

HPC

Mechanical components by mail order

4/5
2016

Standard



Precision

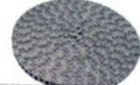
Gears and sprockets



Tel: +33 (0)4 37 496 496

www.hpceurope.com

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			 Until -40%
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Discounts: maximum discount on price list 2015

Stock: depending on availability

New: new product

2/4

			
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PRECISION RANGE

			
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Discounts: maximum discount on price list 2015
 Stock: depending on availability
 New: new product

4/4

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**ASK FOR YOUR GUIDE!
 MADE TO MEASURE**

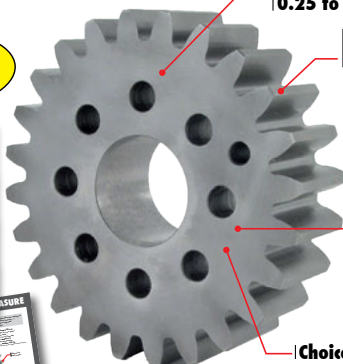
FREE!

**Modules from
 0.25 to 8**

**Alternative
 teeth widths**

**Modifications
 to bore,
 keyway or
 tapped hole**

Choice of material



INDEX ICONS

Internal bore



Modifiable



Non-modifiable

Angles



45°



90°



17°45'

Load



Axial load



Radial load



Heavy duty



Max load
1 tonne

Delivery time



48h



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

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

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SERVICES AVAILABLE FROM **HPC**



EASY ORDERING

- Personalised advice from our technical and sales teams is available by telephone from Monday to Friday from 08.00 to 12.20 and 13.40 to 18.00, just call +33 (0) 4 37 496 496
- We can also be contacted by fax, email or post.



PERSONALISED SOLUTIONS

- 190 000 standard parts available from stock
- **Custom parts** can be machined to order from samples or drawings
- Items not listed in catalogue can also be supplied
- Medium and large production runs available on request



ONLINE ORDERING AVAILABLE 24/24

- **www.hpceurope.com** references 31,000 parts
- Instant online quote generation
- Datasheets in PDF format and 3D models can be **downloaded free of charge** from the site
- Package tracking





SAFE PAYMENT



**Credit
card**



**Bank
Transfer**



Cheque



**Bank
draft**

Our bank details:
BNP PARIBAS
18 Chemin de Gargantua
69570 Dardilly
N° de compte: 00010041122



FAST DELIVERY

- Any order for articles in stock received before
- **14.00 will** be delivered before 18.00 the following day*
- Free delivery for all orders over 50€*



GENERAL INFORMATION

Engrenages HPC SARL, share capital 76 224€
N°382 911 907 RCS Lyon
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TVA FR 41 382 911 907

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69570 Dardilly – Lyon – France
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Website: www.hpceurope.com
Tel: +33(0)4 37 496 496
Fax: +33(0)4 37 490 055**

*Some restrictions apply. For deliveries to French mainland only.

**DETACHABLE
V BELTS**



p.10

**HTD TYPE TOOTH
BAR STOCK**



p.14

**HEAVY DUTY
TIMING PULLEY**



p.17

**PULLEYS AND
TIMING BELTS**
p.10 - 35

**RPP HEAVY DUTY
TIMING BELT**



p.25

**HTD TYPE TOOTH
BAR STOCK**



Until
-40%**

p.34

**On 2015 price

Detachable V belts



STL **SUPERLINK**
SP WEDGE BELTS

Available to suit SPA,
SPB and SPZ pulleys

- SP compatible SuperLink belts offer the same performance as original SP belts but with a many additional benefits.

- A longer lasting V shaped belt.

SuperLink detachable V belts are made from a polyester/polyurethane composite. This combination ensures a longer belt life even in the harshest conditions — up to 20 times longer in some applications.

- High resistance to extreme temperatures (-40° to +100°C)
- High resistance to abrasive materials
- High resistance to water, steam, oil and most chemicals

- Quick and easy mounting

The link style construction means that belts can be fitted easily and quickly even on difficult to access drives. Belts can be joined around the shafts without dismantling the drive.

- Can be assembled to any length, reduces the number of belts in stock.

With SuperLink detachable V belts, there is no need to hold stocks of every belt length. Make to length on site simply by adding or removing links.

