	0,930	-	16,33 €
G2-40/ECO	40	80	84	50	14	0,970	✔	17,08 €
G2-41/ECO	41	82	86	60	16	1,050	-	17,59 €
G2-42/ECO	42	84	88	60	16	1,090	✔	18,06 €
G2-43/ECO	43	86	90	60	16	1,130	-	19,14 €
G2-44/ECO	44	88	92	60	16	1,230	✔	19,35 €
G2-45/ECO	45	90	94	60	16	1,270	✔	20,72 €
G2-46/ECO	46	92	96	60	16	1,310	-	20,96 €
G2-47/ECO	47	94	98	60	16	1,480	✔	21,95 €
G2-48/ECO	48	96	100	70	16	1,530	✔	23,74 €
G2-49/ECO	49	98	102	70	16	1,570	-	26,05 €
G2-50/ECO	50	100	104	70	16	1,620	✔	25,96 €
G2-51/ECO	51	102	106	70	20	1,670	-	26,34 €
G2-52/ECO	52	104	108	70	20	1,720	-	27,42 €
G2-53/ECO	53	106	110	70	20	1,780	-	28,38 €
G2-54/ECO	54	108	112	70	20	1,830	-	28,06 €
G2-55/ECO	55	110	114	70	20	1,880	-	30,02 €
G2-56/ECO	56	112	116	70	20	1,940	-	32,51 €
G2-57/ECO	57	114	118	70	20	1,990	-	33,52 €
G2-58/ECO	58	116	120	70	20	2,050	✔	34,59 €
G2-59/ECO	59	118	122	70	20	2,110	-	35,34 €
G2-60/ECO	60	120	124	70	20	2,160	✔	35,93 €
G2-61/ECO	61	122	126	80	20	2,360	-	36,73 €
G2-62/ECO	62	124	128	80	20	2,420	-	38,64 €
G2-63/ECO	63	126	130	80	20	2,480	-	39,13 €
G2-64/ECO	64	128	132	80	20	2,550	-	40,45 €
G2-65/ECO	65	130	134	80	20	2,610	✔	42,24 €
G2-66/ECO	66	132	136	80	20	2,670	✔	42,99 €
G2-67/ECO	67	134	138	80	20	2,740	-	43,12 €
G2-68/ECO	68	136	140	80	20	2,810	-	43,38 €
G2-69/ECO	69	138	142	80	20	2,870	-	43,32 €
G2-70/ECO	70	140	144	80	20	2,940	✔	43,64 €

*Depending on availability - Dimensions in mm

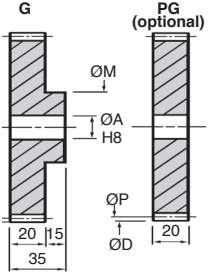
Steel spur gear

Module 2.0

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass
Nm	**25**	119	12.50
kW	**2.61**	12.51	1.32



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Stock*	Price each 1 to 5 G	Price each 1 to 5 PG
G2-9	9	20,00	24,00	24	12	0,070	0,031	✔	43,43 €	On request
G2-10	10	22,00	26,00	26	12	0,089	0,041	✔	43,43 €	
G2-11	11	24,00	28,00	28	12	0,110	0,052	-	43,43 €	
G2-12	12	24,00	28,00	28	12	0,110	0,052	✔	27,21 €	
G2-13	13	26,00	30,00	20	12	0,087	0,064	✔	45,95 €	
G2-14	14	28,00	32,00	20	12	0,100	0,077	✔	48,55 €	
G2-15	15	30,00	34,00	25	15	0,117	0,081	✔	32,08 €	
G2-16	16	32,00	36,00	25	15	0,132	0,096	✔	33,73 €	
G2-17	17	34,00	38,00	25	15	0,148	0,112	-	54,82 €	
G2-18	18	36,00	40,00	30	15	0,190	0,129	✔	35,36 €	
G2-19	19	38,00	42,00	30	15	0,207	0,147	-	57,74 €	
G2-20	20	40,00	44,00	30	15	0,226	0,165	✔	36,98 €	
G2-21	21	42,00	46,00	30	15	0,246	0,185	-	60,48 €	
G2-22	22	44,00	48,00	35	15	0,296	0,206	✔	62,73 €	
G2-23	23	46,00	50,00	35	15	0,317	0,227	-	On request	
G2-24	24	48,00	52,00	35	15	0,340	0,250	✔	40,25 €	
G2-25	25	50,00	54,00	35	15	0,364	0,273	✔	67,70 €	
G2-26	26	52,00	56,00	35	15	0,388	0,298	✔	69,84 €	
G2-27	27	54,00	58,00	40	20	0,411	0,302	-	On request	
G2-28	28	56,00	60,00	40	20	0,437	0,329	✔	73,89 €	
G2-29	29	58,00	62,00	40	20	0,464	0,356	-	75,70 €	
G2-30	30	60,00	64,00	40	20	0,493	0,385	✔	48,60 €	
G2-31	31	62,00	66,00	40	20	0,522	0,414	-	80,43 €	
G2-32	32	64,00	68,00	40	20	0,552	0,444	✔	52,85 €	
G2-33	33	66,00	70,00	40	20	0,584	0,476	-	85,70 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Stock*	Price each 1 to 5 G	Price each 1 to 5 PG
G2-34	34	68,00	72,00	40	20	0,616	0,508	✔	89,88 €	
G2-35	35	70,00	74,00	50	20	0,730	0,541	✔	92,74 €	
G2-36	36	72,00	76,00	50	20	0,764	0,575	✔	61,65 €	
G2-37	37	74,00	78,00	50	20	0,799	0,610	-	99,24 €	
G2-38	38	76,00	80,00	50	20	0,836	0,646	-	101,87 €	
G2-39	39	78,00	82,00	50	20	0,873	0,683	-	On request	
G2-40	40	80,00	84,00	50	20	0,911	0,721	✔	106,20 €	
G2-41	41	82,00	86,00	50	20	0,949	0,760	-	108,20 €	
G2-42	42	84,00	88,00	50	20	0,989	0,800	-	109,43 €	
G2-43	43	86,00	90,00	50	20	1,030	0,841	-	110,77 €	
G2-44	44	88,00	92,00	50	20	1,072	0,883	✔	112,50 €	
G2-45	45	90,00	94,00	50	20	1,115	0,926	✔	114,21 €	
G2-46	46	92,00	96,00	50	20	1,159	0,969	-	116,85 €	
G2-47	47	94,00	98,00	50	20	1,203	1,014	-	119,45 €	
G2-48	48	96,00	100,00	50	20	1,249	1,060	✔	122,98 €	
G2-49	49	98,00	102,00	50	20	1,296	1,106	-	126,85 €	
G2-50	50	100,00	104,00	50	20	1,343	1,154	✔	131,66 €	
G2-51	51	102,00	106,00	50	20	1,392	1,202	-	134,21 €	
G2-52	52	104,00	108,00	50	20	1,441	1,252	-	136,55 €	
G2-53	53	106,00	110,00	50	20	1,492	1,302	-	138,12 €	
G2-54	54	108,00	112,00	50	20	1,543	1,354	-	On request	
G2-55	55	110,00	114,00	50	20	1,596	1,406	-	154,21 €	
G2-56	56	112,00	116,00	50	20	1,649	1,460	-	157,49 €	
G2-57	57	114,00	118,00	50	20	1,703	1,514	-	160,63 €	
G2-58	58	116,00	120,00	50	20	1,759	1,569	-	163,45 €	
G2-59	59	118,00	122,00	50	20	1,815	1,626	-	165,36 €	
G2-60	60	120,00	124,00	50	20	1,872	1,683	✔	167,64 €	
G2-62	62	124,00	128,00	50	20	1,989	1,800	-	171,76 €	
G2-64	64	128,00	132,00	50	20	2,211	1,921	-	175,93 €	
G2-65	65	130,00	134,00	50	20	2,173	1,983	-	184,30 €	
G2-66	66	132,00	136,00	50	20	2,236	2,046	-	187,42 €	
G2-68	68	136,00	140,00	50	20	2,364	2,175	-	190,22 €	
G2-70	70	140,00	144,00	50	20	2,497	2,308	-	On request	
G2-71	71	142,00	146,00	70	20	2,781	2,376	-	205,83 €	
G2-72	72	144,00	148,00	70	20	2,850	2,444	-	218,33 €	
G2-73	73	146,00	150,00	70	20	2,920	2,514	-	227,17 €	
G2-74	74	148,00	152,00	70	20	2,990	2,585	-	233,55 €	
G2-75	75	150,00	154,00	70	20	3,062	2,656	-	241,39 €	
G2-76	76	152,00	156,00	70	20	3,135	2,729	-	253,15 €	
G2-78	78	156,00	160,00	70	20	3,283	2,877	-	266,29 €	
G2-80	80	160,00	164,00	70	20	3,435	3,029	✔	292,17 €	
G2-86	86	172,00	176,00	70	20	3,914	3,508	-	314,32 €	
G2-90	90	180,00	184,00	70	20	4,252	3,846	-	348,83 €	
G2-96	96	192,00	196,00	70	20	4,789	4,383	-	373,46 €	
G2-98	98	196,00	200,00	70	20	4,975	4,570	-	406,49 €	
G2-100	100	200,00	204,00	70	20	5,166	4,760	-	433,76 €	
G2-105	105	210,00	214,00	70	20	5,658	5,253	-	449,89 €	
G2-110	110	220,00	224,00	70	20	6,175	5,770	-	480,67 €	
G2-115	115	230,00	234,00	70	20	6,716	6,311	-	514,12 €	
G2-120	120	240,00	244,00	70	20	7,281	6,875	-	558,60 €	
↓	Gears available up to this size								↓	
G2-290	290	580,00	584,00	Dimensions : contact us					on request	

On request

*Depending on availability - Dimensions in mm

Module 2.0

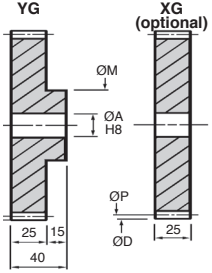
Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*

Options

- *Material :*
  20NCD2 case-hardened

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	**70**	*103*	*70*	*195*
kW	**7.43**	*10.85*	*7.43*	*20.14*



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Stock*	Price each 1 to 5 YG	Price each 1 to 5 XG
YG2-9	9	20,00	24,00	24	12	0,077	0,038	-	54,10 €	On request
YG2-10	10	22,00	26,00	26	12	0,099	0,051	-	54,10 €	
YG2-11	11	24,00	28,00	28	12	0,123	0,065	-	54,10 €	
YG2-12	12	24,00	28,00	28	12	0,123	0,065	✔	54,10 €	
YG2-13	13	26,00	30,00	30	12	0,148	0,080	-	57,28 €	
YG2-14	14	28,00	32,00	30	12	0,164	0,096	-	60,58 €	
YG2-15	15	30,00	34,00	30	15	0,162	0,101	✔	63,75 €	
YG2-16	16	32,00	36,00	30	15	0,181	0,120	-	66,82 €	
YG2-17	17	34,00	38,00	35	15	0,230	0,140	-	68,39 €	
YG2-18	18	36,00	40,00	35	15	0,251	0,161	✔	70,20 €	
YG2-19	19	38,00	42,00	35	15	0,273	0,183	-	72,00 €	
YG2-20	20	40,00	44,00	35	15	0,297	0,207	-	73,49 €	
YG2-21	21	42,00	46,00	35	15	0,321	0,231	✔	75,50 €	
YG2-22	22	44,00	48,00	35	15	0,347	0,257	-	76,81 €	
YG2-23	23	46,00	50,00	35	15	0,374	0,284	✔	78,16 €	
YG2-24	24	48,00	52,00	35	15	0,403	0,312	✔	79,86 €	
YG2-25	25	50,00	54,00	35	15	0,432	0,342	✔	84,52 €	
YG2-26	26	52,00	56,00	35	15	0,463	0,372	-	87,09 €	
YG2-27	27	54,00	58,00	50	20	0,567	0,378	-	90,08 €	
YG2-28	28	56,00	60,00	50	20	0,600	0,411	-	92,07 €	
YG2-29	29	58,00	62,00	50	20	0,635	0,445	-	94,46 €	
YG2-30	30	60,00	64,00	50	20	0,670	0,481	✔	96,50 €	
YG2-31	31	62,00	66,00	50	20	0,707	0,517	-	100,30 €	
YG2-32	32	64,00	68,00	50	20	0,745	0,555	-	104,81 €	
YG2-33	33	66,00	70,00	50	20	0,784	0,594	-	106,93 €	

**Depending on availability - Dimensions in mm*

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Stock*	Price each 1 to 5 YG	XG
YG2-34	34	68,00	72,00	50	20	0,824	0,635	-	112,05 €	
YG2-35	35	70,00	74,00	50	20	0,865	0,676	-	115,68 €	
YG2-36	36	72,00	76,00	50	20	0,908	0,719	-	122,28 €	
YG2-37	37	74,00	78,00	50	20	0,952	0,763	-	123,83 €	
YG2-38	38	76,00	80,00	50	20	0,997	0,808	-	126,96 €	
YG2-39	39	78,00	82,00	50	20	1,043	0,854	-	130,03 €	
YG2-40	40	80,00	84,00	50	20	1,091	0,902	✔	132,33 €	
YG2-41	41	82,00	86,00	50	20	1,139	0,950	-	134,76 €	
YG2-42	42	84,00	88,00	50	20	1,189	1,000	-	136,41 €	
YG2-43	43	86,00	90,00	60	20	1,340	1,051	-	138,09 €	
YG2-44	44	88,00	92,00	60	20	1,392	1,103	-	140,33 €	
YG2-45	45	90,00	94,00	60	20	1,445	1,157	✔	142,39 €	
YG2-46	46	92,00	96,00	60	20	1,500	1,212	-	145,69 €	
YG2-47	47	94,00	98,00	60	20	1,556	1,268	-	148,96 €	
YG2-48	48	96,00	100,00	60	20	1,613	1,325	✔	153,25 €	
YG2-49	49	98,00	102,00	60	20	1,671	1,383	-	158,12 €	
YG2-50	50	100,00	104,00	60	20	1,731	1,442	✔	164,05 €	
YG2-51	51	102,00	106,00	60	20	1,792	1,503	-	167,38 €	
YG2-52	52	104,00	108,00	60	20	1,853	1,565	-	170,24 €	
YG2-53	53	106,00	110,00	60	20	1,917	1,628	-	172,22 €	
YG2-54	54	108,00	112,00	60	20	1,981	1,692	-	175,05 €	
YG2-55	55	110,00	114,00	60	20	2,046	1,758	-	192,12 €	
YG2-56	56	112,00	116,00	60	20	2,113	1,825	-	196,22 €	
YG2-57	57	114,00	118,00	60	20	2,181	1,893	-	200,17 €	
YG2-58	58	116,00	120,00	60	20	2,250	1,962	-	203,83 €	
YG2-59	59	118,00	122,00	60	20	2,320	2,032	-	206,07 €	
YG2-60	60	120,00	124,00	60	20	2,392	2,104	✔	209,21 €	
YG2-62	62	124,00	128,00	75	20	2,721	2,250	-	214,09 €	
YG2-64	64	128,00	132,00	75	20	2,873	2,402	-	219,35 €	
YG2-65	65	130,00	134,00	75	20	2,950	2,479	-	229,68 €	
YG2-66	66	132,00	136,00	75	20	3,029	2,558	-	233,55 €	
YG2-68	68	136,00	140,00	75	20	3,190	2,719	-	237,20 €	
YG2-70	70	140,00	144,00	75	20	3,356	2,885	-	257,48 €	
YG2-71	71	142,00	146,00	75	20	3,441	2,970	-	257,48 €	
YG2-72	72	144,00	148,00	75	20	3,527	3,055	-	272,12 €	
YG2-73	73	146,00	150,00	75	20	3,614	3,143	-	283,03 €	
YG2-74	74	148,00	152,00	75	20	3,702	3,231	-	291,08 €	
YG2-75	75	150,00	154,00	75	20	3,792	3,321	-	300,76 €	
YG2-76	76	152,00	156,00	75	20	3,882	3,411	-	315,53 €	
YG2-78	78	156,00	160,00	100	20	4,462	3,596	-	331,95 €	
YG2-80	80	160,00	164,00	100	20	4,652	3,786	-	364,21 €	
YG2-86	86	172,00	176,00	100	20	5,250	4,385	-	391,83 €	
YG2-90	90	180,00	184,00	100	20	5,673	4,808	-	434,77 €	
YG2-96	96	192,00	196,00	100	20	6,344	5,479	-	465,43 €	
YG2-98	98	196,00	200,00	100	20	6,577	5,712	-	465,43 €	
YG2-100	100	200,00	204,00	100	20	6,815	5,950	-	540,52 €	
YG2-105	105	210,00	214,00	100	20	7,431	6,566	-	560,54 €	
YG2-110	110	220,00	224,00	100	20	8,077	7,212	-	598,99 €	
YG2-115	115	230,00	234,00	100	20	8,754	7,888	-	640,59 €	
YG2-120	120	240,00	244,00	100	20	9,460	8,594	-	696,17 €	
↓	Gears available up to this size									
YG2-290	290	580,00	584,00	Dimensions: contact us						

On request

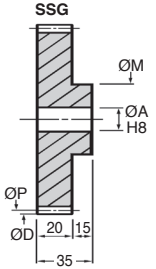
*Depending on availability - Dimensions in mm

Stainless steel spur gear

Module 2.0

304L stainless steel

- ***Quality standard 9***
- *Pressure angle 20°*



Torque and power indication		
For 50 teeth at 1000 rpm		
	StS 304L	*brass*
Nm	**25**	*12,50*
kW	**2,61**	*1,32*

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-12%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG2-12-304L	12	24	28	28	12	64,52 €
SSG2-15-304L	15	30	34	25	15	55,89 €
SSG2-16-304L	16	32	36	25	15	59,48 €
SSG2-18-304L	18	36	40	30	15	67,51 €
SSG2-20-304L	20	40	44	30	15	72,13 €
SSG2-22-304L	22	44	48	35	15	81,10 €
SSG2-24-304L	24	48	52	35	15	89,32 €
SSG2-30-304L	30	60	64	40	20	116,42 €
SSG2-32-304L	32	64	68	40	20	120,29 €
SSG2-36-304L	36	72	76	50	20	139,84 €
SSG2-40-304L	40	80	84	50	20	224,52 €
SSG2-44-304L	44	88	92	50	20	308,57 €
SSG2-46-304L	46	92	96	50	20	308,57 €
SSG2-48-304L	48	96	100	50	20	308,57 €
SSG2-50-304L	50	100	104	50	20	354,00 €
SSG2-54-304L	54	108	112	50	20	354,00 €
SSG2-56-304L	56	112	116	50	20	403,89 €
SSG2-60-304L	60	120	124	50	20	403,89 €
SSG2-64-304L	64	128	132	50	20	459,33 €
SSG2-66-304L	66	132	136	50	20	487,78 €
SSG2-70-304L	70	140	144	50	20	507,66 €
↓	**Gears available up to this size**					
SSG2-290-304L	**290**	**580**	**584**	**Dimensions: contact us**		

**Depending on availability - Dimensions in mm*

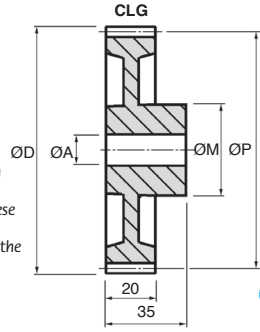
Moulded plastic spur gear

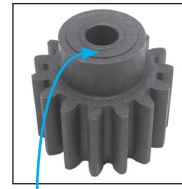
Nylon PA6 moulded

Module 2.0

Economy range

- ***Moulded parts***
- *Pressure angle 20°*
- *Material:*
  Nylon 6 glass fibres 30% reinforced





Options

- ***Alternative number of teeth (up to 78)***
- *HPC are unable to modify these parts. For parts that can be modified to order, please see the* **ZG** *and* **ZPG** *ranges.*

Info.

- *Moulded pilot bore must be machined to suit theapplication*
- ***Pilot bore dimension given as a guide only*

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Teeth Z	External ØD	PCD ØP	Boss ØM	Pilot bore ØA**	Stock*	Price each 1 to 9
CLG2-12	12	28	24	18	8	✔	3,97 €
CLG2-15	15	35	30	22	8	✔	4,15 €
CLG2-16	16	36	32	25	8	✔	4,86 €
CLG2-20	20	44	40	30	10	✔	5,67 €
CLG2-24	24	52	48	35	10	✔	7,38 €
CLG2-25	25	54	50	35	10	✔	7,80 €
CLG2-26	26	56	52	40	14	-	On request
CLG2-30	30	64	60	40	14	✔	9,63 €
CLG2-32	32	68	64	45	16	✔	10,13 €
CLG2-34	34	72	68	45	16	-	On request
CLG2-35	35	74	70	45	16	-	On request
CLG2-36	36	76	72	50	16	✔	13,21 €
CLG2-40	40	84	80	50	16	✔	15,39 €
CLG2-45	45	94	90	60	16	-	On request
CLG2-48	48	100	96	60	16	-	On request
CLG2-50	50	104	100	60	20	✔	18,75 €
CLG2-60	60	124	120	60	20	✔	23,81 €
CLG2-65	65	134	130	60	20	✔	24,31 €
CLG2-70	70	144	140	60	20	✔	26,01 €
CLG2-72	72	148	144	60	20	-	On request
CLG2-75	75	154	150	60	20	-	On request
↓	Gears available up to this size						↓
CLG2-78	**78**	**160**	**156**	**60**	**25**	-	**On request**

**Depending on availability - Dimensions in mm*

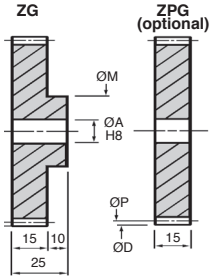
Plastic spur gear

Module 2.0

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**6**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG2-9	9	20,00	24,00	24	10	0,009	0,005	✔	12,91 €	On request
ZG2-10	10	22,00	26,00	24	10	0,011	0,006	-	12,91 €	
ZG2-11	11	24,00	28,00	24	10	0,012	0,007	-	12,91 €	
ZG2-12	12	24,00	28,00	24	10	0,012	0,007	✔	12,91 €	
ZG2-13	13	26,00	30,00	24	10	0,014	0,009	-	13,64 €	
ZG2-14	14	28,00	32,00	24	10	0,015	0,010	✔	14,40 €	
ZG2-15	15	30,00	34,00	25	12	0,016	0,011	✔	15,21 €	
ZG2-16	16	32,00	36,00	27	12	0,019	0,013	✔	16,36 €	
ZG2-17	17	34,00	38,00	30	12	0,023	0,015	-	16,90 €	
ZG2-18	18	36,00	40,00	30	12	0,025	0,017	✔	17,66 €	
ZG2-19	19	38,00	42,00	30	12	0,027	0,020	✔	18,29 €	
ZG2-20	20	40,00	44,00	30	12	0,030	0,022	✔	18,81 €	
ZG2-21	21	42,00	46,00	30	12	0,032	0,025	✔	22,51 €	
ZG2-22	22	44,00	48,00	35	12	0,038	0,027	✔	22,90 €	
ZG2-23	23	46,00	50,00	35	12	0,041	0,030	-	23,39 €	
ZG2-24	24	48,00	52,00	35	12	0,044	0,033	✔	23,87 €	
ZG2-25	25	50,00	54,00	35	12	0,047	0,036	✔	30,29 €	
ZG2-26	26	52,00	56,00	35	12	0,050	0,039	-	31,22 €	
ZG2-27	27	54,00	58,00	35	12	0,053	0,042	✔	32,38 €	
ZG2-28	28	56,00	60,00	35	12	0,056	0,045	-	33,07 €	
ZG2-29	29	58,00	62,00	35	12	0,060	0,049	-	33,89 €	
ZG2-30	30	60,00	64,00	35	12	0,063	0,052	✔	39,27 €	
ZG2-31	31	62,00	66,00	35	12	0,067	0,056	-	40,78 €	
ZG2-32	32	64,00	68,00	35	12	0,071	0,060	-	42,70 €	
ZG2-33	33	66,00	70,00	35	12	0,075	0,064	✔	43,48 €	

**Depending on availability - Dimensions in mm*

DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG2-34	34	68,00	72,00	35	12	0,079	0,068	✔	45,62 €	
ZG2-35	35	70,00	74,00	35	12	0,083	0,072	✔	47,07 €	
ZG2-36	36	72,00	76,00	45	15	0,093	0,075	✔	49,72 €	
ZG2-37	37	74,00	78,00	45	15	0,098	0,080	-	53,39 €	
ZG2-38	38	76,00	80,00	45	15	0,102	0,084	✔	54,73 €	
ZG2-39	39	78,00	82,00	45	15	0,107	0,089	✔	55,96 €	
ZG2-40	40	80,00	84,00	45	15	0,112	0,094	✔	57,04 €	
ZG2-41	41	82,00	86,00	45	15	0,117	0,098	-	58,15 €	
ZG2-42	42	84,00	88,00	45	15	0,122	0,103	-	58,77 €	
ZG2-43	43	86,00	90,00	45	15	0,127	0,109	-	59,52 €	
ZG2-44	44	88,00	92,00	45	15	0,132	0,114	-	67,14 €	
ZG2-45	45	90,00	94,00	45	15	0,137	0,119	✔	68,23 €	
ZG2-46	46	92,00	96,00	45	15	0,143	0,125	-	69,69 €	
ZG2-47	47	94,00	98,00	45	15	0,149	0,130	-	71,41 €	
ZG2-48	48	96,00	100,00	45	15	0,154	0,136	✔	71,66 €	
ZG2-49	49	98,00	102,00	45	15	0,160	0,142	-	73,92 €	
ZG2-50	50	100,00	104,00	45	15	0,166	0,148	✔	76,81 €	
ZG2-51	51	102,00	106,00	45	15	0,172	0,154	-	78,35 €	
ZG2-52	52	104,00	108,00	45	15	0,179	0,160	-	79,64 €	
ZG2-53	53	106,00	110,00	45	15	0,185	0,167	-	80,53 €	
ZG2-54	54	108,00	112,00	45	15	0,191	0,173	✔	81,89 €	
ZG2-55	55	110,00	114,00	45	15	0,198	0,180	-	84,92 €	
ZG2-56	56	112,00	116,00	45	15	0,205	0,187	-	91,89 €	
ZG2-57	57	114,00	118,00	45	15	0,212	0,193	✔	93,64 €	
ZG2-58	58	116,00	120,00	45	15	0,219	0,200	-	104,15 €	
ZG2-59	59	118,00	122,00	60	15	0,242	0,208	-	104,51 €	
ZG2-60	60	120,00	124,00	60	15	0,249	0,215	✔	104,51 €	
ZG2-62	62	124,00	128,00	60	15	0,264	0,230	-	104,51 €	
ZG2-64	64	128,00	132,00	60	15	0,279	0,245	-	111,92 €	
ZG2-65	65	130,00	134,00	60	15	0,287	0,253	-	117,23 €	
ZG2-66	66	132,00	136,00	60	15	0,295	0,261	✔	119,27 €	
ZG2-68	68	136,00	140,00	60	15	0,311	0,277	-	124,12 €	
ZG2-70	70	140,00	144,00	60	15	0,328	0,294	✔	134,45 €	
ZG2-71	71	142,00	146,00	60	15	0,336	0,302	-	142,01 €	
ZG2-72	72	144,00	148,00	60	15	0,345	0,311	✔	150,64 €	
ZG2-73	73	146,00	150,00	60	15	0,354	0,320	-	152,86 €	
ZG2-74	74	148,00	152,00	60	15	0,363	0,328	-	152,86 €	
ZG2-75	75	150,00	154,00	60	15	0,372	0,337	✔	152,86 €	
ZG2-76	76	152,00	156,00	60	15	0,381	0,347	-	174,60 €	
ZG2-78	78	156,00	160,00	60	15	0,399	0,365	-	185,53 €	
ZG2-80	80	160,00	164,00	60	15	0,419	0,384	-	185,53 €	
ZG2-86	86	172,00	176,00	60	15	0,479	0,445	-	215,59 €	
ZG2-90	90	180,00	184,00	60	15	0,522	0,487	-	267,87 €	
ZG2-96	96	192,00	196,00	60	15	0,589	0,555	-	267,87 €	
↓	Gears available up to this size									
ZG2-290	290	580,00	584,00	Dimensions: contact us						

On request

*Depending on availability - Dimensions in mm

Steel spur gear economy range

Module 2,5

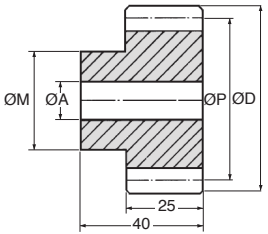
C45 steel

- **Economy range of gears**
- Pressure angle 20°
- Material:
  C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**

Economy range



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each
G2.5-12/ECO	12	30,0	35,0	22	10	0,170	-	6,04 €
G2.5-13/ECO	13	32,5	37,5	25	10	0,210	-	6,57 €
G2.5-14/ECO	14	35,0	40,0	28	10	0,250	✔	6,68 €
G2.5-15/ECO	15	37,5	42,5	30	10	0,300	✔	7,48 €
G2.5-16/ECO	16	40,0	45,0	32	12	0,330	✔	8,06 €
G2.5-17/ECO	17	42,5	47,5	35	12	0,380	-	8,46 €
G2.5-18/ECO	18	45,0	50,0	35	12	0,420	✔	8,70 €
G2.5-19/ECO	19	47,5	52,5	35	12	0,450	-	9,93 €
G2.5-20/ECO	20	50,0	55,0	40	14	0,540	✔	10,38 €
G2.5-21/ECO	21	52,5	57,5	40	14	0,560	-	10,71 €
G2.5-22/ECO	22	55,0	60,0	45	14	0,660	✔	11,63 €
G2.5-23/ECO	23	57,5	62,5	45	14	0,700	-	12,01 €
G2.5-24/ECO	24	60,0	65,0	45	14	0,740	✔	12,54 €
G2.5-25/ECO	25	62,5	67,5	50	14	0,850	✔	13,33 €
G2.5-26/ECO	26	65,0	70,0	50	14	0,900	-	14,58 €

*Depending on availability - Dimensions in mm

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Weight (kg)	Stock*	Price each
G2.5-27/ECO	27	67,5	72,5	50	14	0,950	-	15,70 €
G2.5-28/ECO	28	70,0	75,0	50	14	1,000	-	16,97 €
G2.5-29/ECO	29	72,5	77,5	50	14	1,060	-	17,96 €
G2.5-30/ECO	30	75,0	80,0	55	16	1,180	✔	18,96 €
G2.5-31/ECO	31	77,5	82,5	55	16	1,220	-	19,15 €
G2.5-32/ECO	32	80,0	85,0	55	16	1,280	✔	21,26 €
G2.5-33/ECO	33	82,5	87,5	55	16	1,340	-	21,77 €
G2.5-34/ECO	34	85,0	90,0	55	16	1,410	-	23,21 €
G2.5-35/ECO	35	87,5	92,5	60	16	1,540	✔	23,80 €
G2.5-36/ECO	36	90,0	95,0	60	16	1,610	-	25,57 €
G2.5-37/ECO	37	92,5	97,5	60	16	1,680	-	26,39 €
G2.5-38/ECO	38	95,0	100,0	60	16	1,750	✔	28,77 €
G2.5-39/ECO	39	97,5	102,5	60	16	1,830	-	30,11 €
G2.5-40/ECO	40	100,0	105,0	70	20	2,060	✔	31,34 €
G2.5-41/ECO	41	102,5	107,5	70	20	2,140	-	34,60 €
G2.5-42/ECO	42	105,0	110,0	70	20	2,220	-	35,74 €
G2.5-43/ECO	43	107,5	112,5	70	20	2,300	-	36,86 €
G2.5-44/ECO	44	110,0	115,0	70	20	2,380	-	37,65 €
G2.5-45/ECO	45	112,5	117,5	70	20	2,470	-	38,61 €
G2.5-46/ECO	46	115,0	120,0	70	20	2,520	-	39,10 €
G2.5-47/ECO	47	117,5	122,5	80	20	2,800	-	40,52 €
G2.5-48/ECO	48	120,0	125,0	80	20	2,880	-	38,73 €
G2.5-49/ECO	49	122,5	127,5	80	20	2,980	-	42,92 €
G2.5-50/ECO	50	125,0	130,0	80	20	3,070	-	45,90 €
G2.5-51/ECO	51	127,5	132,5	90	20	3,170	-	46,93 €
G2.5-52/ECO	52	130,0	135,0	90	20	3,480	-	47,80 €
G2.5-53/ECO	53	132,5	137,5	90	20	3,580	-	48,42 €
G2.5-54/ECO	54	135,0	140,0	90	20	3,680	-	49,81 €
G2.5-55/ECO	55	137,5	142,5	90	20	3,780	-	52,01 €
G2.5-56/ECO	56	140,0	145,0	100	20	4,130	-	53,03 €
G2.5-57/ECO	57	142,5	147,5	100	20	4,230	-	56,94 €
G2.5-58/ECO	58	145,0	150,0	100	20	4,340	-	60,35 €
G2.5-59/ECO	59	147,5	152,5	100	20	4,460	-	64,09 €
G2.5-60/ECO	60	150,0	155,0	100	20	4,570	✔	67,87 €

*Depending on availability - Dimensions in mm

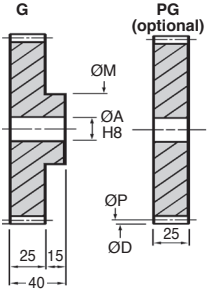
Steel spur gear

Module 2.5

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 **Z10CNF18.09**	20NCD2 hardened	brass
Nm	**48**	228	24
kW	**5**	23.87	2.54



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G2.5-9	9	25,00	30,00	20	12	0,095	0,072	60,17 €	On request
G2.5-10	10	27,50	32,50	20	12	0,115	0,092	60,17 €	
G2.5-11	11	30,00	35,00	20	12	0,137	0,114	60,17 €	
G2.5-12	12	30,00	35,00	22	15	0,125	0,101	60,17 €	
G2.5-13	13	32,50	37,50	22	15	0,148	0,125	61,63 €	
G2.5-14	14	35,00	40,00	25	15	0,186	0,150	64,48 €	
G2.5-15	15	37,50	42,50	30	15	0,238	0,177	68,52 €	
G2.5-16	16	40,00	45,00	30	15	0,267	0,207	72,53 €	
G2.5-17	17	42,50	47,50	30	15	0,298	0,238	73,99 €	
G2.5-18	18	45,00	50,00	30	15	0,331	0,270	76,69 €	
G2.5-19	19	47,50	52,50	30	15	0,366	0,305	78,73 €	
G2.5-20	20	50,00	55,00	40	20	0,424	0,316	81,58 €	
G2.5-21	21	52,50	57,50	40	20	0,462	0,354	83,60 €	
G2.5-22	22	55,00	60,00	40	20	0,503	0,394	86,56 €	
G2.5-23	23	57,50	62,50	40	20	0,545	0,437	88,71 €	
G2.5-24	24	60,00	65,00	40	20	0,589	0,481	91,45 €	
G2.5-25	25	62,50	67,50	40	20	0,635	0,527	96,30 €	
G2.5-26	26	65,00	70,00	45	20	0,721	0,575	101,21 €	
G2.5-27	27	67,50	72,50	45	20	0,771	0,624	103,30 €	
G2.5-28	28	70,00	75,00	45	20	0,823	0,676	106,06 €	
G2.5-29	29	72,50	77,50	45	20	0,876	0,730	109,51 €	
G2.5-30	30	75,00	80,00	45	20	0,932	0,785	113,22 €	
G2.5-31	31	77,50	82,50	45	20	0,989	0,842	116,13 €	
G2.5-32	32	80,00	85,00	45	20	1,048	0,902	120,16 €	
G2.5-33	33	82,50	87,50	45	20	1,109	0,963	121,53 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G2.5-34	34	85,00	90,00	45	20	1,172	1,025	124,47 €	
G2.5-35	35	87,50	92,50	45	20	1,237	1,090	127,21 €	
G2.5-36	36	90,00	95,00	45	20	1,303	1,157	134,15 €	
G2.5-37	37	92,50	97,50	45	20	1,372	1,225	136,02 €	
G2.5-38	38	95,00	100,00	45	20	1,442	1,296	139,91 €	
G2.5-39	39	97,50	102,50	45	20	1,515	1,368	141,86 €	
G2.5-40	40	100,00	105,00	50	20	1,632	1,442	145,32 €	
G2.5-41	41	102,50	107,50	50	20	1,708	1,518	148,87 €	
G2.5-42	42	105,00	110,00	50	20	1,786	1,596	151,15 €	
G2.5-43	43	107,50	112,50	50	20	1,866	1,676	152,74 €	
G2.5-44	44	110,00	115,00	50	20	1,964	1,774	154,57 €	
G2.5-45	45	112,50	117,50	50	20	2,031	1,842	156,62 €	
G2.5-46	46	115,00	120,00	50	20	2,116	1,927	160,23 €	
G2.5-47	47	117,50	122,50	50	20	2,204	2,014	163,27 €	
G2.5-48	48	120,00	125,00	50	20	2,293	2,104	167,75 €	
G2.5-49	49	122,50	127,50	50	20	2,384	2,195	172,28 €	
G2.5-50	50	125,00	130,00	50	20	2,477	2,288	177,00 €	
G2.5-51	51	127,50	132,50	50	20	2,572	2,382	178,36 €	
G2.5-52	52	130,00	135,00	50	20	2,668	2,479	181,30 €	
G2.5-53	53	132,50	137,50	50	20	2,767	2,578	182,81 €	
G2.5-54	54	135,00	140,00	50	20	2,868	2,678	184,62 €	
G2.5-55	55	137,50	142,50	50	20	2,970	2,781	202,60 €	
G2.5-56	56	140,00	145,00	50	20	3,074	2,885	206,09 €	
G2.5-57	57	142,50	147,50	50	20	3,180	2,991	209,89 €	
G2.5-58	58	145,00	150,00	50	20	3,288	3,099	213,03 €	
G2.5-59	59	147,50	152,50	50	20	3,398	3,209	216,10 €	
G2.5-60	60	150,00	155,00	50	20	3,510	3,321	219,69 €	
G2.5-62	62	155,00	160,00	50	20	3,739	3,550	248,62 €	
G2.5-64	64	160,00	165,00	50	20	3,976	3,786	280,75 €	
G2.5-65	65	162,50	167,50	50	20	4,097	3,907	300,82 €	
G2.5-66	66	165,00	170,00	50	20	4,220	4,030	330,82 €	
G2.5-68	68	170,00	175,00	50	20	4,471	4,282	345,38 €	
G2.5-70	70	175,00	180,00	50	20	4,731	4,541	366,28 €	
G2.5-71	71	177,50	182,50	100	25	5,485	4,640	388,71 €	
G2.5-72	72	180,00	185,00	100	25	5,619	4,774	412,35 €	
G2.5-73	73	182,50	187,50	100	25	5,756	4,910	427,51 €	
G2.5-74	74	185,00	190,00	100	25	5,894	5,048	444,37 €	
G2.5-75	75	187,50	192,50	100	25	6,033	5,188	461,42 €	
G2.5-76	76	190,00	195,00	100	25	6,175	5,330	475,66 €	
G2.5-78	78	195,00	200,00	100	25	6,465	5,619	487,03 €	
G2.5-80	80	200,00	205,00	100	25	6,761	5,916	495,68 €	
G2.5-86	86	215,00	220,00	100	25	7,697	6,851	505,23 €	
G2.5-90	90	225,00	230,00	100	25	8,358	7,513	552,53 €	
G2.5-96	96	240,00	245,00	100	25	9,406	8,560	594,88 €	
G2.5-98	98	245,00	250,00	100	25	9,770	8,925	629,05 €	
G2.5-100	100	250,00	255,00	100	25	10,142	9,297	705,87 €	
G2.5-105	105	262,50	267,50	100	25	11,104	10,259	765,69 €	
G2.5-110	110	275,00	280,00	100	25	12,114	11,269	812,73 €	
G2.5-115	115	287,50	292,50	100	25	13,170	12,325	885,39 €	
↓				Gears available up to this size					
G2.5-235	235	587,50	592,50	Dimensions: contact us					

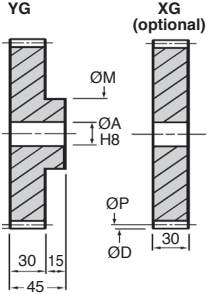
On request

Dimensions in mm

Module 2.5

Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Options

- *Material :*
  20NCD2 case-hardened

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 *hardened*	*20NCD2*	*20NCD2 hardened*
Nm	**122**	*178*	*122*	*337*
kW	**12.65**	*18.65*	*12.68*	*35.06*

DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-12%	-25%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG2.5-9	9	25,00	30,00	30,00	12	0,155	0,087	80,43 €	On request
YG2.5-10	10	27,50	32,50	32,50	12	0,193	0,110	80,43 €	
YG2.5-11	11	30,00	35,00	35,00	12	0,234	0,136	80,43 €	
YG2.5-12	12	30,00	35,00	35,00	15	0,212	0,122	80,43 €	
YG2.5-13	13	32,50	37,50	35,00	15	0,240	0,150	82,15 €	
YG2.5-14	14	35,00	40,00	35,00	15	0,270	0,180	85,89 €	
YG2.5-15	15	37,50	42,50	35,00	15	0,303	0,213	91,47 €	
YG2.5-16	16	40,00	45,00	35,00	15	0,338	0,248	96,78 €	
YG2.5-17	17	42,50	47,50	35,00	15	0,375	0,285	98,79 €	
YG2.5-18	18	45,00	50,00	35,00	15	0,415	0,325	102,35 €	
YG2.5-19	19	47,50	52,50	35,00	15	0,456	0,366	105,14 €	
YG2.5-20	20	50,00	55,00	45,00	20	0,525	0,379	108,80 €	
YG2.5-21	21	52,50	57,50	45,00	20	0,571	0,425	111,58 €	
YG2.5-22	22	55,00	60,00	45,00	20	0,620	0,473	115,40 €	
YG2.5-23	23	57,50	62,50	45,00	20	0,670	0,524	118,32 €	
YG2.5-24	24	60,00	65,00	45,00	20	0,723	0,577	121,96 €	
YG2.5-25	25	62,50	67,50	45,00	20	0,779	0,632	128,47 €	
YG2.5-26	26	65,00	70,00	45,00	20	0,836	0,690	134,98 €	
YG2.5-27	27	67,50	72,50	45,00	20	0,896	0,749	137,79 €	
YG2.5-28	28	70,00	75,00	45,00	20	0,958	0,811	142,47 €	
YG2.5-29	29	72,50	77,50	60,00	20	1,164	0,876	146,01 €	
YG2.5-30	30	75,00	80,00	60,00	20	1,231	0,942	151,05 €	
YG2.5-31	31	77,50	82,50	60,00	20	1,299	1,011	154,84 €	
YG2.5-32	32	80,00	85,00	60,00	20	1,370	1,082	160,24 €	
YG2.5-33	33	82,50	87,50	60,00	20	1,444	1,155	162,06 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG2.5-34	34	85,00	90,00	60,00	20	1,519	1,231	166,00 €	
YG2.5-35	35	87,50	92,50	60,00	20	1,597	1,308	169,62 €	
YG2.5-36	36	90,00	95,00	60,00	20	1,677	1,388	178,95 €	
YG2.5-37	37	92,50	97,50	60,00	20	1,759	1,471	181,55 €	
YG2.5-38	38	95,00	100,00	60,00	20	1,844	1,555	186,60 €	
YG2.5-39	39	97,50	102,50	60,00	20	1,930	1,642	189,24 €	
YG2.5-40	40	100,00	105,00	75,00	20	2,202	1,731	217,87 €	
YG2.5-41	41	102,50	107,50	75,00	20	2,293	1,822	198,55 €	
YG2.5-42	42	105,00	110,00	75,00	20	2,387	1,916	201,65 €	
YG2.5-43	43	107,50	112,50	75,00	20	2,483	2,011	203,71 €	
YG2.5-44	44	110,50	115,00	75,00	20	2,600	2,129	206,21 €	
YG2.5-45	45	112,50	117,50	75,00	20	2,681	2,210	208,86 €	
YG2.5-46	46	115,00	120,00	75,00	20	2,783	2,312	213,64 €	
YG2.5-47	47	117,50	122,50	75,00	20	2,888	2,417	217,77 €	
YG2.5-48	48	120,00	125,00	75,00	20	2,995	2,524	223,70 €	
YG2.5-49	49	122,50	127,50	75,00	20	3,105	2,634	229,73 €	
YG2.5-50	50	125,00	130,00	75,00	20	3,216	2,745	236,12 €	
YG2.5-51	51	127,50	132,50	75,00	20	3,330	2,859	237,99 €	
YG2.5-52	52	130,00	135,00	75,00	20	3,446	2,975	241,20 €	
YG2.5-53	53	132,50	137,50	75,00	20	3,564	3,093	243,76 €	
YG2.5-54	54	135,00	140,00	75,00	20	3,685	3,214	246,33 €	
YG2.5-55	55	137,50	142,50	75,00	20	3,808	3,337	285,49 €	
YG2.5-56	56	140,00	145,00	75,00	20	3,933	3,462	285,49 €	
YG2.5-57	57	142,50	147,50	75,00	20	4,060	3,589	285,49 €	
YG2.5-58	58	145,00	150,00	75,00	20	4,190	3,719	285,49 €	
YG2.5-59	59	147,50	152,50	75,00	20	4,322	3,851	288,14 €	
YG2.5-60	60	150,00	155,00	100,00	20	4,850	3,985	292,88 €	
YG2.5-62	62	155,00	160,00	100,00	20	5,125	4,260	331,66 €	
YG2.5-64	64	160,00	165,00	100,00	20	5,409	4,544	374,43 €	
YG2.5-65	65	162,50	167,50	100,00	20	5,554	4,689	401,30 €	
YG2.5-66	66	165,00	170,00	100,00	20	5,702	4,837	441,20 €	
YG2.5-68	68	170,00	175,00	100,00	20	6,004	5,139	460,58 €	
YG2.5-70	70	175,00	180,00	100,00	20	6,315	5,450	488,45 €	
YG2.5-71	71	177,50	182,50	100,00	20	6,474	5,608	518,35 €	
YG2.5-72	72	180,00	185,00	100,00	20	6,635	5,770	549,88 €	
YG2.5-73	73	182,50	187,50	100,00	20	6,798	5,933	570,02 €	
YG2.5-74	74	185,00	190,00	100,00	20	6,964	6,099	592,62 €	
YG2.5-75	75	187,50	192,50	100,00	20	7,132	6,267	615,22 €	
YG2.5-76	76	190,00	195,00	100,00	20	7,302	6,437	637,89 €	
YG2.5-78	78	195,00	200,00	127,00	25	8,141	6,743	649,44 €	
YG2.5-80	80	200,00	205,00	127,00	25	8,497	7,099	660,96 €	
YG2.5-86	86	215,00	220,00	127,00	25	9,619	8,222	673,70 €	
YG2.5-90	90	225,00	230,00	127,00	25	10,413	9,015	736,76 €	
YG2.5-96	96	240,00	245,00	127,00	25	11,670	10,273	793,28 €	
YG2.5-98	98	245,00	250,00	127,00	25	12,108	10,710	838,82 €	
YG2.5-100	100	250,00	255,00	127,00	25	12,554	11,156	941,35 €	
YG2.5-105	105	262,50	267,50	127,00	25	13,709	12,311	1 021,05 €	
YG2.5-110	110	275,00	280,00	127,00	25	14,920	13,523	1 083,80 €	
YG2.5-115	115	287,50	292,50	127,00	25	16,188	14,790	1 180,66 €	
↓ Gears available up to this size									
YG2.5-235	**235**	**587,50**	**592,50**	**Dimensions: contact us**					

On request

Dimensions in mm

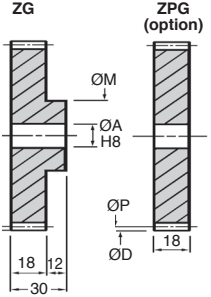
Plastic spur gear

Module 2.5

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**11**



DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG2.5-9	9	25,00	30,00	30	10	0,019	0,010	26,17 €	On request
ZG2.5-10	10	27,50	32,50	30	10	0,022	0,012	26,67 €	
ZG2.5-11	11	30,00	35,00	30	10	0,024	0,015	27,25 €	
ZG2.5-12	12	30,00	35,00	30	12	0,023	0,014	27,80 €	
ZG2.5-13	13	32,50	37,50	30	12	0,026	0,017	28,29 €	
ZG2.5-14	14	35,00	40,00	30	12	0,029	0,020	28,52 €	
ZG2.5-15	15	37,50	42,50	30	12	0,032	0,023	28,79 €	
ZG2.5-16	16	40,00	45,00	30	12	0,036	0,026	29,69 €	
ZG2.5-17	17	42,50	47,50	30	12	0,039	0,030	34,80 €	
ZG2.5-18	18	45,00	50,00	36	12	0,048	0,034	35,54 €	
ZG2.5-19	19	47,50	52,50	36	12	0,052	0,038	36,72 €	
ZG2.5-20	20	50,00	55,00	36	12	0,057	0,043	37,69 €	
ZG2.5-21	21	52,50	57,50	36	12	0,061	0,047	44,44 €	
ZG2.5-22	22	55,00	60,00	36	12	0,066	0,052	45,49 €	
ZG2.5-23	23	57,50	62,50	36	12	0,071	0,057	49,43 €	
ZG2.5-24	24	60,00	65,00	36	12	0,077	0,063	54,00 €	
ZG2.5-25	25	62,50	67,50	36	12	0,082	0,068	59,95 €	
ZG2.5-26	26	65,00	70,00	36	12	0,088	0,074	63,11 €	
ZG2.5-27	27	67,50	72,50	36	12	0,094	0,080	66,27 €	
ZG2.5-28	28	70,00	75,00	45	15	0,107	0,085	67,67 €	
ZG2.5-29	29	72,50	77,50	45	15	0,113	0,091	69,47 €	
ZG2.5-30	30	75,00	80,00	45	15	0,120	0,098	71,71 €	

Dimensions in mm

DISCOUNTS

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG2.5-31	31	77,50	82,50	45	15	0,127	0,105	84,00 €	On request
ZG2.5-32	32	80,00	85,00	45	15	0,134	0,112	86,22 €	
ZG2.5-33	33	82,50	87,50	45	15	0,141	0,120	89,18 €	
ZG2.5-34	34	85,00	90,00	45	15	0,149	0,127	90,35 €	
ZG2.5-35	35	87,50	92,50	45	15	0,157	0,135	92,32 €	
ZG2.5-36	36	90,00	95,00	50	17	0,169	0,142	105,53 €	
ZG2.5-37	37	92,50	97,50	50	17	0,177	0,150	106,98 €	
ZG2.5-38	38	95,00	100,00	50	17	0,186	0,159	121,95 €	
ZG2.5-39	39	97,50	102,50	50	17	0,194	0,168	124,03 €	
ZG2.5-40	40	100,00	105,00	50	17	0,203	0,177	127,05 €	
ZG2.5-41	41	102,50	107,50	50	17	0,213	0,186	130,19 €	
ZG2.5-42	42	105,00	110,00	50	17	0,222	0,195	132,17 €	
ZG2.5-43	43	107,50	112,50	50	17	0,232	0,205	133,56 €	
ZG2.5-44	44	110,50	115,00	50	17	0,244	0,217	135,04 €	
ZG2.5-45	45	112,50	117,50	50	17	0,252	0,225	137,21 €	
ZG2.5-46	46	115,00	120,00	50	17	0,262	0,235	154,05 €	
ZG2.5-47	47	117,50	122,50	50	17	0,273	0,246	157,09 €	
ZG2.5-48	48	120,00	125,00	50	17	0,283	0,257	161,32 €	
ZG2.5-49	49	122,50	127,50	50	17	0,294	0,268	165,64 €	
ZG2.5-50	50	125,00	130,00	50	17	0,306	0,279	170,11 €	
ZG2.5-51	51	127,50	132,50	50	17	0,317	0,290	171,70 €	
ZG2.5-52	52	130,00	135,00	50	17	0,329	0,302	174,00 €	
ZG2.5-53	53	132,50	137,50	50	17	0,341	0,314	175,74 €	
ZG2.5-54	54	135,00	140,00	50	17	0,353	0,326	193,85 €	
ZG2.5-55	55	137,50	142,50	50	17	0,365	0,338	201,45 €	
ZG2.5-56	56	140,00	145,00	50	17	0,378	0,351	216,23 €	
ZG2.5-57	57	142,50	147,50	65	20	0,408	0,362	220,40 €	
ZG2.5-58	58	145,00	150,00	65	20	0,421	0,375	223,86 €	
ZG2.5-59	59	147,50	152,50	65	20	0,435	0,388	226,73 €	
ZG2.5-60	60	150,00	155,00	65	20	0,448	0,402	230,59 €	
ZG2.5-62	62	155,00	160,00	65	20	0,476	0,430	260,96 €	
ZG2.5-64	64	160,00	165,00	65	20	0,504	0,458	319,22 €	
ZG2.5-65	65	162,50	167,50	65	20	0,519	0,473	342,07 €	
ZG2.5-66	66	165,00	170,00	65	20	0,534	0,488	376,22 €	
ZG2.5-68	68	170,00	175,00	65	20	0,564	0,518	392,78 €	
ZG2.5-70	70	175,00	180,00	65	20	0,596	0,549	369,36 €	
ZG2.5-71	71	177,50	182,50	65	20	0,612	0,566	441,95 €	
ZG2.5-72	72	180,00	185,00	65	20	0,628	0,582	468,70 €	
ZG2.5-73	73	182,50	187,50	65	20	0,645	0,598	486,08 €	
ZG2.5-74	74	185,00	190,00	65	20	0,661	0,615	497,58 €	
ZG2.5-75	75	187,50	192,50	65	20	0,678	0,632	465,49 €	
ZG2.5-76	76	190,00	195,00	65	20	0,695	0,649	482,64 €	
ZG2.5-78	78	195,00	200,00	65	20	0,730	0,684	525,85 €	
ZG2.5-80	80	200,00	205,00	65	20	0,766	0,720	833,74 €	
↓	**Gears available up to this size**								
ZG2.5-235	**235**	**587,50**	**592,50**	**Dimensions: contact us**					

Dimensions in mm

Moulded plastic spur gear

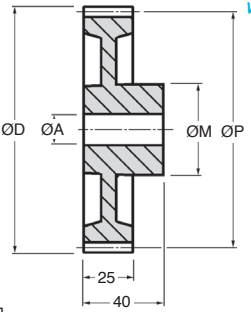
Nyl | € Eco | Stock

Module 2.5

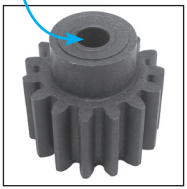
Nylon 6 moulded

Economy range

CLG



ØA**: Pilot bore must be finished



- **Moulded parts**
- Pressure angle 20°
- Material:
  Nylon PA6 30% glass fibre reinforced

Options

- **Alternative number of teeth (up to 62)**
- HPC are unable to modify these parts. For parts that can be modified to order, please see the **ZG** and **ZPG** ranges.