- Minimal maintenance – “Fit and Forget”

High quality materials ensure that the belt displays minimal stretch even over long periods. Almost no re-tensioning required.



**Quick
assembly**



Typical applications

- Reduced belt vibration and noise

The link design means that these belts can reduce transmitted vibration and belt noise by up to 50%.

DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	Type of section	Length (mm)	Stock*	Price each 1 to 4
STL-SPZ	SPZ	1000	✓	97,56 €
STL-SPA	SPA	1000	✓	97,56 €
STL-SPB	SPB	1000	✓	108,06 €

Dependings on availability - Dimensions in mm



Detachable **V** belts

For V shaped pulleys

PowerTwist Plus PTP

PowerTwist Plus V belts are designed to excel in applications where conventional belts will not work or are difficult to install. PowerTwist Plus offers many advantages.

- Quick and easy installation.

Downtime is no longer measured in hours but in minutes. PowerTwist Plus is hand assembled on site to the length required. Equipment does not have to be stripped down and no special tools or welding is required.

**Quick
assembly**



- Long operating life

PowerTwist Plus is capable of high performance even in the most difficult conditions. The belts resist high temperatures (greater than 100°C), abrasion and exposure to oil, grease, water, steam and solvents/chemicals.

- Reduced maintenance.

No re-tensioning or lubrication is required.

- Reduced noise.

The design of PowerTwist Plus means that noise is reduced by up to 50%

- Greater lengths available

PowerTwist Plus can be assembled to the length required and allows greater spacing between pulleys

- Reduced stock

With PowerTwist Plus there is no longer need to hold stocks of every belt length.

- No marking/scuffing

PowerTwist Plus will never leave any marks on the product being transported



Typical applications

DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	Type of section	Length (mm)	Stock*	Price each 1 to 4
PTP-Z/10	Z/10	2000	✓	105,60 €
PTP-A/13	A/13	2000	✓	107,57 €
PTP-B/17	B/17	2000	✓	124,92 €

Depending on availability - Dimensions in mm

Detachable **V** belts

STL
PTP

Installation instructions

PowerTwist Plus
V-BELTS

SUPER T LINK
SP WEDGE BELTS

1 - How to measure the length

- 1 - Pull the belt tight around the pulleys to check hand tight length, overlapping the last two holes on the end with the corresponding studs in the opposite end to determine the initial length. (See Fig. 1.)
- 2 - Count the total number of links and remove the appropriate number of links to obtain the necessary pre-tension. For Z, A and B sections remove 1 in 11 links, for C sections remove 1 in 13, for SPZ, SPA and SPB sections remove 1 in 15 and for SPC remove 1 in 17. On multi-belt drives ensure that each belt has the same number of links.



Figure 1

2 - Dismantling

- 1 - To unfasten, turn 2 adjacent stud heads 90° (See Fig 2).
- 2 - Insert tool and twist (See Fig. 3).



Figure 2



Figure 3

3 - Installation

- 1 - The belt will run equally well in either direction. For multiple belt drives install all belts to run in the same direction.
- 2 - Join the two ends of the belt, around the pulley shafts if necessary, by inserting the stud heads of the last links into the corresponding holes and turning the heads 90°.
- 3 - Fit belt into nearest groove of the smallest pulley and roll belt onto the larger pulley by hand turning the drive slowly. Fig. 4. The belt may seem very tight, this is normal. DO NOT DISTURB THE MOTOR.
- 4 - For close ratio drives additional links may need to be added to ease installation.
(NOTE: This does not apply if using the Alternative Installation Method.)



Figure 4

4 - Alternative Installation Method

- 1 - Set motor to mid-position of adjustment range and mark the base clearly.
- 2 - Determine required belt length as in I.
- 3 - Push motor forward to minimum centre distance.
- 4 - Install belts as in III.
- 5 - Pull motor back to previously marked mid-position.

5 - Re-tensioning

Like all high performance V belts, SuperLink require the correct drive tension to be maintained to operate efficiently. Experience indicates that drive tension should be checked after 20 - 30 minutes running at full load. Re-tensioning may be necessary after 24 hours depending on the how hard the drive has been driven. Any initial belt stretch should then be taken up. Subsequently, belt tension should be checked periodically and adjusted as and when necessary.