Info

- Moulded pilot bore must be machined to suit the application
- **Pilot bore dimension given as a guide only

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Teeth Z	External ØD	PCD ØP	Boss ØM	Pilot bore ØA**	Stock*	Price each 1 to 9
CLG2.5-12	12	35,00	30,00	22	8	✔	5,25 €
CLG2.5-14	14	40,00	35,00	22	8	-	On request
CLG2.5-15	15	42,50	37,50	30	10	✔	5,70 €
CLG2.5-16	16	45,00	40,00	30	10	✔	7,02 €
CLG2.5-18	18	50,00	45,00	35	10	✔	7,80 €
CLG2.5-20	20	55,00	50,00	35	10	✔	8,18 €
CLG2.5-22	22	60,00	55,00	40	16	-	On request
CLG2.5-23	23	62,50	57,50	40	16	-	On request
CLG2.5-24	24	65,00	60,00	40	16	-	On request
CLG2.5-25	25	67,50	62,50	40	16	✔	12,42 €
CLG2.5-26	26	70,00	65,00	40	16	-	On request
CLG2.5-27	27	72,50	67,50	40	16	-	On request
CLG2.5-28	28	75,00	70,00	40	16	-	On request
CLG2.5-29	29	77,50	72,50	40	16	-	On request
CLG2.5-30	30	80,00	75,00	45	16	✔	16,38 €
CLG2.5-32	32	85,00	80,00	50	16	-	On request
CLG2.5-35	35	92,50	87,50	50	16	-	18,75 €
CLG2.5-40	40	105,00	100,00	60	20	-	On request
CLG2.5-45	45	117,50	112,50	60	20	-	26,16 €
CLG2.5-50	50	130,00	125,00	60	20	✔	31,82 €
CLG2.5-57	57	147,50	142,50	60	20	-	On request
↓	Gears available up to this size						↓
CLG2.5-62	62	160,00	155,00	60	25	-	On request

*Depending on availability - Dimensions in mm

Steel spur gear economy range

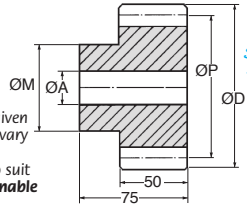
C45 steel

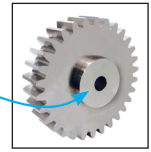
Module 3,0

- **Economy range of gears**
- Pressure angle 20°
- Material:
  C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**





DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Stock*	Price each 1 to 3
G3-12/ECO	12	36	42	25	12	✔	6,53 €
G3-13/ECO	13	39	45	25	12	-	7,72 €
G3-14/ECO	14	42	48	30	12	✔	7,78 €
G3-15/ECO	15	45	51	35	12	✔	8,72 €
G3-16/ECO	16	48	54	38	15	✔	10,21 €
G3-17/ECO	17	51	57	42	15	✔	10,84 €
G3-18/ECO	18	54	60	45	15	✔	11,61 €
G3-19/ECO	19	57	63	45	15	-	11,88 €
G3-20/ECO	20	60	66	45	15	✔	13,24 €
G3-21/ECO	21	63	69	45	15	✔	15,52 €
G3-22/ECO	22	66	72	50	15	-	16,01 €
G3-23/ECO	23	69	75	50	15	-	17,47 €
G3-24/ECO	24	72	78	50	16	✔	18,65 €
G3-25/ECO	25	75	81	60	16	✔	19,86 €
G3-26/ECO	26	78	84	60	16	-	21,22 €
G3-27/ECO	27	81	87	60	16	✔	22,81 €
G3-28/ECO	28	84	90	60	16	✔	25,22 €
G3-29/ECO	29	87	93	60	16	-	26,15 €
G3-30/ECO	30	90	96	60	16	✔	27,11 €
G3-31/ECO	31	93	99	70	20	✔	27,96 €
G3-32/ECO	32	96	102	70	20	✔	29,61 €
G3-33/ECO	33	99	105	70	20	✔	29,62 €
G3-34/ECO	34	102	108	70	20	-	30,75 €
G3-35/ECO	35	105	111	70	20	✔	32,60 €
G3-36/ECO	36	108	114	70	20	-	34,69 €
G3-37/ECO	37	111	117	80	20	-	36,34 €
G3-38/ECO	38	114	120	80	20	-	36,94 €
G3-39/ECO	39	117	123	80	20	-	38,10 €
G3-40/ECO	40	120	126	80	20	✔	38,10 €
G3-41/ECO	41	123	129	90	20	-	44,03 €
G3-42/ECO	42	126	132	90	20	-	49,42 €
G3-43/ECO	43	129	135	90	20	-	52,91 €
G3-44/ECO	44	132	138	90	20	-	53,62 €
G3-45/ECO	45	135	141	90	20	✔	56,68 €
G3-46/ECO	46	138	144	90	20	-	60,34 €
G3-47/ECO	47	141	147	90	20	-	63,11 €
G3-48/ECO	48	144	150	100	20	✔	64,35 €

*Depending on availability - Dimensions in mm

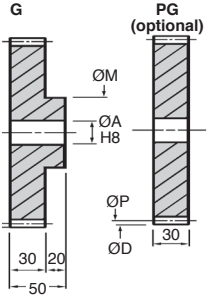
Steel spur gear

Module 3.0

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**88**	421	44
kW	**8.95**	44.01	4.66



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G3-9	9	30,00	36,00	28	15	0,189	0,122	58,80 €	On request
G3-10	10	33,00	39,00	28	15	0,223	0,156	57,11 €	
G3-11	11	36,00	42,00	28	15	0,260	0,193	58,80 €	
G3-12	12	36,00	42,00	28	20	0,208	0,162	57,11 €	
G3-13	13	39,00	45,00	28	20	0,248	0,202	60,90 €	
G3-14	14	42,00	48,00	30	20	0,306	0,246	61,48 €	
G3-15	15	45,00	51,00	30	20	0,353	0,293	63,59 €	
G3-16	16	48,00	54,00	40	20	0,488	0,343	69,59 €	
G3-17	17	51,00	57,00	40	20	0,541	0,397	73,50 €	
G3-18	18	54,00	60,00	40	20	0,598	0,454	75,06 €	
G3-19	19	57,00	63,00	40	20	0,658	0,514	80,42 €	
G3-20	20	60,00	66,00	50	25	0,762	0,536	80,50 €	
G3-21	21	63,00	69,00	50	25	0,828	0,603	85,69 €	
G3-22	22	66,00	72,00	50	25	0,898	0,673	88,57 €	
G3-23	23	69,00	75,00	50	25	0,971	0,746	88,43 €	
G3-24	24	72,00	78,00	50	25	1,047	0,822	91,39 €	
G3-25	25	75,00	81,00	50	25	1,127	0,902	96,88 €	
G3-26	26	78,00	84,00	50	25	1,210	0,984	105,34 €	
G3-27	27	81,00	87,00	50	25	1,296	1,070	107,85 €	
G3-28	28	84,00	90,00	50	25	1,385	1,160	107,81 €	
G3-29	29	87,00	93,00	50	25	1,477	1,252	115,51 €	
G3-30	30	90,00	96,00	50	25	1,573	1,348	116,12 €	
G3-31	31	93,00	99,00	50	25	1,672	1,447	123,77 €	
G3-32	32	96,00	102,00	50	25	1,774	1,549	128,32 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G3-33	33	99,00	105,00	50	25	1,880	1,654	135,32 €	On request
G3-34	34	102,00	108,00	50	25	1,989	1,763	138,13 €	
G3-35	35	105,00	111,00	60	25	2,233	1,875	143,99 €	
G3-36	36	108,00	114,00	60	25	2,348	1,990	154,43 €	
G3-37	37	111,00	117,00	60	25	2,466	2,109	157,52 €	
G3-38	38	114,00	120,00	60	25	2,588	2,230	159,77 €	
G3-39	39	117,00	123,00	60	25	2,713	2,355	161,85 €	
G3-40	40	120,00	126,00	60	25	2,841	2,484	164,19 €	
G3-41	41	123,00	129,00	60	25	2,973	2,615	167,04 €	
G3-42	42	126,00	132,00	60	25	3,107	2,750	169,16 €	
G3-43	43	129,00	135,00	60	25	3,245	2,888	184,42 €	
G3-44	44	132,00	138,00	60	25	3,386	3,029	206,90 €	
G3-45	45	135,00	141,00	60	25	3,531	3,173	234,88 €	
G3-46	46	138,00	144,00	60	25	3,679	3,321	244,91 €	
G3-47	47	141,00	147,00	60	25	3,829	3,472	246,66 €	
G3-48	48	144,00	150,00	60	25	3,984	3,626	261,75 €	
G3-49	49	147,00	153,00	60	25	4,141	3,783	267,16 €	
G3-50	50	150,00	156,00	60	25	4,302	3,944	252,80 €	
G3-51	51	153,00	159,00	60	25	4,466	4,108	278,46 €	
G3-52	52	156,00	162,00	60	25	4,633	4,275	287,87 €	
G3-53	53	159,00	165,00	60	25	4,803	4,445	297,68 €	
G3-54	54	162,00	168,00	60	25	4,977	4,619	306,54 €	
G3-55	55	165,00	171,00	60	25	5,154	4,796	321,16 €	
G3-56	56	168,00	174,00	60	25	5,334	4,976	326,27 €	
G3-57	57	171,00	177,00	60	25	5,517	5,159	331,48 €	
G3-58	58	174,00	180,00	60	25	5,704	5,346	336,70 €	
G3-59	59	177,00	183,00	60	25	5,894	5,536	346,44 €	
G3-60	60	180,00	186,00	60	25	6,087	5,729	345,62 €	
G3-61	61	183,00	189,00	60	25	6,283	5,925	365,58 €	
G3-62	62	186,00	192,00	60	25	6,483	6,125	375,26 €	
G3-63	63	189,00	195,00	60	25	6,685	6,328	385,11 €	
G3-64	64	192,00	198,00	120	30	8,107	6,484	393,80 €	
G3-65	65	195,00	201,00	120	30	8,316	6,694	396,14 €	
G3-68	68	204,00	210,00	120	30	8,964	7,341	424,10 €	
G3-70	70	210,00	216,00	120	30	9,412	7,789	458,19 €	
G3-72	72	216,00	222,00	120	30	9,873	8,250	472,89 €	
G3-75	75	225,00	231,00	120	30	10,588	8,965	509,46 €	
G3-76	76	228,00	234,00	120	30	10,833	9,210	513,45 €	
G3-78	78	234,00	240,00	120	30	11,333	9,710	540,76 €	
G3-80	80	240,00	246,00	120	20	11,846	10,223	568,26 €	
G3-82	82	246,00	252,00	120	30	12,371	10,749	599,80 €	
G3-84	84	252,00	258,00	120	30	12,910	11,288	628,66 €	
G3-86	86	258,00	264,00	120	30	13,462	11,839	679,31 €	
G3-88	88	264,00	270,00	120	30	14,027	12,404	721,32 €	
G3-90	90	270,00	276,00	120	30	14,604	12,982	748,16 €	
G3-92	92	276,00	282,00	120	30	15,195	13,572	771,52 €	
G3-94	94	282,00	288,00	120	30	15,799	14,176	821,98 €	
G3-95	95	285,00	291,00	120	30	16,105	14,483	855,23 €	
G3-96	96	288,00	294,00	120	30	16,415	14,793	885,39 €	
↓	Gears available up to this size								
G3-195	195	585,00	591,00	Dimensions: contact us					

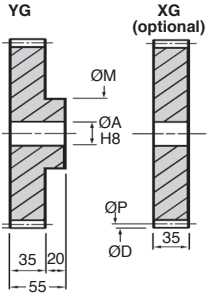
Dimensions in mm

Module 3.0

Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*

Torque and power indication				
For 50 teeth at 1000 rpm				
	35NCD6	**35NCD6** *hardened*	*20NCD2*	*20NCD2 hardened*
Nm	**223**	*325*	*223*	*615*
kW	**23,12**	*33,57*	*23,12*	*64,15*



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG3-9	9	30,00	36,00	36	15	0,27	0,14	78,95 €	On request
YG3-10	10	33,00	39,00	39	15	0,34	0,18	76,41 €	
YG3-11	11	36,00	42,00	42	15	0,41	0,23	78,95 €	
YG3-12	12	36,00	42,00	42	20	0,35	0,19	76,41 €	
YG3-13	13	39,00	45,00	45	20	0,43	0,24	81,68 €	
YG3-14	14	42,00	48,00	45	20	0,48	0,29	82,50 €	
YG3-15	15	45,00	51,00	45	20	0,54	0,34	85,28 €	
YG3-16	16	48,00	54,00	45	20	0,60	0,40	93,40 €	
YG3-17	17	51,00	57,00	45	20	0,66	0,46	98,64 €	
YG3-18	18	54,00	60,00	45	20	0,72	0,53	100,99 €	
YG3-19	19	57,00	63,00	45	20	0,79	0,60	107,85 €	
YG3-20	20	60,00	66,00	60	25	0,98	0,63	107,55 €	
YG3-21	21	63,00	69,00	60	25	1,06	0,70	115,06 €	
YG3-22	22	66,00	72,00	60	25	1,14	0,78	118,91 €	
YG3-23	23	69,00	75,00	60	25	1,23	0,87	119,07 €	
YG3-24	24	72,00	78,00	60	25	1,32	0,96	122,15 €	
YG3-25	25	75,00	81,00	60	25	1,41	1,05	129,43 €	
YG3-26	26	78,00	84,00	60	25	1,51	1,15	141,33 €	
YG3-27	27	81,00	87,00	60	25	1,61	1,25	144,65 €	
YG3-28	28	84,00	90,00	60	25	1,71	1,35	144,20 €	
YG3-29	29	87,00	93,00	60	25	1,82	1,46	154,94 €	
YG3-30	30	90,00	96,00	60	25	1,93	1,57	155,41 €	
YG3-31	31	93,00	99,00	60	25	2,05	1,69	166,21 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG3-32	32	96,00	102,00	60	25	2,16	1,81	173,99 €	
YG3-33	33	99,00	105,00	60	25	2,29	1,93	181,60 €	
YG3-34	34	102,00	108,00	75	25	2,66	2,06	185,23 €	
YG3-35	35	105,00	111,00	75	25	2,79	2,19	193,87 €	
YG3-36	36	108,00	114,00	75	25	2,92	2,32	207,21 €	
YG3-37	37	111,00	117,00	75	25	3,06	2,46	218,87 €	
YG3-38	38	114,00	120,00	75	25	3,20	2,60	218,87 €	
YG3-39	39	117,00	123,00	75	25	3,35	2,75	218,87 €	
YG3-40	40	120,00	126,00	75	25	3,50	2,90	220,32 €	
YG3-41	41	123,00	129,00	75	25	3,65	3,05	224,20 €	
YG3-42	42	126,00	132,00	75	25	3,81	3,21	255,79 €	
YG3-43	43	129,00	135,00	75	25	3,97	3,37	255,79 €	
YG3-44	44	132,00	138,00	100	25	4,66	3,53	277,66 €	
YG3-45	45	135,00	141,00	100	25	4,83	3,70	333,58 €	
YG3-46	46	138,00	144,00	100	25	5,00	3,87	333,58 €	
YG3-47	47	141,00	147,00	100	25	5,18	4,05	333,58 €	
YG3-48	48	144,00	150,00	100	25	5,36	4,23	334,51 €	
YG3-49	49	147,00	153,00	100	25	5,54	4,41	347,71 €	
YG3-50	50	150,00	156,00	100	25	5,73	4,60	362,67 €	
YG3-51	51	153,00	159,00	100	25	5,92	4,79	373,27 €	
YG3-52	52	156,00	162,00	100	25	6,11	4,99	386,25 €	
YG3-53	53	159,00	165,00	100	25	6,31	5,19	399,21 €	
YG3-54	54	162,00	168,00	100	25	6,52	5,39	421,99 €	
YG3-55	55	165,00	171,00	100	25	6,72	5,60	430,80 €	
YG3-56	56	168,00	174,00	100	25	6,93	5,81	437,60 €	
YG3-57	57	171,00	177,00	127	25	7,88	6,02	444,42 €	
YG3-58	58	174,00	180,00	127	25	8,10	6,24	451,57 €	
YG3-59	59	177,00	183,00	127	25	8,32	6,46	527,53 €	
YG3-60	60	180,00	186,00	127	25	8,55	6,68	527,53 €	
YG3-61	61	183,00	189,00	127	25	8,78	6,91	527,53 €	
YG3-62	62	186,00	192,00	127	25	9,01	7,15	527,53 €	
YG3-63	63	189,00	195,00	127	25	9,25	7,38	527,53 €	
YG3-64	64	192,00	198,00	127	25	9,49	7,62	527,53 €	
YG3-65	65	195,00	201,00	127	25	9,73	7,87	692,46 €	
YG3-68	68	204,00	210,00	127	25	10,49	8,62	692,46 €	
YG3-70	70	210,00	216,00	150	30	11,68	9,09	692,46 €	
YG3-72	72	216,00	222,00	150	30	12,22	9,62	692,46 €	
YG3-75	75	225,00	231,00	150	30	13,06	10,46	817,77 €	
YG3-76	76	228,00	234,00	150	30	13,34	10,75	817,77 €	
YG3-78	78	234,00	240,00	150	30	13,92	11,33	817,77 €	
YG3-80	80	240,00	246,00	150	30	14,52	11,93	817,77 €	
YG3-82	82	246,00	252,00	150	30	15,14	12,54	896,92 €	
YG3-84	84	252,00	258,00	150	30	15,77	13,17	896,92 €	
YG3-86	86	259,00	264,00	150	30	16,41	13,81	1 028,80 €	
YG3-88	88	264,00	270,00	150	30	17,07	14,47	1 028,80 €	
YG3-90	90	270,00	276,00	150	30	17,74	15,15	1 121,19 €	
YG3-92	92	276,00	282,00	150	30	18,43	15,83	1 200,35 €	
YG3-94	94	282,00	288,00	150	30	19,13	16,54	1 200,35 €	
YG3-95	95	285,00	291,00	150	30	19,49	16,90	1 363,92 €	
YG3-96	96	288,00	294,00	150	30	19,85	17,26	1 363,92 €	
↓									
Gears available up to this size									
YG3-195	**195**	**585,00**	**591,00**			**Dimensions: contact us**			

On request

Dimensions in mm

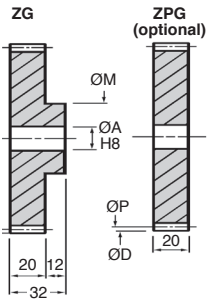
Plastic spur gear

Module 3.0

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**18**



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG3-9	9	30,00	36,00	36	12	0,029	0,015	32,19 €	On request
ZG3-10	10	33,00	39,00	36	12	0,033	0,019	32,19 €	
ZG3-11	11	36,00	42,00	36	12	0,037	0,023	32,19 €	
ZG3-12	12	36,00	42,00	36	15	0,035	0,022	32,19 €	
ZG3-13	13	39,00	45,00	36	15	0,039	0,026	33,38 €	
ZG3-14	14	42,00	48,00	36	15	0,044	0,031	39,63 €	
ZG3-15	15	45,00	51,00	40	15	0,053	0,036	40,96 €	
ZG3-16	16	48,00	54,00	40	15	0,059	0,042	43,42 €	
ZG3-17	17	51,00	57,00	40	15	0,065	0,048	45,81 €	
ZG3-18	18	54,00	60,00	48	15	0,080	0,054	48,34 €	
ZG3-19	19	57,00	63,00	48	15	0,086	0,061	50,18 €	
ZG3-20	20	60,00	66,00	48	15	0,093	0,068	52,17 €	
ZG3-21	21	63,00	69,00	48	15	0,101	0,076	72,93 €	
ZG3-22	22	66,00	72,00	48	15	0,109	0,083	75,37 €	
ZG3-23	23	69,00	75,00	48	15	0,117	0,092	77,83 €	
ZG3-24	24	72,00	78,00	48	15	0,125	0,100	80,18 €	
ZG3-25	25	75,00	81,00	48	15	0,134	0,109	84,91 €	
ZG3-26	26	78,00	84,00	60	20	0,154	0,115	95,07 €	
ZG3-27	27	81,00	87,00	60	20	0,163	0,124	97,42 €	
ZG3-28	28	84,00	90,00	60	20	0,173	0,134	100,09 €	
ZG3-29	29	87,00	93,00	60	20	0,184	0,145	104,05 €	
ZG3-30	30	90,00	96,00	60	20	0,194	0,156	107,84 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG3-31	31	93,00	99,00	60	20	0,205	0,167	124,36 €	On request
ZG3-32	32	96,00	102,00	60	20	0,217	0,178	128,78 €	
ZG3-33	33	99,00	105,00	60	20	0,229	0,190	135,88 €	
ZG3-34	34	102,00	108,00	60	20	0,241	0,202	150,33 €	
ZG3-35	35	105,00	111,00	60	20	0,253	0,215	161,81 €	
ZG3-36	36	108,00	114,00	60	20	0,266	0,228	168,05 €	
ZG3-37	37	111,00	117,00	60	20	0,280	0,241	173,69 €	
ZG3-38	38	114,00	120,00	60	20	0,293	0,254	176,22 €	
ZG3-39	39	117,00	123,00	60	20	0,307	0,268	192,09 €	
ZG3-40	40	120,00	126,00	60	20	0,322	0,283	194,92 €	
ZG3-41	41	123,00	129,00	60	20	0,336	0,298	198,40 €	
ZG3-42	42	126,00	132,00	60	20	0,351	0,313	203,43 €	
ZG3-43	43	129,00	135,00	60	20	0,367	0,328	218,94 €	
ZG3-44	44	132,00	138,00	60	20	0,383	0,344	245,66 €	
ZG3-45	45	135,00	141,00	60	20	0,399	0,360	304,86 €	
ZG3-46	46	138,00	144,00	60	20	0,415	0,377	304,86 €	
ZG3-47	47	141,00	147,00	60	20	0,432	0,394	304,86 €	
ZG3-48	48	144,00	150,00	60	20	0,450	0,411	304,86 €	
ZG3-49	49	147,00	153,00	60	20	0,467	0,428	304,86 €	
ZG3-50	50	150,00	156,00	60	20	0,485	0,446	345,88 €	
ZG3-51	51	153,00	159,00	60	20	0,504	0,465	357,93 €	
ZG3-52	52	156,00	162,00	60	20	0,522	0,484	370,08 €	
ZG3-53	53	159,00	165,00	60	20	0,541	0,503	370,08 €	
ZG3-54	54	162,00	168,00	80	20	0,595	0,522	430,02 €	
ZG3-55	55	165,00	171,00	80	20	0,615	0,542	430,02 €	
ZG3-56	56	168,00	174,00	80	20	0,635	0,562	430,02 €	
ZG3-57	57	171,00	177,00	80	20	0,655	0,583	430,02 €	
ZG3-58	58	174,00	180,00	80	20	0,676	0,603	430,02 €	
ZG3-59	59	177,00	183,00	80	20	0,697	0,625	513,90 €	
ZG3-60	60	180,00	186,00	80	20	0,719	0,646	528,39 €	
ZG3-61	61	183,00	189,00	80	20	0,741	0,668	534,37 €	
ZG3-62	62	186,00	192,00	80	20	0,763	0,691	534,37 €	
ZG3-63	63	189,00	195,00	80	20	0,786	0,713	534,37 €	
ZG3-64	64	192,00	198,00	80	20	0,809	0,737	534,37 €	
ZG3-65	65	195,00	201,00	80	20	0,833	0,760	847,21 €	
ZG3-68	68	204,00	210,00	80	20	0,905	0,833	847,21 €	
ZG3-70	70	210,00	216,00	80	20	0,955	0,883	847,21 €	
ZG3-72	72	216,00	222,00	80	20	1,007	0,934	847,21 €	
↓ Gears available up to this size									
ZG3-195	**195**	**585,00**	**591,00**	**Dimensions: contact us**					

Dimensions in mm

Plastic spur gear

Nyl | € Eco | Stock

Module 3.0

Nylon PA6 moulded

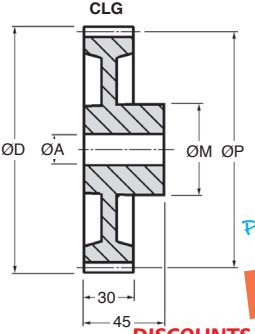
- ***Moulded parts***
- *Pressure angle 20°*
- *Material:*
  Nylon PA6 30% glass fibre reinforced

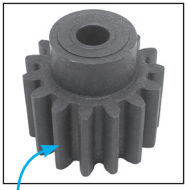
Options

- ***Alternative number of teeth (up to 60)***
- *HPC are unable to modify these parts. For parts that can be modified to order, please see the* **ZG** *and* **ZPG** *ranges.*

Info

- *Moulded pilot bore must be machined to suit the application*
- ***Pilot bore dimension given as a guide only*





ØA**: Pilot bore, must be finished

Economy range

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-10%	-15%	-25%	On request

Part number	Teeth Z	ØD PCD	ØP Boss	ØM Bore	Pilot bore ØA**	Stock*	Price each 1 to 9
CLG3-12	12	42	36	25	12	✔	7,59 €
CLG3-14	14	48	42	30	12	-	On request
CLG3-15	15	51	45	35	12	✔	9,31 €
CLG3-16	16	54	48	40	12	✔	12,68 €
CLG3-18	18	60	54	45	12	✔	13,74 €
CLG3-20	20	66	60	45	12	✔	14,87 €
CLG3-22	22	72	66	45	16	-	On request
CLG3-23	23	75	69	45	16	-	On request
CLG3-24	24	78	72	45	16	-	On request
CLG3-25	25	81	75	45	16	✔	20,87 €
CLG3-26	26	84	78	45	16	-	On request
CLG3-27	27	87	81	45	16	-	On request
CLG3-28	28	90	84	50	16	-	On request
CLG3-29	29	93	87	50	16	-	On request
CLG3-30	30	96	90	50	16	✔	27,40 €
CLG3-32	32	102	96	50	16	-	On request
CLG3-35	35	111	105	50	20	✔	32,47 €
CLG3-40	40	126	120	60	20	✔	40,19 €
CLG3-45	45	141	135	60	20	-	42,86 €
CLG3-50	50	156	150	60	20	-	44,32 €
CLG3-55	55	171	165	60	20	-	On request
↓	Gears available up to this size						↓
CLG3-60	**60**	**186**	**180**	**60**	**25**	-	On request

**Depending on availability - Dimensions in mm*

Steel spur gear economy range

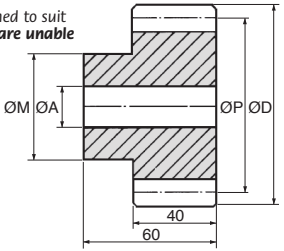
C45 steel

Module 4,0

- **Economy range of gears**
- Pressure angle 20°
- Material:
  C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Stock*	Price each 1 to 3
G4-12/ECO	12	48	56	35	14	✔	11,24 €
G4-13/ECO	13	52	60	40	14	✔	13,06 €
G4-14/ECO	14	56	64	45	14	-	14,82 €
G4-15/ECO	15	60	68	45	14	✔	16,76 €
G4-16/ECO	16	64	72	50	15	-	19,26 €
G4-17/ECO	17	68	76	50	15	✔	21,55 €
G4-18/ECO	18	72	80	50	15	✔	23,14 €
G4-19/ECO	19	76	84	60	15	-	23,52 €
G4-20/ECO	20	80	88	60	15	✔	25,21 €
G4-21/ECO	21	84	92	70	20	✔	26,34 €
G4-22/ECO	22	88	96	70	20	-	28,77 €
G4-23/ECO	23	92	100	75	20	-	32,06 €
G4-24/ECO	24	96	104	75	20	✔	33,94 €
G4-25/ECO	25	100	108	75	20	✔	35,91 €
G4-26/ECO	26	104	112	75	20	-	38,20 €
G4-27/ECO	27	108	116	75	20	-	42,11 €
G4-28/ECO	28	112	120	75	20	✔	44,46 €
G4-29/ECO	29	116	124	75	20	-	46,00 €
G4-30/ECO	30	120	128	75	20	✔	48,91 €
G4-31/ECO	31	124	132	80	20	-	49,84 €
G4-32/ECO	32	128	136	80	20	-	51,65 €
G4-33/ECO	33	132	140	80	20	-	53,99 €
G4-34/ECO	34	136	144	80	20	-	56,48 €
G4-35/ECO	35	140	148	80	20	-	59,43 €
G4-36/ECO	36	144	152	80	20	-	73,40 €

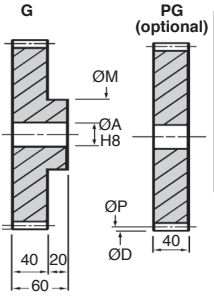
*Depending on availability - Dimensions in mm

Steel spur gear

Module 4.0

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*



Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**200**	953	100
kW	**20.88**	99.96	10.44

bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Z teeth	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G4-9	9	40,00	48,00	30	20	0,349	0,288	69,23 €	On request
G4-10	10	44,00	52,00	34	20	0,460	0,369	67,24 €	
G4-11	11	48,00	56,00	38	25	0,502	0,404	69,23 €	
G4-12	12	48,00	56,00	38	25	0,502	0,404	68,73 €	
G4-13	13	52,00	60,00	38	25	0,598	0,500	74,72 €	
G4-14	14	56,00	64,00	40	25	0,721	0,604	77,79 €	
G4-15	15	60,00	68,00	40	25	0,832	0,715	88,34 €	
G4-16	16	64,00	72,00	50	25	1,060	0,834	100,84 €	
G4-17	17	68,00	76,00	50	25	1,187	0,961	106,28 €	
G4-18	18	72,00	80,00	50	25	1,321	1,096	108,08 €	
G4-19	19	76,00	84,00	50	25	1,464	1,238	115,82 €	
G4-20	20	80,00	88,00	50	25	1,614	1,388	117,46 €	
G4-21	21	84,00	92,00	50	25	1,771	1,546	125,74 €	
G4-22	22	88,00	96,00	50	25	1,937	1,711	132,35 €	
G4-23	23	92,00	100,00	50	25	2,110	1,884	130,59 €	
G4-24	24	96,00	104,00	50	25	2,291	2,065	133,63 €	
G4-25	25	100,00	108,00	80	30	2,849	2,188	138,48 €	
G4-26	26	104,00	112,00	80	30	3,045	2,384	149,05 €	
G4-27	27	108,00	116,00	80	30	3,249	2,588	155,56 €	
G4-28	28	112,00	120,00	80	30	3,460	2,799	156,91 €	
G4-29	29	116,00	124,00	80	30	3,680	3,018	167,14 €	
G4-30	30	120,00	128,00	80	30	3,907	3,245	168,21 €	

Dimensions in mm

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Z teeth	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G4-31	31	124,00	132,00	80	30	4,141	3,480	184,65 €	On request
G4-32	32	128,00	136,00	80	30	4,383	3,722	195,53 €	
G4-33	33	132,00	140,00	80	30	4,633	3,972	216,95 €	
G4-34	34	136,00	144,00	80	30	4,891	4,230	223,70 €	
G4-35	35	140,00	148,00	80	30	5,157	4,495	238,82 €	
G4-36	36	144,00	152,00	80	30	5,430	4,769	256,96 €	
G4-37	37	148,00	156,00	80	30	5,710	5,049	272,37 €	
G4-38	38	152,00	160,00	80	30	5,999	5,338	276,54 €	
G4-39	39	156,00	164,00	80	30	6,295	5,634	292,00 €	
G4-40	40	160,00	168,00	80	30	6,599	5,938	301,72 €	
G4-41	41	164,00	172,00	80	30	6,911	6,249	313,19 €	
G4-42	42	168,00	176,00	80	30	7,230	6,569	341,68 €	
G4-43	43	172,00	180,00	80	30	7,557	6,896	347,34 €	
G4-44	44	176,00	184,00	80	30	7,891	7,230	353,26 €	
G4-45	45	180,00	188,00	80	30	8,234	7,573	347,48 €	
G4-46	46	184,00	192,00	80	30	8,584	7,923	363,23 €	
G4-47	47	188,00	196,00	80	30	8,941	8,280	367,32 €	
G4-48	48	192,00	200,00	80	30	9,307	8,646	371,48 €	
G4-49	49	196,00	204,00	80	30	9,680	9,019	442,29 €	
G4-50	50	200,00	208,00	80	30	10,061	9,400	442,29 €	
G4-51	51	204,00	212,00	120	30	11,411	9,788	442,29 €	
G4-52	52	208,00	216,00	120	30	11,807	10,184	442,29 €	
G4-53	53	212,00	220,00	120	30	12,211	10,588	442,29 €	
G4-54	54	216,00	224,00	120	30	12,622	11,000	442,29 €	
G4-55	55	220,00	228,00	120	30	13,042	11,419	520,85 €	
G4-56	56	224,00	232,00	120	30	13,469	11,846	520,85 €	
G4-57	57	228,00	236,00	120	30	13,903	12,281	520,85 €	
G4-58	58	232,00	240,00	120	30	14,346	12,723	519,07 €	
G4-59	59	236,00	244,00	120	30	14,796	13,173	540,39 €	
G4-60	60	240,00	248,00	120	30	15,253	13,631	536,17 €	
G4-61	61	244,00	252,00	120	30	15,719	14,096	671,07 €	
G4-62	62	248,00	256,00	120	30	16,192	14,569	677,28 €	
G4-63	63	252,00	260,00	120	30	16,673	15,050	689,55 €	
G4-64	64	256,00	264,00	120	30	17,161	15,538	703,94 €	
G4-65	65	260,00	268,00	150	38	18,435	15,904	733,66 €	
G4-66	66	264,00	272,00	150	38	18,939	16,408	758,66 €	
G4-67	67	268,00	276,00	150	38	19,450	16,919	785,55 €	
G4-68	68	272,00	280,00	150	38	19,970	17,439	808,80 €	
G4-69	69	276,00	284,00	150	38	20,497	17,966	830,16 €	
G4-70	70	280,00	288,00	150	38	21,031	18,500	847,49 €	
G4-71	71	284,00	292,00	150	38	21,573	19,043	984,73 €	
G4-72	72	288,00	296,00	150	38	22,124	19,593	984,73 €	
↓		Gears available up to this size							
G4-145	145	580,00	588,00	Dimensions: contact us					

Dimensions in mm

HEAVY DUTY spur gear

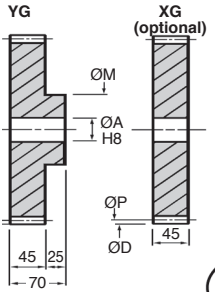
Module 4.0

Steel 35NCD6

- ***Higher torque***
- *Precision class 9*
- *Pressure angle 20°*
- *Linear speed 300m/min*

Options

- *Material :*
  20NCD2 case-hardened



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Torque and power indication				
For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 *hardened*	*20NCD2*	*20NCD2 hardened*
Nm	**420**	*665*	*510*	*1256*
kW	**44**	*69*	*52.96*	*131*

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG4-9	9	40,00	48,00	48	20	0,61	0,32	92,54 €	On request
YG4-10	10	44,00	52,00	52	20	0,76	0,42	89,56 €	
YG4-11	11	48,00	56,00	56	25	0,83	0,45	92,54 €	
YG4-12	12	48,00	56,00	56	25	0,83	0,45	89,68 €	
YG4-13	13	52,00	60,00	60	25	1,01	0,56	99,75 €	
YG4-14	14	56,00	64,00	60	25	1,13	0,68	103,58 €	
YG4-15	15	60,00	68,00	60	25	1,25	0,80	117,41 €	
YG4-16	16	64,00	72,00	60	25	1,39	0,94	134,47 €	
YG4-17	17	68,00	76,00	60	25	1,53	1,08	141,76 €	
YG4-18	18	72,00	80,00	60	25	1,68	1,23	144,25 €	
YG4-19	19	76,00	84,00	60	25	1,84	1,39	154,51 €	
YG4-20	20	80,00	88,00	60	25	2,01	1,56	155,03 €	
YG4-21	21	84,00	92,00	60	25	2,19	1,74	167,85 €	
YG4-22	22	88,00	96,00	75	25	2,68	1,93	176,72 €	
YG4-23	23	92,00	100,00	75	25	2,87	2,12	174,47 €	
YG4-24	24	96,00	104,00	75	25	3,07	2,32	216,85 €	
YG4-25	25	100,00	108,00	75	30	3,17	2,46	216,85 €	
YG4-26	26	104,00	112,00	75	30	3,39	2,68	216,85 €	
YG4-27	27	108,00	116,00	75	30	3,62	2,91	272,74 €	
YG4-28	28	112,00	120,00	75	30	3,86	3,15	272,74 €	
YG4-29	29	116,00	124,00	100	30	4,76	3,40	272,74 €	
YG4-30	30	120,00	128,00	100	30	5,02	3,65	272,74 €	

Dimensions in mm

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG4-31	31	124,00	132,00	100	30	5,28	3,92	318,73 €	
YG4-32	32	128,00	136,00	100	30	5,55	4,19	318,73 €	
YG4-33	33	132,00	140,00	100	30	5,84	4,47	318,73 €	
YG4-34	34	136,00	144,00	100	30	6,13	4,76	415,68 €	
YG4-35	35	140,00	148,00	100	30	6,42	5,06	415,68 €	
YG4-36	36	144,00	152,00	100	30	6,73	5,36	415,68 €	
YG4-37	37	148,00	156,00	100	30	7,05	5,68	451,80 €	
YG4-38	38	152,00	160,00	100	30	7,37	6,01	451,80 €	
YG4-39	39	156,00	164,00	100	30	7,71	6,34	451,80 €	
YG4-40	40	160,00	168,00	100	30	8,05	6,68	525,79 €	
YG4-41	41	164,00	172,00	100	30	8,40	7,03	525,79 €	
YG4-42	42	168,00	176,00	127	30	9,68	7,39	525,79 €	
YG4-43	43	172,00	180,00	127	30	10,05	7,76	525,79 €	
YG4-44	44	176,00	184,00	127	30	10,42	8,13	657,29 €	
YG4-45	45	180,00	188,00	127	30	10,81	8,52	657,29 €	
YG4-46	46	184,00	192,00	127	30	11,20	8,91	657,29 €	
YG4-47	47	188,00	196,00	127	30	11,60	9,32	657,29 €	
YG4-48	48	192,00	200,00	127	30	12,01	9,73	657,29 €	
YG4-49	49	196,00	204,00	127	30	12,43	10,15	862,74 €	
YG4-50	50	200,00	208,00	127	30	12,86	10,57	862,74 €	
YG4-51	51	204,00	212,00	127	30	13,30	11,01	862,74 €	
YG4-52	52	208,00	216,00	127	30	13,75	11,46	862,74 €	
YG4-53	53	212,00	220,00	127	30	14,20	11,91	862,74 €	
YG4-54	54	216,00	224,00	127	30	14,66	12,37	862,74 €	
YG4-55	55	220,00	228,00	127	30	15,13	12,85	1 018,88 €	
YG4-56	56	224,00	232,00	127	30	15,61	13,33	1 018,88 €	
YG4-57	57	228,00	236,00	127	30	16,10	13,82	1 018,88 €	
YG4-58	58	232,00	240,00	127	30	16,60	14,31	1 018,88 €	
YG4-59	59	236,00	244,00	127	30	17,11	14,82	1 018,88 €	
YG4-60	60	240,00	248,00	127	30	17,62	15,33	1 018,88 €	
YG4-61	61	244,00	252,00	127	30	18,15	15,86	1 117,53 €	
YG4-62	62	248,00	256,00	127	30	18,68	16,39	1 117,53 €	
YG4-63	63	252,00	260,00	127	30	19,22	16,93	1 117,53 €	
YG4-64	64	256,00	264,00	127	38	19,54	17,33	1 281,92 €	
YG4-65	65	260,00	268,00	150	38	21,06	17,89	1 281,92 €	
YG4-66	66	264,00	272,00	150	38	21,62	18,46	1 396,95 €	
YG4-67	67	268,00	276,00	150	38	22,20	19,03	1 396,95 €	
YG4-68	68	272,00	280,00	150	38	22,78	19,62	1 396,95 €	
YG4-69	69	276,00	284,00	150	38	23,37	20,21	1 495,53 €	
YG4-70	70	280,00	288,00	150	38	23,98	20,81	1 495,53 €	
YG4-71	71	284,00	292,00	150	38	24,59	21,42	1 699,40 €	
YG4-72	72	288,00	296,00	150	38	25,21	22,04	1 699,40 €	
↓	**Gears available up to this size**								
G4-145	**145**	**580,00**	**588,00**	**Dimensions: contact us**					

On request

Dimensions in mm

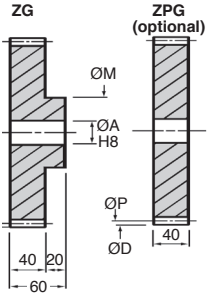
Plastic spur gear

Module 4.0

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	**55**



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 5 ZG	ZPG
ZG4-9	9	40,00	48,00	30	20	44,92 €	On request
ZG4-10	10	44,00	52,00	34	20	44,92 €	
ZG4-11	11	48,00	56,00	38	25	44,92 €	
ZG4-12	12	48,00	56,00	38	25	44,92 €	
ZG4-13	13	52,00	60,00	38	25	48,60 €	
ZG4-14	14	56,00	64,00	40	25	52,00 €	
ZG4-15	15	60,00	68,00	40	25	59,13 €	
ZG4-16	16	64,00	72,00	50	25	65,59 €	
ZG4-17	17	68,00	76,00	50	25	69,19 €	
ZG4-18	18	72,00	80,00	50	25	72,51 €	
ZG4-19	19	76,00	84,00	50	25	75,37 €	
ZG4-20	20	80,00	88,00	50	25	77,72 €	
ZG4-21	21	84,00	92,00	50	25	81,84 €	
ZG4-22	22	88,00	96,00	50	25	86,18 €	
ZG4-23	23	92,00	100,00	50	25	88,84 €	
ZG4-24	24	96,00	104,00	50	25	104,96 €	
ZG4-25	25	100,00	108,00	80	30	104,96 €	
ZG4-26	26	104,00	112,00	80	30	104,96 €	
ZG4-27	27	108,00	116,00	80	30	129,24 €	
ZG4-28	28	112,00	120,00	80	30	129,24 €	
ZG4-29	29	116,00	124,00	80	30	130,97 €	
ZG4-30	30	120,00	128,00	80	30	129,24 €	

Dimensions in mm

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 5 ZG	ZPG
ZG4-31	31	124,00	132,00	80	30	153,45 €	On request
ZG4-32	32	128,00	136,00	80	30	241,26 €	
ZG4-33	33	132,00	140,00	80	30	258,48 €	
ZG4-34	34	136,00	144,00	80	30	276,21 €	
ZG4-35	35	140,00	148,00	80	30	299,57 €	
ZG4-36	36	144,00	152,00	80	30	317,14 €	
ZG4-37	37	148,00	156,00	80	30	336,35 €	
ZG4-38	38	152,00	160,00	80	30	341,44 €	
ZG4-39	39	156,00	164,00	80	30	360,60 €	
ZG4-40	40	160,00	168,00	80	30	372,53 €	
ZG4-41	41	164,00	172,00	80	30	386,66 €	
ZG4-42	42	168,00	176,00	80	30	421,77 €	
ZG4-43	43	172,00	180,00	80	30	428,99 €	
ZG4-44	44	176,00	184,00	80	30	436,27 €	
ZG4-45	45	180,00	188,00	80	30	443,32 €	
ZG4-46	46	184,00	192,00	80	30	448,44 €	
ZG4-47	47	188,00	196,00	80	30	453,58 €	
ZG4-48	48	192,00	200,00	80	30	On request	
ZG4-49	49	196,00	204,00	80	30	On request	
ZG4-50	50	200,00	208,00	80	30	On request	
ZG4-51	51	204,00	212,00	120	30	On request	
ZG4-52	52	208,00	216,00	120	30	On request	
ZG4-53	53	212,00	220,00	120	30	On request	
ZG4-54	54	216,00	224,00	120	30	On request	
ZG4-55	55	220,00	228,00	120	30	On request	
ZG4-56	56	224,00	232,00	120	30	On request	
ZG4-57	57	228,00	236,00	120	30	On request	
ZG4-58	58	232,00	240,00	120	30	On request	
ZG4-59	59	236,00	244,00	120	30	On request	
ZG4-60	60	240,00	248,00	120	30	On request	
ZG4-61	61	244,00	252,00	120	30	On request	
ZG4-62	62	248,00	256,00	120	30	On request	
ZG4-63	63	252,00	260,00	120	30	On request	
ZG4-64	64	256,00	264,00	120	30	On request	
ZG4-65	65	260,00	268,00	150	38	On request	
ZG4-66	66	264,00	272,00	150	38	On request	
ZG4-67	67	268,00	276,00	150	38	On request	
ZG4-68	68	272,00	280,00	150	38	On request	
ZG4-69	69	276,00	284,00	150	38	On request	
ZG4-70	70	280,00	288,00	150	38	On request	
ZG4-71	71	284,00	292,00	150	38	On request	
ZG4-72	72	288,00	296,00	150	38	On request	
↓	Gears available up to this size						
ZG4-100	100	400,00	400,00 Dimensions: contact us				

Dimensions in mm

Steel spur gear economy range

Stock Eco

Module 5,0

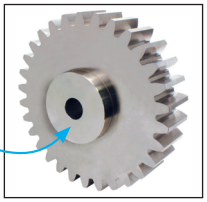
C45 steel

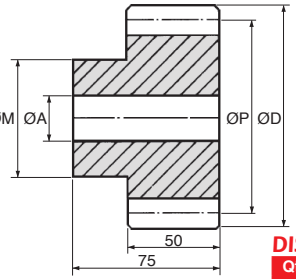
Economy range

- **Economy range of gears**
- Pressure angle 20°
- Material: C45 steel UNI7845

Info

- Pilot bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application, **we are unable to offer this service**





DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Stock*	Price each 1 to 3
HG5-12/ECO	12	60	70	45	16	✔	19,99 €
HG5-13/ECO	13	65	75	50	16	-	21,91 €
HG5-14/ECO	14	70	80	55	20	-	25,58 €
HG5-15/ECO	15	75	85	60	20	✔	26,36 €
HG5-16/ECO	16	80	90	65	20	-	30,36 €
HG5-17/ECO	17	85	95	70	20	-	32,30 €
HG5-18/ECO	18	90	100	70	20	✔	36,70 €
HG5-19/ECO	19	95	105	70	20	-	39,51 €
HG5-20/ECO	20	100	110	80	20	✔	44,71 €
HG5-21/ECO	21	105	115	80	20	-	46,61 €
HG5-22/ECO	22	110	120	80	25	-	52,24 €
HG5-23/ECO	23	115	125	90	25	-	54,69 €
HG5-24/ECO	24	120	130	90	25	-	61,69 €
HG5-25/ECO	25	125	135	90	25	-	63,56 €
HG5-26/ECO	26	130	140	100	25	-	68,56 €
HG5-27/ECO	27	135	145	100	25	-	72,63 €
HG5-28/ECO	28	140	150	100	25	-	77,74 €
HG5-29/ECO	29	145	155	100	25	-	90,13 €
HG5-30/ECO	30	150	160	100	25	-	101,46 €

*Depending on availability - Dimensions in mm

Steel spur gear

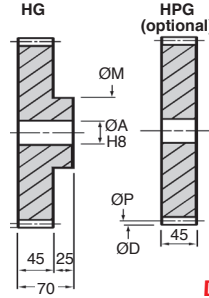
Steel 20NCD2

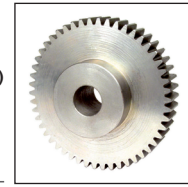
Module 5.0

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/min*

Option

- ***Alternative number of teeth, (up to 115)***





Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**294**	1570	80
kW	**30.80**	165	8.30

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 3 HG	HPG
HG5-12	12	60,00	70,00	40	20	On request	On request
HG5-14	14	70,00	80,00	50	25	166,62 €	
HG5-15	15	75,00	85,00	50	25	On request	
HG5-18	18	90,00	100,00	70	30	195,48 €	
HG5-19	19	95,00	105,00	70	30	On request	
HG5-20	20	100,00	110,00	80	30	323,72 €	
HG5-21	21	105,00	115,00	80	30	On request	
HG5-22	22	110,00	120,00	80	30	On request	
HG5-23	23	115,00	125,00	85	30	241,45 €	
HG5-24	24	120,00	130,00	85	30	On request	
HG5-25	25	125,00	135,00	85	30	266,33 €	
HG5-30	30	150,00	160,00	100	30	403,69 €	
HG5-35	35	175,00	185,00	100	30	509,35 €	
HG5-38	38	190,00	200,00	100	38	On request	
HG5-40	40	200,00	210,00	150	38	On request	
HG5-42	42	210,00	220,00	150	38	On request	
HG5-45	45	225,00	235,00	150	38	On request	
HG5-50	50	250,00	260,00	150	38	On request	
HG5-52	52	260,00	270,00	150	38	On request	
HG5-55	55	275,00	285,00	150	38	On request	
↓	**Gears available up to this size**						
HG5-115	**115**	**575,00**	**585,00**	**Dimensions: contact us**			

Dimensions in mm

Plastic spur gear

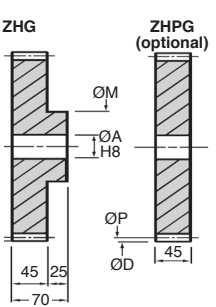
Module 5.0

Machined Delrin

- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Option

- ***Different number of teeth (up to 115)***



bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	**90**

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 3 ZHG	ZHPG
ZHG5-12	12	60,00	70,00	40	20	On request	On request
ZHG5-14	14	70,00	80,00	50	25	On request	
ZHG5-15	15	75,00	85,00	50	25	On request	
ZHG5-18	18	90,00	100,00	70	30	192,56 €	
ZHG5-19	19	95,00	105,00	70	30	On request	
ZHG5-20	20	100,00	110,00	80	30	213,28 €	
ZHG5-21	21	105,00	115,00	80	30	On request	
ZHG5-22	22	110,00	120,00	80	30	On request	
ZHG5-23	23	115,00	125,00	85	30	236,79 €	
ZHG5-24	24	120,00	130,00	85	30	On request	
ZHG5-25	25	125,00	135,00	85	30	263,14 €	
ZHG5-30	30	150,00	160,00	100	30	398,87 €	
ZHG5-35	35	175,00	185,00	100	30	503,45 €	
ZHG5-38	38	190,00	200,00	100	38	On request	
ZHG5-40	40	200,00	210,00	150	38	On request	
ZHG5-42	42	210,00	220,00	150	38	On request	
ZHG5-45	45	225,00	235,00	150	38	On request	
ZHG5-50	50	250,00	260,00	150	38	On request	
ZHG5-52	52	260,00	270,00	150	38	On request	
ZHG5-55	55	275,00	285,00	150	38	On request	
↓	**Gears available up to this size**						
ZHG5-115	**115**	**575,00**	**585,00**	**Dimensions: contact us**			

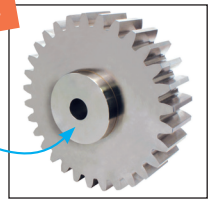
Dimensions in mm

Steel spur gear economy range

C45 steel

Module 6,0

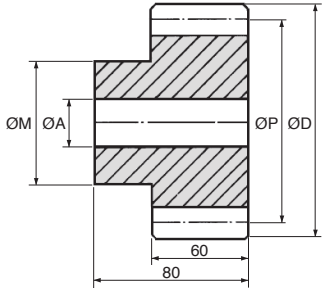
Economy range



- ***Economy range of gears***
- *Pressure angle 20°*
- *Material:*
  C45 steel UNI7845

Info

- *Pilot bore information is given as a guide only and may vary between batches*
- *Gear should be finished to suit the application,* ***we are unable to offer this service***



DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Pilot bore	Stock*	Price each 1 to 3
HG6-12/ECO	12	72	84	54	16	✔	40,50 €
HG6-13/ECO	13	78	90	60	16	-	49,63 €
HG6-15/ECO	15	90	102	70	20	✔	58,04 €
HG6-16/ECO	16	96	108	75	20	-	61,01 €
HG6-18/ECO	18	108	120	80	20	-	79,97 €
HG6-20/ECO	20	120	132	90	20	✔	92,64 €
HG6-24/ECO	24	144	156	110	25	-	136,00 €
HG6-25/ECO	25	150	162	110	25	-	145,49 €

**Depending on availability - Dimensions in mm*

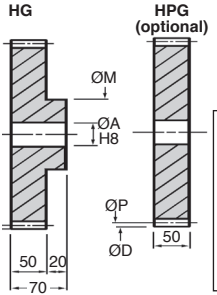
Module 6.0

Steel 20NCD2

- ***Precision class 9***
- *Pressure angle 20°*
- *Linear speed 300m/mn*

Option

- ***Alternative number of teeth, (up to 95)***



Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2	20NCD2	
	Z10CNF18.09	hardened	brass
Nm	**441**	2350	120
kW	**46**	246	12.60

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 3 HG	HPG
HG6-12	12	72,00	84,00	50	25	On request	On request
HG6-14	14	84,00	96,00	60	25	175,47 €	
HG6-15	15	90,00	102,00	65	25	188,03 €	
HG6-18	18	108,00	120,00	80	30	225,62 €	
HG6-19	19	114,00	126,00	80	30	238,20 €	
HG6-20	20	120,00	132,00	90	30	250,68 €	
HG6-21	21	126,00	138,00	90	30	On request	
HG6-22	22	132,00	144,00	90	30	On request	
HG6-23	23	138,00	150,00	90	30	288,37 €	
HG6-24	24	144,00	156,00	90	30	On request	
HG6-25	25	150,00	162,00	90	30	313,48 €	
HG6-30	30	180,00	192,00	100	30	449,77 €	
HG6-31	31	186,00	198,00	100	30	On request	
HG6-32	32	192,00	204,00	120	38	On request	
HG6-35	35	210,00	222,00	120	38	648,79 €	
HG6-38	38	228,00	240,00	120	38	On request	
HG6-40	40	240,00	252,00	150	38	741,45 €	
HG6-41	41	246,00	258,00	150	38	On request	
HG6-42	42	252,00	264,00	150	38	On request	
HG6-44	44	264,00	276,00	150	38	On request	
↓	**Gears available up to this size**						
HG6-95	**95**	**570,00**	**582,00**	**Dimensions: contact us**			

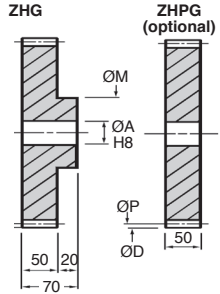
Dimensions in mm

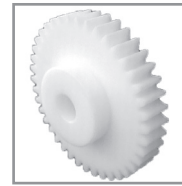
- ***Machined parts***
- *Precision class 9*
- *Pressure angle 20°*
- *Working temp. -50°C to +80°C*

Option

- ***Alternative number of teeth (up to 95)***

Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	**140**





bore-size, keyway
MODIFY IT!
tapped hole, pin, etc...

DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	External ØD	Boss ØM	Bore ØA	Price each 1 to 3 ZHG	ZHPG
ZHG6-12	12	72,00	84,00	50	25	On request	On request
ZHG6-14	14	84,00	96,00	60	25	On request	
ZHG6-15	15	90,00	102,00	65	25	On request	
ZHG6-18	18	108,00	120,00	80	30	202,29 €	
ZHG6-19	19	114,00	126,00	80	30	On request	
ZHG6-20	20	120,00	132,00	90	30	224,78 €	
ZHG6-21	21	126,00	138,00	90	30	On request	
ZHG6-22	22	132,00	144,00	90	30	On request	
ZHG6-23	23	138,00	150,00	90	30	On request	
ZHG6-24	24	144,00	156,00	90	30	On request	
ZHG6-25	25	150,00	162,00	90	30	281,04 €	
ZHG6-30	30	180,00	192,00	100	30	403,24 €	
ZHG6-31	31	186,00	198,00	100	30	On request	
ZHG6-32	32	192,00	204,00	120	38	On request	
ZHG6-35	35	210,00	222,00	120	38	627,30 €	
ZHG6-38	38	228,00	240,00	120	38	On request	
ZHG6-40	40	240,00	252,00	150	38	On request	
ZHG6-41	41	246,00	258,00	150	38	On request	
ZHG6-42	42	252,00	264,00	150	38	On request	
ZHG6-44	44	264,00	276,00	150	38	On request	
↓	Gears available up to this size						
ZHG6-95	95	570,00	582,00	Dimensions: contact us			

Dimensions in mm

Steel spur gear economy range

Ste € Eco

Module 8,0

C45 Steel

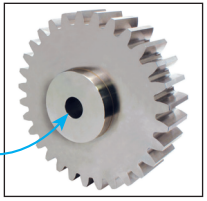
Economy range

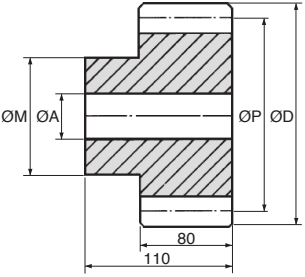
- **Economical gear range**
- Pressure angle 20°
- Material:
C45 steel UNI7845

Info.

- * Pre-bore information is given as a guide only and may vary between batches
- Gear should be finished to suit the application
- **We are unable to modify these gears**

Supplied pre bored*





DISCOUNTS

Qty	1+	4+	10+
Disc.	List	-5%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Hub	ØA Pre-bore	Weight (kg)	Price each 1 to 3
HG8-15/ECO	15	120	136	90	25	8,2	105,09 €
HG8-18/ECO	18	144	160	100	25	11,7	207,69 €
HG8-20/ECO	20	160	176	120	30	14,6	167,82 €
HG8-24/ECO	24	192	208	150	30	21,7	187,80 €
HG8-25/ECO	25	200	216	150	30	23,3	221,25 €
HG8-28/ECO	28	224	240	170	30	29,5	278,45 €
HG8-30/ECO	30	240	256	190	30	34,4	255,18 €

All dimensions in mm

Technical information

- *Approximate metric module gear size*
- *Pressure angle 20°*

Module 0.25

Module 0.3

Module 0.4

Module 0.5

Module 0.6

Module 0.7

Module 0.75

Module 0.8

Module 0.9

Module 1

Module 1.75

Module 2

Module 2.5

Module 3

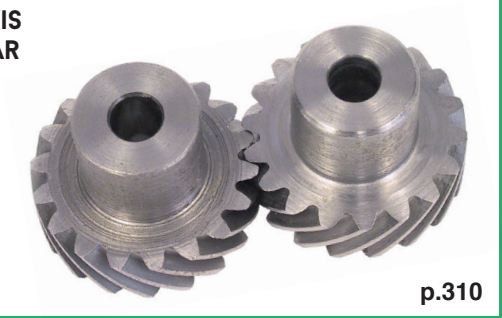
Module 4

Module 5

Module 6

Module 8

PARALLEL AXIS HELICAL GEAR



p.310

HELICAL GEAR

P. 310-331

CROSSED HELICAL GEAR

p.321

Parallel axis helical gear

Steel 17°45

Module 0.4

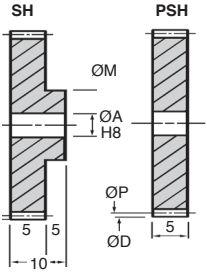
Steel

- ***Gears are in permanent contact***
- ***Reduced noise***
- *Pressure angle 20°*
- *Material: Steel 20NCD2*

Info.

Important: *a right handed gear only meshes with a left handed gear.*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*brass*
Nm	**0.28**	*1.12*	*0.14*
kW	**0.03**	*0.12*	*0.01*



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Bore	Price each 1 to 5 SH	PSH
SH0.4-25	25	10,50	11,30	8,00	3	26,09 €	On request
SH0.4-30	30	12,60	13,40	8,00	3	26,40 €	
SH0.4-35	35	14,70	15,50	8,00	3	27,07 €	
SH0.4-40	40	16,80	17,60	12,00	4	27,73 €	
SH0.4-45	45	18,90	19,70	12,00	4	28,74 €	
SH0.4-50	50	21,00	21,80	12,00	4	29,61 €	
SH0.4-55	55	23,10	23,90	12,00	4	30,46 €	
SH0.4-60	60	25,20	26,00	12,00	4	31,80 €	
SH0.4-65	65	27,30	28,10	12,00	4	33,35 €	
SH0.4-70	70	29,40	30,20	12,00	4	33,80 €	
SH0.4-75	75	31,50	32,30	12,00	4	34,23 €	
SH0.4-80	80	33,60	34,40	12,00	5	34,82 €	
SH0.4-86	86	36,12	36,92	12,00	5	36,09 €	
SH0.4-90	90	37,80	38,60	12,00	5	37,43 €	
SH0.4-100	100	42,00	42,80	12,00	5	38,81 €	
SH0.4-120	120	50,40	51,20	12,00	5	39,33 €	
SH0.4-140	140	58,80	59,60	12,00	5	42,82 €	
SH0.4-150	150	63,00	63,80	12,00	5	44,15 €	
SH0.4-180	180	75,60	76,40	15,00	6	62,26 €	
SH0.4-200	200	84,00	84,80	15,00	8	69,93 €	
SH0.4-220	220	92,40	93,20	15,00	8	sur demande	
SH0.4-250	250	105,00	105,80	20,00	10	91,50 €	
↓	Gears available up to this size						
SH0.4-330	**330**	Dimensions: contact us					

Dimensions in mm

Parallel axis helical gear

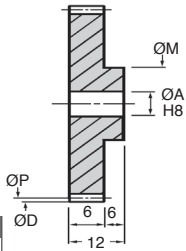
Steel or machined Delrin

Module 0.5

- ***Gears are in permanent contact***
- ***Reduced noise***
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or Delrin plastic*

Info.

Important: *a right handed gear only meshes with a left handed gear.*



Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**0.53**	*2.09*	*0.26*	*0.13*
kW	**0.05**	*0.22*	*0.03*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM SH	Boss ZSH	ØA SH	Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH0.5-20	ZSH0.5-20	20	10,50	11,50	8,50	9	4	3	29,71 €	14,83 €
SH0.5-25	ZSH0.5-25	25	13,13	14,13	10,00	10	4	3	31,63 €	15,77 €
SH0.5-30	ZSH0.5-30	30	15,75	16,75	10,00	12	5	4	33,01 €	16,55 €
SH0.5-35	ZSH0.5-35	35	18,38	19,38	10,00	12	5	4	34,95 €	17,49 €
SH0.5-40	ZSH0.5-40	40	21,00	22,00	10,00	12	5	4	36,81 €	17,74 €
SH0.5-45	ZSH0.5-45	45	23,63	24,63	10,00	12	5	4	38,72 €	18,79 €
SH0.5-50	ZSH0.5-50	50	26,25	27,25	12,00	12	6	4	40,56 €	19,72 €
SH0.5-55	ZSH0.5-55	55	28,88	29,88	12,00	14	6	4	42,02 €	20,67 €
SH0.5-60	ZSH0.5-60	60	31,50	32,50	12,00	14	6	4	43,47 €	23,51 €
SH0.5-65	ZSH0.5-65	65	34,13	35,13	12,00	14	6	4	44,85 €	24,21 €
SH0.5-70	ZSH0.5-70	70	36,75	37,75	12,00	14	6	4	45,54 €	24,49 €
SH0.5-75	ZSH0.5-75	75	39,38	40,38	12,00	14	6	4	46,46 €	25,07 €
SH0.5-80	ZSH0.5-80	80	42,00	43,00	12,00	16	6	5	47,47 €	25,49 €
SH0.5-86	ZSH0.5-86	86	45,15	46,15	12,00	16	6	5	48,48 €	29,63 €
SH0.5-90	ZSH0.5-90	90	47,25	48,25	12,00	16	6	5	49,30 €	30,06 €
SH0.5-100	ZSH0.5-100	100	52,50	53,50	12,00	16	6	5	50,06 €	30,66 €
SH0.5-120	ZSH0.5-120	120	63,00	64,00	12,00	16	6	6	60,52 €	31,01 €
SH0.5-140	ZSH0.5-140	140	73,50	74,50	12,00	16	6	6	72,39 €	31,31 €
SH0.5-150	ZSH0.5-150	150	78,75	79,75	15,00	16	8	8	79,90 €	31,34 €
SH0.5-180	ZSH0.5-180	180	94,50	95,50	15,00	16	8	8	88,98 €	45,73 €
SH0.5-200	-	200	105,00	106,00	20,00	-	10	-	97,15 €	-
SH0.5-220	-	220	115,50	116,50	20,00	-	10	-	105,96 €	-
SH0.5-250	-	250	131,25	132,25	25,00	-	12	-	116,58 €	-
↓	↓	Gears available up to this size								
SH0.5-264	**ZSH0.5-264**	**264**	**Dimensions: contact us**							

Dimensions in mm

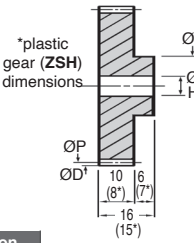
Module 0.7

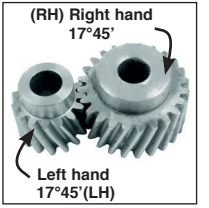
Steel or machined Delrin

- *Gears are in permanent contact*
- *Reduced noise*
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or Delrin plastic*

Info.

Important: *a right handed gear only meshes with a left handed gear.*





Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**1.73**	*6.83*	*0.86*	*0.4*
kW	**0.18**	*0.72*	*0.09*	*-*

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM SH	Boss ZSH	ØA SH	Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH0.7-15	ZSH0.7-15	15	11,03	12,43	11,90	12,43	5	3	32,50 €	16,27 €
SH0.7-20	ZSH0.7-20	20	14,70	16,10	12,00	12,00	5	3	35,93 €	17,94 €
SH0.7-22	ZSH0.7-22	22	16,17	17,57	12,00	12,00	5	3	36,61 €	18,38 €
SH0.7-25	ZSH0.7-25	25	18,38	19,78	12,00	14,00	5	4	37,75 €	18,93 €
SH0.7-30	ZSH0.7-30	30	22,05	23,45	12,00	14,00	5	4	39,15 €	19,57 €
SH0.7-34	ZSH0.7-34	34	24,99	26,39	16,00	14,00	6	4	39,65 €	19,89 €
SH0.7-35	ZSH0.7-35	35	25,73	27,13	16,00	14,00	6	4	39,74 €	19,89 €
SH0.7-40	ZSH0.7-40	40	29,40	30,80	16,00	16,00	6	5	40,16 €	22,16 €
SH0.7-45	ZSH0.7-45	45	33,08	34,48	16,00	16,00	6	5	40,56 €	22,41 €
SH0.7-50	ZSH0.7-50	50	36,75	38,15	16,00	16,00	6	5	41,47 €	22,96 €
SH0.7-51	ZSH0.7-51	51	37,49	38,89	16,00	16,00	6	5	41,63 €	22,96 €
SH0.7-55	ZSH0.7-55	55	40,43	41,83	16,00	16,00	6	5	42,42 €	26,64 €
SH0.7-60	ZSH0.7-60	60	44,10	45,50	16,00	16,00	6	5	43,42 €	27,25 €
SH0.7-70	ZSH0.7-70	70	51,45	52,85	16,00	18,00	8	6	45,18 €	34,05 €
SH0.7-75	ZSH0.7-75	75	55,13	56,63	16,00	18,00	8	6	46,15 €	34,92 €
SH0.7-80	ZSH0.7-80	80	58,80	60,20	16,00	18,00	8	6	48,13 €	41,23 €
SH0.7-90	ZSH0.7-90	90	66,15	67,55	16,00	18,00	8	6	50,86 €	43,57 €
SH0.7-100	ZSH0.7-100	100	73,50	74,90	16,00	18,00	8	6	64,68 €	55,45 €
SH0.7-120	ZSH0.7-120	120	88,20	89,60	20,00	18,00	8	8	88,30 €	80,20 €
SH0.7-140	-	140	102,63	104,30	20,00	-	10	-	100,62 €	-
SH0.7-150	-	150	110,25	111,65	25,00	-	10	-	109,13 €	-
SH0.7-175	-	175	128,63	130,03	30,00	-	15	-	125,77 €	-
↓	↓	**Gears available up to this size**								
SH0.7-188	**ZSH0.7-188**	**188**	**Dimensions: contact us**							

Dimensions in mm

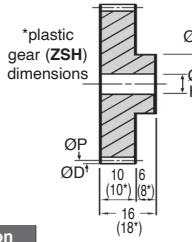
Steel or machined Delrin

Module 0.8

- *Gears are in permanent contact*
- *Reduced noise*
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or Delrin plastic*

Info.

Important: *a right handed gear only meshes with a left handed gear.*



Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**2.25**	*8.92*	*1.13*	*0.5*
kW	**0.24**	*0.93*	*0.12*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM SH	Boss ZSH	ØA SH	Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH0.8-15	ZSH0.8-15	15	12,60	14,20	12	14,20	5	3	32,50 €	16,27 €
SH0.8-16	ZSH0.8-16	16	13,44	15,04	12	15,04	5	3	33,38 €	16,66 €
SH0.8-19	ZSH0.8-19	19	15,96	17,56	12	14,00	5	4	35,48 €	17,74 €
SH0.8-20	ZSH0.8-20	20	16,80	18,40	12	14,00	5	4	35,93 €	17,94 €
SH0.8-25	ZSH0.8-25	25	21,00	22,60	12	14,00	5	4	37,75 €	18,93 €
SH0.8-28	ZSH0.8-28	28	23,52	25,12	12	14,00	5	4	38,72 €	19,39 €
SH0.8-30	ZSH0.8-30	30	25,20	26,80	16	16,00	6	5	39,15 €	19,57 €
SH0.8-35	ZSH0.8-35	35	29,40	31,00	16	16,00	6	5	39,74 €	21,89 €
SH0.8-40	ZSH0.8-40	40	33,60	35,20	16	16,00	6	5	40,16 €	22,16 €
SH0.8-45	ZSH0.8-45	45	37,80	39,40	16	16,00	6	5	40,56 €	22,41 €
SH0.8-50	ZSH0.8-50	50	42,00	43,60	16	16,00	6	5	41,19 €	25,82 €
SH0.8-55	ZSH0.8-55	55	46,20	47,80	16	18,00	6	6	42,25 €	26,58 €
SH0.8-60	ZSH0.8-60	60	50,40	52,00	16	18,00	8	6	42,94 €	32,46 €
SH0.8-66	ZSH0.8-66	66	55,44	57,04	16	18,00	8	6	44,03 €	33,14 €
SH0.8-70	ZSH0.8-70	70	58,80	60,40	16	18,00	8	6	44,41 €	38,02 €
SH0.8-75	ZSH0.8-75	75	63,00	64,60	16	18,00	8	6	45,18 €	38,72 €
SH0.8-80	ZSH0.8-80	80	67,20	68,80	16	18,00	8	6	47,47 €	40,63 €
SH0.8-90	ZSH0.8-90	90	75,60	77,20	20	22,00	8	6	50,06 €	45,37 €
SH0.8-100	ZSH0.8-100	100	84,00	85,60	20	22,00	8	8	55,68 €	50,59 €
SH0.8-120	ZSH0.8-120	120	100,80	102,40	20	30,00	10	10	73,55 €	81,67 €
SH0.8-140	ZSH0.8-140	140	117,60	119,20	20	30,00	10	10	96,35 €	102,36 €
SH0.8-150	-	150	126,00	127,60	30	-	12	-	111,38 €	-
↓	↓	**Gears available up to this size**								
SH0.8-164	**ZSH0.8-164**	**164**	**Dimensions: contact us**							

Dimensions in mm

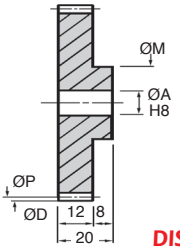
Module 1.0

Steel or machined Delrin

- **Gears are in permanent contact**
- **Reduced noise**
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *a right handed gear only meshes with a left handed gear.*



Torque and power indication

For 50 teeth at 1000 rpm

	20NCD2 Z10CNF18.09	20NCD2 hardened	Brass	Delrin
Nm	**4.23**	16.74	2.12	1.0
kW	**0.44**	1.75	0.22	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss SH	ØM Boss ZSH	ØA Bore SH	ØA Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH1-10	-	10	10,50	12,50	12	-	6	-	27,07 €	-
SH1-12	ZSH1-12	12	12,60	14,60	12	14	6	4	27,07 €	13,53 €
SH1-15	ZSH1-15	15	15,75	17,75	12	15	6	6	28,56 €	14,17 €
SH1-16	ZSH1-16	16	16,80	18,80	15	15	8	6	29,03 €	14,45 €
SH1-20	ZSH1-20	20	21,00	23,00	15	15	8	6	31,63 €	15,77 €
SH1-25	ZSH1-25	25	26,25	28,25	15	18	8	6	33,86 €	16,95 €
SH1-28	ZSH1-28	28	29,40	31,40	15	18	8	6	36,70 €	20,26 €
SH1-29	ZSH1-29	29	30,45	32,45	15	18	8	6	37,65 €	20,73 €
SH1-30	ZSH1-30	30	31,50	33,50	20	18	8	6	38,36 €	21,15 €
SH1-33	ZSH1-33	33	34,65	36,65	20	18	8	6	39,73 €	21,89 €
SH1-35	ZSH1-35	35	36,75	38,75	20	18	8	6	40,56 €	22,41 €
SH1-40	ZSH1-40	40	42,00	44,00	20	18	8	6	43,84 €	27,59 €
SH1-45	ZSH1-45	45	47,25	49,25	20	18	8	6	44,67 €	28,12 €
SH1-50	ZSH1-50	50	52,50	54,50	30	22	10	8	49,73 €	31,31 €
SH1-55	ZSH1-55	55	57,75	59,75	30	22	10	8	53,40 €	33,66 €
SH1-60	ZSH1-60	60	63,00	65,00	30	22	10	8	56,39 €	42,65 €
SH1-65	ZSH1-65	65	68,25	70,25	30	22	10	8	62,43 €	47,17 €
SH1-66	ZSH1-66	66	69,30	71,30	30	22	10	8	63,72 €	48,13 €
SH1-70	ZSH1-70	70	73,50	75,50	30	22	10	8	66,80 €	57,25 €
SH1-80	ZSH1-80	80	84,00	86,00	30	26	10	8	75,55 €	58,12 €
SH1-90	ZSH1-90	90	94,50	96,50	30	26	10	8	80,71 €	81,39 €
SH1-100	ZSH1-100	100	105,00	107,00	30	26	10	10	90,53 €	121,16 €
SH1-120	ZSH1-120	120	126,00	128,00	40	30	12	12	128,19 €	169,43 €
SH1-130	-	130	136,50	138,50	40	-	12	-	137,59 €	-
↓	↓	**Gears available up to this size**								
SH1-550	**ZSH1-550**	**550**	**Dimensions: contact us**							

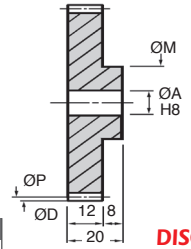
Dimensions in mm

Parallel axis helical gear

Steel or machined Delrin

Module 1.25

- **Gears are in permanent contact**
- **Reduced noise**
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic



Info.

Important: *a right handed gear only meshes with a left handed gear.*

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**6.61**	*43.45*	*3.31*	*1.5*
kW	**0.69**	*4.55*	*0.34*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss SH	ØM Boss ZSH	ØA Bore SH	ØA Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH1.25-10	-	10	13,13	15,63	12	-	6	-	34,95 €	-
SH1.25-15	ZSH1.25-15	15	19,69	22,19	12	15	6	5	38,01 €	19,09 €
SH1.25-18	ZSH1.25-18	18	23,63	26,13	15	16	8	6	41,35 €	20,73 €
SH1.25-20	ZSH1.25-20	20	26,25	28,75	15	16	8	6	43,56 €	21,80 €
SH1.25-21	ZSH1.25-21	21	27,56	30,06	15	18	8	6	44,13 €	24,33 €
SH1.25-25	ZSH1.25-25	25	32,81	35,31	15	18	8	6	46,74 €	25,73 €
SH1.25-30	ZSH1.25-30	30	39,38	41,88	25	18	8	6	53,58 €	29,63 €
SH1.25-35	ZSH1.25-35	35	45,94	48,44	25	18	8	6	58,99 €	37,06 €
SH1.25-37	ZSH1.25-37	37	45,56	51,06	25	18	8	6	60,30 €	45,49 €
SH1.25-40	ZSH1.25-40	40	52,50	55,00	30	22	10	8	62,26 €	47,08 €
SH1.25-45	ZSH1.25-45	45	59,06	61,56	30	22	10	8	63,59 €	54,50 €
SH1.25-50	ZSH1.25-50	50	65,63	68,13	30	22	10	8	66,41 €	56,88 €
SH1.25-55	ZSH1.25-55	55	72,19	74,69	30	26	10	10	69,25 €	59,33 €
SH1.25-60	ZSH1.25-60	60	78,75	81,25	30	26	10	10	80,02 €	72,61 €
SH1.25-65	ZSH1.25-65	65	85,31	87,81	30	26	10	10	84,89 €	77,05 €
SH1.25-70	ZSH1.25-70	70	91,88	94,38	30	26	10	10	89,53 €	90,31 €
SH1.25-76	ZSH1.25-76	76	99,75	102,25	30	30	10	10	92,55 €	102,57 €
SH1.25-80	ZSH1.25-80	80	105,00	107,50	30	30	10	10	102,27 €	113,62 €
SH1.25-88	ZSH1.25-88	88	115,50	118,00	30	30	10	10	113,27 €	125,72 €
SH1.25-90	ZSH1.25-90	90	118,13	120,63	40	30	12	12	114,30 €	138,60 €
SH1.25-96	ZSH1.25-96	96	126,00	128,50	30	30	10	12	131,42 €	158,36 €
SH1.25-100	ZSH1.25-100	100	131,25	133,75	40	30	12	12	133,58 €	181,82 €
SH1.25-120	-	120	157,50	160,00	50	-	15	-	158,17 €	-
SH1.25-130	-	130	170,63	173,13	50	-	15	-	176,30 €	-
↓	↓	**Gears available up to this size**								
SH1.25-135	**ZSH1.25-135**	**135**	**Dimensions: contact us**							

Dimensions in mm

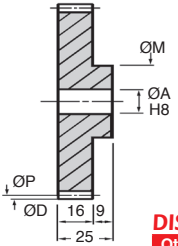
Module 1.5

Steel or machined Delrin

- **Gears are in permanent contact**
- **Reduced noise**
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *a right handed gear only meshes with a left handed gear.*



Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**12.71**	*50.29*	*6.36*	*3.0*
kW	**1.34**	*5.27*	*0.66*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss SH	ØM Boss ZSH	ØA Bore SH	ØA Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH1.5-10	ZSH1.5-10	10	15,75	18,75	18	18	8	6	35,02 €	17,55 €
SH1.5-15	ZSH1.5-15	15	23,63	26,63	18	20	8	8	36,32 €	18,23 €
SH1.5-16	ZSH1.5-16	16	25,20	28,20	20	20	10	8	37,20 €	18,58 €
SH1.5-20	ZSH1.5-20	20	31,50	34,50	20	25	10	8	42,90 €	23,71 €
SH1.5-23	ZSH1.5-23	23	36,23	39,23	20	25	10	8	44,59 €	26,51 €
SH1.5-25	ZSH1.5-25	25	39,38	42,38	25	25	12	8	47,47 €	29,85 €
SH1.5-26	ZSH1.5-26	26	40,95	43,95	25	25	12	8	49,71 €	31,63 €
SH1.5-30	ZSH1.5-30	30	47,25	50,25	25	25	12	8	55,27 €	34,68 €
SH1.5-31	ZSH1.5-31	31	48,83	51,83	25	28	12	10	56,00 €	35,32 €
SH1.5-32	ZSH1.5-32	32	50,40	53,40	25	28	12	10	57,19 €	36,07 €
SH1.5-38	ZSH1.5-38	38	59,85	62,85	30	28	15	10	64,55 €	49,61 €
SH1.5-40	ZSH1.5-40	40	63,00	66,00	40	30	15	12	67,52 €	51,06 €
SH1.5-45	ZSH1.5-45	45	70,88	73,88	40	30	15	12	68,90 €	52,05 €
SH1.5-50	ZSH1.5-50	50	78,75	81,75	40	30	15	12	82,40 €	70,64 €
SH1.5-56	ZSH1.5-56	56	88,20	91,20	40	30	15	12	89,23 €	81,07 €
SH1.5-60	ZSH1.5-60	60	94,50	97,50	40	30	15	12	91,50 €	92,26 €
SH1.5-66	ZSH1.5-66	66	103,95	106,95	40	40	15	12	100,29 €	101,24 €
SH1.5-70	ZSH1.5-70	70	110,25	113,25	40	40	15	12	106,27 €	107,34 €
SH1.5-75	ZSH1.5-75	75	118,13	121,13	40	40	15	12	119,60 €	140,06 €
SH1.5-80	ZSH1.5-80	80	126,00	129,00	40	40	15	12	130,91 €	155,00 €
SH1.5-90	ZSH1.5-90	90	141,75	144,75	40	40	15	12	150,75 €	206,70 €
SH1.5-100	ZSH1.5-100	100	157,50	160,50	40	50	15	15	181,58 €	265,47 €
SH1.5-110	-	110	173,25	176,25	40	-	15	-	208,95 €	-
SH1.5-115	-	115	181,13	184,13	40	-	15	-	232,85 €	-
SH1.5-120	-	120	189,00	192,00	40	-	15	-	260,11 €	-
↓	↓	**Gears available up to this size**								
SH1.5-280	**ZSH1.5-280**	**280**	**dimensions: contact us**							

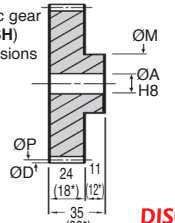
Dimensions in mm

Parallel axis helical gear

Steel or machined Delrin

Module 2.0

- ***Gears are in permanent contact***
- ***Reduced noise***
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or Delrin plastic*



Info.

Important: *a right handed gear only meshes with a left handed gear.*

Torque and power indication For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**33.89**	*134.0*	*16.94*	*8.0*
kW	**3.56**	*14.0*	*1.78*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss SH	ØM Boss ZSH	ØA Bore SH	ØA Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH2-10	ZSH2-10	10	21,00	25,00	25	24	12	10	45,54 €	22,80 €
SH2-15	ZSH2-15	15	31,50	35,50	25	25	15	12	53,71 €	29,71 €
SH2-18	ZSH2-18	18	37,80	41,80	30	30	15	12	59,13 €	32,76 €
SH2-20	ZSH2-20	20	42,00	46,00	30	30	15	12	61,86 €	38,95 €
SH2-22	ZSH2-22	22	46,20	50,20	35	30	15	12	64,68 €	40,76 €
SH2-24	ZSH2-24	24	50,40	54,40	35	30	15	12	67,52 €	51,06 €
SH2-25	ZSH2-25	25	52,50	56,50	35	30	15	12	71,19 €	53,77 €
SH2-30	ZSH2-30	30	63,00	67,00	40	30	20	12	81,28 €	69,71 €
SH2-32	ZSH2-32	32	67,20	71,20	40	30	20	12	88,30 €	75,70 €
SH2-35	ZSH2-35	35	73,50	77,50	50	30	20	12	97,58 €	88,51 €
SH2-40	ZSH2-40	40	84,00	88,00	50	35	20	12	111,48 €	101,24 €
SH2-45	ZSH2-45	45	94,50	98,50	50	35	20	15	120,04 €	121,09 €
SH2-48	ZSH2-48	48	100,80	104,80	50	35	20	15	129,24 €	143,52 €
SH2-50	ZSH2-50	50	105,00	109,00	50	35	20	15	138,27 €	153,52 €
SH2-55	ZSH2-55	55	115,50	119,50	50	35	20	15	161,99 €	179,79 €
SH2-56	ZSH2-56	56	117,60	121,60	50	35	20	15	165,45 €	200,39 €
SH2-60	ZSH2-60	60	126,00	130,00	50	35	20	15	176,18 €	213,87 €
SH2-65	ZSH2-65	65	136,50	140,50	50	40	20	15	193,61 €	254,04 €
SH2-70	ZSH2-70	70	147,00	151,00	50	40	20	15	204,89 €	268,84 €
SH2-75	ZSH2-75	75	157,50	161,50	50	50	20	15	253,49 €	385,05 €
SH2-80	-	80	168,00	172,00	50	-	20	-	307,02 €	-
SH2-90	-	90	189,00	193,00	50	-	20	-	366,51 €	-
SH2-100	-	100	210,00	214,00	50	-	20	-	455,60 €	-
SH2-110	-	110	231,00	235,00	50	-	20	-	504,98 €	-
SH2-120	-	120	252,00	256,00	50	-	20	-	586,78 €	-
↓	↓	**Gears available up to this size**								
SH2-280	**ZSH2-280**	**280**		**dimensions: contact us**						

Dimensions in mm

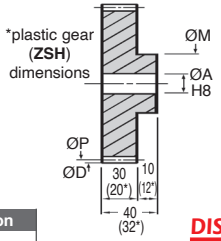
Module 2.5

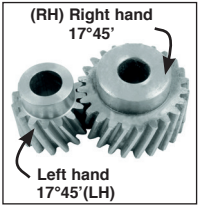
Steel or machined Delrin

- **Gears are in permanent contact**
- **Reduced noise**
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *a right handed gear only meshes with a left handed gear.*





Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**66.17**	*261.7*	*33.0*	*12.0*
kW	**6.94**	*27.4*	*3.5*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	ØP	ØD	ØM Boss		ØA Bore		Price each 1 to 5	
Steel	Plastic	Teeth	PCD	External	SH	ZSH	SH	ZSH	SH	ZSH
SH2.5-10	ZSH2.5-10	10	26,25	31,25	30	30	12	10	62,71 €	34,96 €
SH2.5-15	ZSH2.5-15	15	39,38	44,38	30	30	15	12	71,28 €	42,33 €
SH2.5-20	ZSH2.5-20	20	52,50	57,50	40	30	20	12	84,90 €	64,22 €
SH2.5-22	ZSH2.5-22	22	57,75	62,75	40	30	20	12	90,06 €	77,11 €
SH2.5-25	ZSH2.5-25	25	65,63	70,63	40	30	20	12	100,18 €	85,87 €
SH2.5-26	ZSH2.5-26	26	68,25	73,25	45	30	20	12	105,27 €	90,26 €
SH2.5-30	ZSH2.5-30	30	78,75	83,75	45	45	20	15	117,84 €	107,06 €
SH2.5-35	ZSH2.5-35	35	91,88	96,88	45	45	20	15	132,43 €	133,68 €
SH2.5-36	ZSH2.5-36	36	94,50	99,50	45	45	20	17	139,59 €	140,79 €
SH2.5-40	ZSH2.5-40	40	105,00	110,00	50	45	20	17	151,29 €	152,62 €
SH2.5-45	ZSH2.5-45	45	118,13	123,13	50	45	20	17	162,93 €	180,77 €
SH2.5-46	ZSH2.5-46	46	120,75	125,75	50	45	20	17	166,65 €	185,01 €
SH2.5-50	ZSH2.5-50	50	131,25	136,25	50	45	20	17	184,15 €	204,36 €
SH2.5-53	ZSH2.5-53	53	139,13	144,13	50	45	20	17	190,07 €	230,27 €
SH2.5-55	ZSH2.5-55	55	144,38	149,38	50	45	20	17	210,82 €	254,87 €
SH2.5-57	ZSH2.5-57	57	149,63	154,63	50	60	20	20	218,43 €	264,48 €
SH2.5-60	ZSH2.5-60	60	157,50	162,50	50	60	20	20	228,58 €	340,28 €
SH2.5-65	ZSH2.5-65	65	170,63	175,63	50	60	20	20	313,08 €	453,10 €
SH2.5-70	ZSH2.5-70	70	183,75	188,75	50	60	20	20	381,26 €	532,02 €
SH2.5-75	ZSH2.5-75	75	196,88	201,88	50	60	20	20	480,17 €	1 006,20 €
SH2.5-80	-	80	210,00	215,00	50	-	20	-	515,79 €	-
SH2.5-90	-	90	236,25	241,25	50	-	20	-	574,99 €	-
SH2.5-100	-	100	262,50	267,50	50	-	20	-	734,55 €	-
SH2.5-110	-	110	288,75	293,75	50	-	20	-	845,69 €	-
↓	↓	**Gears available up to this size**								
SH2.5-220	**ZSH2.5-220**	**220**	**Dimensions: contact us**							

Dimensions in mm

Parallel axis helical gear

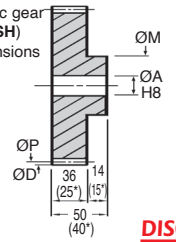
Steel or machined Delrin

Module 3.0

- **Gears are in permanent contact**
- **Reduced noise**
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *a right handed gear only meshes with a left handed gear.*



Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Brass*	*Delrin*
Nm	**114.2**	*451.9*	*57.12*	*20.00*
kW	**11.9**	*47.4*	*5.98*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Plastic	Z Teeth	ØP PCD	ØD External	ØM Boss SH	ØM Boss ZSH	ØA Bore SH	ØA Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH3-10	ZSH3-10	10	31,50	37,50	30	36	15	12	77,56 €	42,90 €
SH3-15	ZSH3-15	15	47,25	53,25	30	40	20	15	86,29 €	54,24 €
SH3-18	ZSH3-18	18	56,70	62,70	40	40	20	15	101,94 €	77,05 €
SH3-20	ZSH3-20	20	63,00	69,00	50	40	25	15	109,03 €	93,59 €
SH3-22	ZSH3-22	22	69,30	75,30	50	40	25	15	116,68 €	100,09 €
SH3-25	ZSH3-25	25	78,75	84,75	50	40	25	15	131,17 €	119,09 €
SH3-27	ZSH3-27	27	85,05	91,05	50	50	25	20	141,93 €	128,80 €
SH3-30	ZSH3-30	30	94,50	100,50	50	50	25	20	157,38 €	158,74 €
SH3-35	ZSH3-35	35	110,25	116,25	60	50	25	20	195,53 €	217,11 €
SH3-40	ZSH3-40	40	126,00	132,00	60	50	25	20	215,88 €	261,41 €
SH3-45	ZSH3-45	45	141,75	147,75	60	60	25	20	318,99 €	387,31 €
SH3-50	ZSH3-50	50	157,50	163,50	60	60	25	20	353,16 €	532,17 €
SH3-54	ZSH3-54	54	170,10	176,10	60	70	25	20	402,67 €	611,41 €
SH3-55	ZSH3-55	55	173,25	179,25	60	70	25	20	421,81 €	618,38 €
SH3-60	ZSH3-60	60	189,00	195,00	60	70	25	20	467,57 €	709,88 €
SH3-61	-	61	192,15	198,15	60	-	25	-	480,30 €	-
SH3-62	-	62	195,30	201,30	60	-	25	-	492,92 €	-
SH3-65	-	65	204,75	210,75	60	-	25	-	520,13 €	-
SH3-70	-	70	220,50	226,50	60	-	25	-	601,61 €	-
SH3-75	-	75	236,25	242,25	60	-	25	-	668,85 €	-
SH3-80	-	80	252,00	258,00	60	-	25	-	746,31 €	-
SH3-90	-	90	283,50	289,50	60	-	25	-	982,19 €	-
SH3-92	-	92	289,80	295,80	60	-	25	-	1 012,80 €	-
SH3-95	-	95	299,25	305,25	60	-	25	-	1 122,78 €	-
↓	↓	**Gears available up to this size**								
SH3-180	**ZSH3-180**	**180**		**Dimensions: contact us**						

Dimensions in mm

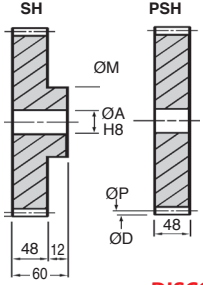
Module 4.0

Steel

- **Gears are in permanent contact**
- **Reduced noise**
- Pressure angle 20°
- Material: Steel 20NCD2

Info.

Important: *a right handed gear only meshes with a left handed gear.*



Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*brass*
Nm	**338**	*1340*	*169*
kW	**35**	*140*	*17*

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Bore	Price each 1 to 5 SH	PSH
SH4-10	10	42,00	50,00	40	20	106,52 €	On request
SH4-12	12	50,40	58,40	40	20	106,52 €	
SH4-14	14	58,80	66,80	40	20	123,04 €	
SH4-15	15	63,00	71,00	40	25	139,59 €	
SH4-18	18	75,60	83,60	50	25	171,36 €	
SH4-20	20	84,00	92,00	50	25	184,15 €	
SH4-24	24	100,80	108,80	50	25	211,25 €	
SH4-25	25	105,00	113,00	80	30	219,60 €	
SH4-28	28	117,60	125,60	80	30	247,71 €	
SH4-30	30	126,00	134,00	80	30	265,89 €	
SH4-34	34	142,80	150,80	80	30	342,92 €	
SH4-35	35	147,00	155,00	80	30	368,40 €	
SH4-36	36	151,20	159,20	80	30	393,75 €	
SH4-40	40	168,00	176,00	80	30	464,35 €	
SH4-45	45	189,00	197,00	80	30	550,20 €	
SH4-46	46	193,20	201,20	80	30	556,56 €	
SH4-50	50	210,00	218,00	80	30	594,69 €	
SH4-55	55	231,00	239,00	80	30	724,77 €	
SH4-56	56	235,20	243,20	80	30	767,43 €	
SH4-60	60	252,00	260,00	80	30	848,70 €	
SH4-65	65	273,00	281,00	80	30	1 123,72 €	
SH4-68	68	285,60	293,60	80	30	1 239,05 €	
SH4-70	70	294,00	302,00	80	30	1 298,08 €	
SH4-72	72	302,40	310,40	80	30	1 405,54 €	
↓	↓	**Gears available up to this size**					
SH4-135	**135**	**Dimensions: contact us**					

Dimensions in mm

90° crossed axis helical gear

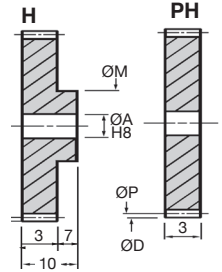
Steel

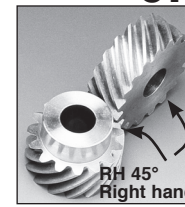
Module 0.4

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2

Info.

Important: *A helical gear with a 45°RH angle meshes with a second identically angled gear*





Torque and power indication		
For 50 teeth at 1000 rpm		
	20NCD2 Z10CNF18.09	*20NCD2 hardened*
Nm	**0,056**	*0,375*
kW	**0,006**	*0,039*

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Bore	Price each 1 to 5 H	PH
H0.4-20	20	11,31	12,11	8,00	3	25,13 €	On request
H0.4-25	25	14,14	14,94	8,00	3	25,79 €	
H0.4-26	26	14,71	15,51	8,00	3	25,96 €	
H0.4-30	30	16,97	17,77	12,00	3	27,01 €	
H0.4-35	35	19,80	20,60	12,00	3	28,26 €	
H0.4-36	36	20,36	21,16	12,00	3	28,44 €	
H0.4-40	40	22,63	23,43	12,00	4	29,57 €	
H0.4-46	46	26,02	26,82	12,00	4	32,01 €	
H0.4-50	50	28,28	29,08	12,00	4	32,39 €	
H0.4-55	55	31,11	31,91	12,00	4	32,85 €	
H0.4-56	56	31,68	32,48	12,00	4	32,85 €	
H0.4-60	60	33,94	34,74	12,00	4	33,66 €	
H0.4-65	65	36,77	37,57	12,00	4	35,36 €	
H0.4-68	68	38,47	39,27	12,00	4	35,93 €	
H0.4-70	70	39,60	40,40	12,00	4	36,70 €	
H0.4-75	75	42,43	43,23	12,00	4	38,45 €	
H0.4-80	80	45,25	46,05	12,00	5	38,72 €	
H0.4-86	86	48,65	49,45	12,00	5	40,16 €	
H0.4-90	90	50,91	51,71	12,00	5	45,40 €	
H0.4-100	100	56,57	57,37	12,00	5	49,45 €	
H0.4-120	120	67,88	68,68	12,00	5	57,80 €	
↓	**Gears available up to this size**						
H0.4-246	**246**	**Dimensions: contact us**					

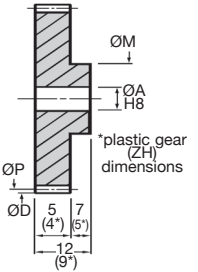
Dimensions in mm

Module 0,5

Steel or machined Delrin

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	delrin
Nm	**0,127**	0,705	0,03
kW	**0,011**	0,074	-

- ***Power transferred through 90°***
- *Teeth are angled at 45° to the right (RH)*
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or delrin plastic*



Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear*

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

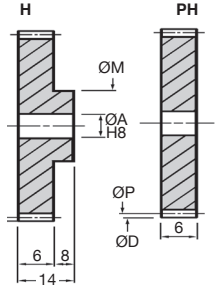
Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM H	Boss ZH	ØA H	Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H0.5-14	ZH0.5-14	14	9,90	10,90	8,50	10	4	3	28,44 €	On request
H0.5-15	ZH0.5-15	15	10,61	11,61	8,50	10	4	3	29,03 €	
H0.5-20	ZH0.5-20	20	14,14	15,14	10,00	10	5	3	31,31 €	
H0.5-25	ZH0.5-25	25	17,68	18,68	10,00	14	5	4	33,66 €	
H0.5-26	ZH0.5-26	26	18,38	19,38	10,00	14	5	4	34,03 €	
H0.5-30	ZH0.5-30	30	21,21	22,21	10,00	14	5	4	36,07 €	
H0.5-35	ZH0.5-35	35	24,75	25,75	10,00	14	5	4	38,72 €	
H0.5-36	ZH0.5-36	36	25,46	26,46	10,00	14	5	4	38,94 €	
H0.5-40	ZH0.5-40	40	28,28	29,28	10,00	14	5	4	40,52 €	
H0.5-46	ZH0.5-46	46	35,53	33,53	10,00	16	5	4	42,94 €	
H0.5-50	ZH0.5-50	50	35,36	36,36	12,00	16	6	5	43,93 €	
H0.5-56	ZH0.5-56	56	39,60	40,60	12,00	16	6	5	45,18 €	
H0.5-60	ZH0.5-60	60	42,43	43,43	12,00	16	6	5	46,13 €	
H0.5-64	ZH0.5-64	64	45,25	46,25	12,00	16	6	5	47,45 €	
H0.5-70	ZH0.5-70	70	49,50	50,50	12,00	16	6	5	47,60 €	
H0.5-75	ZH0.5-75	75	53,03	54,03	12,00	16	6	5	57,64 €	
H0.5-80	ZH0.5-80	80	56,57	57,57	12,00	16	6	5	57,64 €	
H0.5-90	ZH0.5-90	90	63,64	64,64	12,00	18	6	6	68,90 €	
H0.5-100	ZH0.5-100	100	70,71	71,71	16,00	18	6	6	76,14 €	
H0.5-120	ZH0.5-120	120	84,85	85,85	20,00	18	8	8	84,73 €	
H0.5-140	-	140	98,99	99,99	20,00	-	8	-	92,55 €	
H0.5-150	-	150	106,07	107,07	20,00	-	10	-	100,90 €	
H0.5-180	-	180	127,26	128,28	20,00	-	10	-	113,14 €	
↓	↓	**Gears available up to this size**								
H0.5-196	**ZH0.5-196**	**196**	**Dimensions: contact us**							

Dimensions in mm

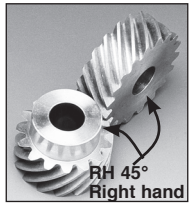
Steel

Module 0,7

Torque and power indication		
For 50 teeth at 1000 rpm		
	20NCD2 Z10CNF18.09	20NCD2 hardened
Nm	0,272	1,791
kW	0,028	0,188



- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2



Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear*

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Bore	Price each 1 to 5 H	PH
H0.7-9	9	8,91	10,31	10,31	4	29,70 €	On request
H0.7-10	10	9,90	11,30	11,30	4	31,01 €	
H0.7-15	15	14,85	16,25	12,00	5	34,92 €	
H0.7-16	16	15,84	17,24	12,00	5	35,32 €	
H0.7-18	18	17,82	19,22	12,00	5	36,32 €	
H0.7-20	20	19,80	21,20	12,00	5	37,09 €	
H0.7-25	25	24,75	26,15	12,00	5	37,83 €	
H0.7-26	26	25,74	27,14	12,00	5	37,90 €	
H0.7-30	30	29,70	31,10	16,00	6	38,49 €	
H0.7-35	35	34,65	36,05	16,00	6	39,54 €	
H0.7-36	36	35,64	37,04	16,00	6	39,65 €	
H0.7-40	40	39,60	41,00	16,00	6	40,63 €	
H0.7-46	46	45,54	46,94	16,00	6	42,42 €	
H0.7-50	50	49,50	50,90	16,00	6	44,41 €	
H0.7-55	55	54,45	55,85	16,00	6	45,95 €	
H0.7-56	56	55,44	56,84	16,00	6	45,95 €	
H0.7-60	60	59,40	60,80	16,00	6	48,92 €	
H0.7-66	66	65,34	66,74	16,00	6	58,04 €	
H0.7-70	70	69,30	70,70	20,00	8	61,53 €	
H0.7-75	75	74,25	75,65	20,00	8	70,07 €	
H0.7-80	80	79,20	80,60	20,00	8	84,14 €	
H0.7-90	90	89,10	90,50	20,00	8	88,01 €	
H0.7-100	100	98,99	100,39	20,00	10	103,96 €	
H0.7-120	120	118,97	120,19	20,00	10	119,68 €	
↓	Gears available up to this size						
H0.7-140	**140**	**138,59**	**139,99**	**30,00**	**12**		

Dimensions in mm

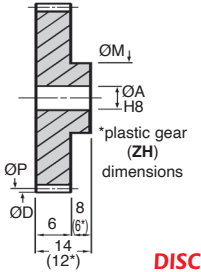
Module 0.8

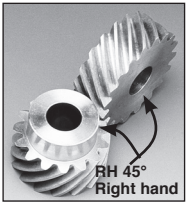
Steel or machined Delrin

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*





Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Delrin*
Nm	**0.395**	*2.596*	*0.10*
kW	**0.041**	*0.272*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H0.8-9	-	9	11,31	12,91	9	-	5	-	29,70 €	-
H0.8-10	-	10	11,31	12,91	9	-	5	-	31,01 €	-
H0.8-15	ZH0.8-15	15	16,97	18,57	12	14	5	4	34,92 €	17,15 €
H0.8-16	ZH0.8-16	16	18,10	19,70	12	14	5	4	35,32 €	17,15 €
H0.8-20	ZH0.8-20	20	22,63	24,23	12	14	5	4	37,08 €	17,94 €
H0.8-25	ZH0.8-25	25	28,28	29,88	16	16	6	5	37,83 €	18,80 €
H0.8-26	ZH0.8-26	26	29,42	31,02	16	16	6	5	37,90 €	18,80 €
H0.8-30	ZH0.8-30	30	33,94	35,44	16	16	6	5	38,49 €	21,15 €
H0.8-35	ZH0.8-35	35	39,60	41,20	16	16	6	5	39,23 €	21,56 €
H0.8-36	ZH0.8-36	36	40,73	42,33	16	16	6	5	39,53 €	21,73 €
H0.8-40	ZH0.8-40	40	45,25	46,85	16	16	6	5	40,52 €	25,13 €
H0.8-45	ZH0.8-45	45	50,91	52,51	16	16	6	5	41,71 €	31,15 €
H0.8-50	ZH0.8-50	50	56,57	58,17	16	16	6	5	44,96 €	31,81 €
H0.8-56	ZH0.8-56	56	63,36	64,96	16	16	6	5	49,33 €	38,72 €
H0.8-60	ZH0.8-60	60	67,88	69,48	20	18	8	6	51,18 €	39,25 €
H0.8-66	ZH0.8-66	66	74,67	76,27	20	18	8	6	55,04 €	41,49 €
H0.8-70	ZH0.8-70	70	79,20	80,80	20	18	8	8	57,53 €	46,15 €
H0.8-76	ZH0.8-76	76	75,24	76,64	20	18	8	8	61,53 €	65,15 €
H0.8-80	ZH0.8-80	80	90,51	92,11	20	18	8	8	70,07 €	71,67 €
H0.8-86	ZH0.8-86	86	97,30	98,90	20	18	8	6	84,14 €	55,93 €
H0.8-90	ZH0.8-90	90	101,82	103,42	20	20	10	10	86,82 €	95,25 €
H0.8-100	ZH0.8-100	100	113,14	114,74	20	20	10	10	106,07 €	95,25 €
H0.8-112	-	112	126,71	128,31	30	-	12	-	134,75 €	-
H0.8-120	-	120	135,76	137,36	30	-	12	-	134,75 €	-
↓	↓	**Gears available up to this size**								
H0.8-122	**ZH0.8-122**	**122**		**Dimensions: contact us**						