HTD type tooth bar stock



HTD5M-BAR

Aluminium

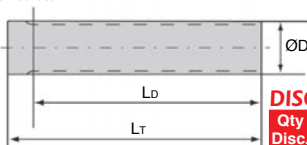


- Bar stock to be cut to length by the customer
- The overall length is the same as the maximum length
- Material : Aluminium suitable for hard anodising
- Finish : Supplied not anodised



Info.

- We are unable to modify this product



DISCOUNTS

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

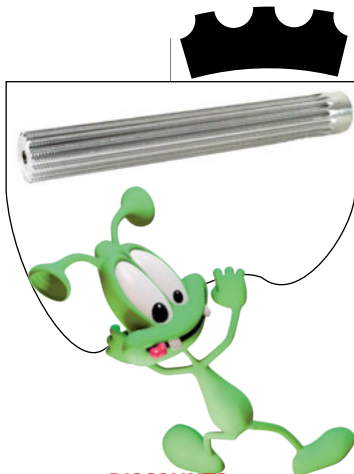
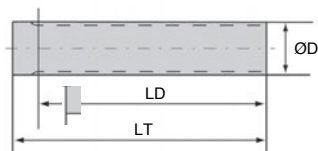
Part number	Z Teeth	ØD External	Length of teeth L _d	Total length L _t	Price each 1 to 5
12HTD5M-BAR	12	17,96	150	160	9,17 €
13HTD5M-BAR	13	19,55	150	160	10,01 €
14HTD5M-BAR	14	21,14	175	200	12,75 €
15HTD5M-BAR	15	22,73	175	200	14,02 €
16HTD5M-BAR	16	24,33	175	200	15,24 €
17HTD5M-BAR	17	25,92	175	200	15,31 €
18HTD5M-BAR	18	27,51	200	200	18,21 €
19HTD5M-BAR	19	29,10	200	200	19,90 €
20HTD5M-BAR	20	30,69	200	200	21,47 €
21HTD5M-BAR	21	32,28	200	200	22,39 €
22HTD5M-BAR	22	33,88	200	200	23,30 €
23HTD5M-BAR	23	35,47	200	200	25,07 €
24HTD5M-BAR	24	37,06	200	200	26,94 €
25HTD5M-BAR	25	38,65	200	200	28,89 €
26HTD5M-BAR	26	40,24	200	200	31,89 €
27HTD5M-BAR	27	41,83	200	200	32,04 €
28HTD5M-BAR	28	43,42	200	200	35,35 €
30HTD5M-BAR	30	46,61	200	200	37,77 €
32HTD5M-BAR	32	49,79	200	200	40,31 €
34HTD5M-BAR	34	52,97	200	200	44,27 €
36HTD5M-BAR	36	56,16	200	200	50,99 €
38HTD5M-BAR	38	59,34	200	200	54,14 €
40HTD5M-BAR	40	62,52	200	200	58,83 €
42HTD5M-BAR	42	65,71	200	200	63,67 €
44HTD5M-BAR	44	68,89	200	200	75,41 €
45HTD5M-BAR	45	70,48	200	200	76,78 €
48HTD5M-BAR	48	75,26	200	200	84,48 €
50HTD5M-BAR	50	78,44	200	200	94,17 €
60HTD5M-BAR	60	94,36	200	200	127,72 €
72HTD5M-BAR	72	113,45	200	200	179,93 €

Dimensions in mm

- 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



DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth L _D	Total length L _T	Price each 1 to 5
18HTD8M-BAR	18	44,47	200	200	43,61 €
19HTD8M-BAR	19	47,01	200	200	46,60 €
20HTD8M-BAR	20	49,56	200	200	49,15 €
21HTD8M-BAR	21	52,11	200	200	51,15 €
22HTD8M-BAR	22	54,65	200	200	53,64 €
23HTD8M-BAR	23	57,20	200	200	56,15 €
24HTD8M-BAR	24	59,75	200	200	58,65 €
25HTD8M-BAR	25	62,29	200	200	60,14 €
26HTD8M-BAR	26	64,84	200	200	65,18 €
28HTD8M-BAR	28	69,93	200	200	71,71 €
30HTD8M-BAR	30	75,03	200	200	81,71 €
32HTD8M-BAR	32	80,12	200	200	94,86 €
34HTD8M-BAR	34	85,21	200	200	103,28 €
35HTD8M-BAR	35	87,76	200	200	114,42 €
36HTD8M-BAR	36	90,30	200	200	120,00 €
38HTD8M-BAR	38	95,40	200	200	134,00 €
40HTD8M-BAR	40	100,49	200	200	146,79 €
44HTD8M-BAR	44	110,67	200	200	174,16 €
48HTD8M-BAR	48	120,86	200	200	203,76 €

Dimensions in mm

Heavy duty timing pulley



Pitch
3mm

Aluminium

Belt width 9mm



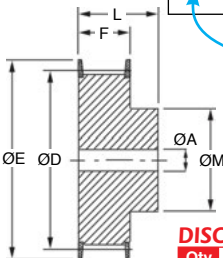
- For use with RPP3 belt
- Pitch: 3mm
- Material: aluminium

Accessories

- Belts RPP3
- Belt idler roller GTC

Info.

- Pre-bore dimension is a guide only
- To be finished to size customer
- We are unable to modify these parts.



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	No. of teeth	PCD Ø	External ØD	Flange OE	ØM	F	L	Prebore ØA	Stock*	Price each 1 to 5
10HTD3M-09F	10	9,55	8,79	13,0	13,0	10,2	17,5	Solid	✓	5,87 €
12HTD3M-09F	12	11,46	10,70	15,0	15,0	10,2	17,5	Solid	✓	5,87 €
14HTD3M-09F	14	13,37	12,61	16,0	16,0	10,2	17,5	Solid	✓	5,98 €
15HTD3M-09F	15	14,32	13,56	17,5	17,5	10,2	17,5	Solid	✓	5,98 €
16HTD3M-09F	16	15,28	14,52	17,5	10,0	12,8	20,6	4	✓	6,39 €
18HTD3M-09F	18	17,19	16,43	20,0	11,0	12,8	20,6	6	✓	6,51 €
20HTD3M-09F	20	19,10	18,34	23,0	13,0	12,8	20,6	6	✓	6,56 €
21HTD3M-09F	21	20,05	19,29	25,0	14,0	12,8	20,6	6	✓	6,75 €
22HTD3M-09F	22	21,01	20,25	25,0	14,0	12,8	20,6	6	✓	6,98 €
24HTD3M-09F	24	22,92	22,16	25,0	14,0	12,8	20,6	6	✓	7,42 €
26HTD3M-09F	26	24,83	24,07	28,0	16,0	12,8	20,6	6	✓	7,56 €
28HTD3M-09F	28	26,74	25,98	32,0	18,0	12,8	20,6	6	✓	7,68 €
30HTD3M-09F	30	28,65	27,89	32,0	20,0	12,8	20,6	6	✓	7,85 €
32HTD3M-09F	32	30,56	29,80	36,0	22,0	12,8	20,6	6	✓	8,34 €
36HTD3M-09F	36	34,38	33,62	39,0	26,0	13,4	22,2	6	✓	8,87 €
40HTD3M-09F	40	38,20	37,44	42,0	28,0	13,4	22,2	6	✓	9,77 €
44HTD3M-09F	44	42,02	41,26	48,0	33,0	13,4	22,2	6	✓	11,27 €
48HTD3M-09	48	45,84	45,08	-	33,0	13,4	22,2	8	✓	12,21 €
60HTD3M-09	60	57,30	56,54	-	33,0	13,4	22,2	8	✓	13,67 €
72HTD3M-09	72	68,75	67,99	-	33,0	13,4	22,2	8	✓	15,68 €

*Depending on availability - Dimensions in mm

Steel or aluminium

Pitch 5mm

Belt width 9mm

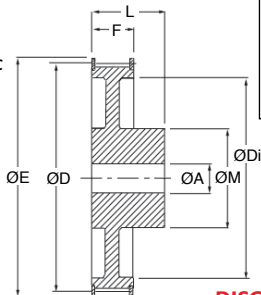
- For use with RPP5 belt
- Pitch: 5mm
- Material:
aluminium or phosphated
steel depending on size

Accessories

- Belts RPP5
- Belt idler roller GTC

Info.