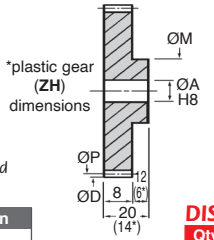
Dimensions in mm

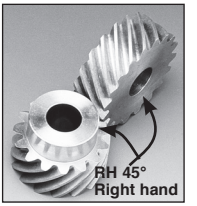
90° crossed axis helical gear

Steel or machined Delrin

Module 1.0

- ***Power transferred through 90°***
- *Teeth are angled at 45° to the right (RH)*
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or Delrin plastic*





Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Delrin*
Nm	**0.747**	*4.908*	*0.18*
kW	**0.078**	*0.518*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number		Z	ØP	ØD	ØM Boss		ØA Bore		Price each 1 to 5	
Steel	Delrin	Teeth	PCD	External	H	ZH	H	ZH	H	ZH
H1-9	ZH1-9	9	14,14	16,14	11	12	6	4	138,48 €	13,14 €
H1-10	ZH1-10	10	14,14	16,14	11	12	6	4	27,17 €	13,53 €
H1-15	ZH1-15	15	21,21	23,21	15	18	6	6	30,67 €	15,37 €
H1-16	ZH1-16	16	22,63	24,63	15	18	6	6	30,87 €	15,37 €
H1-20	ZH1-20	20	28,28	30,28	15	18	6	6	35,87 €	19,71 €
H1-25	ZH1-25	25	35,36	37,36	20	18	8	6	39,10 €	21,56 €
H1-26	ZH1-26	26	36,77	38,77	20	18	8	6	39,59 €	21,80 €
H1-30	ZH1-30	30	42,43	44,43	20	18	8	6	42,25 €	26,64 €
H1-35	ZH1-35	35	49,50	51,50	20	18	8	6	47,45 €	35,78 €
H1-36	ZH1-36	36	50,91	52,91	20	22	8	8	48,08 €	36,21 €
H1-40	ZH1-40	40	56,57	58,57	20	22	8	8	51,76 €	39,13 €
H1-46	ZH1-46	46	65,05	67,05	20	22	8	8	60,56 €	51,93 €
H1-50	ZH1-50	50	70,71	72,71	25	22	10	8	65,03 €	55,77 €
H1-56	ZH1-56	56	79,20	81,20	25	22	10	8	71,93 €	65,23 €
H1-60	ZH1-60	60	84,85	86,85	25	22	10	8	74,57 €	67,68 €
H1-66	ZH1-66	66	93,34	95,34	25	26	10	8	85,09 €	85,87 €
H1-70	ZH1-70	70	98,99	100,99	25	26	10	10	86,29 €	95,91 €
H1-76	ZH1-76	76	107,48	109,45	25	26	10	10	107,93 €	105,84 €
H1-80	ZH1-80	80	113,14	115,14	25	26	10	10	122,04 €	130,30 €
H1-84	ZH1-84	84	118,79	120,79	25	26	10	12	122,04 €	130,30 €
H1-90	ZH1-90	90	127,28	129,28	30	30	12	12	138,48 €	130,30 €
H1-100	ZH1-100	100	141,42	143,42	30	30	12	12	162,46 €	190,57 €
H1-120	-	120	169,71	171,71	40	-	15	-	186,39 €	-
H1-130	-	130	183,85	185,85	50	-	20	-	204,39 €	-
H1-150	-	150	212,13	214,13	50	-	20	-	234,53 €	-
↓	↓	**Gears available up to this size**								
H1-420	**ZH1-420**	**420**		**Dimensions: contact us**						

Dimensions in mm

90° crossed axis helical gear

Del Ste 90°

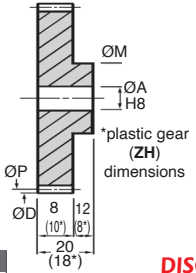
Module 1.25

Steel or machined Delrin

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*



Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	20NCD2 hardened	Delrin
Nm	**1.386**	*9.108*	*0.4*
kW	**0.145**	*0.954*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H1.25-10	ZH1.25-10	10	17,68	20,18	15	15	6	5	36,19 €	18,10 €
H1.25-16	ZH1.25-16	16	28,28	30,78	20	18	8	6	42,90 €	23,71 €
H1.25-17	ZH1.25-17	17	30,05	32,55	20	18	8	6	44,59 €	24,55 €
H1.25-20	ZH1.25-20	20	35,36	37,86	20	18	8	9	49,41 €	27,25 €
H1.25-22	ZH1.25-22	22	38,89	41,39	20	18	8	9	53,16 €	33,41 €
H1.25-25	ZH1.25-25	25	44,19	46,69	20	18	8	9	57,12 €	45,92 €
H1.25-28	ZH1.25-28	28	49,50	52,00	20	22	8	8	59,13 €	44,67 €
H1.25-30	ZH1.25-30	30	53,03	55,53	20	22	8	8	60,06 €	45,36 €
H1.25-32	ZH1.25-32	32	56,57	59,07	20	22	8	8	60,72 €	45,92 €
H1.25-33	ZH1.25-33	33	58,34	60,84	20	22	8	8	61,10 €	52,42 €
H1.25-36	ZH1.25-36	36	63,64	66,14	20	22	8	8	63,79 €	54,71 €
H1.25-40	ZH1.25-40	40	70,71	73,21	25	26	10	10	71,99 €	61,63 €
H1.25-45	ZH1.25-45	45	79,55	82,05	25	26	10	10	79,66 €	72,25 €
H1.25-50	ZH1.25-50	50	88,39	90,89	25	26	10	10	85,75 €	86,59 €
H1.25-56	ZH1.25-56	56	98,99	101,49	25	26	10	10	97,29 €	109,02 €
H1.25-60	ZH1.25-60	60	106,07	108,57	25	30	10	10	107,86 €	120,13 €
H1.25-66	ZH1.25-66	66	116,67	119,17	25	30	10	10	131,07 €	154,27 €
H1.25-70	ZH1.25-70	70	123,74	126,24	25	30	12	10	136,61 €	156,37 €
H1.25-76	-	76	134,35	136,85	25	-	12	-	148,53 €	-
H1.25-80	-	80	141,42	143,92	25	-	12	-	153,08 €	-
H1.25-84	ZH1.25-84	84	148,49	150,99	30	30	15	15	161,86 €	228,73 €
H1.25-90	ZH1.25-90	90	159,10	161,60	30	30	15	15	168,59 €	277,59 €
H1.25-96	-	96	169,71	172,21	30	-	15	-	181,41 €	-
↓	↓	Gears available up to this size								
H1.25-100		**100**	**176,78**	**179,28**	**30**	**-**	**15**	**-**		

Dimensions in mm

90° crossed axis helical gear

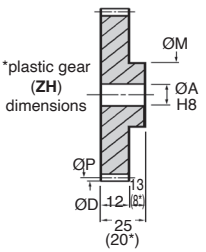
Steel or machined Delrin

Module 1.5

- ***Power transferred through 90°***
- *Teeth are angled at 45° to the right (RH)*
- *Pressure angle 20°*
- *Material: Steel 20NCD2 or Delrin plastic*

Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*



Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Delrin*
Nm	**2.32**	*15.28*	*0.7*
kW	**0.24**	*1.60*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H1.5-10	ZH1.5-10	10	21,21	24,21	17	20	8	8	34,52 €	17,26 €
H1.5-14	ZH1.5-14	14	29,70	32,70	20	25	10	8	40,99 €	22,67 €
H1.5-15	ZH1.5-15	15	31,82	34,82	20	25	10	8	42,43 €	23,02 €
H1.5-16	ZH1.5-16	16	33,94	36,94	25	25	12	8	43,56 €	23,51 €
H1.5-20	ZH1.5-20	20	42,43	45,43	30	25	15	8	51,06 €	32,23 €
H1.5-22	ZH1.5-22	22	46,67	49,67	30	28	15	10	54,41 €	34,27 €
H1.5-25	ZH1.5-25	25	53,03	56,03	40	28	15	10	58,88 €	44,42 €
H1.5-26	ZH1.5-26	26	55,15	58,15	40	28	15	10	60,17 €	45,54 €
H1.5-28	ZH1.5-28	28	59,40	62,40	40	30	15	12	64,10 €	48,48 €
H1.5-30	ZH1.5-30	30	63,64	66,64	40	30	15	12	64,24 €	55,07 €
H1.5-32	ZH1.5-32	32	67,88	70,88	40	30	15	12	67,06 €	57,39 €
H1.5-35	ZH1.5-35	35	74,25	77,25	40	30	15	12	78,33 €	67,14 €
H1.5-36	ZH1.5-36	36	76,37	79,37	40	36	15	12	80,71 €	73,17 €
H1.5-40	ZH1.5-40	40	84,85	87,85	40	36	15	12	85,79 €	77,97 €
H1.5-46	ZH1.5-46	46	97,58	100,58	40	36	15	12	95,52 €	105,95 €
H1.5-50	ZH1.5-50	50	106,07	109,07	40	48	15	12	103,96 €	115,41 €
H1.5-56	ZH1.5-56	56	118,79	121,79	40	48	15	12	124,63 €	151,15 €
H1.5-60	ZH1.5-60	60	127,28	130,28	40	48	15	12	141,76 €	162,19 €
H1.5-65	ZH1.5-65	65	137,89	140,89	40	48	15	12	156,78 €	201,27 €
H1.5-70	ZH1.5-70	70	148,49	151,49	40	48	15	15	182,01 €	227,69 €
H1.5-80	-	80	169,71	172,71	40	-	15	-	230,54 €	-
↓	↓	**Gears available up to this size**								
H1.5-83	**ZH1.5-83**	**83**	**Dimensions: contact us**							

Dimensions in mm

90° crossed axis helical gear Del Ste 90°

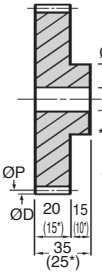
Module 2.0

Steel or machined Delrin

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*



Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Delrin*
Nm	**5.20**	*34.18*	*1.5*
kW	**0.54**	*3.58*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H2-10	ZH2-10	10	28,28	32,28	22	25	12	12	51,15 €	28,26 €
H2-15	ZH2-15	15	42,43	46,43	30	30	15	12	61,53 €	46,54 €
H2-16	ZH2-16	16	45,25	49,25	30	30	15	12	62,78 €	47,45 €
H2-20	ZH2-20	20	56,57	59,57	40	35	20	12	73,92 €	63,41 €
H2-25	ZH2-25	25	70,71	74,71	50	35	20	12	98,08 €	89,02 €
H2-26	ZH2-26	26	73,54	77,54	50	45	20	15	99,30 €	90,30 €
H2-30	ZH2-30	30	84,85	88,85	50	45	20	15	110,82 €	111,92 €
H2-35	ZH2-35	35	98,99	102,99	50	45	20	15	131,70 €	146,57 €
H2-36	ZH2-36	36	101,82	105,82	50	45	20	15	134,29 €	149,60 €
H2-40	ZH2-40	40	113,14	117,14	50	45	20	15	160,69 €	178,75 €
H2-45	ZH2-45	45	127,28	131,28	50	60	20	15	184,40 €	223,96 €
H2-46	ZH2-46	46	130,11	134,11	50	60	20	15	187,50 €	227,69 €
H2-50	ZH2-50	50	141,42	145,42	50	60	20	15	205,94 €	295,45 €
H2-55	ZH2-55	55	155,56	159,56	50	60	20	15	266,42 €	358,57 €
H2-60	ZH2-60	60	169,71	173,71	50	60	20	15	314,48 €	416,69 €
H2-65	ZH2-65	65	183,85	187,85	50	60	20	15	373,64 €	491,74 €
H2-70	ZH2-70	70	197,99	201,99	50	60	20	15	433,99 €	820,84 €
H2-76	-	76	214,96	218,96	50	-	20	-	480,89 €	-
H2-86	-	86	243,24	247,24	50	-	20	-	595,53 €	-
H2-90	-	90	254,56	258,56	50	-	20	-	703,92 €	-
H2-96	-	96	271,53	275,53	50	-	20	-	776,55 €	-
H2-100	-	100	282,84	286,84	50	-	20	-	864,34 €	-
H2-110	-	110	311,13	315,13	50	-	20	-	972,39 €	-
H2-120	-	120	339,41	343,41	50	-	20	-	1 058,53 €	-
↓	↓	**Gears available up to this size**								
H2-210	**ZH2-210**	**210**	**Dimensions: contact us**							

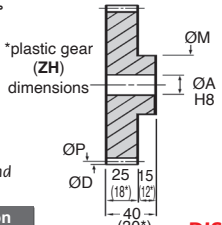
Dimensions in mm

90° crossed axis helical gear

Steel or machined Delrin

Module 2.5

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or delrin plastic



Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*

Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Delrin*
Nm	**9.71**	*63.84*	*3.0*
kW	**1.02**	*6.69*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H2.5-10	ZH2.5-10	10	35,36	40,36	28	30	15	12	67,95 €	37,58 €
H2.5-12	ZH2.5-12	12	42,43	47,43	30	30	15	12	73,40 €	46,15 €
H2.5-15	ZH2.5-15	15	53,03	58,03	40	36	20	12	85,79 €	64,94 €
H2.5-17	ZH2.5-17	17	60,10	65,10	40	45	20	12	95,45 €	81,76 €
H2.5-20	ZH2.5-20	20	70,71	75,71	50	45	20	15	108,53 €	92,99 €
H2.5-22	ZH2.5-22	22	77,78	82,78	50	45	20	15	119,06 €	107,98 €
H2.5-25	ZH2.5-25	25	88,39	93,39	50	50	20	15	132,98 €	120,76 €
H2.5-30	ZH2.5-30	30	106,07	111,07	50	50	20	17	155,26 €	172,63 €
H2.5-32	ZH2.5-32	32	113,14	118,14	50	50	20	17	166,29 €	184,53 €
H2.5-35	ZH2.5-35	35	123,74	128,74	50	65	20	17	179,28 €	217,78 €
H2.5-40	ZH2.5-40	40	141,42	146,42	50	65	20	20	214,19 €	281,01 €
H2.5-42	ZH2.5-42	42	148,49	153,49	50	65	20	20	217,76 €	285,69 €
H2.5-45	ZH2.5-45	45	159,10	164,10	50	65	20	20	278,20 €	416,48 €
H2.5-46	ZH2.5-46	46	162,63	167,63	50	65	20	20	278,20 €	483,94 €
H2.5-50	ZH2.5-50	50	176,78	181,78	50	65	20	20	385,19 €	584,80 €
H2.5-55	ZH2.5-55	55	194,45	199,45	50	65	20	20	482,58 €	601,28 €
H2.5-56	-	56	197,99	202,99	50	-	20	-	491,20 €	-
H2.5-60	-	60	212,13	217,13	50	-	20	-	500,61 €	-
H2.5-66	-	66	233,35	238,35	50	-	20	-	589,48 €	-
H2.5-70	-	70	247,49	252,49	50	-	20	-	699,49 €	-
H2.5-76	-	76	268,70	273,70	50	-	20	-	805,40 €	-
H2.5-80	-	80	282,84	287,84	50	-	20	-	877,30 €	-
H2.5-90	-	90	318,20	323,20	50	-	20	-	1 003,33 €	-
H2.5-96	-	96	339,41	344,41	50	-	20	-	1 068,50 €	-
H2.5-100	-	100	353,55	358,55	50	-	20	-	1 140,43 €	-
↓	↓	**Gears available up to this size**								
H2.5-165	**ZH2.5-165**	**165**	**Dimensions: contact us**							

Dimensions in mm

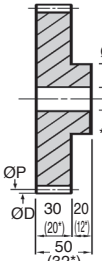
Module 3.0

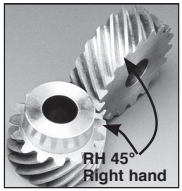
Steel or machined Delrin

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2 or Delrin plastic

Info.

Important: *A helical gear with a 45° RH angle meshes with a second identically angled gear.*





Torque and power indication			
For 50 teeth at 1000 rpm			
	20NCD2 Z10CNF18.09	*20NCD2 hardened*	*Delrin*
Nm	**16.17**	*106.3*	*5.0*
kW	**1.69**	*11.17*	-

DISCOUNTS Steel

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

DISCOUNTS Delrin

Qty	1+	6+	30+
Disc.	List	-22%	On request

Part number Steel	Part number Delrin	Z Teeth	ØP PCD	ØD External	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H3-9	ZH3-9	9	42,43	48,43	34	36	20	15	76,41 €	42,90 €
H3-10	ZH3-10	10	42,43	48,43	34	40	20	15	82,20 €	51,85 €
H3-15	ZH3-15	15	63,64	69,64	50	48	25	15	111,04 €	95,25 €
H3-16	ZH3-16	16	67,88	73,88	50	48	25	15	114,52 €	98,21 €
H3-20	ZH3-20	20	84,85	90,85	60	60	25	20	144,65 €	131,33 €
H3-25	ZH3-25	25	106,07	112,07	60	60	25	20	193,48 €	201,17 €
H3-26	ZH3-26	26	110,31	116,31	60	60	25	20	197,20 €	219,40 €
H3-30	ZH3-30	30	127,28	133,28	60	60	25	20	232,28 €	280,19 €
H3-34	ZH3-34	34	144,25	150,25	60	60	25	20	324,20 €	362,22 €
H3-35	ZH3-35	35	148,49	154,49	60	60	25	20	336,45 €	362,22 €
H3-36	ZH3-36	36	152,74	158,74	60	60	25	20	348,14 €	439,62 €
H3-40	ZH3-40	40	169,71	175,71	60	80	25	20	414,61 €	510,82 €
H3-45	ZH3-45	45	190,92	196,92	60	80	25	20	492,54 €	634,68 €
H3-46	ZH3-46	46	195,16	201,16	60	80	25	20	530,50 €	1 006,20 €
H3-50	ZH3-50	50	212,13	218,13	60	80	25	20	591,40 €	1 006,20 €
H3-55	-	55	233,35	239,35	60	-	25	-	676,34 €	-
H3-56	-	56	237,59	243,59	60	-	25	-	710,76 €	-
H3-60	-	60	254,56	260,56	60	-	25	-	849,39 €	-
H3-65	-	65	275,77	281,77	60	-	25	-	964,50 €	-
H3-68	-	68	288,50	294,50	60	-	25	-	1 011,23 €	-
H3-70	-	70	296,98	302,98	60	-	25	-	1 041,82 €	-
H3-76	-	76	322,44	328,44	60	-	25	-	1 139,16 €	-
H3-80	-	80	339,41	345,41	60	-	25	-	1 231,70 €	-
H3-86	-	86	364,87	370,87	60	-	25	-	1 391,50 €	-
H3-90	-	90	381,84	387,84	60	-	25	-	1 490,39 €	-
↓	↓	**Gears available up to this size**								
H3-140	**ZH3-140**	**140**	**Dimensions: contact us**							

Dimensions in mm

90° crossed axis helical gear

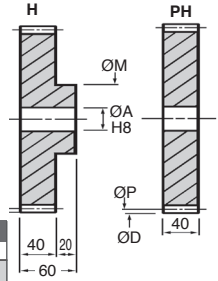
Steel

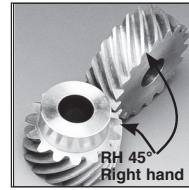
Module 4.0

- **Power transferred through 90°**
- Teeth are angled at 45° to the right (RH)
- Pressure angle 20°
- Material: Steel 20NCD2

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.





Torque and power indication		
For 50 teeth at 1000 rpm		
	20NCD2 Z10CNF18.09	*20NCD2 hardened*
Nm	**36.07**	*237.1*
kW	**3.78**	*24.84*

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	ØP PCD	ØD External	ØM Boss	ØA Bore	Price each 1 to 5 H	PH
H4-10	10	56,57	64,57	45	25	137,89 €	On request
H4-12	12	67,88	75,88	50	25	155,37 €	
H4-15	15	84,85	92,85	50	25	193,48 €	
H4-16	16	90,51	98,51	80	30	197,29 €	
H4-18	18	101,82	109,82	80	30	217,76 €	
H4-20	20	113,14	121,14	80	30	244,25 €	
H4-22	22	124,45	132,45	80	30	285,44 €	
H4-25	25	141,42	149,42	80	30	375,04 €	
H4-26	26	147,08	155,08	80	30	397,63 €	
H4-28	28	158,39	166,39	80	30	440,41 €	
H4-30	30	169,71	177,71	80	30	507,11 €	
H4-32	32	181,02	189,02	80	30	530,04 €	
H4-35	35	197,99	205,99	80	30	566,34 €	
H4-36	36	203,65	211,65	80	30	580,24 €	
H4-38	38	214,96	222,96	80	30	635,64 €	
H4-40	40	226,27	234,27	80	30	747,74 €	
H4-42	42	237,59	245,59	80	30	817,00 €	
H4-45	45	254,56	262,56	80	30	1 026,84 €	
H4-46	46	260,22	268,22	80	30	1 106,62 €	
H4-48	48	271,53	279,53	80	30	1 179,91 €	
H4-50	50	282,84	290,84	80	30	1 306,88 €	
H4-55	55	311,13	319,13	80	30	1 704,44 €	
H4-56	56	316,78	324,78	80	30	1 803,29 €	
H4-58	58	328,10	336,10	80	30	1 976,23 €	
H4-60	60	339,41	347,41	80	30	2 058,49 €	
↓	**Gears available up to this size**						
H4-100	**100**	**Dimensions: contact us**					

Dimensions in mm

Specially manufactured parts

Maximum indicative sizes

Standard parts adapted to your needs

Modifications		Steel	Plastic
Bore-size (mm)	< Ø25	On request	On request
	Ø25 to Ø50	On request	On request
	Ø50	On request	On request
Keyway (mm)	< 8	On request	On request
	8 to 18	On request	On request
	≥ 20	On request	On request
Tapped hole	< M8	On request	On request
	≥ M8 and larger	On request	On request
Pinhole (mm)	< Ø8	On request	On request
	≥ Ø8 and larger	On request	On request

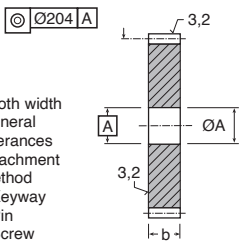
Contact us for a quote

- Ask us about ***different materials*** Steels, stainless, Delrin, nylon, brass, bronze, cast iron, and more...
- Parts can be heat treated on request, prices will depend on process used.

Free guide !

If you require gears manufactured to a drawing

Gear characteristics	
Module	
Pressure angle	
Number of teeth	
Helical angle	
Pitch diameter	
Precision class	9
Center distance	
Gear	Drawing n°
Material	
Other information	



- Tooth width
- General tolerances
- Attachment method
  - Keyway
  - Pin
  - Screw

Maximum sizes of made to measure parts

Types		Module / Pitch	Max sizes (mm)
Spur gear		Module 0.4 to module 8	Ø600
Helical gears			
Internal gears		Module 0.4 to module 4	External Ø
Worms		Module 0.4 to module 4	Length 300
		de Ø10 x length 10mm	
		à Ø60 x length 500mm	
Worm wheels		Module 0.4 to module 4	Ø140
Racks		Module 0.25 to module 8	Length 3000
Bevel gears		Module 0.8 to module 6	Ø300
Pulleys	T	Pitch 2.5mm to 10mm	Ø400
	AT	Pitch 5mm to 10mm	
	HTD	Pitch 3mm to 14mm	
Chain pinions	Simple	Pitch 4mm to 19,05mm	Ø400
	Double		
	Triple		

Only given as an indication
Please contact us for more information.

Through-hardening

Principle:

In general, through-hardening consists of exposing the metal to a cycle of high-temperature heating followed by controlled cooling. Through-hardening is often the first step of a more complex treatment in which the metal will subsequently be tempered. The consequence of this treatment is a notable improvement in the hardness of the steel.

Through-hardening is followed by tempering, a process that consists in heating the hardened metal (at a temperature lower than that used in the through-hardening process itself) in order to remove any tensions that may remain in the metal.

This cycle of through-hardening and tempering can only be carried out on steels that contain sufficient carbon, such as 35NCD6. Gears made of 35NCD6 through-hardened to 45-50 HRc have a good resistance to wear.

Case-hardening

Principle:

Case-hardening involves using an appropriate powder, paste, liquid or gas to enrich the carbon on all the surfaces of a workpiece. This process is immediately followed by quenching oil. These combined treatments improve the surface and core hardness of the metal, which vary according to the type of steel used. An excellent compromise between high resistance to wear and good malleability is thus obtained.

The depth to which the treatment is effective depends on the length of the heat cycle and the type of material used.

34C10 Steel can be case-hardened, but hardened gears made from this soft steel are only suitable for light loads. HPC no longer uses this steel, it has been replaced by 20NCD2.

For heavier loads, through- and case- hardened steel 20NCD2 is recommended.
The good core resistance and surface hardness (57-62 HRc) obtained after treatment allow gears made of through- and case-hardened 20NCD2 to withstand heavy loads and shocks received during use.

The cost of these treatments depends on the number of parts to be treated and their size. ***Please contact us for more information****.*

Processes

This table indicates the various processes that will be used for heat treating gears.

Material	Carbon diffusion	Heating temperature	Cooling method	Hardness obtained	Tempering
Through-hardening					
60C40		830/860°C	Maintain at 210-230°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
XC38		810/840°C	Maintain at 210-230°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
42 CD4		860/890°C	Maintain at 210-230°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 690°C then allow to cool for 1h in open air or in oven
35NCD6		820/850°C	Maintain at 180-200°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
Case-hardening					
20NCD2	Maintain at 900-930°C for 1h: Depth of case-hardening 0.2mm	820/840°C	Maintain at 150-200°C in oil bath 1h/25 mm	57-62 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven

**Do not stock or use at 250-450°C.*
Values are given as a guide only.

Standard and special materials

Standard materials				
Gears	20NCD2 35NCD6 60C40 S/steel	Delrin Brass CuZn40Pb3 Tufnol Z10 CNF 18,09 (303) Z6 CND 17,12 (316)		
Wormwheels	Bronze CuAl10NiFe4	Delrin		Cast iron
Worms	20NCD2	Delrin	Brass	
Chains and sprockets	20NCD2	Delrin	Steel	Stainless steel
Pulleys	Aluminium 6082 20NCD2	Stainless steel Z10CNF 18,09 (303)		
Bevel gears	60 C40	Delrin	Stainless steel Z10 CNF 18,09 (303)	
Racks	C40/C45 S/steel 303/304L	Delrin	Brass	

Special materials		
60 C40	}	Can be through or induction-hardened. Hardness 50-55 HRc
42 CD4		
35 NCD 6	} Very resistant	
35 NCD 14		
100 C6		
20NCD2		Can be case-hardened 57-62 HRc.
Z12 CF 13		Stainless steel can be through-hardened to 35-45 HRc.
30CD12		Nitriding steel
Z10 CNF 18,09		Stainless steel
Aluminium		
Delrin		Maximum working temperature: 140°C
Nylon		Maximum working temperature: 160°C
Bronze CA104		
Brass		

Materials	Properties	Tensile strength N/mm²	Elongation at fracture %	Proof stress 0,2 % N/mm²	Surface stress Sc	Bending stress Sb
Nylon 66		0.62 - 0.82	20% - 200%	-	500	3900
Delrin (polyoxymethylene)		69	60%	-	500	3900
Tufnon	Fine fibres	68	-	-	560	4500
Cast iron	GR17 (260)	260	-	-	1400	9000
Aluminium alloy	HR15N	295		230	500	13000
Aluminium bronze **CuAl10NiFe4**		420 - 720	6% - 8%	140 - 660	900	9000
Phosphor bronze CuSn12		360 - 500	18% - 40% 6.25%	170 - 280	700	7000
34C10		430	18%	-	1400	17000
34C10 Case-hardened	Surface hardness	-	-	-	9200	40000
35NCD6		850 -1550	5% - 13%	635 - 1125	3000	32000
35NCD6	By introduction or through-hardening	-	-	-	5000	26500
20NCD2 Case-hardened	Surface hardness	780 - 1080	10%	-	11000	50000
Z10CNF18 09 S/steel 303		480 - 510	35% - 40%	180 - 200	1800	20000
60C40		510 - 550	16% - 17%	-	1400	19000
60C40	Hardened				2800	17000

When using the above data in any calculations, please note that the data is given as a guide only.
HPC decline responsibility for any unforeseen consequences as many factors are not under our control.

Material hardness

Degree of hardness HRc	Degree of hardness HRb	Degree of hardness Vickers	Degree of hardness Brinnel	N/mm²	Afnor materials		
-20	67	114	114	400	XC18		
-9	74	131	131	460	34C10		
1	83	154	156	560	60 C40	S/steel 303	
10	90	183	182	635			
15	93	199	200	680	XC38	42 CD4	30 CD12
20	97	221	224	760	35NCD 6	20NCD2	
25	101	250	249	850	35NCD 6 pre-treated		
30	105	278	276	955			
35	109	320	323	1110			
40	112	385	370	1270			
45	115	460	427	1453	60 C40 through-hardened		
50	118	535	497	1670	35 NCD 6 through-hardened		42 CD 4 through-hardened
55		639	545	1870	XC38 hrough-hardened		
57		694	576	1940			
60		746	601	2110	20NCD2 case-hardened	34C10 case-hardened	
63		867	652	2220	30 CD 12 nitrided		
65		940	682	2300			
67		1060	725	2400			
70		1170	760	2640			

Properties of Delrin 150 (polyoxymethylene)

Properties	Verification ASTM	Homo-polymer «Delrin»
Density	D 792	1.42g/cm³
Tensile strength At -55°C At +23°C At +70°C At +100°C At +122°C	D 638	 101 N/mm² 69 N/mm² 48 N/mm² 36 N/mm² 26 N/mm²
Elongation at break At -55°C At +23°C At +70°C At +100°C At +122°C	D 638	 0,38% 75% 230% < 260% > 260%
Tensile E modulus	D 638	3100 N/mm²
Shear strength	D 732	66 N/mm²
Flexural modulus At -55°C At +23°C At +70°C At +100°C At +122°C	D 790	 3650 N/mm² 2620 N/mm² 1550 N/mm² 895 N/mm² 620 N/mm²
Flexural fatigue endurance limit	D 671	32 N/mm²
Melting point	D 2133	175°C
Deflection temperature under flexural load 1,8 N/mm² 0,5 N/mm²	D 648	 136°C 172°C
Coefficient of linear thermal expansion From -40°C to +30°C From -30°C to +60°C From +60°C to +105°C From +105°C to +150°C	D 696	 10,4 1x10-5°C 12,2 1x10-5°C 13,7 1x10-5°C 14,9 1x10-5°C
Volume resistivity	D 257	10^{15} ohm.cm
Surface resistivity	D 257	10^{13} ohm.cm
Dissipation factor	D 150	0,05 MHz
Compressive stress At 1% de deformation At 10% de deformation	D 695	 36 N/mm² 124 N/mm²

Properties	Verification ASTM	Homo-polymer «Delrin»
Izod impact strength Unnotched Notched à -40°C Notched à +23°C	D 256	 no break 96 J/m 23 J/m
Tensile impact strength	D 1822	350 kJ/m²
Deformation under load (14Nmm² to 50°C)	D 621	0,5%
Hardness (Rockwell)	D 785	M94 - R120
Water absorption 24H immersion Equilibrium 50%RH Equilibrium continous immersion Coefficient of dynamic	D 570	 0,25% 0,22% 0,90%
Friction against steel - dry Water lubrificated Oil lubrificated Against brass Against aluminium Against polyacetal	D 1894 -61 T	 0,10 - 0,30 0,10 - 0,20 0,05 - 0,10 0,15 0,15 0,35
Flammability	UL 94	HB
Thermal conductivity		0,37W/mK
Specific conductivity		1,47kJ/kgK
Maximum continuous use temperature In air In water		 +90°C +65°C
Maximum intermittent use temperature In air In water		 +150°C +80°C
Minimum continuous use temperature		-40°C
Dielectric strength short-time (2.3mm sheet)	D149	20kV/mm
Dielectric constant	D150	3,7 10^2-10^6Hz

Cross reference for International standards

French AFNOR standards	DIN Symbols	German Werkstöff standards	British standard New	British standard Old	American standard	% Carbon
	9521	1,0711	220M07	En 1 A	1212	0,00/0,15
XC18	C15	1,0401	080M15		1015	0,12/0,18
XC25	C22	1,0402	070M20	EN3 A	1020	0,16/0,24
XC38	C35	1,0501	080A32	EN5 C	1035	0,30/0,35
50C30	C25	1,0406	070M26		1025	
			080M30	EN6		
60C40	C40	1,0511	080M40	EN8	1040	0,36/0,44
55C35	C22	1,0501	080A35 & 37	EN8 A & B	1035	0,33/0,38
XC42H1	CK40	1,1186	080A40	EN8C	1040	0,38/0,43
35MF6	35S20	1,0726	212M36	EN8M	1140	0,32/0,40
XC48	C45	1,0503	080M46	EN8	1045	0,42/0,50
XC38	C55	1,0535	070M55S	EN9	1055	0,52/0,60
32C4	34Cr4	1,7033	530A32	EN18B	5132	0,28/0,33
42CD4	42CrMo4	1,7225	708M40	EN19A	4140, 4142	0,36/0,44
35CD4	34CrMo4	1,7220	708A37	EN19B	4135, 4137	0,35/0,40
35NCD6	34CrNiMo6	1,6582	817M40	EN24	4340	0,36/0,44
35NCD14	32NiCrMo145	1,6746	0826M40	EN26		0,36/0,44
35NCD16	30NiCrMo166	1,6747	835M30	EN30B		0,26/0,34
100C6	100Cr6	1,3505	535A99	EN31	52100	1,20/1,60
			214M15	EN202		
34C10	C10	1,0301	045M10	EN32A	1010	0,07/0,13
	15S20	1,0723	212M15	EN32M		0,12/0,18
12NC15	14NiCr14	1,5752	655M13	EN36A	3415,3310,9314	0,10/0,16
16NCD17		1,6723	835M15	EN39B		0,12/0,18
30CD12	32CrMo12	1,7361	722M24	EN40B		0,20/0,28
XC48H1	CK50	1,1206	080M50	EN43A	1050	0,45/0,55
Z12CF13	X12CrS13	1,4005	416S21	EN56	416 (S/steel)	0,09/0,15
Z10CNF18.09	X10CrNiS189	1,4305	303S21	EN58	303 (S/steel)	
Z6CND17.12	X5CrNiMo17133	1,4436	316S16	EN58J	316 (S/steel)	
20NCD2	21NiCrMo2	1,6523	805M20			0,17/0,23

Materials		WERKSTöFF classification	Elastic limit Re (N/mm²)	Tensile strength Rm (N/mm²)	Elongation Lo = 5do A%	Break lateral contraction Z%	J Resilience
Case-hardening steel	34C10	1.0301	295	490-640	16	45	69
(Ø30mm)	20NCD2	1.6523	590	780-1080	10	40	41
Improved steel	60C40	1.1186	400	630-780	18	35	50
(Ø40mm)	35NCD6	1.6582	900	1100-1300	10	45	50
	C45/S45C	1.0503	370-490	630-780	17	45	-
	C40	1.0511	350-460	600-750	19	45	-

Materials (Values for cross-section of small dimensions)	WERKSTöFF classification	Elastic limit $Rpo_{,2}$ to 0,2% and $Rpo_{,1}$ to 0,1% (N/mm²)	Tensile strength Rm (N/mm²)	Elongation Lo = 5do A%	Break lateral Z%	J resilience
Stainless steel Z10CNF18.09 (303)	1.4305	195-230	500-700	35	60	85
Stainless steel Z2CNF18.10 (304)	1.4306	180-215	460-680	45	60	85
Stainless steel Z6CND17.12 (316)	1.4401	205-240	510-710	40	60	85

Source : la clé des aciers

	AFNOR	Young modulus (MPa)	Tensile strength Rm (N/mm²)	Elongation A50	Brinell hardness Vickers	Shear strength (MPa)
Aluminium	6082	70000	260	19%	75HV	170

	AFNOR	Rm (N/mm²)	Elongation A50
Brass CZ121	CuZn40Pb3	260	19%

	AFNOR	Rp02 (N/mm²)	Rm (N/mm²)	Elongation A50
Bronze CA104	CuAl10NiFe4	320-400	260	19%

Tolerances

HPC *manufactured gears are circular involute gears that conform to BS 4582 Part 1 Fig 1 DIN867.* *The manufacturing tolerances for these gears are given in the tables below.*
Please note: *These tolerances do not apply for any gears not manufactured by HPC such as the plastic moulded ranges. Precision gears are subject to their own tolerance.*

Gears	
General tolerances	±0,15 mm
Bore-size	H8
Nominal outside Ø	+0 / -0,15 mm
Surface roughness	Ra 3,2
Squareness	js11

Gearing	General	Delrin
PCD (nominal) Ø	-0,15 mm	-
Backlash (nominal)	-0,11 mm	-
TCE Ø10 TO Ø60	0,04 mm	0,05 mm
TCE Ø61 to Ø125	0,06 mm	0,07 mm
TCE Ø126 to Ø300	0,08 mm	0,08 mm

Note: *The total composite error (TCE) is the total size of the variation in central distance between a gear and a reference gear.*

Fixing
Keyway* JS9

Note: ** Keyways are not aligned on the gearing axis as standard. On request, the keyways can be aligned:* $\overline{=}$ *0.6*

Nominal distance between centres

HPC gears are machined to have a backlash of between 0.07mm and 0.3mm depending on the module. ***The distance between centres when assembling the gears should be the nominal distance between centres -0/+0.05mm.***

$$\text{Nominal distance between centres} = \frac{\text{PCD Ø gear A} + \text{PCD Ø gear B}}{2}$$

The three types of gears: General info

Cylindrical parallel gears

- ***Spur gears:*** *these are the most common and the easiest to apply.*

Advantages and disadvantages

- *They can accept axial movement*
- *No force is transmitted axially*

- ***Helical parallel gears:*** *The angle of the gearing allows continuous meshing of the gears and they therefore run quieter.*

Advantages and disadvantages

- *A right handed gear (angle ß) has to mesh with a left handed gear with the same angle ß.*
- *The efficiency is not as good as a spur gear.*
- *Bearings must withstand the axial thrust generated by the gears*

Important note: *Helical angles are not standardised between manufacturers and gears from different manufacturers are not interchangeable.*

Gear pairs with non-parallel, non-intersecting axes:

- ***Crossed helical gears:*** *these work on the same principles as parallel helical gears but the angles of the two gears are in the same direction and add up to 90°.*

Advantages and disadvantages

- *Allow 90° angular transmission*
- *Wide range of reduction ratios*
- *Low efficiency*

- ***Worms and wheels:*** *These have high reduction ratios (from 5:1 to 120:1). The total of the two angles being 90° allows angular transmission through 90°.*

Advantages and disadvantages

- *Low efficiency (between 40-70%)depending on the materials used and the lubrication used.*

Gears with intersecting axes

- ***Bevel gears:*** *These allow 90° angular transmission in the sam plane and speed reduction ratios from 1:1 to 4:1.*

Advantages and disadvantages

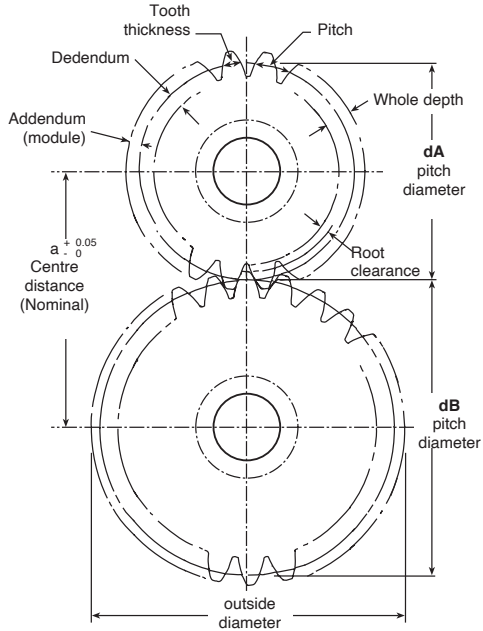
- *Require careful assembly as the tips of the two cones intersect.*
- *Bearings must withstand axial thrust*
- *Bevel gears as supplied and must be used in pairs*
- *Can be noisy, use helical bevel or spiral bevel gears if noise is a problem*

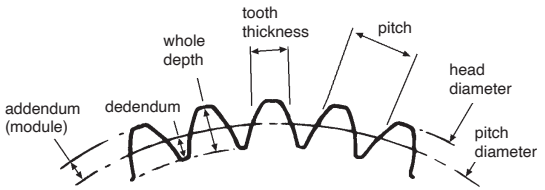
Reduction ratios

The calculation of speed ratios is the same for all three types of gear:

$$\frac{W1}{W2} = \frac{Z2}{Z1}$$

W1 : Input speed **Z1** : Number of teeth on input gear
W2 : Output speed **Z2** : Number of teeth on output gear





Gearing profile

Useful formulae

A right hand cylindrical gear is defined by its number of gears and its module. All the other dimensions can then be calculated as shown below:

Standard gearing	Symbols	Formulae	Units
Module	m	$\frac{p}{\pi}$	mm
Number of teeth	Z	$\frac{d}{m}$	
Pitch	p	m x π	mm
Pitch diameter	d	Z x m	mm
External diameter	D	(Z + 2) x m	mm
Addendum	ha	m	mm
Dedendum module 0,25 to 1,25	hf	1,40 x m	mm
Dedendum module 1,50 to 8	hf	1,25 x m	mm
Teeth height module 0,25 to 1,25	h	2,40 x m	mm
Teeth height module 1,50 to 8	h	2,25 x m	mm
Tooth thickness	e	(π m / 2)	mm

Teeth with correction

- ***Gearing correction for gears with 8 to 17 teeth.***
  We can correct the gearing of these gears to avoid the interference that can weaken the bottom of the teeth. Please note however that this will modify the pitch diameter of the gear and therefore the distance between centres will also be modified.

	Symbols	Formulae	Units
Corrected pitch diameter	dc	m (Z + 1)	mm
Corrected outside diameter	Dc	m (Z + 3)	mm

Distance between centres

- *HPC gears are machined to have a backlash of between 0.07mm and 0.3mm depending on the module.* ***The distance between centres when assembling the gears should be the nominal distance between centres -0/+0.05mm***

$$\text{Nominal distance between centres} = \frac{dA + dB}{2}$$

Helical gears

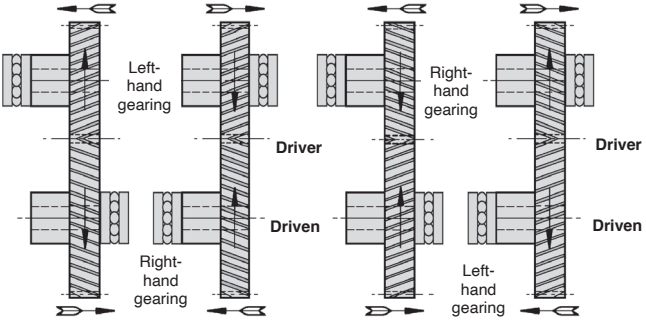
Useful formulae

Standard gearing	Symbols	Formulae	Units
Module	m	$\frac{p}{\pi}$	
Pitch	p	m x π	mm
PCD	d	Z.m / cosß	mm
Outside diameter	D	d + (2 x m)	mm
Number of teeth	Z	$\frac{d \times \cos ß}{m}$	
Addendum	ha	m	mm
Lead	Pz	$\frac{d \times \pi}{\tan ß}$	mm

Parallel helical gears

- *The angled teeth of this type of gear engage more gradually and the increased number of teeth engaged at the same time means a more continuous drive. It also means that the gears run smoother and more quietly than spur gears.*
- *Left angled gears mesh with right angled gears*
- *Helical gears generate a thrust along the axis of the gear*
- ***HPC helical gears** are angled at **17°45'** and are not compatible with gears inclined at any other angle.*

Parallel axis



Useful formulae

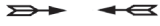
Parallel axis

Crossed axis

Crossed helical gears

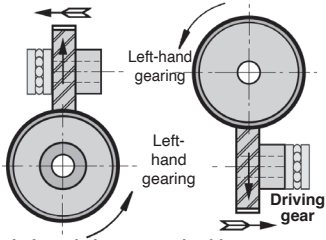
- The 45° angle of the teeth on crossed helical gears allows movement to transmitted at 90°
- Right angled gears mesh with similarly angled gears
- Helical gears generate a thrust along the axis of the gear

Crossed axis

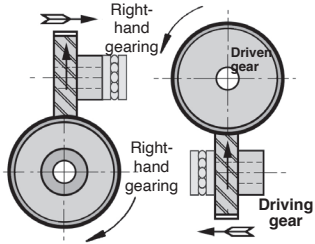


Direction of the force generated by the meshing

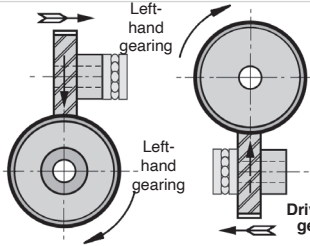
Location of stops

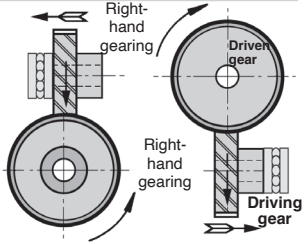


Left angled gears mesh with similarly angled gears



Right angled gears mesh with similarly angled gears





Worms and wheels

Useful formulae

- ***This system offers very high reductions in speed***
- *Under certain conditions systems can prevent back-drive.*
- *The efficiency of the system is low and rises as the gearing angle increases*
- *The helix direction is the same for both the worm and wheel*
- *There is little standardisation for wheels and worms. If a part breaks, it must be replaced by an identical part. Most of the time, replacement parts must be produced from samples.*

Wheels	Symbols	Formulae	Units
Module	m	$\frac{p}{\pi}$	
Pitch	p	m x π	mm
PCD	d	Z x m	mm
Number of teeth	Z	d ÷ m	
Outside diameter	dc	(Z + 2) x m	mm

Worms	Symbols	Formulae	Units
Outside diameter	D	(2 x m) + d	mm
Helix angle tangent	ß	(m x Z) ÷ d	
PCD	d	$\frac{p \times Z}{\pi \tan ß}$	mm

Distance between centres

- *HPC worms and wheels are machined to have a backlash of between 0.07mm and 0.3mm depending on the module.* ***The distance between centres when assembling them should be the nominal distance between centres -0/+0.05mm.***

$$\text{Nominal distance between centres} = \frac{\text{d(wheel)} + \text{d(worm)}}{2}$$

Dimensioning a shaft

- The table below will allow you to determine a shaft diameter based on the type of material to be used and the torque to be transmitted.

	Material	Shaft diameter (mm)											
		Ø6	Ø10	Ø12	Ø15	Ø17	Ø20	Ø25	Ø30	Ø40	Ø50	Ø75	Ø100
Torque (Nm)	**Soft steel XC18 XC65 35,000 kN/mm²**	1.50	6.60	11.50	23	34	55	105	180	440	840	2800	6600
	60 C40 Z10CNF18.09 45,000 kN/mm²	1.90	8.50	15	28	43	70	135	230	550	1000	3600	8500
	42CD4 20NCD2 60,000 kN/mm²	2.50	12.00	20	39	56	95	180	310	750	1500	4800	12000

This table is offered as a guide only and does not take specific applications into account

Useful formulae

$$kW = 0{,}746 \times CV$$

$$Nm = \frac{9550 \times kW}{rpm}$$

Choosing a gear

- When choosing a gear as part of a system there are many factors to be taken into account. The torque and the speed are the most obvious but there is also the material, the operating environment, the required life expectancy and the lubrication system. HPC can suggest the use of two simple methods to make the choice but neither takes into account all of the various parameters and as such HPC cannot be held responsible for any problems that may arise. However they do offer a good place to start.

The first method uses the different values you will find in this catalogue and consists of applying coefficients to a given torque in two ways.
- The next 2 pages allow you to calculate the module required based on the torque to be transmitted.
- The following 2 pages allow you to calculate the torque that can be transmitted by gears you have already chosen

The second method takes two factors into account: wear and resistance.
Depending on the results you get, you should use the lowest value.
Don't forget. our technical team is always there to help you.

How to calculate the module you need ?

- *The majority of the pages in this catalogue contain references to torque and the table below provides a brief summary. The values for standard gears should only be used as a reference in your own calculations. These numbers are based on two well lubricated 50 tooth gears turning at 1000 rpm (input speed) for 12 hours per day, it will need to modifying to meet your requirements. To calculate the module required, you need to apply weighting coefficients A, B, C and D (see next page) to the torque to be transmitted.*

$$\frac{\text{Torque to be transmitted}}{\text{A x B x C x D}} < \text{Indicative torque}$$

- ***Example***:
We need to transmit 20Nm at 500 rpm for 6H per day with a 20 tooth input gear and 100 tooth output gear: $\frac{20}{0{,}25 \times 1{,}27 \times 1{,}15 \times 1{,}1} < 49{,}80$

- ***Many different solutions are possible, such as the following:***
Straight gears module 1.75 hardened (G1.75 hardened). module 2 (YG2 untreated)
Helical gears module 1.5 hardened (SH1.5 hardened)

Indicative torque Output torque indication (Nm) for two gears with 50 teeth at 1000rpm (input speed)	Module									
	0,25	**0,3**	**0,4**	**0,5**	**0,6**	**0,7**	**0,75**	**0,8**	**0,9**	**1**
Spur gear										
G/PG/SSG/HG (20NCD2, S/steel)	0,05	0,07	0,147	0,391	0,63	0,6	0,99	1	1,91	2,6
G/PG (20NCD2 hardened)	0,23	0,32	0,698	1,85	2,91	3,2	4,57	5	8,82	12
YG/XG (35NCD6, 20NCD2)	-	-	-	-	-	-	-	4	-	10,6
YG/XG (35NCD6 hardened)	-	-	-	-	-	-	-	5,8	-	15,5
YG/XG (20NCD2 hardened)	-	-	-	-	-	-	-	11	-	29,3
GB (brass)	-	-	-	0,195	-	-	-	0,54	-	1,25
ZG/ZPG (Delrin)	-	-	0,04	0,1	-	-	-	0,3	-	0,7
Helical gear										
SH/PSH (20NCD2)	-	-	0,28	0,53	-	1,73	-	2,25	-	4,23
SH/PSH (20NCD2 hardened)	-	-	1,12	2,09	-	6,83	-	8,92	-	16,74
ZSH/ZPSH (delrin)	-	-	-	0,13	-	0,4	-	0,5	-	1
H/PH (20NCD2)	-	-	0,056	0,127	-	0,272	-	0,395	-	0,747
H/PH (20NCD2 hardened)	-	-	0,375	0,705	-	1,791	-	2,596	-	4,908
ZH/ZPH (Delrin)	-	-	-	0,03	-	-	-	0,1	-	0,18
Worm and wheel										
M/PM and W/SW (Bronze/steel)	-	-	0,57	1,01	-	-	-	2,82	-	5,87
M/PM and WH/SWH (Bronze/treated steel)	-	-	1	1,86	-	-	-	5,26	-	10,06
ZM/ZPM and ZW/ZSW (Delrin)	-	-	0,14	0,25	-	-	-	0,7	-	1,32
ZM/ZPM and W/SW (Delrin/steel)	-	-	0,36	0,65	-	-	-	1,84	-	3,42

Dimensions in mm

A	Variation in number of teeth of driving wheel
Number of teeth	Coef. A
100	2,00
75	1,50
50	1,00
40	0,75
30	0,50
20	0,25

B	Variation in number of teeth of driven wheel
Number of teeth	Coef. B
100	1,27
50	1,00
30	0,80
20	0,63

C	Speed variation
Speed (rpm)	Coef. C
2000	0,85
1000	1,00
500	1,15
100	1,54
10	2,38

D	Variation in working time
Hours of operation per day (H)	Coef. C
24	0,90
12	1,00
6	1,10
3	1,22
1	1,44
1/2	1,58

Note: *for worms and wheels, only use* B, C *and* D.