- Pre-bore
dimension is a
guide only
- To be finished to
size by customer
- **We are unable
to modify these
parts.**



Supplied
pre-bored



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -5%	-10%	-15%	-20%	On request	

Part number	Material	No. of teeth	PCD Ø external	ØD flange	OE	OM	ODi	F	L	Pre-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	✓	5,28 €
14HTD5M-09F		14	22,28	21,14	25,0	13,0	-	14,5	20,0	6	✓	5,70 €
15HTD5M-09F		15	23,87	22,73	28,0	16,0	-	14,5	20,0	6	✓	5,98 €
16HTD5M-09F		16	25,46	24,32	28,0	16,5	-	14,5	20,0	6	✓	6,33 €
18HTD5M-09F		18	28,65	27,51	32,0	20,0	-	14,5	20,0	6	✓	6,98 €
20HTD5M-09F		20	31,83	30,69	36,0	23,0	-	14,5	22,5	6	✓	7,42 €
21HTD5M-09F		21	33,42	32,28	38,0	24,0	-	14,5	22,5	6	✓	7,68 €
22HTD5M-09F		22	35,01	33,87	39,0	25,5	-	14,5	22,5	6	✓	7,99 €
24HTD5M-09F		24	38,20	37,06	42,0	27,0	-	14,5	22,5	6	✓	8,49 €
26HTD5M-09F		26	41,38	40,24	44,0	30,0	-	14,5	22,5	6	✓	8,87 €
28HTD5M-09F		28	44,56	43,42	48,0	30,5	-	14,5	22,5	6	✓	9,25 €
30HTD5M-09F		30	47,75	46,60	51,0	35,0	-	14,5	22,5	6	✓	9,61 €
32HTD5M-09F	Aluminium	32	50,93	49,79	54,0	38,0	-	14,5	22,5	8	✓	10,85 €
36HTD5M-09F		36	57,30	56,16	60,0	38,0	-	14,5	22,5	8	✓	11,32 €
40HTD5M-09F		40	63,66	62,52	71,0	38,0	-	14,5	22,5	8	✓	11,73 €
44HTD5M-09		44	70,03	68,89	-	38,0	54	14,5	25,5	8	-	18,00 €
48HTD5M-09		48	76,39	75,25	-	45,0	61	14,5	25,5	8	✓	19,86 €
60HTD5M-09		60	95,49	94,35	-	45,0	80	14,5	25,5	8	✓	29,08 €
72HTD5M-09		72	114,59	113,45	-	45,0	100	14,5	25,5	8	✓	41,13 €

*Depending on availability - Dimensions in mm

Heavy duty timing pulley



Pitch
5mm

Steel or aluminium

Belt width 15mm



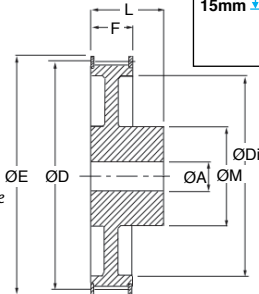
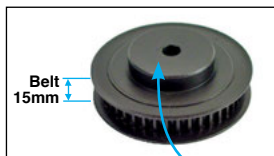
- For use with RPP5 belt
- Pitch: 5mm
- Material:
Aluminium or phosphated
steel depending on size

Accessories

- Belts RPP5
- Belt idler roller GTC

Info.

- Pre-bore dimension is a guide only
- To be finished to size customer
- **We are unable to modify these parts.**



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	No. of PCD Ø ØD								Pre-bore ØA	Stock*	Price each 1 to 5
		teeth	external	flange	ØE	ØM	ØDi	F	L			
12HTD5M-15F	Steel	12	19,10	17,96	23,0	13,0	-	20,5	26,0	Plein	✓	6,18 €
14HTD5M-15F		14	22,28	21,14	25,0	13,0	-	20,5	26,0	6	✓	6,56 €
15HTD5M-15F		15	23,87	22,73	28,0	16,0	-	20,5	26,0	6	✓	6,98 €
16HTD5M-15F		16	25,46	24,32	28,0	16,5	-	20,5	26,0	6	✓	7,08 €
18HTD5M-15F		18	28,65	27,51	32,0	20,0	-	20,5	26,0	6	✓	7,68 €
20HTD5M-15F		20	31,83	30,69	36,0	23,0	-	20,5	26,0	6	✓	8,13 €
21HTD5M-15F		21	33,42	32,28	38,0	24,0	-	20,5	26,0	6	-	8,49 €
22HTD5M-15F		22	35,01	33,87	39,0	25,5	-	20,5	26,0	6	✓	8,87 €
24HTD5M-15F		24	38,20	37,06	42,0	27,0	-	20,5	28,0	6	✓	9,54 €
26HTD5M-15F		26	41,38	40,24	44,0	30,0	-	20,5	28,0	6	✓	10,07 €
28HTD5M-15F		28	44,56	43,42	48,0	30,5	-	20,5	28,0	6	✓	10,85 €
30HTD5M-15F		30	47,75	46,60	51,0	35,0	-	20,5	28,0	6	✓	11,73 €
32HTD5M-15F		32	50,93	49,79	54,0	38,0	-	20,5	28,0	8	✓	12,31 €
36HTD5M-15F		36	57,30	56,16	60,0	38,0	-	20,5	28,0	8	✓	13,01 €
40HTD5M-15F		40	63,66	62,52	71,0	38,0	-	20,5	28,0	8	✓	14,02 €
44HTD5M-15	Aluminium	44	70,03	68,89	-	38,0	054	20,5	30,0	8	✓	21,05 €
48HTD5M-15		48	76,39	75,25	-	38,0	061	20,5	30,0	8	✓	23,23 €
60HTD5M-15		60	95,49	94,35	-	50,0	080	20,5	30,0	8	✓	34,46 €
72HTD5M-15		72	114,59	113,45	-	50,0	100	20,5	30,0	8	✓	46,74 €

*Depending on availability - Dimensions in mm

Steel or aluminium

Pitch
5mm

Belt width 25mm

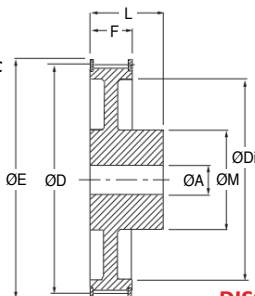
- For use with RPP5 belt
- Pitch: 5mm
- Material:
Aluminium or phosphated steel
depending on size

Accessories

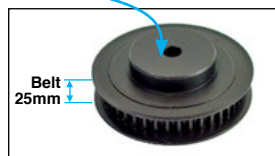
- Belts RPP5
- Belt idler roller GTC

Info.

- Pre-bore dimension is a guide only
- To be finished to size by customer
- **We are unable to modify these parts.**



Supplied pre-bored



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -5%	List -10%	List -15%	List -20%	On request	On request

Part number	Material	No. of teeth	PCD Ø external	flange ØE	ØM	ØDi	F	L	Pre-bore ØA	Price each 1 to 5
12HTD5M-25F	Steel	12	19,10	17,96	23,0	13,0	-	30,5	36	7,56 €
14HTD5M-25F		14	22,28	21,14	25,0	13,0	-	30,5	36	8,13 €
15HTD5M-25F		15	23,87	22,73	28,0	16,0	-	30,5	36	8,49 €
16HTD5M-25F		16	25,46	24,32	28,0	16,5	-	30,5	36	8,87 €
18HTD5M-25F		18	28,65	27,51	32,0	20,0	-	30,5	36	9,25 €
20HTD5M-25F		20	31,83	30,69	36,0	23,0	-	30,5	36	10,07 €
21HTD5M-25F		21	33,42	32,28	38,0	24,0	-	30,5	38	10,37 €
22HTD5M-25F		22	35,01	33,87	39,0	25,5	-	30,5	38	11,08 €
24HTD5M-25F		24	38,20	37,06	42,0	27,0	-	30,5	38	12,21 €
26HTD5M-25F		26	41,38	40,24	44,0	30,0	-	30,5	38	12,88 €
28HTD5M-25F		28	44,56	43,42	48,0	30,5	-	30,5	38	13,93 €
30HTD5M-25F		30	47,75	46,60	51,0	35,0	-	30,5	38	15,14 €
32HTD5M-25F	Aluminium	32	50,93	49,79	54,0	38,0	-	30,5	38	16,07 €
36HTD5M-25F		36	57,30	56,16	60,0	38,0	-	30,5	38	16,84 €
40HTD5M-25F		40	63,66	62,52	71,0	38,0	-	30,5	38	19,35 €
44HTD5M-25		44	70,03	68,89	-	38,0	-	30,5	40	27,01 €
48HTD5M-25		48	76,39	75,25	-	38,0	061	30,5	40	31,39 €
60HTD5M-25		60	95,49	94,35	-	50,0	080	30,5	40	42,75 €
72HTD5M-25		72	114,59	113,45	-	50,0	100	30,5	40	60,02 €