Indicative torque Output torque indication (N) for two gears with 50 teeth at 1000 rpm (input speed)	Module									
	1,25	1,5	1,75	2	2,5	3	4	5	6	8
Spur gear										
G/PG/SSG/HG (20NCD2, stainless steel)	3,8	8,88	16	25	48	88	200	294	441	918
G/PG (20NCD2 hardened)	18	41,5	75	119	228	421	953	1570	2350	5360
YG/XG (35NCD6, 20NCD2)	17	32	48	70	122	223	420	-	-	-
YG/XG (35NCD6 hardened)	24	46	69	103	178	325	665	-	-	-
YG/XG (20NCD2 hardened)	47	88	132	195	337	615	1256	-	-	-
GB (Brass)	-	-	-	-	-	-	-	-	-	-
ZG/ZPG (Delrin)	1	2,4	-	6	11	18	55	90	140	179
Helical gear										
SH/PSH (20NCD2)	6,61	12,71	-	33,89	66,17	114,2	338	-	-	-
SH/PSH (20NCD2 hardened)	43,45	50,29	-	134	261,7	451,9	1340	-	-	-
ZSH/ZPSH (delrin)	1,5	3	-	8	12	20	-	-	-	-
H/PH (20NCD2)	1,386	2,32	-	5,2	9,71	16,17	36,07	-	-	-
H/PH (20NCD2 hardened)	9,108	15,28	-	34,18	63,84	106,3	237,1	-	-	-
ZH/ZPH (Delrin)	0,4	0,7	-	1,5	3	5	-	-	-	-
Worm and wheel										
M/PM and W/SW (Bronze/steel)	11,41	16,8	-	45	81	139	309	-	-	-
M/PM and WH/SWH (Bronze/treated steel)	20,25	30	-	79	124	200	417	-	-	-
ZM/ZPM and ZW/ZSW (Delrin)	2,75	3,97	-	11	16	27	61	-	-	-
ZM/ZPM and W/SW (Delrin/steel)	7,02	10,05	-	28,3	40	69	154	-	-	-

Dimensions in mm

How to calculate the torque that can be transmitted by the gears you have already chosen ?

The majority of the pages in this catalogue contain a value for torque. The values for standard gears should only be used as a reference in your own calculations.

They are based on:

(1) *A driving gear with 50 teeth. turning at a speed of 1000 rpm*
(2) *A driven gear with 50 teeth.*
(3) *Gear used 12H per day.*
(4) *Good lubrication.*

A — **Variation in the number of teeth of the driving gear:**
Fixed parameters:
Speed of driving gear: 1000 rpm
50 tooth mating gear

Teeth/driving gear	Real torque (Nm)
100	Reference torque x 2,00
75	Reference torque x 1,50
50	Reference torque x 1,00
40	Reference torque x 0,75
30	Reference torque x 0,50
20	Reference torque x 0,25

Dimensions in mm

B — **Variation in the number of teeth of the driven gear:**
Fixed parameters:
Speed of driving gear: 1000 rpm
50 tooth mating gear

Teeth/driven gear	Real torque (Nm)
100	Reference torque x 1,27
50	Reference torquee x 1,00
30	Reference torque x 0,80
20	Reference torque x 0,63

NOTE: *For worm and wheel systems, only B, C and D are used.*

How to calculate the torque that can be transmitted by the gears you have already chosen ?

C

Speed variation:
Fixed parameters :
50 tooth driving gear
50 tooth driven gear

Speed rpm	Real torque (Nm)
2000	Reference torque x 0,85
1000	Reference torque x 1,00
500	Reference torque x 1,15
100	Reference torque x 1,54
10	Reference torque x 2,38

D

Variation in working time:
Fixed parameters:
Speed of driving gear: 1000 rpm
50 tooth driving gear
50 tooth driven gear

Hours of operation per day (H)	Real torque (Nm)
24	Reference torque x 0,90
12	Reference torque x 1,00
6	Reference torque x 1,10
3	Reference torque x 1,22
1	Reference torque x 1,44
1/2	Reference torque x 1,58

Calculation and examples

- *Example: helical gears*
  H 0.8-30 and H0.8-100
  Reference torque Co = 0.395 Nm

Variables

- *30 tooth driving gear*
- *100 tooth driven gear*
- *Speed in rotation of driving gear: 500 rpm*
- *Hours of operation per day: 6 h*
- ***So for 30 teeth:***

{[(0.395 x 0.50) x 1.27] x 1.15} x 1.1 = 0.317 Nm
Co A B C D

Spur gear calculations

Pitch factor

Module	«K»
0,5	23,00
0,6	20,00
0,75	16,70
0,9	14,60
1	13,40
1,25	11,20
1,5	9,87
1,75	8,60
2	8,00
2,5	6,50
3	5,60
4	4,40
5	3,70

Use factor

Hours of operation per day	Factor X	
	Wear	Resistance
24	0,80	0,90
12	1,00	1,00
6	1,25	1,10
3	1,65	1,20
1	2,20	1,40
0,5	2,90	1,60

Speed coefficient

rpm	3,000	2,000	1,000	600	400	200	100	50	10	5
'X'	0.20	0.23	0.24	0.30	0.32	0.36	0.42	0.47	0.57	0.60

Size factor

«Z» value		Number of teeth of the driving gear						
		12	16	20	25	30	40	50
Number of teeth of the driven gear	12	1,00	1,12	1,18	1,22	1,23	1,24	1,25
	16	1,12	1,26	1,38	1,44	1,49	1,52	1,59
	20	1,18	1,38	1,52	1,62	1,66	1,75	1,89
	25	1,22	1,44	1,62	1,75	1,84	2,00	2,20
	30	1,23	1,49	1,66	1,84	1,98	2,20	2,35
	40	1,24	1,52	1,75	2,00	2,20	2,50	2,75
	50	1,25	1,60	1,89	2,20	2,35	2,75	3,00
	Rack	1,49	2,05	2,55	3,20	3,60	4,70	5,60

- ***Calculation of the forces that spur and helical gears can withstand***

- *The following formulae allow you to calculate the resistance to wear (1) and resistance to force (2), both of which must be taken into account when designing a system.*

Resistance to wear	Resistance to force
(1) $F_U = \frac{X \times Z \times Sc \times L}{5{,}71 \times K}$	**(2)** $F_E = \frac{X \times Sb \times Mod \times L}{242}$

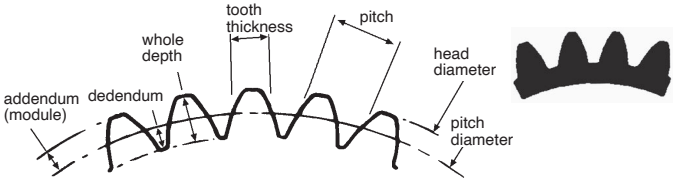
With :
- F_U: Resistance to wear (N)
- F_E: Resistance to force (N)
- X = Use factor x Speed factor
- Sc: Surface tension (material data)
- Sb: Bending force (material data)
- K: Pitch factor
- L: Gearing width (in mm)
- Mod: Module

- *These formulae give the maximum forces the pitch diameter can withstand.*
  To find the admissible torque, use both formulae (3) and (4) and use the lowest of the two values.

(3) $C_A = \mathbf{F_U} \times \mathbf{R}$ ou **(4)** $C_A = \mathbf{F_E} \times \mathbf{R}$
R = Pitch radius = Pitch diameter/2 (in m)
C_A: Admissible torque (in Nm)

- *These factors, coefficients and formulae are only given as a guide to enable you to do your own calculations and the results will only be approximations.*
- *The only way to obtain accurate results is to carry out repeated tests under real conditions. HPC decline any responsibility for the results obtained from these formulae.*

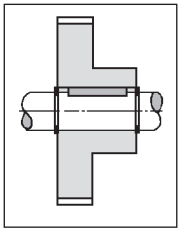
Tooth sizes

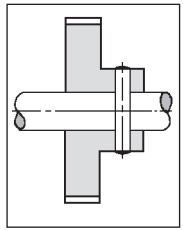


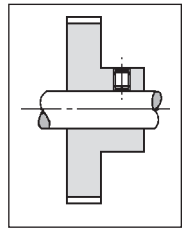
***MODULE 1,25 to 6**

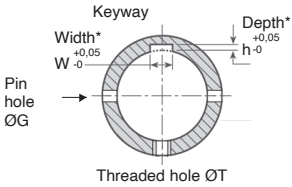
Module (m)	Pitch (p)	Tooth thickness	Addendum	Dedendum	Whole depth
	π x m	π x m / 2	= m (module)	1,40 x m or 1,25 x m*	2,40 x m or 2,25 x m*
0,20	0,628	0,314	0,20	0,280	0,48
0,25	0,785	0,392	0,25	0,350	0,60
0,30	0,942	0,471	0,30	0,420	0,72
0,40	1,256	0,628	0,40	0,560	0,93
0,50	1,570	0,785	0,50	0,700	1,20
0,60	1,884	0,942	0,60	0,840	1,44
0,70	2,199	1,099	0,70	0,980	1,68
0,75	2,356	1,178	0,75	1,050	1,80
0,80	2,513	1,256	0,80	1,120	1,92
0,90	2,827	1,413	0,90	1,260	2,16
1,00	3,141	1,570	1,00	1,400	2,40
1,25	3,926	1,963	1,25	1,562	2,81
1,50	4,712	2,356	1,50	1,875	3,37
1,75	5,497	2,7845	1,75	2,187	3,93
2,00	6,283	3,141	2,00	2,500	4,50
2,25	7,068	3,534	2,25	2,182	5,06
2,50	7,853	3,926	2,50	3,125	5,62
2,75	8,639	4,319	2,75	3,437	6,18
3,00	9,424	4,712	3,00	3,750	6,75
4,00	12,566	6,283	4,00	5,000	9,00
5,00	15,707	7,853	5,00	6,250	11,25
6,00	18,849	9,4245	6,00	7,500	13,50

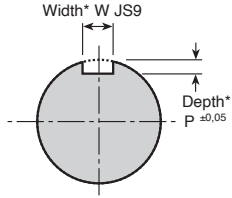
Dimensions of machined items for different shaft diameters





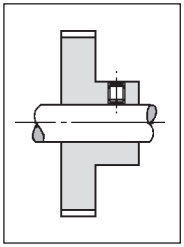




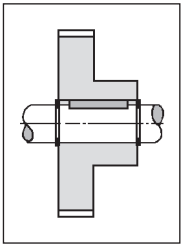


Shaft or bore diameter		Keyway			Pin hole diameter	Tapped hole
From Ø	up to Ø (inc)	W (mm)	h (mm)	P (mm)	ØG	ØT
Ø4	Ø6	-	-	-	1,50	M3
Ø6	Ø8	2	1,07	1,25	2,00	M3
Ø8	Ø10	3	1,50	1,85	3,00	M3
Ø10	Ø12	4	1,86	2,55	4,00	M4
Ø12	Ø17	5	2,35	3,05	5,00	M5
Ø17	Ø22	6	2,83	3,55	6,00	M6
Ø22	Ø30	8	3,34	4,10	8,00	M8
Ø30	Ø38	10	3,34	5,10	10,00	M10
Ø38	Ø44	12	3,35	5,10	10,00	M10
Ø44	Ø50	14	3,80	5,50	10,00	M12
Ø50	Ø58	16	4,30	6,00	10,00	M12

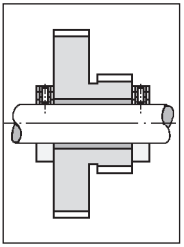
Various fixing systems



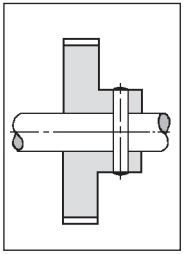
Set screw



Key. circlip

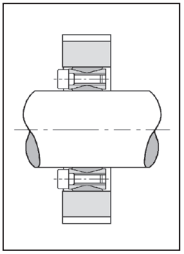


Self-lubrificating bushing

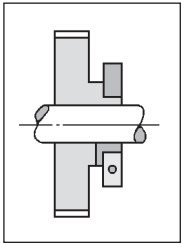


Pin

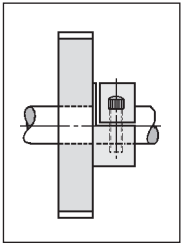
Contact us:
+33 (0)4 37 496 496



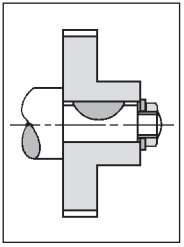
Internal clamp



Gear clamp



Integral gearclamp



Woodruff key and lock nut fixing

PRECISION WORMS AND WHEELS

P. 360-371

STAINLESS STEEL WORMS AND WHEELS

p.360

PW PSW Module 0.5

Worm and wheel set

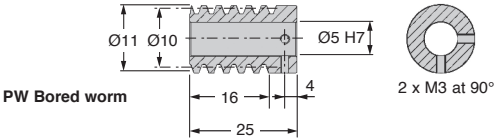
Worm available in pre-treated steel or stainless steel

Quality grade 7e

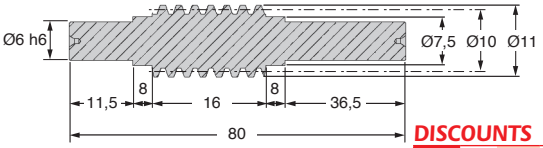
- **Quality grade 7e DIN 58405**
- Pressure angle: 20°
- Material:
  Pre-treated steel 35NCD6, 28 HRC
  Stainless steel 303
- Tooth thickness conforms to DIN 58405

Info.

- Torque figures are for 100 rpm and are given as a guide only.



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	No of starts	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
Bored worm				
PW0.5-1	PW0.5-1S	1	67,37 €	80,81 €
PW0.5-2	PW0.5-2S	2	67,37 €	80,81 €
PW0.5-3	PW0.5-3S	3	67,37 €	80,81 €
PW0.5-4	PW0.5-4S	4	67,37 €	80,81 €
Shaft worm				
PSW0.5-1	PSW0.5-1S	1	119,36 €	143,29 €
PSW0.5-2	PSW0.5-2S	2	119,36 €	143,29 €
PSW0.5-3	PSW0.5-3S	3	119,36 €	143,29 €
PSW0.5-4	PSW0.5-4S	4	119,36 €	143,29 €

Dimensions in mm

Worm and wheel set

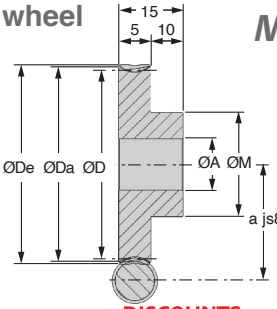
Bronze wheel

PWG

Module

0.5

- ***Quality grade 7e DIN 58405***
- *Pressure angle: 20°*
- *Material: Bronze CA104 (CuAl10Ni5Fe4)*
- *Tooth thickness conforms to DIN 3967*



Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*
- *To order, add the number of starts on the worm to the wheel part number: e.g. worm PW0.5-**4**, wheel PWG0.5-15-**4***

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	No of teeth	a	ØD	ØDa	ØDe	Bore ØA	Bore ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG0.5-18-1	18	9,50	9,00	10,00	10,50	3	7,50	0,073 - 0,031	1,47	61,97 €
PWG0.5-19-1	19	9,75	9,50	10,50	11,00	4	8,00	0,073 - 0,031	1,55	63,70 €
PWG0.5-20-1	20	10,00	10,00	11,00	11,50	4	8,00	0,073 - 0,031	1,63	65,14 €
PWG0.5-21-1	21	10,25	10,50	11,50	12,00	4	8,00	0,075 - 0,030	1,71	66,02 €
PWG0.5-22-1	22	10,50	11,00	12,00	12,50	4	8,00	0,075 - 0,030	1,80	66,57 €
PWG0.5-23-1	23	10,75	11,50	12,50	13,00	4	8,00	0,075 - 0,030	1,88	61,87 €
PWG0.5-24-1	24	11,00	12,00	13,00	13,50	5	10,00	0,075 - 0,030	1,96	63,03 €
PWG0.5-25-1	25	11,25	12,50	13,50	14,00	5	10,00	0,080 - 0,033	2,04	69,84 €
PWG0.5-26-1	26	11,50	13,00	14,00	14,50	5	10,00	0,080 - 0,033	2,12	70,15 €
PWG0.5-27-1	27	11,75	13,50	14,50	15,00	5	10,00	0,080 - 0,033	2,20	70,47 €
PWG0.5-28-1	28	12,00	14,00	15,00	15,50	5	10,00	0,080 - 0,033	2,28	70,86 €
PWG0.5-29-1	29	12,25	14,50	15,50	16,00	6	12,50	0,080 - 0,033	2,37	70,98 €
PWG0.5-30-1	30	12,50	15,00	16,00	16,50	6	12,50	0,080 - 0,033	2,45	71,13 €
PWG0.5-32-1	32	13,00	16,00	17,00	17,50	6	12,50	0,080 - 0,033	2,61	74,16 €
PWG0.5-35-1	35	13,75	17,50	18,50	19,00	6	12,50	0,080 - 0,033	2,86	77,31 €
PWG0.5-40-1	40	15,00	20,00	21,00	21,50	6	15,00	0,080 - 0,033	3,26	86,52 €
PWG0.5-45-1	45	16,25	22,50	23,50	24,00	6	15,00	0,080 - 0,033	3,67	89,35 €
PWG0.5-48-1	48	17,00	24,00	25,00	25,50	6	15,00	0,080 - 0,033	3,92	92,41 €
PWG0.5-50-1	50	17,50	25,00	26,00	26,50	6	15,00	0,080 - 0,033	4,08	93,71 €
PWG0.5-55-1	55	18,75	27,50	28,50	29,00	6	15,00	0,087 - 0,033	4,53	100,62 €
PWG0.5-60-1	60	20,00	30,00	31,00	31,50	8	20,00	0,087 - 0,033	4,98	110,35 €
PWG0.5-65-1	65	21,25	32,50	33,50	34,00	8	20,00	0,087 - 0,033	5,43	118,78 €
PWG0.5-68-1	68	22,00	34,00	35,00	35,50	8	20,00	0,087 - 0,033	5,70	123,04 €
PWG0.5-70-1	70	22,50	35,00	36,00	36,50	8	20,00	0,087 - 0,033	5,89	127,38 €
PWG0.5-72-1	72	23,00	36,00	37,00	37,50	8	20,00	0,087 - 0,033	6,07	131,62 €
PWG0.5-75-1	75	23,75	37,50	38,50	39,00	8	20,00	0,087 - 0,033	6,35	135,89 €
PWG0.5-78-1	78	24,50	39,00	40,00	40,50	8	30,00	0,087 - 0,033	6,62	140,41 €
PWG0.5-80-1	80	25,00	40,00	41,00	41,50	8	30,00	0,087 - 0,033	6,81	145,02 €

Wheels available with 18 to 80 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated steel or stainless steel

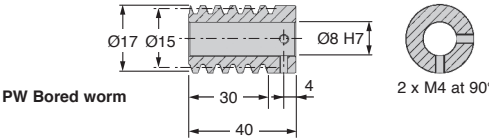
Module 1.0

- ***Quality grade 7e25* DIN 3974**
- *Pressure angle: 20°*
- *Material:*
  Pre-treated steel 35NCD6, 28HRC
  Stainless steel 303
- *Tooth thickness conforms to DIN 3967*

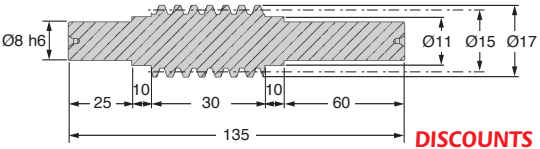
Quality grade 7e25

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	No of starts	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
PW1.0-1	PW1.0-1S	1	88,96 €	106,78 €
PW1.0-2	PW1.0-2S	2	88,96 €	106,78 €
PW1.0-3	PW1.0-3S	3	88,96 €	106,78 €
PW1.0-4	PW1.0-4S	4	88,96 €	106,78 €
Shaft worm				
PSW1.0-1	PSW1.0-1S	1	143,90 €	172,72 €
PSW1.0-2	PSW1.0-2S	2	143,90 €	172,72 €
PSW1.0-3	PSW1.0-3S	3	143,90 €	172,72 €
PSW1.0-4	PSW1.0-4S	4	143,90 €	172,72 €

Dimensions in mm

Worm and wheel set

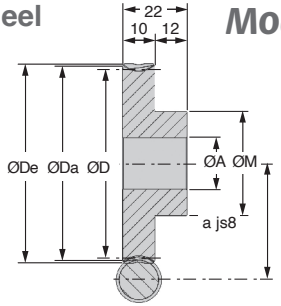
Bronze wheel

PWG

Module

1.0

- ***Quality grade 7e25 DIN 3974***
- *Pressure angle: 20°*
- *Material: Bronze CA104 (CuAl10Ni5Fe4)*
- *Tooth thickness conforms to DIN 3967*



Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*
- *To order, add the number of starts on the worm to the wheel part number: e.g. worm PW1.0-**4**, wheel PWG1.0-15-**4***

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	No of teeth	a	ØD	ØDa	ØDe	Bore ØA	Bore ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG1.0-15-1	15	15,00	15	17	18	5	12	0,112 - 0,042	2,05	95,23 €
PWG1.0-16-1	16	15,50	16	18	19	5	12	0,112 - 0,042	2,31	97,51 €
PWG1.0-17-1	17	16,00	17	19	20	5	12	0,112 - 0,042	2,57	98,16 €
PWG1.0-18-1	18	16,50	18	20	21	5	12	0,112 - 0,042	2,85	99,30 €
PWG1.0-19-1	19	17,00	19	21	22	5	12	0,112 - 0,042	3,14	99,62 €
PWG1.0-20-1	20	17,50	20	22	23	5	12	0,112 - 0,042	3,45	100,23 €
PWG1.0-21-1	21	18,00	21	23	24	5	12	0,112 - 0,042	3,76	100,78 €
PWG1.0-22-1	22	18,50	22	24	25	5	12	0,114 - 0,040	4,09	101,81 €
PWG1.0-23-1	23	19,00	23	25	26	5	12	0,114 - 0,040	4,43	102,77 €
PWG1.0-24-1	24	19,50	24	26	27	6	20	0,114 - 0,040	4,79	105,67 €
PWG1.0-25-1	25	20,00	25	27	28	6	20	0,114 - 0,040	5,15	110,15 €
PWG1.0-26-1	26	20,50	26	28	29	6	20	0,114 - 0,040	5,53	111,49 €
PWG1.0-27-1	27	21,00	27	29	30	6	20	0,114 - 0,040	5,92	113,62 €
PWG1.0-28-1	28	21,50	28	30	31	6	20	0,114 - 0,040	6,32	114,40 €
PWG1.0-29-1	29	22,00	29	31	32	8	25	0,114 - 0,040	6,73	116,31 €
PWG1.0-30-1	30	22,50	30	32	33	8	25	0,114 - 0,040	7,15	117,99 €
PWG1.0-35-1	35	25,00	35	37	38	8	25	0,114 - 0,040	9,44	142,63 €
PWG1.0-40-1	40	27,50	40	42	43	10	35	0,114 - 0,040	12,00	167,50 €
PWG1.0-45-1	45	30,00	45	47	48	10	35	0,114 - 0,040	14,84	194,27 €
PWG1.0-48-1	48	31,50	48	50	51	10	35	0,116 - 0,038	16,67	207,85 €
PWG1.0-50-1	50	32,50	50	52	53	10	35	0,116 - 0,038	17,94	223,63 €
PWG1.0-52-1	52	33,50	52	54	55	10	35	0,136 - 0,048	19,25	227,23 €
PWG1.0-55-1	55	35,00	55	57	58	10	35	0,136 - 0,048	21,29	235,05 €
PWG1.0-60-1	60	37,50	60	62	63	10	40	0,136 - 0,048	24,90	246,28 €
PWG1.0-65-1	65	40,00	65	67	68	10	40	0,136 - 0,048	28,76	266,45 €
PWG1.0-70-1	70	42,50	70	72	73	10	40	0,136 - 0,048	32,87	287,62 €
PWG1.0-75-1	75	45,00	75	77	78	10	40	0,136 - 0,048	37,21	301,60 €
PWG1.0-80-1	80	47,50	80	82	83	10	50	0,136 - 0,048	41,80	365,78 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated steel or stainless steel

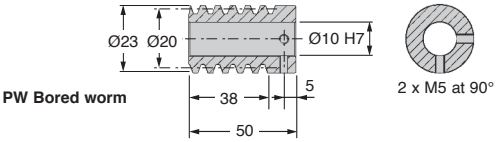
Module 1.5

Quality grade 7e25

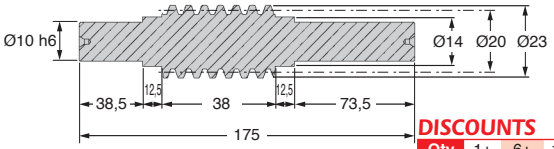
- ***Quality grade 7e25* DIN 3974**
- *Pressure angle: 20°*
- *Material:*
  Pre-treated steel 35NCD6, 28HRC
  Stainless steel 303
- *Tooth thickness conforms to DIN 3967*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Stainless steel	No of starts	Price each 1 to 5 Steel	Stainless steel
Bored worm				
PW1.5-1	PW1.5-1S	1	98,72 €	128,36 €
PW1.5-2	PW1.5-2S	2	98,72 €	128,36 €
PW1.5-3	PW1.5-3S	3	98,72 €	128,36 €
PW1.5-4	PW1.5-4S	4	98,72 €	128,36 €
Shaft worm				
PSW1.5-1	PSW1.5-1S	1	167,86 €	218,27 €
PSW1.5-2	PSW1.5-2S	2	167,86 €	218,27 €
PSW1.5-3	PSW1.5-3S	3	167,86 €	218,27 €
PSW1.5-4	PSW1.5-4S	4	167,86 €	218,27 €

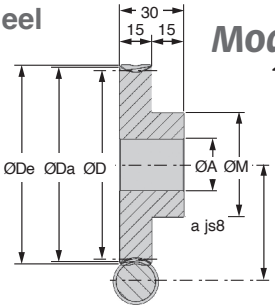
Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module 1.5



- **Quality grade 7e25 DIN 3974**
- Pressure angle: 20°
- Material: Bronze CA104 (CuAl10Ni5Fe4)
- Tooth thickness conforms to DIN 3967

Options

- Alternative bores (H7)
- Keyway conforming to DIN6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- To order, add the number of starts on the worm to the wheel part number: e.g. worm PW1.5-**4**, wheel PWG1.5-15-**4**

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	No of teeth	a	ØD	ØDa	ØDe	Bore ØA	Bore ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG1.5-15-1	15	21,25	22,50	25,50	27,00	6	20	0,114 - 0,040	5,29	135,14 €
PWG1.5-16-1	16	22,00	24,00	27,00	28,50	6	20	0,114 - 0,040	5,95	139,73 €
PWG1.5-17-1	17	22,75	25,50	28,50	30,00	6	20	0,114 - 0,040	6,63	142,49 €
PWG1.5-18-1	18	23,50	27,00	30,00	31,50	6	20	0,114 - 0,040	7,35	144,37 €
PWG1.5-19-1	19	24,25	28,50	31,50	33,00	6	20	0,114 - 0,040	8,10	146,88 €
PWG1.5-20-1	20	25,00	30,00	33,00	34,50	6	20	0,114 - 0,040	8,89	148,90 €
PWG1.5-21-1	21	25,75	31,50	34,50	36,00	8	25	0,114 - 0,040	9,70	151,24 €
PWG1.5-22-1	22	26,50	33,00	36,00	37,50	8	25	0,114 - 0,040	10,72	153,72 €
PWG1.5-23-1	23	27,25	34,50	37,50	39,00	8	25	0,114 - 0,040	11,62	155,83 €
PWG1.5-24-1	24	28,00	36,00	39,00	40,50	8	25	0,114 - 0,040	12,54	158,98 €
PWG1.5-25-1	25	28,75	37,50	40,50	42,00	8	25	0,114 - 0,040	13,72	163,61 €
PWG1.5-26-1	26	29,50	39,00	42,00	43,50	8	25	0,114 - 0,040	14,72	166,20 €
PWG1.5-27-1	27	30,25	40,50	43,50	45,00	8	25	0,117 - 0,038	15,89	169,50 €
PWG1.5-28-1	28	31,00	42,00	45,00	46,50	8	25	0,117 - 0,038	16,96	171,89 €
PWG1.5-29-1	29	31,75	43,50	46,50	48,00	10	35	0,117 - 0,038	18,07	175,55 €
PWG1.5-30-1	30	32,50	45,00	48,00	49,50	10	35	0,117 - 0,038	19,36	180,23 €
PWG1.5-35-1	35	36,25	52,50	55,50	57,00	10	35	0,137 - 0,048	25,55	223,97 €
PWG1.5-40-1	40	40,00	60,00	63,00	64,50	12	45	0,137 - 0,048	32,49	273,75 €
PWG1.5-45-1	45	43,75	67,50	70,50	72,00	12	45	0,137 - 0,048	40,80	342,28 €
PWG1.5-48-1	48	46,00	72,00	75,00	76,50	12	45	0,137 - 0,048	45,83	384,41 €
PWG1.5-50-1	50	47,50	75,00	78,00	79,50	14	55	0,137 - 0,048	50,09	413,71 €
PWG1.5-55-1	55	51,25	82,50	85,50	87,00	14	55	0,139 - 0,045	59,47	492,14 €
PWG1.5-60-1	60	55,00	90,00	93,00	94,50	14	55	0,139 - 0,045	69,55	577,09 €
PWG1.5-65-1	65	58,75	97,50	100,50	102,00	14	55	0,139 - 0,045	83,42	659,35 €
PWG1.5-70-1	70	62,50	105,00	108,00	109,50	16	65	0,139 - 0,045	95,32	756,46 €
PWG1.5-75-1	75	66,25	112,50	115,50	117,00	16	65	0,139 - 0,045	107,92	860,01 €
PWG1.5-78-1	78	68,50	117,00	120,00	121,50	16	65	0,139 - 0,045	115,82	925,71 €
PWG1.5-80-1	80	70,00	120,00	123,00	124,50	16	65	0,139 - 0,045	121,32	970,58 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated steel or stainless steel

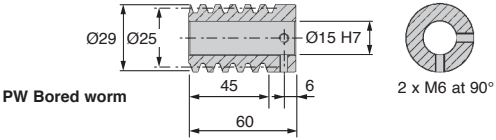
Module 2.0

- **Quality grade 7e25 DIN 3974**
- Pressure angle: 20°
- Material:
  Pre-treated steel 35NCD6, 28HRC
  Stainless steel 303
- Tooth thickness conforms to DIN 3967

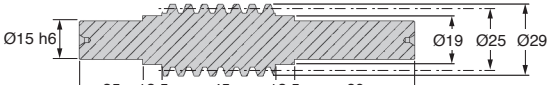
Quality grade 7e25

Info.

- Torque figures are for 100 rpm and are given as a guide only.



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	No of starts	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
Bored worm				
PW2.0-1	PW2.0-1S	1	150,45 €	203,16 €
PW2.0-2	PW2.0-2S	2	150,45 €	203,16 €
PW2.0-3	PW2.0-3S	3	150,45 €	203,16 €
PW2.0-4	PW2.0-4S	4	150,45 €	203,16 €
Shaft worm				
PSW2.0-1	PSW2.0-1S	1	228,21 €	308,12 €
PSW2.0-2	PSW2.0-2S	2	228,21 €	308,12 €
PSW2.0-3	PSW2.0-3S	3	228,21 €	308,12 €
PSW2.0-4	PSW2.0-4S	4	228,21 €	308,12 €

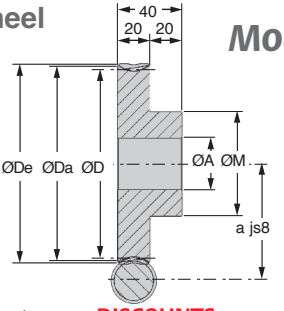
Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module 2.0



- ***Quality grade 7e25 DIN 3974***
- *Pressure angle: 20°*
- *Material: Bronze CA104 (CuAl10Ni5Fe4)*
- *Tooth thickness conforms to DIN 3967*

Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*
- *To order, add the number of starts on the worm to the wheel part number: e.g. worm PW2.0-**4**, wheel PWG2.0-15-**4***

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	No of teeth	a	ØD	ØDa	ØDe	Bore ØA	Bore ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG2.0-15-1	15	27,50	30	34	36	10	25	0,114 - 0,040	11,30	265,17 €
PWG2.0-16-1	16	28,50	32	36	38	10	25	0,114 - 0,040	12,69	280,32 €
PWG2.0-17-1	17	29,50	34	38	40	10	25	0,114 - 0,040	14,16	285,64 €
PWG2.0-18-1	18	30,50	36	40	42	10	25	0,117 - 0,038	15,69	291,00 €
PWG2.0-19-1	19	31,50	38	42	44	10	25	0,117 - 0,038	17,30	296,49 €
PWG2.0-20-1	20	32,50	40	44	46	10	25	0,117 - 0,038	19,29	301,85 €
PWG2.0-21-1	21	33,50	42	46	48	12	35	0,117 - 0,038	21,06	318,80 €
PWG2.0-22-1	22	34,50	44	48	50	12	35	0,117 - 0,038	23,27	337,94 €
PWG2.0-23-1	23	35,50	46	50	52	12	35	0,117 - 0,038	25,62	347,39 €
PWG2.0-24-1	24	36,50	48	52	54	12	35	0,117 - 0,038	28,09	356,15 €
PWG2.0-25-1	25	37,50	50	54	56	12	35	0,117 - 0,038	30,24	365,45 €
PWG2.0-26-1	26	38,50	52	56	58	12	35	0,137 - 0,048	32,45	374,37 €
PWG2.0-27-1	27	39,50	54	58	60	12	35	0,137 - 0,048	34,73	377,29 €
PWG2.0-28-1	28	40,50	56	60	62	12	35	0,137 - 0,048	37,08	383,40 €
PWG2.0-29-1	29	41,50	58	62	64	14	50	0,137 - 0,048	39,50	389,45 €
PWG2.0-30-1	30	42,50	60	64	66	14	50	0,137 - 0,048	41,98	392,48 €
PWG2.0-32-1	32	44,50	64	68	70	14	50	0,137 - 0,048	47,15	407,56 €
PWG2.0-35-1	35	47,50	70	74	76	14	50	0,137 - 0,048	55,41	478,41 €
PWG2.0-38-1	38	50,50	76	80	82	14	50	0,139 - 0,045	64,25	554,88 €
PWG2.0-40-1	40	52,50	80	84	86	14	50	0,139 - 0,045	70,46	609,00 €
PWG2.0-42-1	42	54,50	84	88	90	14	50	0,139 - 0,045	76,93	665,75 €
PWG2.0-45-1	45	57,50	90	94	96	14	50	0,139 - 0,045	88,46	755,29 €
PWG2.0-48-1	48	60,50	96	100	102	14	50	0,139 - 0,045	99,36	845,57 €
PWG2.0-50-1	50	62,50	100	104	106	16	65	0,139 - 0,045	106,94	911,67 €
PWG2.0-52-1	52	64,50	104	108	110	16	65	0,139 - 0,045	114,76	980,64 €
PWG2.0-55-1	55	67,50	110	114	116	16	65	0,139 - 0,045	126,95	1 078,08 €
PWG2.0-58-1	58	70,50	116	120	122	16	65	0,139 - 0,045	139,68	1 190,59 €
PWG2.0-60-1	60	72,50	120	124	126	16	65	0,139 - 0,045	153,04	1 268,65 €

Wheels available with 15 to 60 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated steel or stainless steel

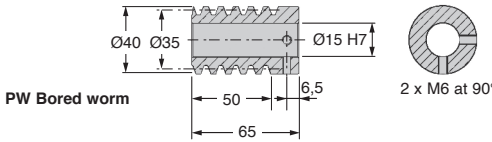
Module 2.5

Quality grade 7e25

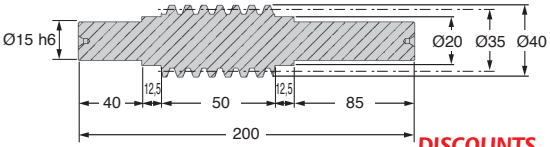
- **Quality grade 7e25 DIN 3974**
- Pressure angle : 20°
- Material :
  Pre-treated steel 35NCD6, 28HRC
  Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	No of starts	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
Bored worm				
PW2.5-1	PW2.5-1S	1	232,89 €	314,51 €
PW2.5-2	PW2.5-2S	2	232,89 €	314,51 €
PW2.5-3	PW2.5-3S	3	232,89 €	314,51 €
PW2.5-4	PW2.5-4S	4	232,89 €	314,51 €
Shaft worm				
PSW2.5-1	PSW2.5-1S	1	342,40 €	462,30 €
PSW2.5-2	PSW2.5-2S	2	342,40 €	462,30 €
PSW2.5-3	PSW2.5-3S	3	342,40 €	462,30 €
PSW2.5-4	PSW2.5-4S	4	342,40 €	462,30 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module 2.5

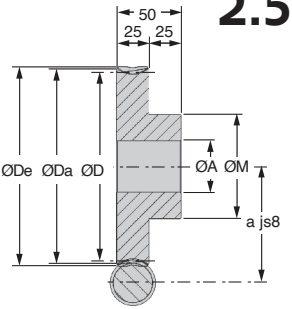
- ***Quality grade 7e25 DIN 3974***
- *Pressure angle: 20°*
- *Material: Bronze CA104 (CuAl10Ni5Fe4)*
- *Tooth thickness conforms to DIN 3967*

Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*
- *To order, add the number of starts on the worm to the wheel part number:*
  *e.g. worm PW2.5-**4**, wheel PWG2.5-15-**4***



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	No of teeth	a	ØD	ØDa	ØDe	Bore ØA	Bore ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG2.5-15-1	15	36,25	37,50	42,50	45,00	10	30	0,116 - 0,038	22,38	297,91 €
PWG2.5-16-1	16	37,50	40,00	45,00	47,50	10	30	0,116 - 0,038	25,13	304,41 €
PWG2.5-17-1	17	38,75	42,50	47,50	50,00	10	30	0,116 - 0,038	28,52	310,70 €
PWG2.5-18-1	18	40,00	45,00	50,00	52,50	10	30	0,116 - 0,038	31,61	329,05 €
PWG2.5-19-1	19	41,25	47,50	52,50	55,00	10	30	0,116 - 0,038	34,84	347,29 €
PWG2.5-20-1	20	42,50	50,00	55,00	57,50	10	30	0,116 - 0,038	38,85	365,59 €
PWG2.5-21-1	21	43,75	52,50	57,50	60,00	12	45	0,137 - 0,048	42,42	374,63 €
PWG2.5-22-1	22	45,00	55,00	60,00	62,50	12	45	0,137 - 0,048	46,12	382,09 €
PWG2.5-23-1	23	46,25	57,50	62,50	65,00	12	45	0,137 - 0,048	49,97	397,02 €
PWG2.5-24-1	24	47,50	60,00	65,00	67,50	12	45	0,137 - 0,048	53,95	402,18 €
PWG2.5-25-1	25	48,75	62,50	67,50	70,00	12	45	0,137 - 0,048	58,06	406,47 €
PWG2.5-26-1	26	50,00	65,00	70,00	72,50	12	45	0,137 - 0,048	63,34	410,93 €
PWG2.5-27-1	27	51,25	67,50	72,50	75,00	12	45	0,139 - 0,045	67,80	414,22 €
PWG2.5-28-1	28	52,50	70,00	75,00	77,50	12	45	0,139 - 0,045	72,38	416,72 €
PWG2.5-29-1	29	53,75	72,50	77,50	80,00	14	55	0,139 - 0,045	77,10	420,98 €
PWG2.5-30-1	30	55,00	75,00	80,00	82,50	14	55	0,139 - 0,045	83,97	424,36 €
PWG2.5-32-1	32	57,50	80,00	85,00	87,50	14	55	0,139 - 0,045	94,31	519,67 €
PWG2.5-35-1	35	61,25	87,50	92,50	95,00	14	55	0,139 - 0,045	110,82	577,82 €
PWG2.5-38-1	38	65,00	95,00	100,00	102,50	14	55	0,139 - 0,045	129,53	675,42 €
PWG2.5-40-1	40	67,50	100,00	105,00	107,50	14	55	0,139 - 0,045	142,06	754,89 €
PWG2.5-42-1	42	70,00	105,00	110,00	112,50	16	65	0,139 - 0,045	157,56	844,58 €
PWG2.5-45-1	45	73,75	112,50	117,50	120,00	16	65	0,139 - 0,045	178,40	934,21 €
PWG2.5-48-1	48	77,50	120,00	125,00	127,50	16	65	0,139 - 0,045	200,93	1 034,85 €

Wheels available with 15 to 48 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated steel or stainless steel

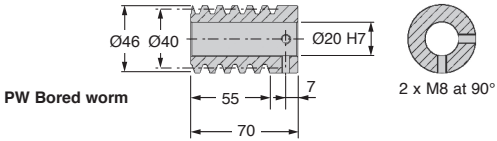
Module 3.0

Quality grade 7e25

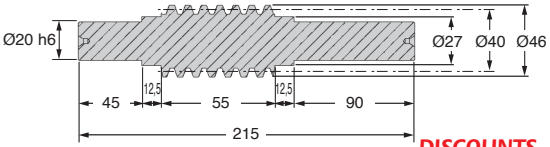
- ***Quality grade 7e25 DIN 3974***
- *Pressure angle: 20°*
- *Material:*
  Pre-treated steel 35NCD6, 28HRC
  Stainless steel 303
- *Tooth thickness conforms to DIN 3967*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Steel	Part number Stainless steel	No of starts	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
Bored worm				
PW3.0-1	PW3.0-1S	1	273,09 €	368,78 €
PW3.0-2	PW3.0-2S	2	273,09 €	368,78 €
PW3.0-3	PW3.0-3S	3	273,09 €	368,78 €
PW3.0-4	PW3.0-4S	4	273,09 €	368,78 €
Shaft worm				
PSW3.0-1	PSW3.0-1S	1	390,79 €	527,67 €
PSW3.0-2	PSW3.0-2S	2	390,79 €	527,67 €
PSW3.0-3	PSW3.0-3S	3	390,79 €	527,67 €
PSW3.0-4	PSW3.0-4S	4	390,79 €	527,67 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module

3.0

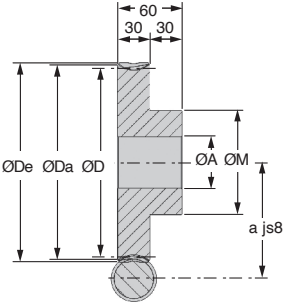
- ***Quality grade 7e25 DIN 3974***
- *Pressure angle: 20°*
- *Material: Bronze CA104 (CuAl10Ni5Fe4)*
- *Tooth thickness conforms to DIN 3967*

Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*

Info.

- *Torque figures are for 100 rpm and are given as a guide only.*
- *To order, add the number of starts on the worm to the wheel part number:*
  *e.g. worm PW3.0-**4**, wheel PWG3.0-15-**4***



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	No of teeth	a	ØD	ØDa	ØDe	Bore ØA	ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG3.0-15-1	15	42,50	45	51	54	12	35	0,117 - 0,038	33,19	315,04 €
PWG3.0-16-1	16	44,00	48	54	57	12	35	0,117 - 0,038	37,27	327,05 €
PWG3.0-17-1	17	45,50	51	57	60	12	35	0,137 - 0,048	41,57	347,53 €
PWG3.0-18-1	18	47,00	54	60	63	12	35	0,137 - 0,048	46,08	367,89 €
PWG3.0-19-1	19	48,50	57	63	66	12	35	0,137 - 0,048	51,73	388,37 €
PWG3.0-20-1	20	50,00	60	66	69	12	35	0,137 - 0,048	56,73	398,10 €
PWG3.0-21-1	21	51,50	63	69	72	14	50	0,139 - 0,045	63,06	429,28 €
PWG3.0-22-1	22	53,00	66	72	75	14	50	0,139 - 0,045	68,57	449,77 €
PWG3.0-23-1	23	54,50	69	75	78	14	50	0,139 - 0,045	74,28	464,59 €
PWG3.0-24-1	24	56,00	72	78	81	14	50	0,139 - 0,045	81,63	471,23 €
PWG3.0-25-1	25	57,50	75	81	84	14	50	0,139 - 0,045	87,85	479,40 €
PWG3.0-26-1	26	59,00	78	84	87	14	50	0,139 - 0,045	94,28	547,58 €
PWG3.0-27-1	27	60,50	81	87	90	14	50	0,139 - 0,045	101,79	586,88 €
PWG3.0-28-1	28	62,00	84	90	93	14	50	0,139 - 0,045	108,68	632,43 €
PWG3.0-29-1	29	63,50	87	93	96	16	65	0,139 - 0,045	116,77	661,89 €
PWG3.0-30-1	30	65,00	90	96	99	16	65	0,139 - 0,045	124,12	690,12 €
PWG3.0-32-1	32	68,00	96	102	105	16	65	0,139 - 0,045	139,41	816,12 €
PWG3.0-35-1	35	72,50	105	111	114	16	65	0,139 - 0,045	163,81	939,65 €
PWG3.0-38-1	38	77,00	114	120	123	16	65	0,139 - 0,045	196,49	1 060,01 €
PWG3.0-40-1	40	80,00	120	126	129	16	65	0,139 - 0,045	215,50	1 227,37 €

Wheels available with 15 to 40 teeth

Dimensions in mm

DELIVERY 24/48 H*

FREE DELIVERY FOR ORDERS 100€* OR MORE

€ VOLUME DISCOUNT

1,2,3 PRODUCTS SOLD INDIVIDUALLY

FAST QUOTES & ORDERS

FREE CATALOGUES

CAD FILES STEP, IGES...

MADE TO MEASURE AVAILABLE

MINIMUM ORDER 20€*

* Certain conditions apply - Deliveries to mainland France only

PRECISION SPUR GEAR

P. 374- 397

STAINLESS STEEL OR STEEL SPUR GEAR

GRADE 7e **p.374**

GROUND SPUR GEAR

p.388

Module 0.5

Spur gear

Pre-treated or case hardened steel

Quality grade 7e

- ***Quality grade 7e* DIN 58405 (AGMA Q10)**
- *Material :*
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- *Teeth profile conform to DIN 867*
- *Tooth thickness conforms to DIN 58405*
- *Efficiency approx 98%*

Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*
- *For **stainless steel 303**, add S at the end of the part number,*
  *For **stainless steel 316**, add SL*

Info.

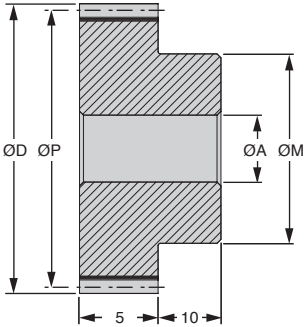
- *Torque figures are for 100 rpm and are given as a guide only*
- *Grade and tolerances measured before heat treatment.*

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG0.5-20	PSG0.5-20H	20	10,0	11,0	4	8	0,076 - 0,037	0,36	1,11	0,006	45,58 €	75,26 €
PSG0.5-21	PSG0.5-21H	21	10,5	11,5	4	8	0,077 - 0,036	0,37	1,16	0,006	46,04 €	76,04 €
PSG0.5-22	PSG0.5-22H	22	11,0	12,0	4	8	0,077 - 0,036	0,39	1,22	0,006	46,62 €	77,02 €
PSG0.5-23	PSG0.5-23H	23	11,5	12,5	4	8	0,077 - 0,036	0,41	1,27	0,006	47,17 €	77,97 €
PSG0.5-24	PSG0.5-24H	24	12,0	13,0	5	10	0,077 - 0,036	0,43	1,33	0,008	47,72 €	78,85 €
PSG0.5-25	PSG0.5-25H	25	12,5	13,5	5	10	0,087 - 0,042	0,44	1,38	0,009	48,18 €	79,66 €
PSG0.5-26	PSG0.5-26H	26	13,0	14,0	5	10	0,087 - 0,042	0,54	1,44	0,009	48,93 €	80,81 €
PSG0.5-27	PSG0.5-27H	27	13,5	14,5	5	10	0,087 - 0,042	0,57	1,50	0,009	49,44 €	81,67 €
PSG0.5-28	PSG0.5-28H	28	14,0	15,0	5	10	0,087 - 0,042	0,59	1,55	0,010	49,97 €	82,56 €
PSG0.5-29	PSG0.5-29H	29	14,5	15,5	6	13	0,087 - 0,042	0,61	1,61	0,013	50,27 €	83,01 €
PSG0.5-30	PSG0.5-30H	30	15,0	16,0	6	13	0,087 - 0,042	0,69	1,65	0,014	50,43 €	83,35 €
PSG0.5-32	PSG0.5-32H	32	16,0	17,0	6	13	0,087 - 0,042	0,74	1,76	0,015	51,68 €	85,33 €
PSG0.5-35	PSG0.5-35H	35	17,5	18,5	6	13	0,087 - 0,042	0,81	1,93	0,016	53,40 €	88,22 €
PSG0.5-38	PSG0.5-38H	38	19,0	20,0	6	17	0,089 - 0,041	0,87	2,09	0,026	55,04 €	90,94 €
PSG0.5-40	PSG0.5-40H	40	20,0	21,0	6	17	0,089 - 0,041	1,18	2,45	0,027	56,28 €	92,92 €
PSG0.5-42	PSG0.5-42H	42	21,0	22,0	6	17	0,089 - 0,041	1,24	2,57	0,028	57,27 €	94,59 €
PSG0.5-45	PSG0.5-45H	45	22,5	23,5	6	17	0,089 - 0,041	1,32	2,75	0,030	59,02 €	97,49 €
PSG0.5-48	PSG0.5-48H	48	24,0	25,0	6	17	0,089 - 0,041	1,41	2,94	0,032	61,42 €	101,29 €
PSG0.5-50	PSG0.5-50H	50	25,0	26,0	6	17	0,089 - 0,041	1,74	3,32	0,034	62,07 €	102,36 €
PSG0.5-52	PSG0.5-52H	52	26,0	27,0	6	17	0,097 - 0,046	1,81	3,45	0,035	63,00 €	103,87 €
PSG0.5-55	PSG0.5-55H	55	27,5	28,5	6	17	0,097 - 0,046	1,92	3,65	0,038	64,20 €	106,10 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	hardened	Weight (kg)	Price each 1 to 5 Standard	hardened
PSG0.5-58	PSG0.5-58H	58	29,0	30,0	6	17	0,097 - 0,046	2,02	3,85	0,040	65,54 €	108,26 €
PSG0.5-60	PSG0.5-60H	60	30,0	31,0	6	17	0,097 - 0,046	2,49	4,15	0,042	66,28 €	109,37 €
PSG0.5-62	PSG0.5-62H	62	31,0	32,0	8	20	0,098 - 0,044	2,57	4,29	0,048	67,08 €	110,70 €
PSG0.5-65	PSG0.5-65H	65	32,5	33,5	8	20	0,098 - 0,044	2,70	4,50	0,051	68,52 €	113,17 €
PSG0.5-68	PSG0.5-68H	68	34,0	35,0	8	20	0,098 - 0,044	2,82	4,70	0,054	69,01 €	113,93 €
PSG0.5-70	PSG0.5-70H	70	35,0	36,0	8	20	0,098 - 0,044	2,91	4,84	0,056	69,71 €	115,15 €
PSG0.5-72	PSG0.5-72H	72	36,0	37,0	8	20	0,098 - 0,044	2,99	4,98	0,058	70,43 €	116,22 €
PSG0.5-75	PSG0.5-75H	75	37,5	38,5	8	20	0,098 - 0,044	3,11	5,19	0,062	77,57 €	117,12 €
PSG0.5-78	PSG0.5-78H	78	39,0	40,0	8	20	0,098 - 0,044	3,24	5,40	0,065	72,03 €	118,85 €
PSG0.5-80	PSG0.5-80H	80	40,0	41,0	8	25	0,098 - 0,044	3,71	5,80	0,082	72,49 €	106,10 €
PSG0.5-82	PSG0.5-82H	82	41,0	42,0	8	25	0,098 - 0,044	3,81	5,95	0,084	73,31 €	120,98 €
PSG0.5-85	PSG0.5-85H	85	42,5	43,5	8	25	0,098 - 0,044	3,95	6,16	0,088	74,05 €	122,23 €
PSG0.5-90	PSG0.5-90H	90	45,0	46,0	8	25	0,098 - 0,044	4,18	6,53	0,095	75,26 €	124,26 €
PSG0.5-100	PSG0.5-100H	100	50,0	51,0	10	30	0,098 - 0,044	4,75	7,42	0,123	76,43 €	126,09 €
PSG0.5-120	PSG0.5-120H	120	60,0	61,0	10	35	0,111 - 0,049	5,70	8,90	0,177	92,60 €	152,79 €
PSG0.5-130	PSG0.5-130H	130	65,0	66,0	10	35	0,111 - 0,049	6,17	9,65	0,196	106,18 €	175,27 €
PSG0.5-140	PSG0.5-140H	140	70,0	71,0	10	35	0,111 - 0,049	6,65	10,39	0,217	110,66 €	182,59 €
PSG0.5-150	PSG0.5-150H	150	75,0	76,0	10	40	0,111 - 0,049	7,28	11,37	0,262	120,46 €	198,78 €
PSG0.5-200	PSG0.5-200H	200	100,0	101,0	14	50	0,113 - 0,047	9,80	15,32	0,444	148,47 €	245,04 €
PSG0.5-250	PSG0.5-250H	250	125,0	126,0	16	60	0,136 - 0,062	12,25	19,15	0,679	178,12 €	293,99 €

Dimensions in mm

Module 0.8

Spur gear

Pre-treated or case hardened steel

- ***Quality grade 7e* DIN 58405 (AGMA Q10)**
- *Material :*
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- *Teeth profile conform to DIN 867*
- *Tooth thickness conforms to DIN 58405*
- *Efficiency approx 98%*

Quality grade 7e

Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*
- *For **stainless steel 303**, add S at the end of the part number,*
  *For **stainless steel 316**, add SL*

Info.