*Depending on availability - Dimensions in mm

Heavy duty timing pulley



Pitch 8mm

Steel or cast iron

Belt width 20mm



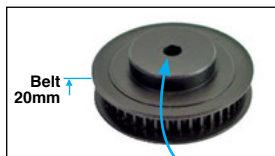
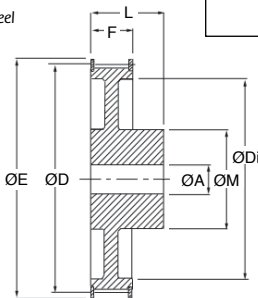
- For use with RPP8 belt
- Pitch: 8mm
- Material:
Cast iron or phosphated steel
depending on size

Accessories

- Belts RPP8
- Belt idler roller GTC

Info.

- Pre-bore dimension is a guide only
- To be finished to size by customer
- We are unable to modify these parts.



Supplied pre-bored

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	No. of teeth	PCD Ø	external ØD	flange OE	ØM	ØDi	F	L	Pre-bore ØA	Stock*	Price each 1 to 5
22HTD8M-20F	Steel	22	56,02	54,65	60,0	43	-	28	38	12	✓	12,04 €
24HTD8M-20F		24	61,12	59,75	66,0	45	-	28	38	12	✓	13,37 €
26HTD8M-20F		26	66,21	64,85	70,0	48	-	28	38	12	✓	14,26 €
28HTD8M-20F		28	71,30	70,08	75,0	50	-	28	38	15	✓	15,82 €
30HTD8M-20F		30	76,39	75,13	82,5	55	-	28	38	15	✓	18,15 €
32HTD8M-20F		32	81,49	80,16	87,0	60	-	28	38	15	✓	20,03 €
34HTD8M-20F		34	86,58	85,22	91,0	66	-	28	38	15	✓	22,28 €
36HTD8M-20F		36	91,67	90,30	97,0	70	-	28	38	15	✓	24,60 €
38HTD8M-20F		38	96,77	95,39	102,0	75	-	28	38	15	-	27,01 €
40HTD8M-20F		40	101,86	100,49	106,0	75	-	28	38	15	-	29,15 €
44HTD8M-20F		44	112,05	110,67	120,0	75	-	28	38	15	✓	34,72 €
48HTD8M-20F		48	122,23	120,86	128,0	75	-	28	38	15	✓	40,04 €
56HTD8M-20F		56	142,60	141,23	150,0	80	116	28	38	15	✓	51,20 €
64HTD8M-20F		64	162,97	161,60	168,0	80	137	28	38	15	✓	62,89 €
72HTD8M-20F		72	183,35	181,97	192,0	80	158	28	38	15	✓	75,58 €
80HTD8M-20	Cast	80	203,72	202,35	-	90	180	28	38	15	-	71,91 €
90HTD8M-20		90	229,18	227,81	-	90	204	28	38	15	-	81,88 €

*Depending on availability - Dimensions in mm

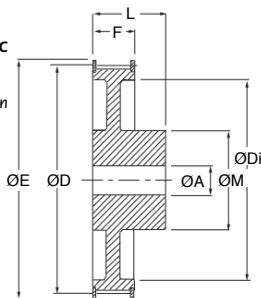
- For use with RPP8 belt
- Pitch: 8mm
- Material:
Cast iron or phosphated steel
depending on size

Accessories

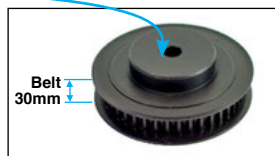
- Belts RPP8
- Belt idler roller GTC

Info.

- Pre-bore dimension is a guide only
- To be finished to size by customer
- We are unable to modify these parts.