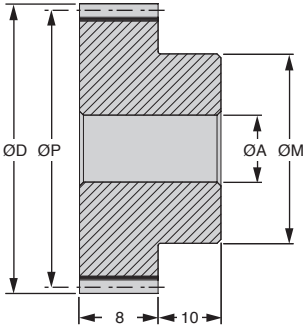
- *Torque figures are for 100 rpm and are given as a guide only*
- *Grade and tolerances measured before treatment.*

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG0.8-18	PSG0.8-18H	18	14,4	16,0	5	11	0,096 - 0,047	0,94	3,46	0,015	44,56 €	74,71 €
PSG0.8-19	PSG0.8-19H	19	15,2	16,8	5	11	0,096 - 0,047	1,00	3,65	0,016	45,29 €	75,90 €
PSG0.8-20	PSG0.8-20H	20	16,0	17,6	5	11	0,096 - 0,047	1,33	4,53	0,017	45,94 €	77,02 €
PSG0.8-21	PSG0.8-21H	21	16,8	18,4	5	12	0,096 - 0,047	1,39	4,76	0,020	47,41 €	78,20 €
PSG0.8-22	PSG0.8-22H	22	17,6	19,2	5	12	0,096 - 0,047	1,46	4,98	0,021	48,04 €	79,36 €
PSG0.8-23	PSG0.8-23H	23	18,4	20,0	5	12	0,097 - 0,046	1,53	5,21	0,023	48,28 €	79,68 €
PSG0.8-24	PSG0.8-24H	24	19,2	20,8	6	14	0,097 - 0,046	1,59	5,44	0,026	48,51 €	80,17 €
PSG0.8-25	PSG0.8-25H	25	20,0	21,6	6	14	0,097 - 0,046	1,66	5,66	0,028	50,57 €	83,50 €
PSG0.8-26	PSG0.8-26H	26	20,8	22,4	6	14	0,097 - 0,046	2,03	5,90	0,029	52,42 €	86,50 €
PSG0.8-27	PSG0.8-27H	27	21,6	23,2	6	14	0,097 - 0,046	2,11	6,13	0,031	53,40 €	88,22 €
PSG0.8-28	PSG0.8-28H	28	22,4	24,0	8	18	0,097 - 0,046	2,18	6,35	0,037	54,65 €	90,29 €
PSG0.8-29	PSG0.8-29H	29	23,2	24,8	8	18	0,097 - 0,046	2,26	6,58	0,039	56,10 €	92,60 €
PSG0.8-30	PSG0.8-30H	30	24,0	25,6	8	18	0,097 - 0,046	2,58	6,76	0,041	57,04 €	94,14 €
PSG0.8-32	PSG0.8-32H	32	25,6	27,2	8	18	0,108 - 0,052	2,75	7,21	0,045	58,48 €	96,64 €
PSG0.8-35	PSG0.8-35H	35	28,0	29,6	10	20	0,108 - 0,052	3,00	7,89	0,052	60,46 €	99,84 €
PSG0.8-38	PSG0.8-38H	38	30,4	32,0	10	20	0,109 - 0,050	3,26	8,57	0,059	63,00 €	103,93 €
PSG0.8-40	PSG0.8-40H	40	32,0	33,6	10	20	0,109 - 0,050	4,39	10,03	0,064	65,25 €	107,79 €
PSG0.8-42	PSG0.8-42H	42	33,6	35,2	10	20	0,109 - 0,050	4,61	10,53	0,069	65,75 €	108,57 €
PSG0.8-45	PSG0.8-45H	45	36,0	37,6	10	20	0,109 - 0,050	4,94	11,28	0,077	66,71 €	110,14 €
PSG0.8-48	PSG0.8-48H	48	38,4	40,0	10	30	0,109 - 0,050	5,26	12,04	0,117	67,24 €	111,05 €
PSG0.8-50	PSG0.8-50H	50	40,0	41,6	10	30	0,109 - 0,050	6,50	13,61	0,123	81,21 €	122,58 €
PSG0.8-52	PSG0.8-52H	52	41,6	43,2	10	30	0,109 - 0,050	6,76	14,15	0,129	76,48 €	126,24 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	hardened	Weight (kg)	Price each 1 to 5 Standard	hardened
PSG0.8-55	PSG0.8-55H	55	44,0	45,6	10	30	0,109 - 0,050	7,15	14,97	0,139	79,61 €	131,48 €
PSG0.8-58	PSG0.8-58H	58	46,4	48,0	10	30	0,109 - 0,050	7,54	15,78	0,150	82,05 €	135,46 €
PSG0.8-60	PSG0.8-60H	60	48,0	49,6	10	40	0,109 - 0,050	9,29	17,00	0,200	83,95 €	138,60 €
PSG0.8-62	PSG0.8-62H	62	49,6	51,2	10	40	0,109 - 0,050	9,60	17,57	0,208	86,74 €	143,21 €
PSG0.8-65	PSG0.8-65H	65	52,0	53,6	10	40	0,122 - 0,055	10,06	18,42	0,220	92,98 €	153,38 €
PSG0.8-68	PSG0.8-68H	68	54,4	56,0	10	40	0,122 - 0,055	10,52	19,27	0,233	97,69 €	161,33 €
PSG0.8-70	PSG0.8-70H	70	56,0	57,6	10	40	0,122 - 0,055	10,83	19,83	0,241	99,77 €	164,67 €
PSG0.8-72	PSG0.8-72H	72	57,6	59,2	10	40	0,122 - 0,055	11,14	20,40	0,250	101,90 €	168,23 €
PSG0.8-75	PSG0.8-75H	75	60,0	61,6	10	50	0,122 - 0,055	11,61	21,25	0,320	108,73 €	179,50 €
PSG0.8-78	PSG0.8-78H	78	62,4	64,0	10	50	0,122 - 0,055	12,07	22,10	0,334	110,35 €	182,17 €
PSG0.8-80	PSG0.8-80H	80	64,0	65,6	10	50	0,122 - 0,055	15,21	23,77	0,344	112,64 €	185,87 €
PSG0.8-82	PSG0.8-82H	82	65,6	67,2	10	50	0,122 - 0,055	15,59	24,36	0,354	114,16 €	188,54 €
PSG0.8-85	PSG0.8-85H	85	68,0	69,6	10	50	0,122 - 0,055	16,16	25,25	0,370	116,67 €	192,58 €
PSG0.8-90	PSG0.8-90H	90	72,0	73,6	10	65	0,122 - 0,055	17,11	26,74	0,504	120,41 €	198,75 €
PSG0.8-95	PSG0.8-95H	95	76,0	77,6	10	65	0,122 - 0,055	18,06	28,22	0,533	133,28 €	220,07 €
PSG0.8-100	PSG0.8-100H	100	80,0	81,6	14	65	0,122 - 0,055	19,45	30,39	0,553	135,08 €	222,99 €
PSG0.8-110	PSG0.8-110H	110	88,0	89,6	14	70	0,123 - 0,053	20,42	31,91	0,661	169,15 €	279,16 €
PSG0.8-120	PSG0.8-120H	120	96,0	97,6	14	70	0,123 - 0,053	21,40	33,43	0,733	191,29 €	315,65 €

Dimensions in mm

Module 1.0

Spur gear

Pre-treated or case hardened steel

- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Material :
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Quality grade 7e25

Options

- Alternative bores (H7)
- Keyway conforming to DIN6885 (JS9)
- Tapped hole
- Hole for dowel pin
- For **stainless steel 303**, add S at the end of the part number,
  For **stainless steel 316**, add SL

Info.

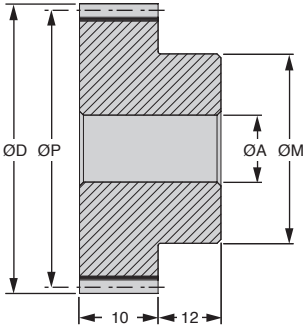
- Torque figures are for 100 rpm and are given as a guide only
- Grade and tolerances measured before heat treatment.

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG1.0-18	PSG1.0-18H	18	18	20	5	15	0,127 - 0,053	1,76	6,47	0,033	47,25 €	78,07 €
PSG1.0-19	PSG1.0-19H	19	19	21	5	15	0,128 - 0,052	1,86	6,83	0,035	48,00 €	79,22 €
PSG1.0-20	PSG1.0-20H	20	20	22	5	15	0,128 - 0,052	2,48	8,85	0,038	49,51 €	81,86 €
PSG1.0-21	PSG1.0-21H	21	21	23	5	15	0,128 - 0,052	2,60	9,29	0,040	49,90 €	82,33 €
PSG1.0-22	PSG1.0-22H	22	22	24	5	15	0,128 - 0,052	2,73	9,73	0,043	50,57 €	83,52 €
PSG1.0-23	PSG1.0-23H	23	23	25	5	15	0,128 - 0,052	2,85	10,18	0,045	50,85 €	83,88 €
PSG1.0-24	PSG1.0-24H	24	24	26	6	20	0,128 - 0,052	2,97	10,62	0,060	51,07 €	84,38 €
PSG1.0-25	PSG1.0-25H	25	25	27	6	20	0,128 - 0,052	3,10	11,06	0,063	53,23 €	87,88 €
PSG1.0-26	PSG1.0-26H	26	26	28	6	20	0,128 - 0,052	3,79	11,52	0,066	55,13 €	91,10 €
PSG1.0-27	PSG1.0-27H	27	27	29	6	20	0,128 - 0,052	3,94	11,96	0,069	56,28 €	92,92 €
PSG1.0-28	PSG1.0-28H	28	28	30	6	20	0,128 - 0,052	4,08	12,41	0,073	57,54 €	95,03 €
PSG1.0-29	PSG1.0-29H	29	29	31	8	25	0,128 - 0,052	4,23	12,85	0,089	59,02 €	97,49 €
PSG1.0-30	PSG1.0-30H	30	30	32	8	25	0,128 - 0,052	4,81	13,21	0,092	59,99 €	99,18 €
PSG1.0-32	PSG1.0-32H	32	32	34	8	25	0,129 - 0,051	5,13	14,09	0,100	61,56 €	101,61 €
PSG1.0-35	PSG1.0-35H	35	35	37	8	25	0,129 - 0,051	5,61	15,41	0,112	63,70 €	105,15 €
PSG1.0-38	PSG1.0-38H	38	38	40	10	34	0,129 - 0,051	6,09	16,73	0,160	66,28 €	109,41 €
PSG1.0-40	PSG1.0-40H	40	40	42	10	34	0,129 - 0,051	8,19	19,59	0,170	68,68 €	113,49 €
PSG1.0-42	PSG1.0-42H	42	42	44	10	34	0,129 - 0,051	8,60	20,57	0,180	69,18 €	114,34 €
PSG1.0-45	PSG1.0-45H	45	45	47	10	34	0,129 - 0,051	9,22	22,04	0,196	70,20 €	115,94 €
PSG1.0-48	PSG1.0-48H	48	48	50	10	34	0,129 - 0,051	9,83	23,51	0,213	70,78 €	116,89 €
PSG1.0-50	PSG1.0-50H	50	50	52	10	34	0,129 - 0,051	12,15	26,57	0,225	78,16 €	128,98 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG1.0-52	PSG1.0-52H	52	52	54	10	40	0,171 - 0,069	12,63	27,64	0,270	80,50 €	132,81 €
PSG1.0-55	PSG1.0-55H	55	55	57	10	40	0,171 - 0,069	13,36	29,23	0,290	83,81 €	138,35 €
PSG1.0-58	PSG1.0-58H	58	58	60	10	40	0,171 - 0,069	14,09	30,82	0,311	86,42 €	142,59 €
PSG1.0-60	PSG1.0-60H	60	60	62	10	40	0,171 - 0,069	17,35	33,20	0,325	88,37 €	145,91 €
PSG1.0-62	PSG1.0-62H	62	62	64	10	40	0,171 - 0,069	17,92	34,31	0,340	91,28 €	150,73 €
PSG1.0-65	PSG1.0-65H	65	65	67	10	50	0,171 - 0,069	18,79	35,97	0,430	97,86 €	161,48 €
PSG1.0-68	PSG1.0-68H	68	68	70	10	50	0,171 - 0,069	19,66	37,63	0,455	102,89 €	169,85 €
PSG1.0-70	PSG1.0-70H	70	70	72	10	50	0,171 - 0,069	20,24	38,73	0,472	105,00 €	173,36 €
PSG1.0-72	PSG1.0-72H	72	72	74	10	50	0,171 - 0,069	20,81	39,84	0,489	107,26 €	177,12 €
PSG1.0-75	PSG1.0-75H	75	75	77	10	50	0,171 - 0,069	21,68	41,50	0,516	114,47 €	188,93 €
PSG1.0-78	PSG1.0-78H	78	78	80	10	60	0,171 - 0,069	22,55	43,16	0,626	116,22 €	191,84 €
PSG1.0-80	PSG1.0-80H	80	80	82	10	60	0,171 - 0,069	29,61	46,42	0,645	118,57 €	195,64 €
PSG1.0-82	PSG1.0-82H	82	82	84	10	60	0,173 - 0,067	30,35	47,58	0,665	120,24 €	198,51 €
PSG1.0-85	PSG1.0-85H	85	85	87	10	60	0,173 - 0,067	31,46	49,32	0,696	122,77 €	202,68 €
PSG1.0-90	PSG1.0-90H	90	90	92	10	60	0,173 - 0,067	33,31	52,22	0,750	126,75 €	209,21 €
PSG1.0-95	PSG1.0-95H	95	95	97	10	60	0,173 - 0,067	35,16	55,12	0,807	140,33 €	231,63 €
PSG1.0-100	PSG1.0-100H	100	100	102	14	70	0,173 - 0,067	37,99	59,36	0,950	142,19 €	234,76 €
PSG1.0-110	PSG1.0-110H	110	110	112	14	70	0,173 - 0,067	41,79	65,30	1,079	178,06 €	293,87 €
PSG1.0-120	PSG1.0-120H	120	120	122	14	70	0,173 - 0,067	45,59	71,24	1,220	201,39 €	332,29 €

Dimensions in mm

Module 1.25

Spur gear

Pre-treated or case hardened steel

- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Material :
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN6885 (JS9)
- Tapped hole
- Hole for dowel pin
- For **stainless steel 303**, add S at the end of the part number,
  For **stainless steel 316**, add SL

Quality grade 7e25

Info.

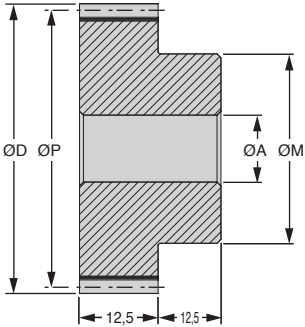
- Torque figures are for 100 rpm and are given as a guide only
- Grade and tolerances measured before heat treatment.

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG1.25-18	PSG1.25-18H	18	22,50	25,00	6	15	0,097 - 0,046	3,29	12,08	0,050	59,16 €	97,65 €
PSG1.25-19	PSG1.25-19H	19	23,75	26,25	6	15	0,097 - 0,046	3,48	12,75	0,055	59,99 €	99,18 €
PSG1.25-20	PSG1.25-20H	20	25,00	27,50	6	15	0,108 - 0,052	4,63	16,97	0,059	60,96 €	100,62 €
PSG1.25-21	PSG1.25-21H	21	26,25	28,75	8	20	0,108 - 0,052	4,86	17,82	0,073	62,89 €	103,80 €
PSG1.25-22	PSG1.25-22H	22	27,50	30,00	8	20	0,108 - 0,052	5,09	18,67	0,079	63,78 €	105,27 €
PSG1.25-23	PSG1.25-23H	23	28,75	31,25	8	20	0,108 - 0,052	5,32	19,52	0,084	64,08 €	105,76 €
PSG1.25-24	PSG1.25-24H	24	30,00	32,50	8	22	0,108 - 0,052	5,55	20,36	0,096	64,44 €	106,31 €
PSG1.25-25	PSG1.25-25H	25	31,25	33,75	8	22	0,109 - 0,050	5,79	21,21	0,102	67,08 €	110,78 €
PSG1.25-26	PSG1.25-26H	26	32,50	35,00	8	22	0,109 - 0,050	7,08	22,50	0,108	69,49 €	114,71 €
PSG1.25-27	PSG1.25-27H	27	33,75	36,25	8	22	0,109 - 0,050	7,35	23,37	0,114	70,98 €	117,07 €
PSG1.25-28	PSG1.25-28H	28	35,00	37,50	8	25	0,109 - 0,050	7,62	24,23	0,132	72,49 €	119,68 €
PSG1.25-29	PSG1.25-29H	29	36,25	38,75	8	25	0,109 - 0,050	7,90	25,10	0,138	74,41 €	122,89 €
PSG1.25-30	PSG1.25-30H	30	37,50	40,00	8	25	0,109 - 0,050	8,98	25,80	0,145	75,66 €	124,91 €
PSG1.25-32	PSG1.25-32H	32	40,00	42,50	8	25	0,109 - 0,050	9,58	27,52	0,160	77,60 €	128,15 €
PSG1.25-35	PSG1.25-35H	35	43,75	46,25	10	30	0,109 - 0,050	10,48	30,10	0,200	80,27 €	132,50 €
PSG1.25-38	PSG1.25-38H	38	47,50	50,00	10	30	0,109 - 0,050	11,38	32,68	0,226	83,52 €	137,85 €
PSG1.25-40	PSG1.25-40H	40	50,00	52,50	10	30	0,120 - 0,057	15,31	38,26	0,245	86,59 €	142,94 €
PSG1.25-42	PSG1.25-42H	42	52,50	55,00	10	30	0,122 - 0,055	16,07	40,17	0,264	87,27 €	143,99 €
PSG1.25-45	PSG1.25-45H	45	56,25	58,75	10	30	0,122 - 0,055	17,22	43,04	0,296	88,51 €	146,12 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG1.25-48	PSG1.25-48H	48	60,00	62,50	10	40	0,122 - 0,055	18,37	45,91	0,383	89,22 €	147,36 €
PSG1.25-50	PSG1.25-50H	50	62,50	65,00	10	40	0,122 - 0,055	22,69	51,90	0,407	98,55 €	162,64 €
PSG1.25-52	PSG1.25-52H	52	65,00	67,50	10	40	0,122 - 0,055	23,60	53,98	0,431	101,44 €	167,50 €
PSG1.25-55	PSG1.25-55H	55	68,75	71,25	10	40	0,122 - 0,055	24,96	57,09	0,469	105,67 €	174,42 €
PSG1.25-58	PSG1.25-58H	58	72,50	75,00	10	40	0,122 - 0,055	26,32	60,20	0,510	108,84 €	179,66 €
PSG1.25-60	PSG1.25-60H	60	75,00	77,50	10	50	0,122 - 0,055	32,40	64,85	0,608	111,38 €	183,86 €
PSG1.25-62	PSG1.25-62H	62	77,50	80,00	10	50	0,122 - 0,055	33,48	67,01	0,637	115,09 €	189,92 €
PSG1.25-65	PSG1.25-65H	65	81,25	83,75	10	50	0,123 - 0,053	35,10	70,25	0,683	123,27 €	203,55 €
PSG1.25-68	PSG1.25-68H	68	85,00	87,50	10	50	0,123 - 0,053	36,72	73,49	0,731	129,67 €	213,98 €
PSG1.25-70	PSG1.25-70H	70	87,50	90,00	10	50	0,123 - 0,053	37,80	75,65	0,764	132,31 €	217,95 €
PSG1.25-72	PSG1.25-72H	72	90,00	92,50	10	50	0,123 - 0,053	38,88	77,82	0,798	135,26 €	223,15 €
PSG1.25-75	PSG1.25-75H	75	93,75	96,25	10	60	0,123 - 0,053	40,50	81,06	0,935	144,29 €	238,07 €
PSG1.25-78	PSG1.25-78H	78	97,50	100,00	10	60	0,123 - 0,053	42,12	84,30	0,991	146,40 €	241,68 €
PSG1.25-80	PSG1.25-80H	80	100,00	102,50	10	60	0,138 - 0,064	55,30	90,66	1,029	149,39 €	246,60 €
PSG1.25-82	PSG1.25-82H	82	102,50	105,00	10	60	0,138 - 0,064	56,68	92,92	1,067	151,54 €	250,05 €
PSG1.25-85	PSG1.25-85H	85	106,25	108,75	10	60	0,138 - 0,064	58,75	96,32	1,128	154,79 €	255,47 €
PSG1.25-90	PSG1.25-90H	90	112,50	115,00	10	65	0,138 - 0,064	62,21	101,99	1,281	159,77 €	263,71 €
PSG1.25-95	PSG1.25-95H	95	118,75	121,25	10	65	0,138 - 0,064	65,67	107,66	1,392	176,86 €	291,90 €
PSG1.25-100	PSG1.25-100H	100	125,00	127,50	14	65	0,140 - 0,062	74,20	115,95	1,494	179,21 €	295,78 €
PSG1.25-110	PSG1.25-110H	110	137,50	140,00	14	70	0,140 - 0,062	77,92	121,74	1,798	224,39 €	370,33 €
PSG1.25-120	PSG1.25-120H	120	150,00	152,50	14	70	0,140 - 0,062	81,63	127,54	2,075	253,79 €	418,72 €

Dimensions in mm

Module 1.5

Spur gear

Pre-treated or case hardened steel

- ***Quality grade 7e25 DIN 3961 (AGMA Q10)***
- *Material :*
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- *Teeth conform to DIN 867*
- *Tooth thickness conforms to DIN 3967*
- *Efficiency approx 98%*

Quality grade 7e25

Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*
- *For **stainless steel 303**, add S at the end of the part number,*
  *For **stainless steel 316**, add SL*

Info.

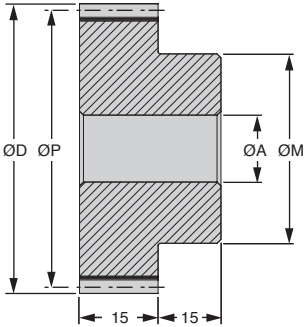
- *Torque figures are for 100 rpm and are given as a guide only*
- *Grade and tolerances measured before heat treatment.*

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG1.5-18	PSG1.5-18H	18	27,0	30,0	6	22	0,128 - 0,052	5,49	20,13	0,105	61,95 €	102,27 €
PSG1.5-19	PSG1.5-19H	19	28,5	31,5	6	22	0,128 - 0,052	5,79	21,24	0,112	64,30 €	106,13 €
PSG1.5-20	PSG1.5-20H	20	30,0	33,0	6	22	0,128 - 0,052	7,71	28,28	0,120	67,54 €	111,49 €
PSG1.5-21	PSG1.5-21H	21	31,5	34,5	8	25	0,129 - 0,051	8,10	29,69	0,137	68,08 €	112,41 €
PSG1.5-22	PSG1.5-22H	22	33,0	36,0	8	25	0,129 - 0,051	8,48	31,10	0,145	68,90 €	113,70 €
PSG1.5-23	PSG1.5-23H	23	34,5	37,5	8	25	0,129 - 0,051	8,87	32,52	0,155	70,13 €	115,77 €
PSG1.5-24	PSG1.5-24H	24	36,0	39,0	8	25	0,129 - 0,051	9,25	33,93	0,164	70,78 €	116,89 €
PSG1.5-25	PSG1.5-25H	25	37,5	40,5	8	25	0,129 - 0,051	9,64	35,34	0,174	74,54 €	122,96 €
PSG1.5-26	PSG1.5-26H	26	39,0	42,0	8	25	0,129 - 0,051	11,79	38,88	0,185	78,03 €	128,79 €
PSG1.5-27	PSG1.5-27H	27	40,5	43,5	8	25	0,129 - 0,051	12,25	40,38	0,196	80,50 €	132,81 €
PSG1.5-28	PSG1.5-28H	28	42,0	45,0	8	25	0,129 - 0,051	12,70	41,87	0,207	82,78 €	136,63 €
PSG1.5-29	PSG1.5-29H	29	43,5	46,5	10	35	0,129 - 0,051	13,15	43,37	0,268	84,10 €	138,79 €
PSG1.5-30	PSG1.5-30H	30	45,0	48,0	10	35	0,129 - 0,051	14,97	44,58	0,280	86,59 €	142,90 €
PSG1.5-32	PSG1.5-32H	32	48,0	51,0	10	35	0,129 - 0,051	15,97	47,55	0,306	89,53 €	147,84 €
PSG1.5-35	PSG1.5-35H	35	52,5	55,5	10	35	0,171 - 0,069	17,46	52,01	0,347	92,41 €	152,46 €
PSG1.5-38	PSG1.5-38H	38	57,0	60,0	12	45	0,171 - 0,069	18,96	56,47	0,458	101,23 €	167,09 €
PSG1.5-40	PSG1.5-40H	40	60,0	63,0	12	45	0,171 - 0,069	25,50	66,12	0,490	105,27 €	173,78 €
PSG1.5-42	PSG1.5-42H	42	63,0	66,0	12	45	0,171 - 0,069	26,78	69,42	0,524	105,76 €	174,62 €
PSG1.5-45	PSG1.5-45H	45	67,5	70,5	12	45	0,171 - 0,069	28,69	74,38	0,578	108,07 €	178,36 €
PSG1.5-48	PSG1.5-48H	48	72,0	75,0	12	45	0,171 - 0,069	30,60	79,34	0,636	115,44 €	190,54 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG1.5-50	PSG1.5-50H	50	75,0	78,0	14	55	0,171 - 0,069	37,80	89,68	0,760	129,09 €	213,03 €
PSG1.5-52	PSG1.5-52H	52	78,0	81,0	14	55	0,171 - 0,069	39,31	93,27	0,802	135,66 €	223,83 €
PSG1.5-55	PSG1.5-55H	55	82,5	85,5	14	55	0,173 - 0,067	41,58	98,65	0,868	139,01 €	229,51 €
PSG1.5-58	PSG1.5-58H	58	87,0	90,0	14	55	0,173 - 0,067	43,85	104,03	0,939	142,19 €	234,76 €
PSG1.5-60	PSG1.5-60H	60	90,0	93,0	14	55	0,173 - 0,067	53,98	112,05	0,987	143,53 €	236,92 €
PSG1.5-62	PSG1.5-62H	62	93,0	96,0	14	55	0,173 - 0,067	55,78	115,79	1,038	146,38 €	241,61 €
PSG1.5-65	PSG1.5-65H	65	97,5	100,5	14	55	0,173 - 0,067	58,48	121,39	1,117	151,92 €	250,70 €
PSG1.5-68	PSG1.5-68H	68	102,0	105,0	16	65	0,173 - 0,067	61,18	127,00	1,300	161,08 €	265,95 €
PSG1.5-70	PSG1.5-70H	70	105,0	108,0	16	65	0,173 - 0,067	62,98	130,73	1,357	166,92 €	275,46 €
PSG1.5-72	PSG1.5-72H	72	108,0	111,0	16	65	0,173 - 0,067	64,78	134,47	1,416	176,47 €	291,15 €
PSG1.5-75	PSG1.5-75H	75	112,5	115,5	16	65	0,173 - 0,067	67,48	140,07	1,507	188,09 €	310,45 €
PSG1.5-78	PSG1.5-78H	78	117,0	120,0	16	65	0,173 - 0,067	70,17	145,67	1,602	198,19 €	327,17 €
PSG1.5-80	PSG1.5-80H	80	120,0	123,0	16	65	0,173 - 0,067	92,13	156,66	1,668	205,60 €	339,26 €
PSG1.5-82	PSG1.5-82H	82	123,0	126,0	16	65	0,175 - 0,065	94,44	160,57	1,735	215,01 €	354,74 €

Dimensions in mm

Module 2.0

Spur gear

Pre-treated or case hardened steel

- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Material :
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Quality grade 7e25

Options

- Alternative bores (H7)
- Keyway conforming to DIN6885 (JS9)
- Tapped hole
- Hole for dowel pin
- For **stainless steel 303**, add S at the end of the part number,
  For **stainless steel 316**, add SL

Info.

- Torque figures are for 100 rpm and are given as a guide only
- Grade and tolerances measured before heat treatment.

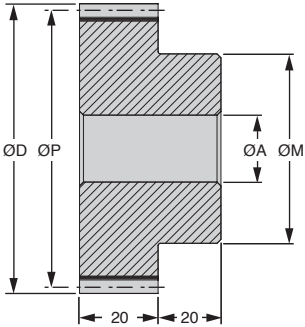
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG2.0-18	PSG2.0-18H	18	36	40	10	30	0,129 - 0,051	12,28	45,04	0,244	93,11 €	153,72 €
PSG2.0-19	PSG2.0-19H	19	38	42	10	30	0,129 - 0,051	12,97	47,54	0,262	95,23 €	157,22 €
PSG2.0-20	PSG2.0-20H	20	40	44	10	30	0,129 - 0,051	17,26	63,28	0,281	97,18 €	160,43 €
PSG2.0-21	PSG2.0-21H	21	42	46	12	35	0,129 - 0,051	18,12	66,44	0,330	99,77 €	164,69 €
PSG2.0-22	PSG2.0-22H	22	44	48	12	35	0,129 - 0,051	18,98	69,60	0,351	101,29 €	167,31 €
PSG2.0-23	PSG2.0-23H	23	46	50	12	35	0,129 - 0,051	19,85	72,77	0,373	103,48 €	170,79 €
PSG2.0-24	PSG2.0-24H	24	48	52	12	35	0,129 - 0,051	20,71	75,93	0,396	105,71 €	174,52 €
PSG2.0-25	PSG2.0-25H	25	50	54	12	35	0,129 - 0,051	21,57	79,09	0,420	111,68 €	184,28 €
PSG2.0-26	PSG2.0-26H	26	52	56	12	35	0,171 - 0,069	26,39	92,17	0,445	115,22 €	190,15 €
PSG2.0-27	PSG2.0-27H	27	54	58	12	35	0,171 - 0,069	27,41	95,71	0,471	119,33 €	196,99 €
PSG2.0-28	PSG2.0-28H	28	56	60	12	35	0,171 - 0,069	28,42	99,26	0,498	121,93 €	201,22 €

Dimensions in mm

Module 2.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG2.0-29	PSG2.0-29H	29	58	62	14	45	0,171 - 0,069	29,44	102,80	0,612	124,95 €	206,25 €
PSG2.0-30	PSG2.0-30H	30	60	64	14	45	0,171 - 0,069	33,50	105,67	0,640	127,75 €	210,78 €
PSG2.0-32	PSG2.0-32H	32	64	68	14	45	0,171 - 0,069	35,73	112,71	0,701	138,74 €	228,97 €
PSG2.0-35	PSG2.0-35H	35	70	74	14	45	0,171 - 0,069	39,08	123,28	0,799	153,12 €	252,75 €
PSG2.0-38	PSG2.0-38H	38	76	80	14	45	0,171 - 0,069	42,43	133,85	0,907	168,09 €	252,75 €
PSG2.0-40	PSG2.0-40H	40	80	84	16	55	0,171 - 0,069	57,07	156,72	1,092	175,19 €	277,43 €
PSG2.0-42	PSG2.0-42H	42	84	88	16	55	0,173 - 0,067	59,93	164,56	1,172	180,55 €	289,14 €
PSG2.0-45	PSG2.0-45H	45	90	94	16	55	0,173 - 0,067	64,21	176,31	1,300	188,46 €	298,00 €
PSG2.0-48	PSG2.0-48H	48	96	100	16	55	0,173 - 0,067	68,49	188,06	1,437	202,94 €	334,86 €
PSG2.0-50	PSG2.0-50H	50	100	104	20	65	0,173 - 0,067	84,59	212,58	1,646	217,27 €	358,52 €
PSG2.0-52	PSG2.0-52H	52	104	108	20	65	0,173 - 0,067	87,98	221,08	1,746	225,27 €	371,85 €
PSG2.0-55	PSG2.0-55H	55	110	114	20	65	0,173 - 0,067	93,05	233,84	1,903	254,43 €	419,89 €
PSG2.0-58	PSG2.0-58H	58	116	120	20	65	0,173 - 0,067	98,13	246,59	2,070	269,84 €	445,32 €
PSG2.0-60	PSG2.0-60H	60	120	124	20	65	0,173 - 0,067	120,80	265,61	2,186	276,67 €	456,64 €
PSG2.0-62	PSG2.0-62H	62	124	128	20	65	0,175 - 0,065	124,83	274,46	2,306	283,47 €	467,70 €

Dimensions in mm

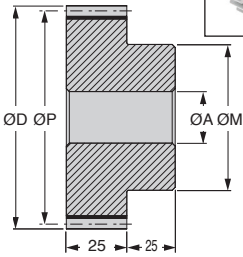
Module 2.5

Spur gear

Pre-treated or case hardened steel

Quality grade 7e25

- ***Quality grade 7e25 DIN 3961 (AGMA Q10)***
- *Material :*
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- *Teeth conform to DIN 867*
- *Tooth thickness conforms to DIN 3967*
- *Efficiency approx 98%*



Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*
- *For stainless steel 303, add S at the end of the part number,*
  For stainless steel 316, add SL

Info.

- *Torque figures are for 100 rpm and are given as a guide only*
- *Grade and tolerances measured before heat treatment.*

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG2.5-18	PSG2.5-18H	18	45,0	50,0	14	35	0,129 - 0,051	22,94	84,12	0,437	125,29 €	206,86 €
PSG2.5-19	PSG2.5-19H	19	47,5	52,5	14	35	0,129 - 0,051	24,22	88,80	0,472	128,73 €	212,37 €
PSG2.5-20	PSG2.5-20H	20	50,0	55,0	14	35	0,129 - 0,051	32,23	118,19	0,509	133,37 €	220,15 €
PSG2.5-21	PSG2.5-21H	21	52,5	57,5	14	35	0,171 - 0,069	33,85	124,10	0,548	136,63 €	225,44 €
PSG2.5-22	PSG2.5-22H	22	55,0	60,0	14	35	0,171 - 0,069	35,46	130,01	0,589	141,54 €	233,65 €
PSG2.5-23	PSG2.5-23H	23	57,5	62,5	16	45	0,171 - 0,069	37,07	135,92	0,737	145,10 €	239,46 €
PSG2.5-24	PSG2.5-24H	24	60,0	65,0	16	45	0,171 - 0,069	38,68	141,83	0,781	149,39 €	246,46 €
PSG2.5-25	PSG2.5-25H	25	62,5	67,5	16	45	0,171 - 0,069	40,29	147,74	0,828	157,46 €	259,87 €
PSG2.5-26	PSG2.5-26H	26	65,0	70,0	16	45	0,171 - 0,069	49,30	180,01	0,877	165,44 €	273,05 €
PSG2.5-27	PSG2.5-27H	27	67,5	72,5	16	45	0,171 - 0,069	51,20	186,94	0,927	168,97 €	278,81 €
PSG2.5-28	PSG2.5-28H	28	70,0	75,0	16	45	0,171 - 0,069	53,09	193,86	0,980	173,36 €	286,01 €
PSG2.5-29	PSG2.5-29H	29	72,5	77,5	18	55	0,171 - 0,069	54,99	200,78	1,168	179,01 €	295,45 €
PSG2.5-30	PSG2.5-30H	30	75,0	80,0	18	55	0,171 - 0,069	62,57	206,38	1,224	185,12 €	305,55 €
PSG2.5-32	PSG2.5-32H	32	80,0	85,0	18	55	0,171 - 0,069	66,74	220,14	1,342	196,34 €	324,03 €
PSG2.5-35	PSG2.5-35H	35	87,5	92,5	18	55	0,173 - 0,067	73,00	240,78	1,535	207,97 €	343,26 €
PSG2.5-38	PSG2.5-38H	38	95,0	100,0	20	70	0,173 - 0,067	79,26	261,42	2,010	228,66 €	377,29 €
PSG2.5-40	PSG2.5-40H	40	100,0	105,0	20	70	0,173 - 0,067	106,60	306,09	2,159	237,68 €	392,21 €
PSG2.5-42	PSG2.5-42H	42	105,0	110,0	20	70	0,173 - 0,067	111,93	321,40	2,316	247,09 €	407,82 €
PSG2.5-45	PSG2.5-45H	45	112,5	117,5	20	70	0,173 - 0,067	119,93	344,36	2,566	255,84 €	422,23 €
PSG2.5-48	PSG2.5-48H	48	120,0	125,0	20	70	0,173 - 0,067	127,92	367,31	2,833	274,08 €	452,32 €
PSG2.5-50	PSG2.5-50H	50	125,0	130,0	20	70	0,175 - 0,065	158,01	415,19	3,021	289,25 €	477,38 €

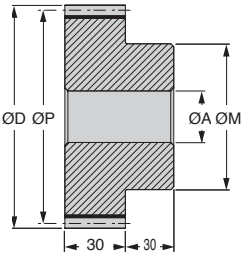
Dimensions in mm

Spur gear

Pre-treated or case hardened steel

Module 3.0

- ***Quality grade 7e25 DIN 3961 (AGMA Q10)***
- *Material :*
  Pre-treated steel 35NCD6, 28HRC
  Case hardened steel 20NCD2 58HRC
- *Teeth conform to DIN 867*
- *Tooth thickness conforms to DIN 3967*
- *Efficiency approx 98%*



Options

- *Alternative bores (H7)*
- *Keyway conforming to DIN6885 (JS9)*
- *Tapped hole*
- *Hole for dowel pin*
- *For stainless steel 303, add S at the end of the part number,*
  For stainless steel 316, add SL

Info.

- *Torque figures are for 100 rpm and are given as a guide only*
- *Grade and tolerances measured before heat treatment.*

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

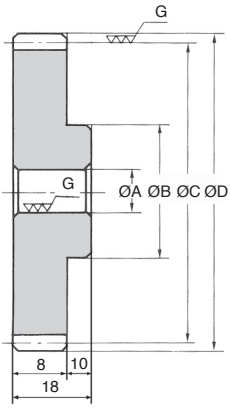
Part number Standard	Part number Hardened	Z Teeth	ØP PCD	ØD Outside	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 hardened
PSG3.0-18	PSG3.0-18H	18	54	60	14	45	0,171 - 0,069	38,23	140,16	0,835	111,19 €	183,51 €
PSG3.0-19	PSG3.0-19H	19	57	63	14	45	0,171 - 0,069	40,35	147,95	0,896	115,37 €	190,45 €
PSG3.0-20	PSG3.0-20H	20	60	66	14	45	0,171 - 0,069	53,71	196,92	0,960	119,19 €	196,64 €
PSG3.0-21	PSG3.0-21H	21	63	69	16	55	0,171 - 0,069	56,39	206,77	1,190	123,08 €	203,11 €
PSG3.0-22	PSG3.0-22H	22	66	72	16	55	0,171 - 0,069	59,08	216,61	1,261	127,28 €	210,11 €
PSG3.0-23	PSG3.0-23H	23	69	75	16	55	0,171 - 0,069	61,76	226,46	1,335	131,34 €	216,83 €
PSG3.0-24	PSG3.0-24H	24	72	78	16	55	0,171 - 0,069	64,45	236,31	1,412	135,12 €	222,99 €
PSG3.0-25	PSG3.0-25H	25	75	81	16	55	0,171 - 0,069	67,13	246,15	1,493	143,31 €	236,51 €
PSG3.0-26	PSG3.0-26H	26	78	84	16	55	0,171 - 0,069	82,14	301,17	1,577	151,54 €	250,11 €
PSG3.0-27	PSG3.0-27H	27	81	87	16	55	0,173 - 0,067	85,30	312,76	1,664	155,19 €	256,13 €
PSG3.0-28	PSG3.0-28H	28	84	90	16	55	0,173 - 0,067	88,46	324,34	1,755	159,42 €	263,19 €
PSG3.0-29	PSG3.0-29H	29	87	93	18	70	0,173 - 0,067	91,62	335,93	2,171	165,97 €	273,96 €
PSG3.0-30	PSG3.0-30H	30	90	96	18	70	0,173 - 0,067	104,25	356,63	2,268	172,02 €	283,84 €
PSG3.0-32	PSG3.0-32H	32	96	102	18	70	0,173 - 0,067	111,20	380,40	2,473	184,54 €	304,54 €
PSG3.0-35	PSG3.0-35H	35	105	111	18	70	0,173 - 0,067	121,63	416,07	2,805	213,74 €	352,79 €
PSG3.0-38	PSG3.0-38H	38	114	120	18	70	0,173 - 0,067	132,05	451,73	3,167	229,45 €	378,61 €
PSG3.0-40	PSG3.0-40H	40	120	126	18	70	0,173 - 0,067	177,62	528,93	3,425	235,86 €	389,24 €

Dimensions in mm

Module 1.0

Heat treated steel

- ***Ground spur gear, precision JIS B1702 grade 3***
- *Pressure angle 20°*
- *Material: steel S45C*
- *Tooth surfaces induction hardened*
- *Surface hardness 48-53HRC*
- *Datum reference surface for teeth grinding: bore*



DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG1-15	15	15	17	12	6	0,08-0,16	0,02	111,80 €
GG1-16	16	16	18	13	6	0,08-0,16	0,02	115,36 €
GG1-17	17	17	19	14	6	0,08-0,16	0,02	119,01 €
GG1-18	18	18	20	15	6	0,08-0,16	0,03	121,74 €
GG1-19	19	19	21	16	6	0,08-0,16	0,03	126,24 €
GG1-20	20	20	22	17	6	0,08-0,16	0,03	127,55 €
GG1-21	21	21	23	18	8	0,08-0,16	0,04	131,16 €
GG1-22	22	22	24	18	8	0,08-0,16	0,04	133,50 €
GG1-23	23	23	25	20	8	0,08-0,16	0,04	138,41 €
GG1-24	24	24	26	20	8	0,08-0,16	0,05	142,51 €

Dimensions in mm

DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG1-25	25	25	27	20	8	0,08-0,16	0,05	145,63 €
GG1-26	26	26	28	20	8	0,08-0,16	0,05	149,21 €
GG1-27	27	27	29	20	8	0,08-0,16	0,05	152,41 €
GG1-28	28	28	30	20	8	0,08-0,16	0,06	155,56 €
GG1-29	29	29	31	25	8	0,08-0,16	0,07	162,36 €
GG1-30	30	30	32	25	10	0,08-0,16	0,07	164,59 €
GG1-32	32	32	34	25	10	0,08-0,16	0,08	167,24 €
GG1-34	34	34	36	25	10	0,08-0,16	0,08	174,04 €
GG1-35	35	35	37	25	10	0,08-0,16	0,09	177,62 €
GG1-36	36	36	38	25	10	0,08-0,16	0,09	181,24 €
GG1-38	38	38	40	30	10	0,08-0,16	0,12	187,57 €
GG1-40	40	40	42	30	10	0,08-0,16	0,12	191,63 €
GG1-42	42	42	44	30	10	0,08-0,16	0,13	198,35 €
GG1-44	44	44	46	30	10	0,08-0,16	0,14	201,59 €
GG1-45	45	45	47	30	10	0,08-0,16	0,15	206,59 €
GG1-48	48	48	50	30	10	0,08-0,16	0,16	221,86 €
GG1-50	50	50	52	35	12	0,08-0,16	0,18	229,59 €
GG1-55	55	55	57	35	12	0,10-0,18	0,21	250,34 €
GG1-56	56	56	58	35	12	0,10-0,18	0,22	253,45 €
GG1-60	60	60	62	40	12	0,10-0,18	0,26	271,02 €
GG1-64	64	64	66	40	12	0,10-0,18	0,29	290,94 €
GG1-70	70	70	72	40	12	0,10-0,18	0,32	313,96 €
GG1-75	75	75	77	40	12	0,10-0,18	0,36	335,60 €
GG1-80	80	80	82	50	15	0,10-0,18	0,45	359,50 €
GG1-90	90	90	92	50	15	0,10-0,18	0,53	403,31 €
GG1-100	100	100	102	50	15	0,10-0,18	0,63	452,97 €
GG1-120	120	120	122	50	15	0,12-0,20	0,84	552,92 €

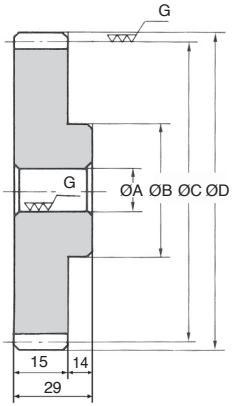
Dimensions in mm

Ste ★★★★

Module 1.5

Heat treated steel

- ***Ground spur gear, precision JIS B1702 grade 3***
- *Pressure angle 20°*
- *Material: steel S45C*
- *Tooth surfaces induction hardened*
- *Surface hardness 48-53HRC*
- *Datum reference surface for teeth grinding: bore*



DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG1.5-14	14	21,0	24,0	17	10	0,08-0,16	0,06	120,26 €
GG1.5-15	15	22,5	25,5	18	10	0,08-0,16	0,07	122,09 €
GG1.5-16	16	24,0	27,0	20	10	0,08-0,16	0,08	128,53 €
GG1.5-17	17	25,5	28,5	21	10	0,08-0,16	0,08	131,31 €
GG1.5-18	18	27,0	30,0	22	10	0,08-0,16	0,10	134,49 €
GG1.5-19	19	28,5	31,5	23	10	0,08-0,16	0,10	143,18 €
GG1.5-20	20	30,0	33,0	24	10	0,08-0,16	0,13	147,41 €
GG1.5-21	21	31,5	34,5	25	10	0,08-0,16	0,13	151,51 €
GG1.5-22	22	33,0	36,0	26	12	0,08-0,16	0,15	154,16 €
GG1.5-23	23	34,5	37,5	27	12	0,08-0,16	0,15	159,16 €

Dimensions in mm

DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

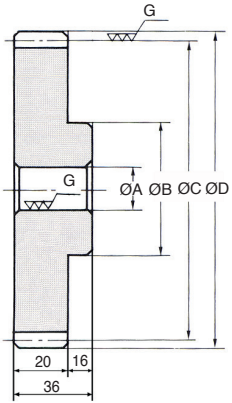
Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG1.5-24	24	36,0	39,0	28	12	0,08-0,16	0,18	164,59 €
GG1.5-25	25	37,5	40,5	30	12	0,08-0,16	0,20	174,04 €
GG1.5-26	26	39,0	42,0	32	12	0,08-0,16	0,20	175,94 €
GG1.5-27	27	40,5	43,5	34	15	0,08-0,16	0,21	179,52 €
GG1.5-28	28	42,0	45,0	36	15	0,08-0,16	0,25	180,81 €
GG1.5-29	29	43,5	46,5	37	15	0,08-0,16	0,25	182,16 €
GG1.5-30	30	45,0	48,0	38	15	0,08-0,16	0,29	184,47 €
GG1.5-32	32	48,0	51,0	40	15	0,08-0,16	0,33	196,62 €
GG1.5-34	34	51,0	54,0	42	15	0,08-0,18	0,35	206,12 €
GG1.5-35	35	52,5	55,5	42	15	0,08-0,18	0,39	207,91 €
GG1.5-36	36	54,0	57,0	45	15	0,08-0,18	0,43	210,15 €
GG1.5-38	38	57,0	60,0	45	15	0,08-0,18	0,44	219,53 €
GG1.5-40	40	60,0	63,0	50	15	0,08-0,18	0,53	228,22 €
GG1.5-42	42	63,0	66,0	50	15	0,08-0,18	0,54	240,62 €
GG1.5-44	44	66,0	69,0	50	15	0,08-0,18	0,58	251,17 €
GG1.5-45	45	67,5	70,5	50	18	0,10-0,18	0,61	256,73 €
GG1.5-48	48	72,0	75,0	50	18	0,10-0,18	0,67	273,73 €
GG1.5-50	50	75,0	78,0	60	18	0,10-0,18	0,80	281,52 €
GG1.5-55	55	82,5	85,5	60	18	0,10-0,18	0,92	309,50 €
GG1.5-56	56	84,0	87,0	60	18	0,10-0,18	0,92	314,60 €
GG1.5-60	60	90,0	93,0	60	20	0,10-0,18	1,00	341,70 €
GG1.5-64	64	96,0	99,0	60	20	0,10-0,18	1,10	374,31 €
GG1.5-70	70	105,0	108,0	60	20	0,12-0,20	1,30	400,48 €
GG1.5-75	75	112,5	115,5	60	20	0,12-0,20	1,40	436,78 €
GG1.5-80	80	120,0	123,0	70	20	0,12-0,20	1,70	470,38 €
GG1.5-90	90	135,0	138,0	70	20	0,12-0,20	2,00	544,31 €
GG1.5-100	100	150,0	153,0	70	20	0,12-0,20	2,40	647,70 €

Dimensions in mm

Module 2.0

Heat treated steel

- ***Ground spur gear, precision JIS B1702 grade 3***
- *Pressure angle 20°*
- *Material: steel S45C*
- *Tooth surfaces induction hardened*
- *Surface hardness 48-53HRC*
- *Datum reference surface for teeth grinding: bore*



DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG2-14	14	28	32	22	12	0,10-0,20	0,10	144,56 €
GG2-15	15	30	34	24	12	0,10-0,20	0,18	150,10 €
GG2-16	16	32	36	26	12	0,10-0,20	0,18	155,18 €
GG2-17	17	34	38	28	12	0,10-0,20	0,19	162,05 €
GG2-18	18	36	40	30	12	0,10-0,20	0,25	167,58 €
GG2-19	19	38	42	31	12	0,10-0,20	0,24	171,73 €
GG2-20	20	40	44	32	15	0,10-0,20	0,31	172,66 €
GG2-21	21	42	46	34	15	0,10-0,20	0,28	173,54 €
GG2-22	22	44	48	36	15	0,10-0,20	0,38	178,14 €
GG2-23	23	46	50	37	15	0,10-0,20	0,35	186,43 €

Dimensions in mm

DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

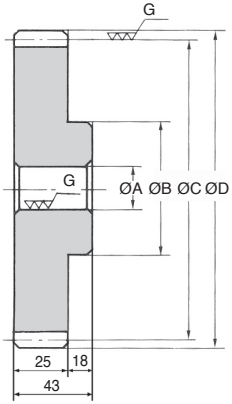
Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG2-24	24	48	52	38	15	0,10-0,20	0,45	190,54 €
GG2-25	25	50	54	40	15	0,10-0,20	0,49	191,94 €
GG2-26	26	52	56	42	15	0,12-0,22	0,46	203,89 €
GG2-27	27	54	58	44	15	0,12-0,22	0,50	205,71 €
GG2-28	28	56	60	45	15	0,12-0,22	0,61	212,56 €
GG2-29	29	58	62	48	15	0,12-0,22	0,59	214,46 €
GG2-30	30	60	64	50	18	0,12-0,22	0,67	219,53 €
GG2-32	32	64	68	50	18	0,12-0,22	0,74	227,82 €
GG2-34	34	68	72	50	18	0,12-0,22	0,75	243,37 €
GG2-35	35	70	74	50	18	0,12-0,22	0,84	259,76 €
GG2-36	36	72	76	50	18	0,12-0,22	0,88	262,67 €
GG2-38	38	76	80	50	18	0,12-0,22	0,89	280,60 €
GG2-40	40	80	84	60	20	0,12-0,22	1,10	307,93 €
GG2-42	42	84	88	60	20	0,12-0,22	1,10	317,37 €
GG2-44	44	88	92	60	20	0,12-0,22	1,20	335,76 €
GG2-45	45	90	94	60	20	0,12-0,22	1,30	345,64 €
GG2-48	48	96	100	60	20	0,12-0,22	1,50	393,23 €
GG2-50	50	100	104	60	25	0,12-0,22	1,60	406,49 €
GG2-55	55	110	114	60	25	0,14-0,24	1,70	448,27 €
GG2-56	56	112	116	60	25	0,14-0,24	1,80	456,21 €
GG2-60	60	120	124	65	25	0,14-0,24	2,20	498,45 €
GG2-64	64	128	132	65	25	0,14-0,24	2,30	546,29 €
GG2-70	70	140	144	70	25	0,14-0,24	2,90	601,88 €
GG2-75	75	150	154	70	25	0,14-0,24	3,10	669,79 €
GG2-80	80	160	164	80	25	0,14-0,24	3,80	740,29 €
GG2-90	90	180	184	80	25	0,14-0,24	4,50	876,71 €
GG2-100	100	200	204	80	25	0,14-0,24	5,40	987,34 €

Dimensions in mm

Module 2.5

Heat treated steel

- ***Ground spur gear, precision JIS B1702 grade 3***
- *Pressure angle 20°*
- *Material: steel S45C*
- *Tooth surfaces induction hardened*
- *Surface hardness 48-53HRC*
- *Datum reference surface for teeth grinding: bore*



DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG2.5-14	14	35,0	40,0	28	15	0,10-0,20	0,28	160,33 €
GG2.5-15	15	37,5	42,5	30	15	0,10-0,20	0,33	167,39 €
GG2.5-16	16	40,0	45,0	32	15	0,10-0,20	0,38	179,57 €
GG2.5-17	17	42,5	47,5	35	15	0,10-0,20	0,36	185,25 €
GG2.5-18	18	45,0	50,0	38	15	0,10-0,20	0,50	195,64 €
GG2.5-19	19	47,5	52,5	39	15	0,10-0,20	0,46	204,11 €
GG2.5-20	20	50,0	55,0	40	18	0,10-0,20	0,55	218,75 €
GG2.5-21	21	52,5	57,5	42	18	0,12-0,22	0,54	223,96 €
GG2.5-22	22	55,0	60,0	44	18	0,12-0,22	0,60	236,21 €
GG2.5-23	23	57,5	62,5	46	18	0,12-0,22	0,66	242,80 €

Dimensions in mm

DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

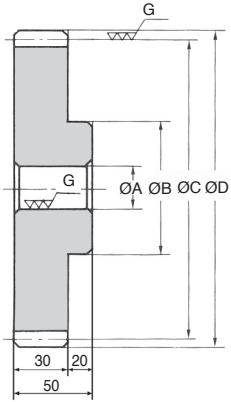
Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG2.5-24	24	60,0	65,0	48	18	0,12-0,22	0,81	255,06 €
GG2.5-25	25	62,5	67,5	50	20	0,12-0,22	0,93	263,61 €
GG2.5-26	26	65,0	70,0	54	20	0,12-0,22	0,87	278,28 €
GG2.5-27	27	67,5	72,5	56	20	0,12-0,22	0,94	284,38 €
GG2.5-28	28	70,0	75,0	60	20	0,12-0,22	1,20	297,11 €
GG2.5-29	29	72,5	77,5	60	20	0,12-0,22	1,10	305,59 €
GG2.5-30	30	75,0	80,0	65	20	0,12-0,22	1,30	320,18 €
GG2.5-32	32	80,0	85,0	70	20	0,12-0,22	1,50	353,88 €
GG2.5-34	34	85,0	90,0	70	20	0,12-0,22	1,60	377,95 €
GG2.5-35	35	87,5	92,5	70	20	0,12-0,22	1,70	383,86 €
GG2.5-36	36	90,0	95,0	70	20	0,12-0,22	1,80	405,96 €
GG2.5-38	38	95,0	100,0	70	20	0,12-0,22	1,80	433,52 €
GG2.5-40	40	100,0	105,0	70	25	0,14-0,24	2,10	451,73 €
GG2.5-42	42	105,0	110,0	75	25	0,14-0,24	2,20	482,32 €
GG2.5-44	44	110,0	115,0	75	25	0,14-0,24	2,30	497,50 €
GG2.5-45	45	112,5	117,5	75	25	0,14-0,24	2,60	505,92 €
GG2.5-48	48	120,0	125,0	75	25	0,14-0,24	2,80	544,79 €
GG2.5-50	50	125,0	130,0	80	25	0,14-0,24	3,10	577,81 €
GG2.5-55	55	137,5	142,5	80	25	0,14-0,24	3,50	634,41 €
GG2.5-56	56	140,0	145,0	80	25	0,14-0,24	3,60	650,11 €
GG2.5-60	60	150,0	155,0	80	25	0,14-0,24	4,20	716,07 €
GG2.5-70	70	175,0	180,0	80	25	0,14-0,24	5,30	894,82 €
GG2.5-75	75	187,5	192,5	90	25	0,14-0,24	6,20	984,43 €
GG2.5-80	80	200,0	205,0	90	25	0,14-0,24	6,90	1 100,03 €

Dimensions in mm

Module 3.0

Heat treated steel

- ***Ground spur gear, precision JIS B1702 grade 3***
- *Pressure angle 20°*
- *Material: steel S45C*
- *Tooth surfaces induction hardened*
- *Surface hardness 48-53HRC*
- *Datum reference surface for teeth grinding: bore*



DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG3-14	14	42	48	34	16	0,10-0,20	0,51	196,19 €
GG3-15	15	45	51	36	16	0,10-0,20	0,58	217,41 €
GG3-16	16	48	54	38	16	0,10-0,20	0,66	226,33 €
GG3-17	17	51	57	37	16	0,12-0,22	0,57	234,19 €
GG3-18	18	54	60	40	16	0,12-0,22	0,80	246,96 €
GG3-19	19	57	63	45	16	0,12-0,22	0,77	262,72 €
GG3-20	20	60	66	50	20	0,12-0,22	0,98	274,61 €
GG3-21	21	63	69	52	20	0,12-0,22	0,94	292,33 €
GG3-22	22	66	72	54	20	0,12-0,22	1,20	300,64 €
GG3-23	23	69	75	56	20	0,12-0,22	1,10	318,35 €

Dimensions in mm

DISCOUNTS

Qty	1+	2+	3+
Disc.	List	-20%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each
GG3-24	24	72	78	58	20	0,12-0,22	1,40	325,22 €
GG3-25	25	75	81	60	20	0,12-0,22	1,50	340,00 €
GG3-26	26	78	84	62	20	0,12-0,22	1,50	364,19 €
GG3-27	27	81	87	65	20	0,12-0,22	1,60	370,95 €
GG3-28	28	84	90	70	20	0,12-0,22	2,00	387,77 €
GG3-29	29	87	93	70	20	0,12-0,22	1,90	398,64 €
GG3-30	30	90	96	75	25	0,12-0,22	2,20	419,80 €
GG3-32	32	96	102	75	25	0,12-0,22	2,40	454,71 €
GG3-34	34	102	108	75	25	0,14-0,24	2,40	537,41 €
GG3-35	35	105	111	80	25	0,14-0,24	2,90	546,47 €
GG3-36	36	108	114	80	25	0,14-0,24	3,00	558,72 €
GG3-38	38	114	120	80	25	0,14-0,24	3,00	600,90 €
GG3-40	40	120	126	80	25	0,14-0,24	3,50	632,89 €
GG3-42	42	126	132	80	25	0,14-0,24	3,50	678,13 €
GG3-44	44	132	138	80	25	0,14-0,24	3,80	700,56 €
GG3-45	45	135	141	80	25	0,14-0,24	4,20	731,45 €
GG3-48	48	144	150	85	25	0,14-0,24	5,30	804,08 €
GG3-50	50	150	156	85	30	0,14-0,24	5,60	830,14 €
GG3-55	55	165	171	90	30	0,14-0,24	5,90	1 003,42 €
GG3-56	56	168	174	90	30	0,14-0,24	6,00	1 012,58 €
GG3-60	60	180	186	100	30	0,14-0,24	7,40	1 130,66 €
GG3-70	70	210	216	100	30	0,14-0,24	9,10	1 410,92 €
GG3-75	75	225	231	100	30	0,14-0,24	10,30	1 584,72 €
GG3-80	80	240	246	100	30	0,14-0,24	11,60	1 740,95 €

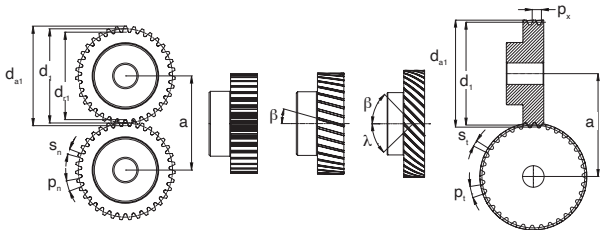
Dimensions in mm

Spur and helical gears

Description	Symbol	Unit	Formula for spur gears	Equation for helical gears
Normal module	m_n			
Transverse module	m_t		$= m_n$	$= m_n / \cos \beta$
Axial module	m_x		-	$= m_n / \sin \beta$
Pressure Angle	α_n	degrees	20°	20°
Transverse Pressure Angle	α_t	degrees	$= \alpha_n$	$= \tan^{-1} (\tan \alpha_n / \cos \beta)$
Helix angle	β	degrees	0°	15° ou 45°
Lead angle	λ	degrees	-	90-β
Number of teeth	Z			
Profile shift coefficient	x		0 as standard	0 as standard
Addendum	h_a	mm	$1.m_n$	$1.m_n$
Dedendum	h_f	mm	$1.25m_n$	$1.25m_n$
Tooth depth	h	mm	$2.25m_n$	$2.25m_n$
Gear ratio	R		$= Z_2 / Z_1$	$= Z_2 / Z_1$
Centre distance	a	mm	$= (d_1+d_2) / 2$	$= (d_1+d_2) / 2$
Pitch Circle Diameter	d	mm	$= Z.m_n$	$= Z.m_n=(Z.m_n) / \cos \beta$
Tip diameter	d_a	mm	$= d + (2m_n.x) + (2m_n)$	$= d + (2m_n.x) + (2m_n)$
Root diameter	d_r	mm	$= d_a - (2.h)$	$= d_a - (2.h)$
Normal pitch	p_n	mm	$= \pi.m_n$	$= \pi.m_n$
Transverse pitch	p_t		-	$= \pi.m_t =(\pi.m_n) / \cos \beta$
Axial pitch	p_x		-	$= \pi.m_x =(\pi.m_n) / \sin \beta$
Normal tooth thickness in pitch circle	s_n	mm	$= (p_n/2) + 2m_n.x.\tan \alpha_t$	$= (p_n/2) + 2m_n.x.\tan \alpha_n$
Transversal tooth thickness in pitch circle	s_t	mm	-	$= (p_t/2) + 2m_n.x.\tan \alpha_t$

When working with a pair of gears the subscripts 1 & 2 denote the input (drive) and the output (driven) gear.
Tip diameter is the theoretical diameter of the gear without tooth thickness tolerance applied.
For s_n & s_t when à x=0, this is the theoretical tooth thickness. Actual tooth thickness will be less.
The subscript e is for upper allowance values and i for lower allowance values.
A 15° right handed helical gear must be used with a 15° left handed helical gear.
A 45° right handed helical gear must be used with a 45° left handed helical gear.

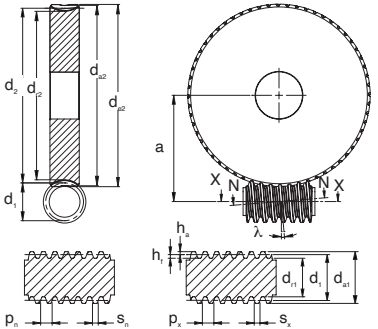
Precision parallel helical gears have a helix angle of 15° and are not compatible with the standard range SH which has a helix angle of 17°45'.



Worms and wheels

Description	Symbol	Unit	Formulae
Axial module	m_x		
Normal module	m_n		$= m_x \cdot \sin \lambda$
Normal pressure angle	α_n	degrees	$= \tan^{-1} (\tan \alpha n / \cos \lambda)$
Transverse pressure angle	αt	degrees	20°
Lead angle	λ	degrees	$= \tan^{-1} ((m_x \cdot Z_1) / d_2)$
Helix angle	β	degrees	$90 - \lambda$
Number of starts on worm	Z_1		
Number of starts on wheel	Z_2		
Profile shift coefficient	X		0 as standard
Addendum	h_a	mm	$1.m_x$
Dedendum	h_f	mm	$1.25m_x$
Tooth depth	h	mm	$2.25m_x$
Gear ratio	R		$= Z_2 / Z_1$
Centre distance	a	mm	$= (d_1+d_2) / 2$
Reference diameter of worm	d_1	mm	$(m_x.Z_1) / \tan \lambda$
Reference diameter of wheel	d_2	mm	$= Z_2.mx$
Tip diameter of worm	d_{a1}	mm	$= d_1 + (2m_x)$
Root diameter of worm	d_{r1}	mm	$= d_{a1} - (2.h)$
Tip diameter of wheel	d_{a2}	mm	$= d_2 + (2m_x)$
Root diameter of wheel	d_{r2}	mm	$= d_{a2} - (2.h)$
Outside diameter of wheel	d_{r2}	mm	$= d_{a2} + m_x$
Normal pitch	p_n	mm	$= \pi.m_n$
Axial pitch	p_x	mm	$= \pi.m_x$
Normal tooth thickness in pitch circle	s_n	mm	$= s_x.\cos \lambda$
Transversal tooth thickness in pitch circle	s_t	mm	$= (p_x/2) + 2m_x.x.\tan \alpha_t$

Tip diameter is the theoretical diameter of the gear without tooth thickness tolerance applied.
For s_n & s_x when x = zero, this is the theoretical tooth thickness. Actual tooth thickness will be less.



Efficiency

Efficiency

The following formulae allows an approximate value for the efficiency of a worm/wheel pair to calculated. The efficiency is dependent on the type of lubrication used (these figures are based on use of mineral oil) and do not take into account bearing, seal and other losses.

$\eta = \tan \lambda / \tan (\lambda + pz)$
$pz = \arctan (\mu)$
$v_s = (d_1 . n_1) / (19098 . \tan \lambda)$
$T_1' = (T_2 / u) * \eta$

T_1 = Input torque (Nm)
T_2 = Output torque (Nm)
R = Ratio
η = Efficiency
λ = Lead angle (degrees)
μ = Coefficient of friction
pz = Angle of friction
v_s = Sliding speed (m/s)
n_1 = Rotational speed of worm (rpm)
d_1 = Pitch diameter of worm (mm)

Speed (m/s)	μ for speeds 0-30m/s									
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.0-0.9	0.1500	0.0803	0.0694	0.0623	0.0583	0.0543	0.0521	0.0500	0.0480	0.0459
1.0-1.9	0.0438	0.0423	0.0410	0.0396	0.0382	0.0369	0.0359	0.0352	0.0344	0.0336
2.0-2.9	0.0329	0.0322	0.0316	0.0309	0.0304	0.0297	0.0293	0.0289	0.0286	0.0280
3.0-3.9	0.0276	0.0272	0.0268	0.0265	0.0261	0.0257	0.0254	0.0251	0.0248	0.0245
4.0-4.9	0.0242	0.0239	0.0236	0.0234	0.0232	0.0229	0.0226	0.0224	0.0223	0.0221
5.0-5.9	0.0219	0.0217	0.0215	0.0214	0.0212	0.0210	0.0209	0.0207	0.0205	0.0203
6.0-6.9	0.0202	0.0200	0.0199	0.0197	0.0196	0.0194	0.0193	0.0192	0.0190	0.0189
7.0-7.9	0.0187	0.0186	0.0185	0.0184	0.0183	0.0182	0.0181	0.0179	0.0178	0.0177
8.0-8.9	0.0176	0.0175	0.0174	0.0173	0.0173	0.0172	0.0172	0.0170	0.0169	0.0169
9.0-9.9	0.0169	0.0168	0.0166	0.0166	0.0164	0.0164	0.0164	0.0163	0.0162	0.0162
10.0-10.9	0.0161	0.0160	0.0159	0.0159	0.0159	0.0158	0.0157	0.0156	0.0156	0.0156
11.0-11.9	0.0155	0.0154	0.0154	0.0153	0.0153	0.0152	0.0151	0.0151	0.0150	0.0150
12.0-12.9	0.0149	0.0149	0.0149	0.0148	0.0148	0.0147	0.0147	0.0147	0.0146	0.0146
13.0-13.9	0.0146	0.0146	0.0146	0.0145	0.0145	0.0144	0.0144	0.0144	0.0144	0.0144
14.0-14.9	0.0143	0.0143	0.0143	0.0142	0.0142	0.0142	0.0142	0.0142	0.0141	0.0141
15.0-15.9	0.0141	0.0141	0.0141	0.0140	0.0140	0.0139	0.0139	0.0139	0.0139	0.0139
16.0-16.9	0.0139	0.0138	0.0138	0.0138	0.0138	0.0138	0.0137	0.0137	0.0137	0.0137
17.0-17.9	0.0137	0.0136	0.0136	0.0136	0.0136	0.0136	0.0135	0.0135	0.0135	0.0135
18.0-18.9	0.0135	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134
19.0-19.9	0.0134	0.0133	0.0133	0.0133	0.0133	0.0133	0.0132	0.0132	0.0132	0.0132
20.0-20.9	0.0132	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131
21.0-21.9	0.0131	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130
22.0-22.9	0.0130	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129
23.0-23.9	0.0129	0.0129	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
24.0-24.9	0.0128	0.0128	0.0127	0.0127	0.0127	0.0127	0.0127	0.0127	0.0127	0.0127
25.0-25.9	0.0127	0.0127	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126
26.0-26.9	0.0126	0.0126	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
27.0-27.9	0.0125	0.0125	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124
28.0-28.9	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0123	0.0123
29.0-29.9	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123
30.0	0.0123	-	-	-	-	-	-	-	-	-

Backlash

The backlash figures given for spur, helical and crossed axis helical gears is the theoretical backlash for two identical gears at a standard centre distance according to the ISO 286.
It is given as circumferential backlash in mm measured on pitch circle diameter. An upper and a standard lower value are given.
Theoretical backlash is the difference between tooth thickness without and with tolerance applied. Backlash is calculated according to DIN 3967

Tooth thickness tolerance

Gear type	Module 0.5 to 0,8	Module 1.0 to 3.0	Centre distance tolerance
Spur	7e/8e DIN 58405	e25 DIN 3967	Js7
Spur (skive hobbed)	6e DIN 58405	e25 DIN 3967	Js7
Pinion	7e DIN 58405	e25 DIN 3967	-
Parallel helical	7e DIN 58405	e25 DIN 3967	Js7
Crossed axis helical	7e DIN 58405	e25 DIN 3967	Js8
Worm + wheel	7e/8e DIN 58405	e25 DIN 3967	Js8

Gear type	Module 0.6 to 4.0
Bevel	7f24 DIN 3965/3967

A_{sn} : *Tooth thickness allowance which is the difference between measured gear tooth thickness and theoretical value measured in the normal section. When working with a pair of gears the subscripts 1 & 2 denote the input (drive) and the output (driven) gear.*
For worm and wheel, 1 relates to the worm and 2 to the wheel.
The subscript e is for upper allowance and i for lower allowance.
T_{sn} : *Tooth thickness tolerance measured in the normal section. (mm)*

$$A_{sne} = S_n - S_{ne} \qquad A_{sni} = A_{sne} - T_{sn} = S_n - S_{ni}$$

Circumferential backlash jt

This is the length of arc on the pitch circle diameter through which each can be rotated whilst the other is held stationary. It is measured in the transverse section. Units are mm and degrees

$$j_t = \frac{A_{sn1} + A_{sn2}}{\cos\beta} + \Delta j_a$$

Normal Backlash jn

This is the shortest distance between the flanks of the gears when the opposite flanks are in contact. It is measured in the transverse section. Units are mm and degrees
For spur, helical, crossed axis helical gears:

$$j_n = j_t \bullet \cos\alpha_n \bullet \cos\beta$$

Backlash

Change in circumferential backlash due to centre distance tolerance ΔJ_a

Units = mm and degrees

$$\Delta j_a = 2 \bullet As \bullet \frac{\tan \alpha_n}{\cos \beta}$$

Spur gear		Parallel helical gear		Crossed axis helical gear	
Deviation from centre distance A_S	Change in backlash ΔJ_a	Deviation from centre distance A_S	Change in backlash ΔJ_a	Deviation from centre distance A_S	Change in backlash ΔJ_a
0,001	0,001	0,001	0,001	0,001	0,001
0,010	0,007	0,010	0,008	0,010	0,010
0,015	0,011	0,015	0,011	0,015	0,015
0,020	0,015	0,020	0,015	0,020	0,021
0,025	0,018	0,025	0,019	0,025	0,026
0,030	0,022	0,030	0,023	0,030	0,031
0,035	0,025	0,035	0,026	0,035	0,036
0,040	0,029	0,040	0,030	0,040	0,041
0,045	0,033	0,045	0,034	0,045	0,046
0,050	0,036	0,050	0,038	0,050	0,051

Angular Backlash

Units = mm and degrees

$$j_\theta = \frac{360 \times j_t}{\pi \times d_2}$$

d_2 = *Reference diameter (mm)*

A_s = *Centre distance tolerance (i.e. a = 30mm JS7, As = ±0.0105mm)*

α_n = *Normal pressure angle (α_n = 20°)*

β = *Helix angle (β = zero for spur gears)*

Replace helix angle β with lead angle λ for worm and wheel.

1° = *60 arc minutes*

e25 DIN 3967

Reference diameter		Upper tooth thickness allowance	Tooth thickness allowance
From	To	A_{sne}	T_{sn}
-	10	-0.022mm	0.020mm
10	50	-0.030mm	0.030mm
50	125	-0.040mm	0.040mm
125	280	-0.056mm	0.050mm

e7 DIN 58405

Refence diameter d (mm)	Normal module m_n	Upper tooth thickness allowance A_{sne}	Upper tooth thickness allowance T_{sn}
De 3 to 6	Since 0.16 to 0.25	0.028	0.011
	Since 0.25 to 0.6	0.030	0.012
	Since 0.6 to 1.6	0.035	0.014
> 6 to 12	Since 0.16 to 0.25	0.030	0.012
	Since 0.25 to 0.6	0.035	0.014
	Since 0.6 to 1.6	0.040	0.016
> 12 to 25	Since 0.16 to 0.25	0.035	0.014
	Since 0.25 to 0.6	0.040	0.016
	Since 0.6 to 1.6	0.045	0.018
	Since 1.6 to 3	0.050	0.020
> 25 to 50	Since 0.16 to 0.25	0.040	0.016
	Since 0.25 to 0.6	0.045	0.018
	Since 0.6 to 1.6	0.050	0.020
	Since 1.6 to 3	0.055	0.022
> 50 to 100	Since 0.16 to 0.25	0.045	0.012
	Since 0.25 to 0.6	0.050	0.018
	Since 0.6 to 1.6	0.055	0.020
	Since 1.6 to 3	0.063	0.022
> 100 to 200	Since 0.6 to 1.6	0.063	0.024
	Since 1.6 to 3	0.070	0.029
> 200 to 400	Since 0.6 to 1.6	0.070	0.029
	Since 1.6 to 3	0.080	0.032

Backlash

Example of calculating the backlash for two non-identical gears

Input (Driving) gear: PSG0.5-20 7e
Ouput (Driven) gear: PSG0.5-40 7e

1• *Calculate the reference diameter d for each gear*
PSG0.5-20 d_r = z * m_n = 10.00mm
PSG0.5-40 d_r = 20.00mm

2• *Find* A_{sne} *and* T_{sn} *from the tables on previous page*
PSG0.5-20 A_{sne} = -0.035mm T_{sn} = -0.014mm
PSG0.5-40 A_{sne} = -0.040mm T_{sn} = -0.016mm

3• *Calculate* A_{sn} *for each gear*
PSG0.5-20 A_{sn} = A_{sne} - T_{sn} = -0.035-0.014 = -0.021mm
PSG0.5-40 A_{sn} = A_{sne} - T_{sn} = -0.040-0.016 = -0.024mm

4• *Calculate the centre distance of the two gears and the centre distance tolerance*
centre distance = (10 + 20) / 2 = 15mm
JS7 = 0,009mm

5• *Calculate the change in backlash due to centre distance*

$$j_a = 2 \bullet A_s \bullet \frac{\tan \alpha_n}{\cos \beta} + 2 \bullet 0.009 \bullet \frac{\tan 20}{\cos 0} = 0.007 \text{ mm}$$

6• *Calculate the maximum backlash (Remove the minus sign on* A_{sn}*)*

$$j_t = \frac{A_{sni\ 1} + A_{sni\ 2}}{\cos \beta} + \Delta j_a = \frac{0.035 + 0.040}{\cos 0} + 0.007 = 0.082 \text{ mm}$$

7• *Calculate the minimum backlash (Remove the minus sign on* A_{sn}*)*

$$j_t = \frac{A_{sne\ 1} + A_{sne\ 2}}{\cos \beta} + \Delta j_a = \frac{0.021 + 0.024}{\cos 0} - 0.007 = 0.038 \text{ mm}$$

8• *Convert to angular backlash*

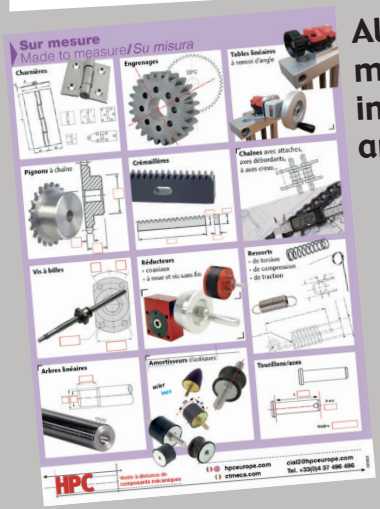
$$j_\theta = \frac{360 \times j_t}{\pi \times d_2} \ 1° = 60 \text{ arc minutes}$$

j_θ = 28.208 à 13.072 arc minutes

Request our guide

MADE TO MEASURE MECHANICAL PARTS

sur HPCEUROPE.COM



All your pieces made to measure, individually or in small and medium series!

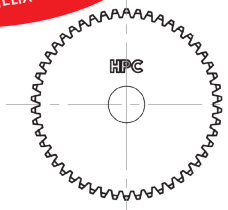
GUIDE FREE

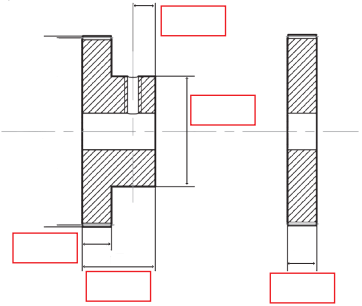
MADE TO MEASURE

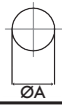
GEARS – PLEASE FILL IN THE DETAILS

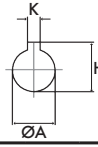
Please complete this form and return it to us!
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055

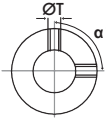
For helical gears, please do not forget to specify the HELIX ANGLE

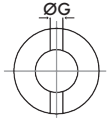












Bore	Keyway			Threaded hole			Pin hole
ØA	ØA	K	H	ØT	Qty	α°	ØG

Module		Material	
N° of teeth		Heat treatment	
Pressure angle		Hardness	
Helix angle		Quantity	

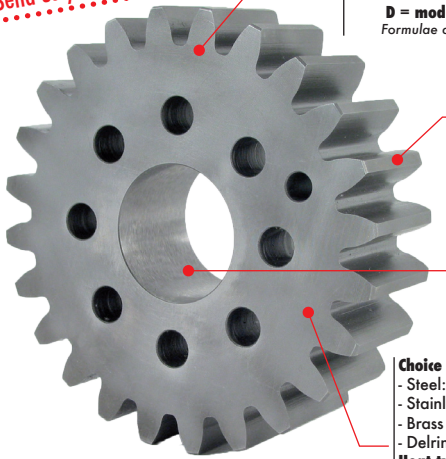
MADE TO MEASURE

GEARS

1. SMALL CHANGES: Find the Part N° of the standard part (from the catalogue or website) and specify the modification(s) required (bore, keyway....)
2. CHANGES TO DIMENSIONS: Please complete the form opposite
3. CUSTOM MADE PART: Please send us your drawing(s)

A FACE requires machining?
Need a PRECISION gear?
Send us your drawings!

Modules from 0.4 to 8
A reminder for spur gears:
Z = No of teeth
P = Pitch Circle Diameter
P = module x Z
D = External diameter
D = module x (Z+2)
Formulae do not apply for helical gears



Alternative teeth widths

Modifications to the bore, keyway or tapped hole

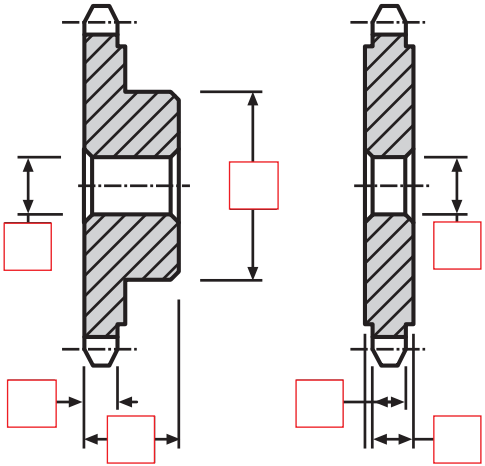
Choice of material:
- Steel: 35 NCD6, 20NCD2
- Stainless steel: 303, 304L, 316L
- Brass CuZn40Pb3
- Delrin, Nylon

Heat treatment:
20NCD2: Case hardened 57-62 HRc, 35NCD6: Through hardened 45-50 HRc

EXAMPLES OF GEARS ALREADY SUPPLIED

CHAIN SPROCKETS
PLEASE FILL IN THE DETAILS

Please complete this form and return it to us!
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055



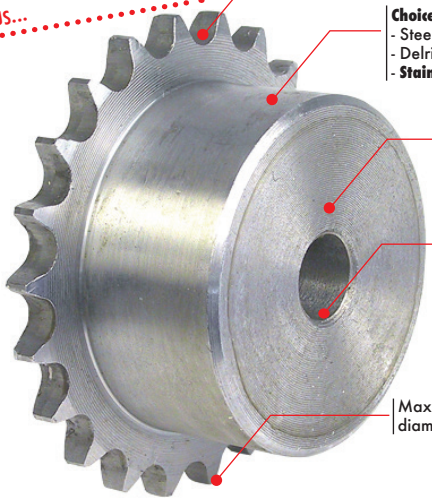
SPROCKET CHARACTERISTICS			
Pitch		Keyway	
N° of teeth		Tapped hole	
Ø PCD		Material	
Ø external		Treatment	
Quantity		Other:	

MADE TO MEASURE

CHAIN SPROCKETS

1. SMALL CHANGES: Find the Part N° of the standard part (from the catalogue or website) and specify the modification(s) required (bore, keyway....)
2. CHANGES TO DIMENSIONS: Please complete the form opposite
3. CUSTOM MADE PART: Please send us your drawing(s)

Made to measure versions of SIMPLEX, DUPLEX OR TRIPLEX sprockets are available!
Contact us...

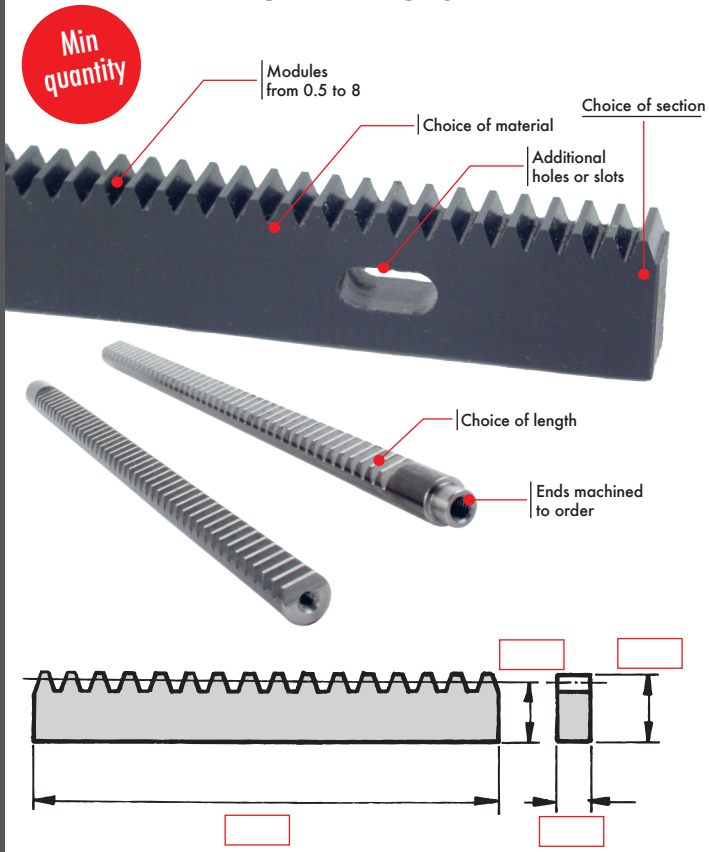


DID YOU KNOW?
A system built using sprockets and chains must be kept under tension and correctly lubricated. Please do not forget to include a chain tensioner in your system.

Contact our technical support team for more information

MADE TO MEASURE

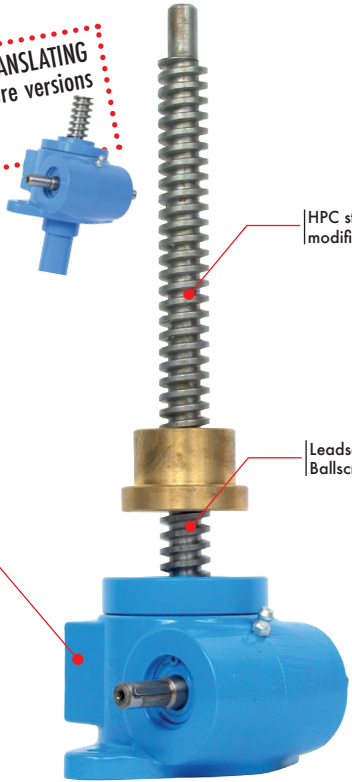
GEAR RACKS



MADE TO MEASURE

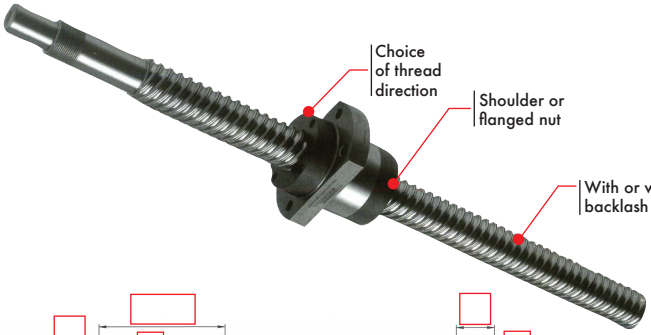
SCREW JACKS

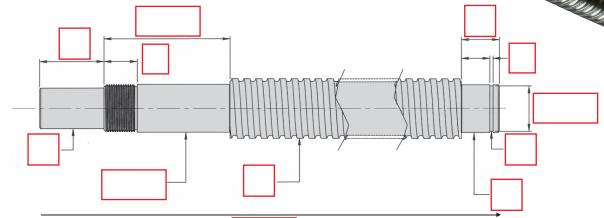
ROTATING screw or TRANSLATING screw, made to measure versions are available!
Contact-us....

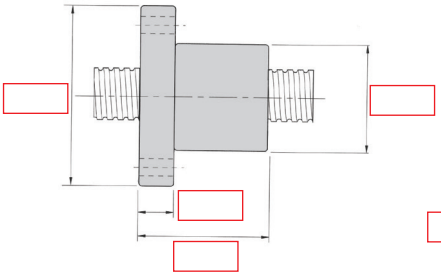


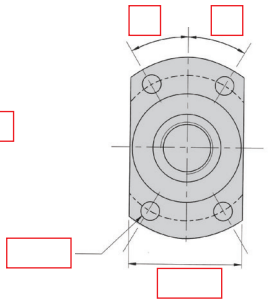
Need a custom built version?
Send us your design specification

BALLSCREWS


Choice
of thread
direction
Shoulder or
flanged nut
With or without
backlash





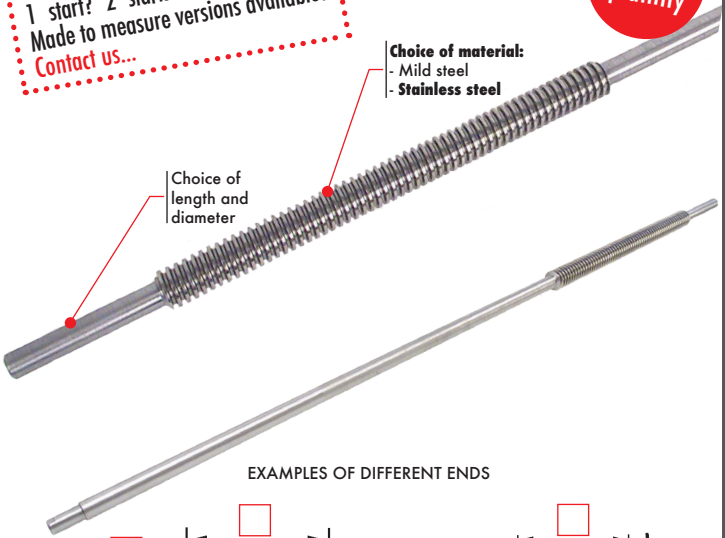


MADE TO MEASURE

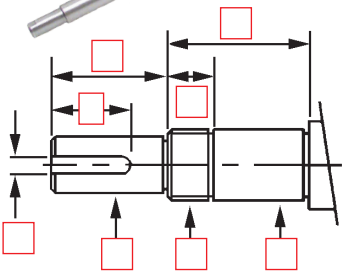
TRAPEZOIDAL LEADSCREWS

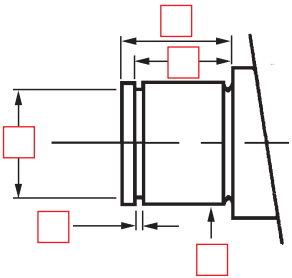
1 start? 2 starts? BI-DIRECTIONAL?
Made to measure versions available!
Contact us...

Min quantity



EXAMPLES OF DIFFERENT ENDS

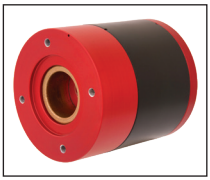




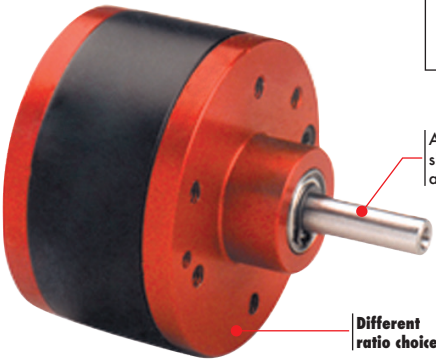
MADE TO MEASURE

INLINE GEAR REDUCERS

Send us details of your requirements, specifications and special requirements...
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055



Adapted for use with a motor



HPC offers a wide choice of different made to measure gear reducers

- epicyclical
- bevel
- worm wheel
- inline spur gear
- double reduction
- offset

DID YOU KNOW?
GREASE FILLING
HPC gear reducers are greased for life and are maintenance free.

Contact our technical support team for more information

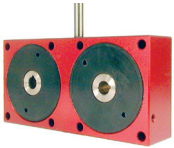
*Ask us for the ratio you require

MADE TO MEASURE

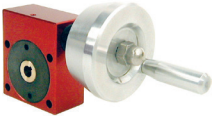
WORM WHEEL GEAR REDUCERS

From 1+>

EXAMPLES OF REDUCERS BUILT TO ORDER

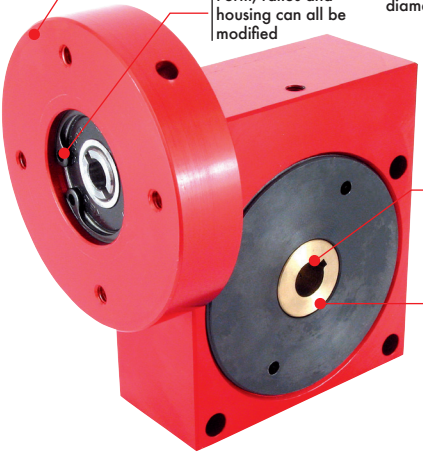


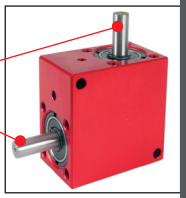
- A single input (worm)
- Dual outputs (2 wheels)
- Housing manufactured to order



- Modified input shaft
- Addition of aluminium hand wheel

- Rotating output table
- Input shaft on one side only

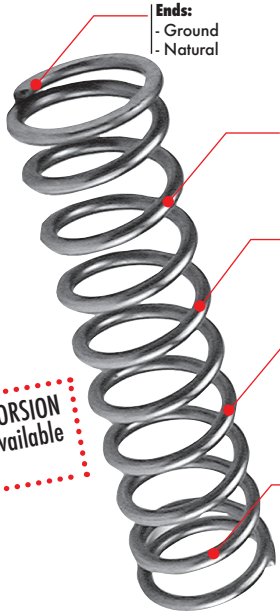




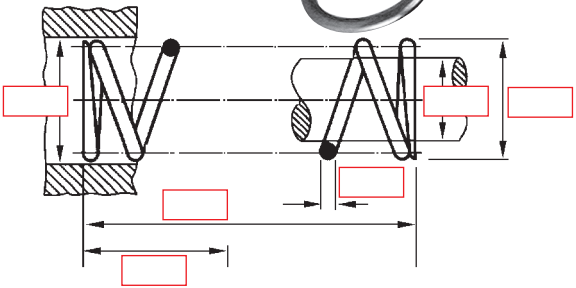
MADE TO MEASURE

COMPRESSION SPRINGS

Min quantity



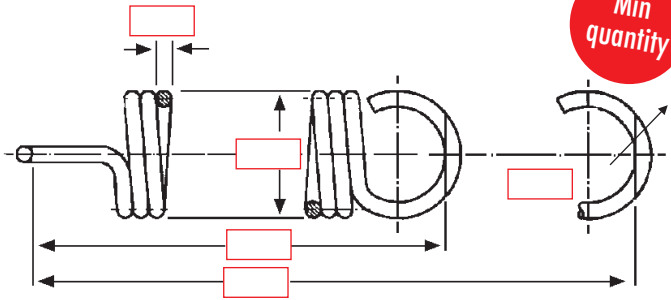
Custom made TORSION springs are also available
Contact us...

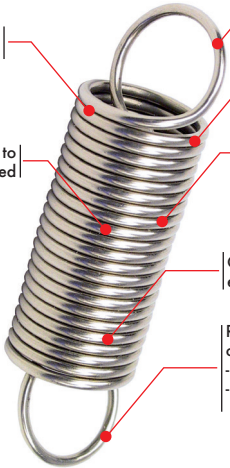


MADE TO MEASURE

TRACTION SPRINGS

Min quantity





Choice of wire diameter

Maximum load

Choice of material:
- Steel
- **Stainless steel**

Preload to be defined

Choice of length:
- No load
- Fully loaded

Choice of external diameter

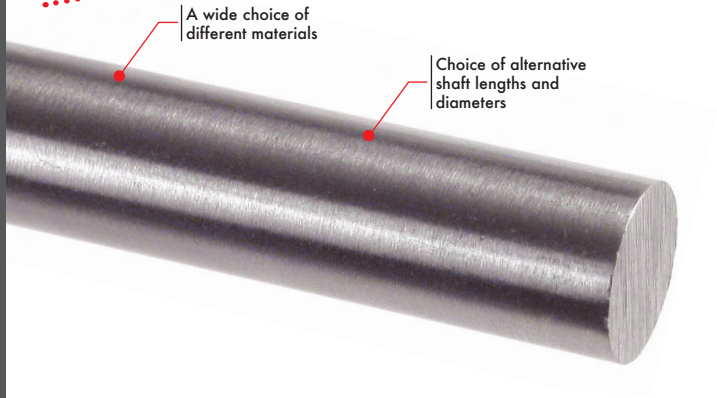
Relative orientation of the loops:
- 0°
- 90°

Custom made TORSION springs are also available
Contact us...

MADE TO MEASURE

LINEAR SHAFTS

Need a different END? Made to measure versions available!
Contact us...



HPC can offer you a wide range of modifications to our standard linear shafts:

- shorter or longer lengths
- bores
- diameters
- materials
- specific finishing treatments
- machining

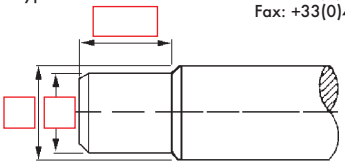
Contact our technical support team for more information!

LINEAR SHAFTS
PLEASE FILL IN THE DETAILS

Min quantity

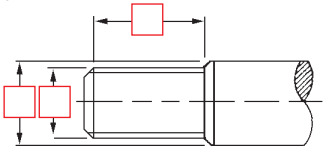
Please send us your drawings!
Email address: cial2@hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055

Type 1



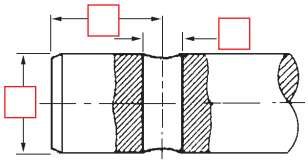
- Alternative diameters
- Machined or hardened versions available

Type 2: Threaded end



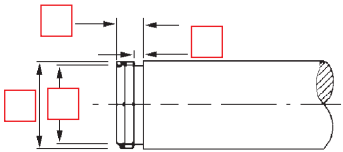
- Annealed end
- Non-hardened thread
- End undercut with or without groove for circlip

Type 3: End with transversal hole



Shaft annealed around the bore or milled on both sides

Type 4: End with groove for circlip



Shaft tempered/softened or annealed as required

General Terms of Sale

(For professional Clients)

1- APPLICATION AND OPPOSABILITY OF THE GENERAL TERMS OF SALE

Placing an order with ENGRENAGES HPC - Ct Meca ("HPC - Ct Meca") implies the full and unreserved acceptance by the professional buyer (the "Customer") of these General Terms of Sale (the "GTC"), to the exclusion of all other documents issued by HPC - Ct Meca which are provided for information only and solely for reference, in spite of any stipulation to the contrary indicated on the Customer's purchase orders, on its general terms and conditions of purchase or on any other document produced by the Customer.

Any condition imposed by the Customer shall therefore be ineffective against HPC - Ct Meca unless it is expressly accepted by HPC - Ct Meca, regardless of when it was informed of the condition.

These GTS may only be completed by the specifications for customised parts, it being stated that if there is any conflict between these GTS and the technical specifications of the parts to be produced, the CGV shall take precedence.

If HPC - Ct Meca does not require performance at a given time of any of the clauses hereof, it cannot be deemed to have waived its right to require performance later on.

2 - ORDERS

Orders must be placed in writing by the Customer with HPC - Ct Meca. Any order placed by telephone must therefore be confirmed by the Customer in writing within 24 hours of the phone call. If it is not confirmed, it will not be taken into account. The order only becomes final and the sales agreement is only formed once it has been accepted by HPC - Ct Meca either by sending confirmation of order or by delivery of the products ordered to the Customer.

If HPC - Ct Meca makes any changes to the Customer's order, which are indicated in the order confirmation letter sent to the Customer, the Customer is deemed to have accepted the changes unless it submits a written response within 24 hours.

-No orders will be accepted for less than 20€ exclusive of tax, including for over-the-counter orders.

-No orders will be accepted for less than 150€ for EU countries, or for over 500€ for non-EU countries.

3- MODIFICATION OR CANCELLATION OF ORDERS

Modification or cancellation of orders requested by the Customer can only be taken into account if they have been expressly accepted by HPC - Ct Meca within 24 hours of the request.

The Customer will be liable for any processing costs. They will be indicated in the acceptance letter. The costs applicable may represent up to 50% of the total cost of the order row concerned or of the total cost of the order. If they are not accepted by HPC - Ct Meca, the products initially ordered will be shipped as initially planned and must be paid for.

4- PRICE

All of the prices in our catalogue are indicated exclusive of tax, and VAT at the current rate, delivery and packaging charges and any insurance that the Customer wishes to take out, must be added. The packaging is selected by HPC - Ct Meca, unless specifically requested by the Customer.

Except as otherwise stated, the products are sold at the price in force on the order date. The prices of the products stated in the catalogue are those in force on the catalogue publication date indicated on the cover. They may be amended by HPC - Ct Meca at any time.

5-DELIVERY - TERMS - LEAD TIMES

A- LEAD TIMES

Parts in stock on the order acceptance date may be made available or shipped within a maximum of 72 hours from the time of acceptance. For parts in the catalogue that are not in stock on the order acceptance date or for special parts, the manufacturing lead time is indicated for information only when the order is accepted.

Except in cases of force majeure, if the delivery date indicated by HPC - Ct Meca is exceeded by more than thirty (30) working days, the Customer may request the early cancellation of the order by registered letter with acknowledgement of receipt within thirty (30) working days of expiry of the deadline.

For the purposes of these GTS, the following are deemed to be force majeure events: wars, riots, fires, strikes, natural disasters, impossibility of obtaining supplies, this list not being restrictive.

Cancellation shall enter into effect on the date of receipt by HPC - Ct Meca of the aforementioned letter provided that the delivery has not been carried out prior to the date of receipt of the letter.

B- DELIVERY

Except as otherwise expressly stipulated, delivery is carried out by direct delivery of the products to the Customer on the premises of HPC - Ct Meca in Dardilly, 69570 (France) or to the carrier chosen by HPC - Ct Meca, or failing that one chosen by the Customer.

The products are sold from Dardilly, 69570 France (premises of HPC - Ct Meca), and are transported at the risk of the consignee, notwithstanding HPC - Ct Meca's retention of title clause as stipulated below.

Except as otherwise expressly provided, goods are transported FCA (at the Customer's expense by the carrier chosen by HPC - Ct Meca) or failing that one by the Customer.

It is up to the Customer to express any customary observations and reservations to the carrier in the event of loss or damage during transport, by registered letter with acknowledgement of receipt or by extrajudicial document within three days of receipt of the products (Article L.133-3 of the French Commercial Code).

HPC - Ct Meca reserves the right to carry out part deliveries.

C- ACCEPTANCE

The Customer must check at the time of delivery, in the presence of the carrier, that the parcels do not show any sign of having been damaged, broken or opened, and that the number of parcels matches the number indicated on the shipping document. The customer must express any reservations on the shipping document.

Without prejudice to the measures to be taken with regard to the carrier, claims regarding apparent defects or non-compliance of the product delivered with the product ordered or with the consignment note must be made in writing within thirty days of the arrival of the products, or the claim is barred.

It is up to the Customer to ask HPC - Ct Meca for a return voucher number and to provide any proof of the reality of the defects or anomalies identified. It must enable HPC - Ct Meca to assess these defects and remedy them. It will not intervene itself, or require a third party to intervene for this purpose.

HPC - Ct Meca's only obligation under the warranty will be to replace free-of-charge the item that it has recognised as defective. All warranty claims for products must first be submitted to HPC - Ct Meca's quality or engineering department, whose consent is required for any replacement. Any postal charges are payable by the Customer if the warranty does not apply.

6- PAYMENT - TERMS AND CONDITIONS

Our invoices are sent with the articles ordered and are payable:

- on receipt,
- at the end of the month, 30 days after the invoice date, subject to the line of credit granted. This means of payment is subject to approval by HPC - Ct Meca, which reserves the right to withdraw it at any time, without the Customer being able to object,
- in Euros,
- Credit card (Master card or visa) or bank transfer, the choice of method of payment cannot change the payment due date

No discount will be granted for early payment.

7- LATE OR NON-PAYMENT

In the event of late payment, the penalty is due without it being necessary to send a reminder, on the day following the payment date indicated on the invoice.

Unless there is a provision to the contrary, which cannot however set the rate at less than three times the legal interest rate, the interest rate for the late payment penalty is equal to that applied by the European Central Bank in its most recent refinancing operation, increased by 10%.

Lump-sum compensation for recovery costs is automatically due from the first day of late payment regardless of the deadline applicable to the transaction. This lump-sum compensation of 40€ must be paid in the event of late payment of any amount due, in addition to the late payment penalty.

If the recovery costs actually incurred are higher than this fixed amount, in particular if a collection agency is employed to send reminders and notice to pay, the Customer may be asked to pay additional compensation on production of documentary evidence.

HPC - Ct Meca reserves the right to suspend the customer's orders in progress, with or without notice, until it has paid the amounts due, and to take back the equipment delivered.

The Customer must pay each invoice at the due date even if a claim is made.

8- WARRANTY

HPC - Ct Meca guarantees the Customer against defects or hidden defects in the products sold, under the conditions specified in Article 1641 of the French Civil Code.

In the event of customised production, since HPC - Ct Meca does not provide any services as an engineering department, it undertakes to produce the products in compliance with the specifications provided by the Customer, but does not guarantee that they will function, which it is up to the Customer alone to assess. The Customer alone is responsible for the information transmitted to HPC - Ct Meca.

For standard products, HPC - Ct Meca guarantees that they will meet the specifications indicated in the catalogue, subject to technical changes made by suppliers. Liability and/or warranty claims against HPC - Ct Meca must be made within thirty days of receipt of the goods by the Customer. They cannot result in compensation that exceeds the price of the order concerned. Damage caused by a part marketed by HPC - Ct Meca cannot on any account result in compensation.

If a customised product infringes the rights of a third party, the Customer undertakes to repay any resulting costs that may be incurred by HPC - Ct Meca (proceedings, compensation, damages, costs of lawyers and other consultants etc.) and actively help to defend HPC - Ct Meca at its own expense.

The warranty does not apply if the products sold are modified or interfered with without the prior written agreement of HPC - Ct Meca or if the products are used in an abnormal manner or in abnormal conditions in view of their characteristics and the normal practice and standards applicable (in particular in the event of use or installation in aircraft and/or spacecraft for which the products are totally unsuitable).

9- RETURNS - TERMS AND CONDITIONS

All product returns must be the subject of a formal agreement between HPC - Ct Meca and the Customer by fax, email or letter.

The carrier is chosen by HPC - Ct Meca. Any product returned without such agreement shall be kept at the Customer's disposal and will not result in the issue of credit notes or repayment.

In any case, no returns will be accepted if they are sent more than thirty days after receipt of the product. The Customer is always liable for the costs and risks of return. All returns must be sent to our head office.

All returns accepted by HPC - Ct Meca shall result in the issue of a credit note to the Customer valid for a period of six months from the issue date, after checking the quality and quantity of products returned.

In the event of an apparent defect or non-compliance of the products delivered, duly certified by HPC-Ct Meca, the Customer may receive a replacement free of charge, or repayment of the products, at HPC - Ct Meca's discretion, to the exclusion of any compensation or damages.

10- RETENTION OF TITLE

Transfer of ownership of all standard or customised parts is subject to payment payment of the price in full, including principal and incidental charges, it being stated that payment is deemed to have taken place on the date of actual receipt of the amounts by HPC - Ct Meca.

The preceding provisions do not prevent the transfer of risks to the Customer (in particular the risk of loss, deterioration and damage caused by the parts shipped) at the time of shipping or delivery of the goods by HPC - Ct Meca.

If the Customer returns equipment acquired from HPC - Ct Meca in order to have a part produced that must be incorporated in it, or that will be added to it, the Customer remains the owner of the equipment, bears the costs of shipping and return, and the risks linked to transport and any adaptation or alteration of the equipment by HPC - Ct Meca, and to any damage it may cause.

11- APPLICABLE LAW - COURT OF COMPETENT JURISDICTION

Sales concluded with HPC - Ct Meca are governed by French law.

Any disputes that may arise between the parties concerning the interpretation and/or performance and/or termination of the contract shall be referred to the commercial courts with jurisdiction over the head office of HPC - Ct Meca, even in the event of third party proceedings or multiple defendants.

Non-contractual photographs.
Product information subject to technical changes.

General Terms of Sale for non-professional clients are available on our website hpceurope.com

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

203R	PERIFLEX®	2 74
A		
AAG, ABG	toothed bar	4 36, 210
ABL	antistatic brush	5 186
AC	hook	1 173
ACA	splined shaft	2 108
ACLALF	accessories for alu profile	5 343
ACLAPB	door stop	5 362
ACLBDB	Closing mechanism for aluminium profiles	5 360
ACLCHARJ	hinge	5 351
ACLEFS	floor anchor for aluminium profiles	5 336
ACLEPP	right angled bracket for aluminium profiles	5 330
ACLFPA	panel mounting block	5 382
ACLPL	connecting plate	5 320
ACM	bonnet fastener	1 191
ADG, ASG	toothed bar	4 37, 211
ADL	eye bolt	1 466
ADSR	backlash free coupling	2 34
AF	rigid coupling	2 76
AFA	fastening pin	1 500
AFM, ASM	Iglidur® bush	3 12
AFSE	locking pin	1 501
AHEX	hexagonal shaft	2 248
AK, AKD, AKN	coupling Gerwah	2 44
ALI	power supply DC	2 280
APB, APBBOU	adjusting rod	5 118
ARTE	flexible bush	1 364
ASH, ASL	welded lifting ring	1 464
AT	timing pulley	4 62
AT	toothed bar	4 60
AT	timing belt	4 82
AT-M	timing belt per metre	4 84
AT-P	connecting plate	4 85
AT-ZY	elasto mount	1 342
AWMP	aluminium shaft	3 245
AXTR	tensioner pulley	4 151
A-ZY(ss)	cylindrical mount	1 346
B		
B/ECO	bevel gear	4 154
B3PAN	Panamech Multi-Beam	2 21
BABFC, BABFO	mounting collar	1 36
BAB, BABPASS	clamping pin	1 12
BABA, BABAM	lifting pin	1 468, 470
BABV	ball lock pins lockable	New 1 27
BAG	locking assembly	2 116
BAG0	locking ring	2 113
BAG1-TR	leadscrew locking ring	3 326
BAG-MI(ss)	split shaft collar	2 118
BAP	clamping collar	2 114, 5 88
BC	Panamech Multi-Beam	2 18
BCA	splined bush	2 109
BCH	mushroom knob	1 152
BCM	cylindrical brushes	5 171
BCTH	hygienic® mushroom headed button	1 617
BCFH	hygienic® mushroom headed button	1 616
BDM	pin for bush	1 230
BEA	star shaped anti-bacterial knob	1 134
BEAS	star shaped anti-bacterial knob	New 1 135
BEF, BEK	miniature leadscrew	3 336
BETA, BETA/SS	hitch pin	1 496, 634
BFA	shaft locking washer	1 494
BFD	locking pin for bushes	1 228
BFM	flanged nut	3 323, 329
BG, BGC	coupling OLDHAM	2 24, 25
BH	single housed bearing assembly	3 66
BHC	hexagon socket head button screw	1 562
BHEX	hexagonal cap	1 572
BIM(ss)	miniature indexing button	1 73
BKGS	backlash free coupling	2 32
BL, BLH, BLHT	right angle gearbox	2 186
BLHB, BLHO, BLHI	right angle gearbox	2 190
BLHM	right angle gearbox	2 191
BLM	spring loaded plunger	1 42
BLOC	doorstop	5 277
BMF, BMM	knurled knob	1 119
BOX-BETA	box set of hitch pins	1 634
BOX-CS	box set of hose clamps	1 650
BOX-DH, BOX-DHX	box set of dowel pins	1 636
BOX-INS	box set of self tapping insert	1 653
BOX-INS-W	box set of inserts	1 652
BOX-KK, BOX-KU	box set of keys	1 632
BOX-NINA	box set of nuts	1 655
BOX-SAP	spring pin	1 635
BOX-SHNA	box set of nuts	1 654
BOX-TOR	box set of O rings	1 638

BOX-WM	box set of washers	1 656
BPF, BPFL, BPP	flanged bearing	3 40
BPFss, BPFLss, BPPss	bearing	3 43
BPH,BPHT	ball transfer units	5 38
BPHR, BPHRF	ball transfer units	5 41
BPHF-CLIP	clip for ball transfer unit	5 43
BPL,BPLE,BPLF	ball transfer units	5 34
BPM	spring plunger	1 43
BPMC	slotted spring plunger	1 46
BPPE	ball transfer units	5 36
BPQ	quadro linear ball bearing unit	3 274
BPTRW,BTCW	cap for tube	5 155
BPTRM	end cap	5 142
BPVM	ball transfer units	5 44
BRI	panel holder	5 279
BS	Panamech Multi-Beam	2 16
BSB	ballscrew bearing unit	3 346
BSC	torque knob	1 132
BSM	spring plunger	1 48
BSP	compact precision slide	3 152
BSPM	miniature leadscrew	3 334
BSPT	single rod clip	5 115
BTC	end cap	5 138,276
BTCM	end cap for tube	5 140
BTCW	end cap for tube	5 154
BTE, BTE(ss)	universal tension arm	4 142
BUH	motor gearboxes DC	2 274
BUT	panel shop	5 278
BVR	adjustable screw stop	1 217
BWU	compact precision shaft	3 158
B-ZY(ss)	cylindrical mount	1 350

C

CAB(ss)	cable	1 418
CABMA	swaging sleeve for cable	1 421
CAB/PVC	galvanised steel cable	1 419
CABTOOL	fitting cable tools	1 422
CAP	plate chain	5 74
CCL(ss)	wire thimble	1 424
CD	compression spring	1 270
CDC	conical spring	1 282
CDP, CDPC	drill bushing	1 600
CDR	cable for ball lock pin	1 39
CDRS	cable for ball lock pin	1 38
CF, CFS, CFES	cam follower	3 304
CFC	spring loaded	1 47
CFF(ss)	rod end	3 132,134
CFUU	cam follower	3 306
CHA	hinge	5 210
CHAB	hinge with stop	5 237
CHAE	decorative hinge	5 214
CHAESS	screw hinge	5 217
CHAEPAC	square decorative screwed hinge	5 221
CHAFR	adjustable friction hinge	5 243
CHAK	indent hinge	5 242
CHAL	long hinge	5 226
CHALSS	long hinge	5 227
CHAM	marine hinge	5 208
CHAPAM	weld-on hinge	5 228
CHAR	spring hinges	5 245
CHARCAV	compact spring hinge	5 251
CHASB	hinge without pin	5 224
CHB	New worm and wheel gearbox	2 321
CHC	socket head screw	1 554
CHINV	invisible hinge	5 240
CHM, CHMR	worm and wheel gearbox	2 298
CHM-BR, CHM-X	arm and shaf	2 312, 5 103
CHML	worm and wheel gearbox	2 316
CHM-MOT	motor-gearboxes	2 293, 5 101
CHN(ss)	straight long link chain	1 450
CHNRB	warning chain	1 449
CHT	asynchronous AC motor	2 288
CHTRB	right angle gearbox	2 250
CHTRP	right angle gearbox	2 254
CHV	mechanical motor-drive	2 330
CLA, CLB	indexing handle	1 90
CLAHUSS	indexing handle	1 614
CLG	moulded spur gear	4 244
CLM(ss)	clevis components	1 329
CLS, CLP	clevis components	1 326
CLL, CLLP	clevis and clip	1 327
CLQ	feeler strip	3 114
CLR, CLRSS	straight clevis	1 321
CLS(ss), CLP(ss)	clevis components	1 326
CM	hygienic® tool	1 628
CMA(ss)	eye bolt	1 458

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

CMM(ss)	rod end	3 133, 135
CNA, CNG	mounting plate	1 322
COA, COG	mounting plate	1 323
CPAS	stay with safety catch	5 254
CPAS	folding bracket	5 255
CQA	adjustment slide-system	3 404
CRM	moulded nylon rack	4 196
CSS(ss)	spherical bearing	3 124
CT, CTss	telescopic universal joint	2 92
CT-ZY	diabolo mount	1 344
CX, CY	circlip	1 492
D		
D	spring in metre	1 286
DB/Eco	bevel gear	4 156
DBC	Panamech Multi-Beam	2 20
DBL	idler	5 86
DCA, DCG, DFG	suction cup	5 10
DEP	hygienic® tool	1 627
DER	AC asynchronous motor	2 336
DGSa	rod end	3 128
DGSi	rod end	3 130
DH	dowel pin	1 504
DHX	dowel pin	1 508
DILC	indexing plunger with cam New	1 58
DIL, DIA, DIV	locking bolt	1 52
DKGS	coupling GERWAH®	2 30
DKN	coupling GERWAH®	2 42
D-KON, D-PAR(ss)	elasto buffer	1 360
DOG	motor-reducer DC	2 275
DOMI	adjustable slide	3 408
DP	dowel pin	1 506
DSF	slip friction clutch	2 104
DTR	chain idler sprocket	4 139
D-ZY(ss)	elasto buffer	1 354
E		
E	right angle gearbox	2 176
EAR	bearing lock nut	3 107
EBC, EBH	hygienic® cap nut	1 613, 623
EBM	u bolt	1 532
ECF	well nut	1 341
ECL	adjusting nut	1 415
EFSM	Igubal® flange unit	3 49
EFTC	fixing support	5 270
EHD	coaxial reducer	2 234
EIM	stainless steel u bolt	1 533
EKGS	coupling GERWAH®	2 28
EKN	coupling GERWAH®	2 40
EMAS New	antistatic knurled nut	1 144
EMS, EML, EMR	thumb screw	1 145,148
EP7	indicator	1 260
EPE	spring pin	1 619
EPRF	flanged nut	3 333
EPRC	cylindrical nut	3 332
ERC, ERL, ERF	quick fitting cable	1 430
ERT	sliding nut	1 573
ESCBnv, ESSBssnv	bipod New	5 143
ESCON-4Q	speed controler 5A	2 284
ESSTnv	tripod New	5 145
ET	extension spring	1 288
ETQ	profile label holder	5 381
E-X, E-DX	output shaft	2 183
E-ZY(ss)	cylindrical buffer	1 358
F		
F7	multifonction display	1 263
FAD	threaded swivel feet	1 375
FB, FB/Eco	bevel gear	4 158
FBL	brush strip	5 181
FDS(Q)	flexible shaft	2 62
FF	reducer	2 212
FGWA	end support	3 253
FHCss	countersunk screw	1 560
FIRST	servo amplifier	2 283
FR	thread inserts	1 580
FTSN	supported shaft	3 244
FUss	nut for bearing	3 108
G		
G, Gal	universal joint	2 82
G	spur gear	4 212
Geco	spur gear	4 252
GAC	latch clamp	1 180
GAL	conveyor wheel	5 28, 90
GALomni	omni-directional roller	5 32
GAR	lock pin	1 220
GBra	spur gear	4 218, 231, 241

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

GBM	nut for ballscrew	3	343
GBS	nut for ballscrew	3	341
GCA, GCT	spring pin	1	498
GCB	curved track	5	95
GCH	linear ball slide New	3	186
GCL	linear ball slide New	3	164
GD, GDAL	double universal joint	2	83, 85
GDR	straight track	5	94
GE	toggle latch	1	170
GE	spherical bushing	3	120
GEC	rubber latch clamp	1	190
GET-AL	elastic coupling ECO. range	2	58
GFX	elastic coupling ECO. range	2	54
GG	ground spur gear	4	388
GGB	wing knob	1	122
GGP	wing knob	1	123
GLB	small 6 lobe female handle	1	120
GLP	small 6 lobe female handle	1	121
GLT	telescopic slide	5	260
GMC	guide	5	107
GMK	guide	5	108
GP	toggle latch	1	175
GPB, GPBAL	threaded spherical knob	1	142
GPL	brushes	5	164
GSA	adjustable gas spring	1	315
GSI	stainless steel gas spring	1	318
GT	rotating bent lever	1	194
GTC, GTC(ss)	belt tension roller	4	146
H			
H, HD	needle roller uni. joint	2	86
Hss, HDss	universal joint	2	90
H	helical gear	4	321
HAR, HAS	Slotted flat headed shoulder	1	214
HBM	Half-rail guide	3	292
HCss	Cup point set screw	1	538
HCA	Magnetic screw with socket	1	239
HCV, HRV	V- rail guidance system	3	298
HFL	one way needle bearing	3	103
HG, HPG	spur gear	4	301
HGECO	spur gear	4	300
HK	manual locking clam	3	214
HLA,HLC	right angled gearbox	2	260
HLU, HLUT	handwheel	1	112
HLU (ss)	handwheel	1	114
HLUM(ss)	rotating handle	1	115
HS, HSE, HSB	spacer	1	516, 522
HSS, HSSss	shwoulder screw	1	546
HTD	toothed bar	4	12
HTD	timing pulley	4	14
HTS, HTT, HW	half rail guide	3	290
I			
IBJ, IBJss	180° ball and socket joint	1	324
IN	internal gear	4	208
INS	threaded insert	1	586
INSss316	threaded insert	1	591
J			
J, XJ	coaxial reducer	2	221
JCD, JCS	universal joint	2	88
JFM, JSM	cylindrical polymer bush	3	10
K			
KB, KBS, KBww	linear bearing	3	257
KB-OP	linear bearing	3	266
KGS	ballscrew	3	340
KH	linear bearing	3	254
KK(ss)	keysteel	1	489
KKB, KKP	linear bearing	3	262
KM	bearing locknut	3	104
KS(ss)	keysteel New	1	489
KSM	cylindrical nut	3	320
KSTM	Igubal® block bearing	3	50
L			
LAC	cam lever	1	210
LAT	linear actuator	3	356
LBE	miniature linear bearing	3	256
LC	clutche	2	102
LF	precision locknut	3	112
LFM	leadscrew	3	314
LINK	motor-reducer AC	2	286
LPCM	lever handle	1	141
LOQ	manual lock	5	285
LQT	mechanical catch	5	202

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

LR	precision locknut	3 110
LRH	leadscrew	3 318
LRM	trapezoidal nut	3 322, 328
LRR	spring loaded latch	5 196
LRR22	Small dimension latch with locking system	5 200
LRR37	latch with locking system	5 201
LRRss	slam latches	5 198
LRX	linear roller slide	3 203
LSAG	linear rotary	3 143
LSM	leadscrew	3 316
LVT	motorised actuator	3 362
LVT MFC	module de contrôle	New 3 371
LWL	linear ball slide	3 171
LWH	linear ball slide	3 193
M		
M	cover for uni. joint	2 96
M, PM	worm and wheel set	4 175
MAC(ss)	carabiner	1 436
MAX	moto-reducer DC	2 272
MB	stop washer	3 105
MBEX	hexagonal ended handle	2 249
MC	shock absorber	1 334
MCL	sleeves	1 527
MDB, MTB	bevel gear	4 164
MDPOT	potentiometer	2 285
MDR(ss)	dee shackle	1 432
MEB	bevel gear	4 163
MEF, MEFC	steel self-lubricated bush	3 24
METEB	bronze self-lubricated blank	3 29
MEP	cylindrical handle	1 94
MET, METC	bronze self-lubricated bush	3 18
MF	shock absorber flange	1 336
MFB, MFBS	bellows coupling	2 36
MHB	bevel gear	4 36
MH, MHQ	arm with handle	1 96
MHS, MHW	coupling	2 22
MHX	sleeves	1 524
MLY(ss)	bow shackle	1 434
MPB, MPE, MPS	spacer	1 518
MMR	rack	4 200
MRS	stainless steel rack	4 201
MRA(ss)-ECO	quick link	1 452
MRA(ss)	quick link	1 454
MSP	Master-Plate® insert	1 594
N		
NANO	servo amplifier	2 282
NAST	cam follower	3 302
NCT	connector	5 271
NINA, NIN	self locking nut	1 571
NJM	adjustable clamp	5 135
NK, NW	Drylin N® guiding system	3 218
NKIA, NKIB	combined bearing	3 96
NKX, NKXR	combined bearing	3 94
NPCR, NPR	adjustable clamp	5 131
NPTF, NPTR	adjustable clamp	5 126
NSA	Articulated clamp	5 133
NSB, NSO	linear bearing housing	3 268, 270
NSKB	miniature guidance	3 222
NSR	adjustable clamp	5 134
NT, NH	coaxial reducer	2 227
NTM	nylon tipped set screw	1 544
O		
OP3, OP6	indicators	1 252
OP7	indicators	1 256
OP, OPF	Reducing sleeve for OP indicators	1 258
P		
P	reducer	2 148
PAL	self locking counter nut	1 495
PAMss	articulated foot	1 402
PAMF	articulated foot	1 385
PAMF120	pied articulé embase tôle à fixer	1 394
PAP	handle for alu. profile	5 354
PARF	articulated foot	1 395, 5 150
PAS	pull handles antistatic	New 1 163
PAT	articulated foot	1 399
PAV	vibration dampening foot	1 410
PB	plastic ball bearing	3 73
PCA	pull handle	5 282
PCH	mushroom head handle	1 151
PCLA	handle	1 88
PCM	cylindrical handle	1 140
PCP	cell carrier assembly	5 125
PCS	chain sprocket	4 95

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

PCSPA	Plastic sprocket	4 92
PCSSS	Stainless steel chain sprocket	4 99
PCSH	Chain sprocket with hardened teeth	4 104
PDD	spring plunger	1 50
PDM, PDV	detectable plastic palm grip	1 136
PENC, PENV	recessed handle	1 164
PF	reducer	2 149
PFC	fixed rubber foot	1 374
PFL	coupling P-Flex	2 48
PFM	articulated foot	1 401
PG	spur gear	4 212
PGB	accessory-holder	5 383
PGM(ss)	carrying handle	1 159
PGMT	front fixing handle	1 158
PGNT	T handle	1 150
PGR	cylindrical revolving handle	1 95
PGT	sliding profil	5 286
PH	helical gear	4 321
PHT, PHTSS	handle	1 156
PITA, PITB	index bolt	1 62
PLB, PLN, PLS	spacer	1 510
PLC, PLT	magnetic stud	1 246
PLM, PLA	magnetic stud	1 248
PM	worm and wheel set	4 175
PMB	anti-vibration machine mount	1 411
PMC	flexible machine mount	1 412
PML	solid foot for heavy load	1 414
PNA	coupling PERIFLEX®	2 72
PO, PX	handle	1 153
PO	multi-sector handle	1 155, 5 280
PP	reducer	2 172
PPD	clamping pin	1 70
PPF	clamping pin	1 71
PPG, PPH, PPJ	index plunger	1 56
PPO, PPC, PPR	mounting plate	1 438
PPS	universal threaded lifting hook	1 478
PR125	foot	1 380
PR125-ENT	extension for articulated foot	1 381
PR65C	half-articulated foot	1 377
PR	foot	1 376
PR	idler sprocket	5 82
PRF	aluminium profile	5 299
PRF4545(R90)	90° aluminium profile	5 305
PRFBOU	emergency button	5 356
PRFCHARPOU	tool holder	5 342
PRFECL	Nut for aluminium profile	5 315
PRFFIX	Fastener for aluminium profile	5 312
PRFGPA, PRFGPB	guide for profile	5 374
PRFGUM	anodising polisher	5 311
PRFJL	Lip seal for aluminium profile panels	5 376
PRFP	feet support	5 338
PRFSCL	lock for aluminium profile	5 357
PRFSCREEN	screen support	5 385
PRFVTM	Hammerhead screw	5 316
PRL, PRZ	wear strip	5 96
PRS	articulated foot	1 403
PRT	rotary table	3 426
PSEC	security pull hand	5 283
PSG, PSGH	precision spur gear	4 374
PSH	engrenage helicoïdal	4 310
PSP	panel accessories	5 287
PSPE, PSPD	Conical flexible shaft handle	5 156
PSPT	flexible tube handle	5 160
PT	drive sprocket	5 79
PT	timing pulley	4 43
PTA40	levelling foot	1 382
PTA(ss)	levelling foot	1 383
PTAF, PAMF	articulated foot	1 385
PTB(ss)	threaded eye hook	1 448
PTCR	Adjustable furniture foot	1 371
PTGR, PTGT, PTGP	tensioner pulley	4 148
PTMR, PTMC	telescopic furniture foot	1 372
PTKSS	swivelling feet	1 407 5 151
PTR, PTRSS	Idler chain sprocket	4 140
PW, PSW	worm-precision range	4 360
PWC	thread insert	1 584
PWG	wheel-precision range	4 361
P-X, P-DX	output shaft for gearbox	2 168

Q

Q1, Q2	radial bearing	3 82
Q3 , Q4, Q7	radial bearing	3 79
Q6	radial bearing	3 74
QNU	radial bearing	3 88
QN, QNJ, QNUP	radial bearing	3 90
QTR	tapered roller bearings	3 84

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

R		
R	rack	4 198
R	die spring	1 300
RAG	roller guide accessory	5 110
RAGB	cylindrical brush track	5 25
RAG-FLOW2	roller guide	5 26
RAM	manual bevel gearbox	2 244
RAS(ss)	90°ball and socket joint	1 325
RBG	rubber wheel	5 56
RBN	rubber wheel	5 59
RBS	dynamic washer	1 308
RCC(ss)	self aligning washer	1 576
RCX(ss)	self aligning washer	1 576
RDC(ss)	rigging screw	1 446
RDEHUSS	sealing washer	1 607
RDER	rigging screw	1 447
RDSHDSS	Safety washer	1 626
RESC	retractable castor	5 69, 348
RFK	stainless steel hypoid gearbox	2 348
RFV	stainless steel hypoid gearbox	2 340
RGS	coupling ROTEX® GS	2 26
RHT	high temperature wheel	5 65
RIM	locking castor	5 70
RJA	sealing strip	5 192
RJZM, RJUM	Drylin® bearing	3 261, 272
RLR	Rollring® chain tensioner	4 136
RLX	gravity roller	5 30
RMSA	shock absorber	1 335
RNAST	cam follower	3 303
RPB	ballscrew bearing unit	3 347
RPC(ss)	polyamide wheel	5 51
RPP	timing belt	4 23
RPPP	connecting plate	4 32
RT61	Self-centering locking assembly	2 126
RT, RTT, RTL	locking assembly	2 122
RTE	coupling ROTEX®	2 60
RTK, RTN	coupling BoWex®	2 52, 56
RUR	free running wheel	5 62
RVM	manual worm and wheel	2 246
S		
S	chain sprocket	4 94
S, SF	ball bearing	3 76
S2B, S2O	linear bearing housing	3 269, 271
SA, SAKH	linear bearing housing	3 255
SBF, SBFL, SBFB	New Sealed flange bearing unit for Food Industry	3 58
SBR, SUA	chain per metre	4 122
SBRTOOL	chain tool	4 127
SBS	chain per metre	4 124
SC2	rigid coupling	2 77
SCA, SCE(ss)	cable clamp	1 426
SCH	toggle clamp	1 201
SCR	suction cup threaded insert	5 14
SDA, SDB	locating bolt support bracket	1 76
SDC	positioning sleeve	1 78
SDG(ss)	support bracket	5 122
SEH, SEV	toggle clamp	1 203
SER	magnetic doorstop	5 284
SERB	came latch	5 203
SER69K	quarter turn latch	5 204
SFE, SME	rod end Unibal®	3 136
SFWR	end support	3 252
SH, PSH	helical gear	4 310
SHA	handwheel	1 100
SHN, SHNA	nut	1 569
SHS, SHSS	shoulder screw	1 550
SHTC, SHTP	Drylin® linear table	3 384
SHW	washer	1 574
SKM	star knob	3 321
SLB(ss), SLBS	index bolt	1 64, 66
SLBE	index bolt	1 67
SLBW(ss)	index bolt	1 68
SLH, SLV	toggle latch	1 198, 200
SLHH, SLHV	toggle latch	1 204
SLS	trapezoidal rolled leadscrew	3 330
SLVH, SLVV	toggle clamp	1 206
SME	Male rod ends	3 137
SMLS	linear table	3 275
SMS	spiral bevel gear	4 170
SNG	pillow block	3 64
SPIT	levelling support	1 398
SR	rack	4 199
SRG	adjustable rigid latch clamp	1 182
SRP	slotted spring pin	1 502
SSBRA	stainless steel bevel gear	4 159
SSDBRA, SSHBRA	stainless steel bevel gear	4 160

SSE	Unibal® spherical bearing	3 126
SSG	spur gear	4 219
STC	stop collar for shock absorber	1 337
STRIP	sealing brush strip	5 176
STU	stroke rotary bush	3 36
SUA	chain by metre	4 122
SUP	self-centering clamping hub steel	2 132
SVG	latch clamp	1 186
SVR	screwjack	3 372
SVT	screwjack	3 376
SW, SWH	worm	4 174
T		
T	toothed bar	4 38
T	timing belt	4 53
T	timing pulley	4 42
T	spring in metre	1 287
TM	timing belt per metre	4 58
TP	connecting plate	4 59
T0	torsion spring	1 298
TAC(ss)	rigging screw	1 442
TB	axial thrust bearing	3 98
TB8	roller thrust bearings	3 100
TB/ECO	bevel gear	4 157
TBD	leadscrew table	3 396
TBE	Economic Mini-table with trapezoidal leadscrew	3 390
TBE-BASE	Base plate for economic mini-table	3 393
TBL	mini table, metric thread	3 394
TBV	manual lifting table	3 400
TC1RP, TCRX	chain tensioner	4 130
TCC(ss)	rigging screw	1 444
TCL	support rod for heavy loads	1 415
TCLAR, TCSH	chain tensioner	4 132
TFR	tensioner plate	4 145
TIF	threaded bar	1 529
TIF(ss)	threaded stud	1 530
TK	linear bearing	3 260
TKOP	linear bearing	3 267
TM	suction cup threaded insert	5 13
TMR	tensioner plate	4 144
TOC	swivel head	5 121
TPE	castor for aluminium profile	5 346
TPR	leadscrew	3 331
TS	Drylin® linear slide	3 212
TSR	Stem support for caster	5 68
TR	rack	4 203
TRM(ss)	rack	4 202
TW	Drylin® linear slide	3 212
TUBE	Drylin® linear slide	5 269
TYRE	Spare tyre UNEFLEX® coupling	New 2 70
U		
UCF	flange bearing	3 47, 53, 56
UCFL	flange bearing	3 48, 54, 57
UCP	block bearing	3 46, 52, 55
UFX	tyre coupling	New 2 68
UGAG, UGET	actuator guide kit	3 433
UGCG	actuator guide kit	3 432
UGH	H type guide unit	3 434
UGPC, UGPL	actuator guide kit	3 430
UTK	UtiliTrack® linear guide	3 279
V		
V3RA	handwheel	1 103
VAB	Ballscrew	New 3 338
VABF	Flanged nut for ball screw	New 3 339
VAP	magnetic stud	1 243
VB, VBFP	Small 6 lobe threaded handle	1 128
VCMB	screw wood/metal	1 593
VDS	sliding lock	1 232
VHEHHUSS	hexagonal headed bolt	1 610
VHTM	hexagonal headed bolt	1 624
VKM	square nut	3 319
VLBG	hoist ring	1 480
VLBS	hoist ring	1 482
VML	set screw	1 149
VMS	set screw	1 147
VP(ss)	small threaded handle	1 130
VPPTSS	handwheel	1 116
VPRAM	handwheel	1 99
VPR	wing screw	1 622
VQT	retaining clamp	1 224
VRBS	Folding lifting ring, for welding	1 483
VRC	retaining clamp	1 212
VRM	hoist ring	1 477
VRS(ss)	hoist ring	1 474
VT, VTA	clutche	2 100

Index by PART NUMBER - Full range

New = Product 2025

Vol. 1 2 3 4 5 PAGES

VTAP	magnetic head screw	1 238
VTHA	Magnetic screw with hexagonal head	1 240
VTH, VTHBR	hexagonal headed bolts	1 563
VTLB	3 lobed handle	1 126
VTLF, VTLM	6 lobed handle	1 124
VTSM	ball head screw	1 620
W		
W, WH	worm	4 174
WBG	hoist ring	1 479
WFRM	flanged ring	3 325
WING	wing nut	1 566
WJRM	Drylin®W modular guidance	3 234
WM	Plain washer	1 574
WSRM	cylindrical nut	3 324
WS, WW, WJUM	Drylin® W rail	3 225
WSS(ss)	symetrical S shaped hook	1 456
X		
XG	spur gear	4 228
XJ/J	coaxial reducer	2 221
Y		
YG	spur gear	4 228
Z		
ZA, ZB	shaft for linear guide	3 246
ZA-M/M	Shaft for linear guides	3 249
ZBRA,	bevel gear	4 167
ZHBRA, ZDBRA	bevel gear	4 168
ZG, ZPG	spur gear	4 214
ZH	helical gear	4 322
ZHG, ZHPG	spur gear	4 302
ZIN	internal gear	4 208
ZM, ZPM	worm and wheel	4 175
ZR	rack	4 197
ZSH	helical gear	4 311
ZSW, ZW	worm and wheel	4 174

ANSI B18-17	Manually operated wing nut	1 568
DIN 04-1	Chain sprocket	4 95
DIN 05B-1	Chain sprocket	4 96
DIN 06B-1	Chain sprocket	4 98, 99, 104
DIN 08B-1	Chain sprocket	4 100, 101, 108
DIN 10B-1	Chain sprocket	4 102, 103, 112
DIN 12B-1	Chain sprocket	4 116
DIN 98	Rotating handle for spoked handwheel	1 115
DIN 103	Leadscrew	3 314, 327
DIN 125	Plain washer	1 574, 575, 656
DIN 176	Hexagonal shaft	2 248
DIN 314/315	Manually operated wing nut	1 567, 568
DIN 316	Manually operated wing screw	1 566
DIN 319	Threaded spherical knob	1 143
DIN 444	Male eye bolt	1 458
DIN 464	Knurled thumb screw	1 147
DIN 466/467	Knurled thumb nut	1 146
DIN 471	External circlip	1 492
DIN 472	Internal circlip	1 493
DIN 580 - DIN 582	Lifting eye bolts	1 466, 467
DIN 625	Plastic ball bearing	3 73
DIN 648	Spherical bushing	3 120, 121, 122, 123
	Rod end	3 128, 130
DIN 705	Locking ring	2 113
DIN 808/7551	Universal joint	2 82 à 91
DIN 912	Socket-head screw	1 554, 558
DIN 916	Set screw	1 538
DIN 923	Slotted flat headed shoulder screw	1 214
DIN 933	Hexagonal headed bolts	1 560, 563
DIN 934	Hexagonal nut	1 569, 570, 654
DIN 950	Spoked handwheel	1 114
DIN 975	Threaded bar	1 529
DIN 976A	Threaded stud	1 530, 531
DIN 985	Auto locking nut	1 571, 655
DIN 2093	Dynamic washer	1 308
DIN 2095	Compression spring	1 270
DIN 2097	Extension spring	1 288
DIN 3961	Precision Range	4 378 à 387
DIN 3967	Bevel gear	4 152, 154, 158
DIN 3974	Worm and wheel set	4 362 à 371
DIN 5299	Carabiner	1 436
DIN 5685C	Straight long link chain	1 450, 451
DIN EN61340-5-1	Star shaped anti-static handle	1 135
DIN 6319	Self aligning washer	1 576, 577

DIN 6325	Dowel pin	1 504
	Box set of dowel pin	1 636
DIN 6336	Star shaped handle	1 134, 135
DIN 6340	Tightening washer	1 578
DIN 6371	Captive C washer	1 215
DIN 6799	Shaft locking washer	1 494
DIN 6880	Keysteel	1 489
DIN 6885	Rectangular key	1 490, 491
	Box set of rounded end feather keys	1 632
DIN 6888	Box set of woodruff keys	1 633
DIN 71802 - 71803 - 71805	Socket joints	1 324, 325
DIN 71752	Clevis components	1 326, 327, 328, 329
DIN 7551	Universal joint	2 82 à 91
DIN 7721	T and AT timing belt	4 53, 82
DIN 7967	Self locking counter nut	1 495
DIN 7979D	Extractable dowel pin	1 508, 637
DIN 7991	Countersunk screw	1 560
DIN 8187	Single chain	4 122, 124
DIN 58405	Worm and wheel set	4 360
DIN ISO 12240-1	Spherical bearing	3 124, 125
DIN ISO 12240-4	Rod end	3 132 à 135
DIN ISO 14	Clamping spring	2 108 à 111
DIN ISO 4017	Magnetic head screw	1 238, 239, 240
ISO 104 :2002	Axial thrust bearing	3 98
ISO 15552	H Type guide unit	3 435, 438, 439
ISO 606	Single chain	4 122, 124
ISO 2338	Dowel pin	1 506
ISO 2901 / 2903	Leadscrew	3 314, 327
ISO 4762	Socket-head screw	1 554, 558
ISO 6124	Spherical bearing	3 120, 121, 122, 123
ISO 6126	Male rod end	3 128, 130
ISO 6432	H Type guide unit	3 434, 435,436
ISO 7379	Shoulder screw	1 546, 548
ISO 7380	Socket head button screw	1 562
ISO 8752	Boxed set of spring pins	1 635
ISO 965	Self locking bearing nut	3 108
ISO 10243	Die spring	1 300 à 307
NF 03606	Steel nut	3 319, 323, 328, 329
NFE 22179	Box set of pin	1 633
NFE 26020	Straight long link chain	1 450, 451

Actuator	linear motorised	3 356
	motorized	3 362
Aluminium profile	floor anchor	5 336
	magnetic door stop	5 362
	hinge	5 349
	joining bar	5 317
	polishing block	5 311
	sealing strip	5 380
	mounting bracket	5 335
	guide for sliding door	5 374
	lock	5 357
	screen support	5 385
	connector	5 325
	corner reinforcement	5 332
	coupling bar	5 326
Anchor	for aluminium profile	5 336
Arm	reaction arm for gearbox	2 312, 327
	chain/belt tensioner	4 142
Assembly	sensor holder	5 125, 367
Ball	load carrying transfer unit	5 33
Bar	keysteel	New 1 489
	toothed: choice of teeth	4 36, 210
	toothed	4 12, 38, 60
Bearing	axial thrust ball bearing	3 98
	axial thrust roller bearing	3 100
	Cylindrical bush	3 10, 18
	linear guide ball bearings	3 254
	high-temperature linear ball bearings	3 262
	unit for food industry	New 3 58
	unit light loads	3 41
	rotary motion guide	3 37
	split pillow block	3 64
	linear	3 255
	DryLin® W hybrid	3 234
	block unit for leadscrew	3 330
	block unit for ballscrew	3 336, 346
	spherical	3 120
	ball	3 73
	tapered rollers	3 84
	cylindrical rollers	3 88
	combined	3 94
	thrust	3 98
Bellow	joint cover for cardan joints	2 96

Index by **NAME** - Full range

New Product 2025

Vol. 1 2 3 4 5

B		
Belt	timing belt per meter	4 31, 58, 83
	T and AT positioning timing belt	4 53, 82
	transmission timing belt	4 23
Bipod	support element	New 5 143
Blank	self-lubricating	3 29
Bonnet	rubber manual bonnet fastener	1 191
Box	parallel keys	1 632
	hose clamps	1 650
	self-locking nuts DIN985	1 655
	hex nuts DIN934	1 654
	spring beta pins	1 634
	self tapping inserts	1 652
	O-rings	1 638
	washers DIN125	1 656
Bracket	for aluminium profile	5 328
	foldable	5 255
Brush		5 164
	antistatic	5 186
	modular cylindrical	5 170
	sealing strip flexible support	5 181
	sealing strip rigid support	5 176
	guide	5 112
	manual brushes	5 164
	ramp	5 25
Bush	flexible	1 364
	splined	2 109
	cylindrical or flanged drill bit	1 600
	linear and rotary ball bearings	3 36
Button	threaded knob	1 142
	anti-bacterial	1 134
	anti-static	New 1 135
	mushroom	1 152, 616
	knurled knob	1 119
	emergency opening	5 356
	indexing	1 56, 73
	torque knob	1 132
C		
Cable	steel/stainless steel	1 418
	cable tools	1 422
	retainer for ball pin	1 38
	thimble	1 424
	quick fitting terminal	1 430
	flat clamp	1 426
Cam	follower	3 302

C

Cap	hexagonal for screws	1 572
	for tube	5 154, 138, 276
	protection for rod	5 120
Carabiner		1 436
Cardan joint	Guide	2 80
	simple	2 82
	double	2 83
	telescopic	2 92
Carriage	3 wheels UtiliTrack®	3 280
	miniature slide-system adjustment	3 404, 408
	Drylin W®	3 227
	Dual Vee®	3 298
	Iko	3 172, 194, 204
	tool holder for aluminium profile	5 342
Caster	with plate	5 52, 57, 60, 66
	with central hole	5 53, 55, 58, 61, 67
	with rubber wheel	5 57, 61
	immobilization	5 70
	light for aluminium profiles	5 344
	fixed for aluminium profile	5 346
	swivel for aluminium profile	5 347
	with polyamide wheel	5 52
	retractable	5 69
	high temperature	5 66
	with free running wheel	5 63
Chain	slat top	5 74
	transmission by the meter	4 120
	straight with long links	1 450
	cable carriers for aluminium profile	5 310
	warning	1 449
	tool	4 127
Circlip	for shaft and bore	1 492
Clamp	for guide profile	5 114
	for aluminium profile	5 327
Clevis	clevis and trunnion	1 326
	straight	1 321, 458
Clip	cable clip for aluminium profile	5 369
Closure	locking and clamping systems	1 168
Connector	for square tube	5 271
Conveyor	accessories for conveyor	5 124
Coupling	BoWex® curved tooth	2 52, 56
	curved tooth ECO series.	2 54
	universal joint	2 80
	transmission	2 50

C		
Coupling	ECO Series.	2 58
	flexible disc	2 22
	Gerwah®	2 28
	miniature	2 40
	Oldham	2 24
	Panamech - Multibeam	2 16
	Periflex®	2 72
	P-Flex	2 48
	for servo systems	2 12
	rigid	2 76
	Rotex®	2 60
	Rotex GS®	2 26
	backlash-free	2 12, 28
	bellows	2 36
	Uneflex®	New 2 68
Crank	arm with rotating handle	1 96
	arm with hexagonal end	2 249
Cylinder	guide unit	3 434
D		
Diabolos	shock absorber	1 342
	for slat top chain	5 86
Display	multifunction with sensor	1 262
Drawer	telescopic slide	5 260
Driving module		3 353
E		
Element	roller for aluminium profile	5 372
Esse	symmetrical	1 456
F		
Fastener	elastomer quick fastener	1 341
	for aluminium profile	5 314
Flange	with bearing	3 66
Foot	anti-vibration	1 410
	articulated steel base	1 382
	articulated fixable	1 395
	for food industry	1 407 5 151
	articulated polyamide base	1 376
	articulated solid base in stainless steel	1 403
	for furniture	1 371
	fixed rubber	1 374
	for heavy loads	1 414
	bipod or tripod	5 143
	for aluminium profile	5 343
	anchor for aluminium profile	5 339
Freewheel	needle bearing	3 103
G		
Gear	bevel	4 154
	spur	4 212
	spur Eco	4 234

Gear	spur precision class 7	4 374
	spur ground	4 388
	helical with crossed axes	4 321
	helical with parallel axes	4 310
	internal	4 208
	spiro-bevel	4 170
	helical	4 310
Gearbox	parallel shafts	2 212
	right angle helical	2 176
	worm and wheel	2 148, 298, 320
	worm and wheel with torque limiter	2 316
	stainless steel worm and wheel	2 340
	manual worm and wheel	2 246
	output shaft	2 168, 183, 313, 328
	Stainless steel protective cover	2 345
	internal epicyclic	2 234
	coaxial	2 221
	hypoid	2 348
	L- or T-shaped right angle	2 186, 250, 260
	manual right angle	2 244, 247
Gerwah	coupling	2 28, 40
Guide	cylinder kit	3 430
	Drylin W®	3 224
	linear motion	3 140
	linear UtiliTrack®	3 279
	miniature Drylin® N	3 218
	on half-rails	3 288
	on V-rails	3 297
	rotary motion	3 8
	conveyor guide profile	5 107
	curved for slat top chain	5 95
	straight for slat top chain	5 94
Handle	antistatic	New 1 163
	mushroom	1 151, 616
	fixed cylindrical	1 140
	revolving cylindrical	1 94
	pull	1 154
	pull high temperature	1 156
	recessed	1 164
	carrying	1 153
	for aluminium profile	5 354
	flexible for tube	5 156
	thermoplastic T-shaped	1 150
	rotating for stainless steel handwheel	1 115

Handling		5 22
Handwheel	polyamide 3 spoked	1 103
	aluminium spoked	1 112
	solid thermosetting plastic	1 99
	solid stainless steel	1 116
Head	swivel for conveyor	5 121
Heat treatment	technical information	4 334
Hinge	friction	5 243
	spring-loaded	5 245
	weld-on	5 228
	screw-on	5 208
	indexing position	5 242
	guide	5 206
	nested door	5 240
	long	5 226
	for aluminium profile	5 350
	without pin	5 223
	weld-on with flat end	5 228
Holder	for panels	5 279
	accessory for aluminium profile	5 383
	cell	5 125, 367
	label	5 381
Hook	for bonnet fastener	1 192
	with eye bolt	1 448
Housing	bearing for ball screws	3 336, 346
	for linear bearing	3 255, 268
	quadruple for linear bearing	3 274
Hygienic®	usit® and DESIGN® lever, bolt, knob, screw	1 604
Hypoid	hypoid gearbox	2 348
Idler	chain sprocket	4 139
	belt tensioner	4 146
Indexing	and positioning	1 8
Indicator	position, mechanical and electronic	1 251
	accessories	1 259
	mechanical position	1 252
	electronic position	1 260
Insert	self-tapping	1 586
	Master-Plate® glueable	1 594
	for suction cup	5 13
	thread repair	1 580
Joint	clevis and trunnion	1 326
	ball joint	1 324
	angle connection for aluminium profile	5 324
	ball and socket	1 324

Joint cover	for cardan joints	2 96
Junction	chain link	4 123
	plate for belt by the meter	4 32, 59, 85
	for chain	1 452
Key	box	1 632
	keysteel bar	1 489
	rounded parallel	1 490
	universal for cam latch	5 203
Knob	hand thumb	1 148
	wing	1 122
	wing (Hygienic®)	1 619
	detectable	New 1 136
	spherical	1 142
	6-lobe knob male	1 121, 130
	6-lobe knob female	1 120, 128
	3 lobe	1 124
Latch	spring loaded	5 196
	catch-plate	5 197
	toogle	1 168
	turn-to-open	1 194
	spring loaded	5 196
	cam	5 203
	quarter-turn lock	5 204
	slam	5 198
	quarter-turn	5 204
Lever	cam	1 210
	with cylindrical handle	1 141
	clamping	1 86, 88, 614
Limiter	torque	2 99
Link	quick link for chain	1 452
	for transmission chain	4 123
Lock	doorstop	5 277
	for aluminium profile	5 357
	retaining catch	1 212
Lock nut	for bearings	3 104
Locking	assembly	2 121
	self-centering hub	2 132
Magnet	magnetic stud	1 242
	doorstop	5 284
Masterflex	flexible transmission shaft	2 26
Mini-table	with trapezoidal screw	3 390
Motor	AC	2 286
	stainless steel AC	2 336

Motorgearbox	AC	2 293, 269
	DC	2 272
Mounting	block panel for aluminium profile	5 382
Nut	wing	1 566
	self-locking (fasteners)	1 571
	for high helix leadscrew	3 332
	blind (Hygienic®)	1 613, 623
	for ball screws	New 3 339
	for aluminium profile	5 315
	for T slot	1 573
	for bearings	3 104
	hex DIN934	1 569
	self locking counter nut	1 495
	trapezoidal	3 319
Pad eye	oval mounting plate	1 438
Panamech	coupling	2 16
Pin	fastening pin with ring	1 500
	locking pin with interlocking safety latch	1 501
	clamping	1 12
	locking pin for sleeve	1 228, 230
	beta	1 496
	dowel	1 504
	spring	1 502
	extractable dowel	1 508
	lock pin for clamping	1 220
Pipe	U bolt holder	1 532
Plate	mounting plate for ball joint or clevis	1 322
	connecting plate for belt	4 32, 59, 85
	connecting plate for aluminium profile	5 318
Plunger	indexing	1 52
	with electrical contact	1 47
	with sensor adaptator	1 50
	spring-loaded	1 42, 48
Polishing	block for aluminium profile	5 311
Potentiometer	for DC motor	2 285
Power supply		2 280
Press	manual workbench + accessories	5 16
Profile	guide for conveyor	5 107
	sliding panel support	5 286
	sliding support for slat top chain	5 96
	aluminium modular structure	5 294
Pulley	timing positionning	4 41, 62
	timing transmission	4 14
	tensioner	4 148

Rack		4 196
Rail	IKO linear guide	3 152, 172, 194, 204
	linear guide	New 3 164, 186
	V-shaped Utilitrack®	3 280, 284
	Drylin® T	3 212
	Drylin® N	3 218
	Drylin® W	3 225
	Dual Vee®	3 298
Ramp	roller	5 26, 110
	with cylindrical brushes	5 25
Rigging	with jaws	1 446
	crimping	1 447
	turnbuckle with ring and hooks	1 442
Ring	lifting	1 462
	shaft locking circlip	1 494
	locking	2 113, 118
	clamping	2 116
	locking for leadscrew	3 326
	circlips type E	1 494
	lifting with ball pin	1 468, 470
	slewing	3 426
Rod	threaded rod for clamp	5 118
	rod end	3 128
	threaded	1 529
	trapezoidal leadscrew	3 314
Roller	omnidirectional	5 32
	track for dynamic storage	5 26
	guide for conveyor	5 110
	free running for gravity conveyors	5 30
Screw	ballscrew	New 3 334, 338, 340
	wing	1 566
	high helix leadscrew	3 331
	socket head button	1 562
	socket head cylindrical	1 554
	hexagonal head	1 563
	with ball head (Hygienic®)	1 620
	socket head countersunk	1 560
	magnetic head	1 238
	dual thread wood/metal combination	1 593
	trapezoidal leadscrew	3 314
	cup point set grubscrew	1 538
	knurled thumb	147
	shoulder	1 546
	hexagonal head (Hygienic®)	1 610, 624
	hammerhead for aluminium profile	5 316

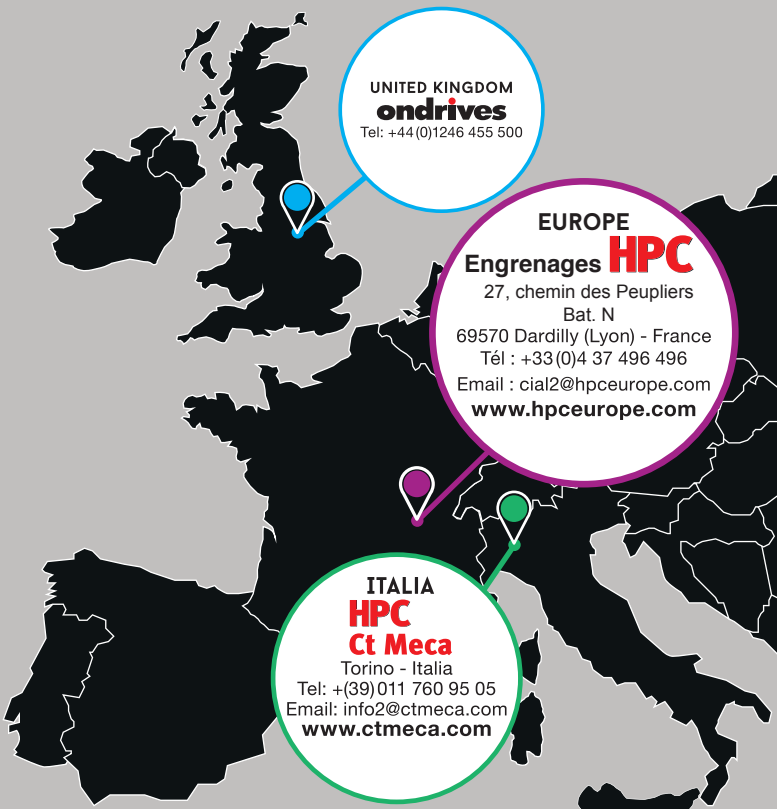
S

Screwjack	rotating nut and travelling screw	3 372
Screws		1 534
Seal	with lips for aluminium profiles	5 376
	linear strip by the meter	5 192
	O-rings (box)	1 638
Sealing	brush strip	5 176
	linear strip by the meter	5 192
Servo amplifier	electronic for DC motor + accessories	2 282, 284
	electronic for actuator	3 370
Shackle	straight	1 432
	bow	1 434
Shaft	splinned	2 108, 110
	splinned with balls	3 150
	hexagonal DIN176	2 248
	for linear guidance	3 244
	flexible for transmission	2 62
	for tensioner pulley	4 151
Shock absorber	shock absorber	1 334
	elasto mount	1 342
Size	rack teeth	4 205
	gear teeth	4 307
Sleeve	positioning for indexing pin	1 78
	cylindrical	1 528
	hexagonal	1 524
	reducer	1 526
	for cable	1 421
Slide	linear motion	3 140
	telescopic (drawer)	5 260
Spacer	hexagonal	1 516
	cylindrical	1 510
	hexagonal	1 516
	for indexing bolt	1 67
Speed variator	mechanical	2 330
Spirobevel	gear	4 170
Spring	per meter	1 286
	compression	1 270
	conical compression	1 282
	torsion	1 298
	extension	1 288
	die spring	1 300
	gas spring	1 315

S		
Sprocket	steel	4 94
	stainless steel	4 94
	polyamide	New 4 92
	hardened teeth	4 104
	chain tensioner	4 139
Stay	with safety catch	5 254
Stop	magnetic	5 363
	dual ball clutch	5 360
	adjustable screw	1 217
	elastic shock absorber	1 354
	door for aluminium profile	5 362
	for panels	5 278
Strip	feeler	3 114
	sealing for aluminium profile	5 380
	strip brush	5 176
Structure	square tube + accessories	5 267
	modular aluminium + accessories	5 292
Stud	threaded	1 530
	magnetic	1 242
Suction cup	accessories	5 13
	bellows gripping	5 10
Support	support element for square tube	5 270
	bracket for indexing plunger	1 76
	for guide shaft	3 252
	for cell and detector	5 368
	guides bracket for conveyor	5 122
	screen for aluminium profile	5 385
System	for closing	1 168 5 357
	sliding lock adjustment	1 232
T		
Table	linear	3 275, 384, 390
	with opposite threads	3 396
	lifting vertical stroke	3 400
Tensioner	for chains or belt	4 130
	Roll-ring® for chain	4 136
Toggle	vertical clamp	1 198
Tripod	support element	New 5 145
Trunnion	clip for clevis	1 326
Tube	carrier	5 126
	connector	5 271
	clamp junction	5 135
	reflector holder	5 132
	articulated clamp	5 133
	square	5 269
Unit	H-guide for cylinder	3 434

W		
Washer	captive C Washer	1 215
	spherical self-aligning	1 576
	sealing Hygienic®	1 607
	safety Hygienic®	1 626
	dynamic DIN 2093	1 308
	for clamping	1 578
	swivel DIN6371	1 214
	simple DIN125 (screws)	1 574, 656
Wheel	rubber wheel for conveyor	5 93
	for conveyor	5 28
	for slat top chain	5 90
	roller for aluminium profile	5 373
	with solid rubber tyre	5 56
	polyamide	5 51
	high temperatures	5 65
	free running	5 62
Worm	for wormwheel standard range	4 174
	for wormwheel precision range	4 360
Wormwheel	precision range	4 360
	standard range	4 174

HPC IN EUROPE



Engrenages HPC
27 chemin des Peupliers
Bât N
69570 Dardilly - France
Tél. : +33 (0)4 37 496 496
Email :
cial2@hpceurope.com
www.hpceurope.com

HPC Ct Meca
Ufficio di rappresentanza in Italia
C.so Vittorio Emanuele II N. 71
10128 Torino - Italia
Tel: +(39) 011 760 95 05
Email: info2@ctmeca.com
www.ctmeca.com

PEFC
10-31-1601

Also available:

For download:

CAD PDF

HPC
Français

English

Italiano

HPC Ct Meca