Supplied
pre-bored



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	No. of teeth	PCD Ø	external ØD	flange OE	ØM	ØDi	F	L	Pre-bore ØA	Stock*	Price each 1 to 5
22HTD8M-30F	Steel	22	56,02	54,65	60,0	43	-	38	48	12	✓	13,47 €
24HTD8M-30F		24	61,12	59,75	66,0	45	-	38	48	12	✓	15,41 €
26HTD8M-30F		26	66,21	64,85	70,0	48	-	38	48	12	✓	17,45 €
28HTD8M-30F		28	71,30	70,08	75,0	50	-	38	48	15	-	19,35 €
30HTD8M-30F		30	76,39	75,13	82,5	55	-	38	48	15	✓	22,20 €
32HTD8M-30F		32	81,49	80,16	87,0	60	-	38	48	15	-	24,60 €
34HTD8M-30F		34	86,58	85,22	91,0	66	-	38	48	15	-	27,24 €
36HTD8M-30F		36	91,67	90,30	97,0	70	-	38	48	15	✓	30,08 €
38HTD8M-30F		38	96,77	95,39	102,0	75	-	38	48	15	-	33,09 €
40HTD8M-30F		40	101,86	100,49	106,0	75	-	38	48	15	✓	35,84 €
44HTD8M-30F		44	112,05	110,67	120,0	75	-	38	48	15	-	42,71 €
48HTD8M-30F		48	122,23	120,86	128,0	75	-	38	48	15	✓	49,39 €
56HTD8M-30F		56	142,60	141,23	150,0	90	116	38	48	15	✓	68,79 €
64HTD8M-30F		64	162,97	161,60	168,0	90	137	38	48	15	-	85,00 €
72HTD8M-30F		72	183,35	181,97	192,0	95	158	38	48	15	-	99,80 €
80HTD8M-30	Cast	80	203,72	202,35	-	100	180	38	48	15	-	89,05 €
90HTD8M-30		90	229,18	227,81	-	100	204	38	48	15	-	97,04 €

*Depending on availability - Dimensions in mm

Heavy duty timing pulley



Pitch
8mm

Belt width 50mm



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

Accessories

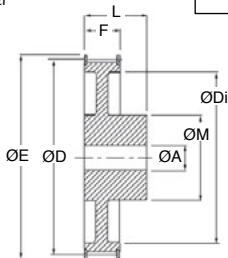
- Belts RPP8
- Belt idler roller GTC

Info.

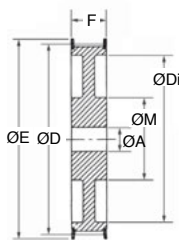
- Pre-bore dimension is a guide only
- To be finished to size by customer
- **We are unable to modify these parts.**

Steel or cast iron

Supplied pre-bored



up to 48 teeth



more than 56 teeth

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	No. of teeth	PCD Ø external	ØD flange	OE	ØM	ØDi	F	L	Pre-bore ØA	Price each 1 to 5
22HTD8M-50F	Steel	22	56,02	54,65	60,0	43	-	60	70	-	18,41 €
24HTD8M-50F		24	61,12	59,75	66,0	45	-	60	70	-	21,23 €
26HTD8M-50F		26	66,21	64,85	70,0	48	-	60	70	-	24,07 €
28HTD8M-50F		28	71,30	70,08	75,0	50	-	60	70	-	27,14 €
30HTD8M-50F		30	76,39	75,13	82,5	55	-	60	70	-	31,00 €
32HTD8M-50F		32	81,49	80,16	87,0	60	-	60	70	-	34,36 €
34HTD8M-50F		34	86,58	85,22	91,0	66	-	60	70	-	38,24 €
36HTD8M-50F		36	91,67	90,30	97,0	70	-	60	70	-	42,17 €
38HTD8M-50F		38	96,77	95,39	102,0	75	-	60	70	-	46,31 €
40HTD8M-50F		40	101,86	100,49	106,0	75	-	60	70	-	50,33 €
44HTD8M-50F		44	112,05	110,67	120,0	75	-	60	70	-	59,96 €
48HTD8M-50F		48	122,23	120,86	128,0	80	-	60	70	-	69,98 €
56HTD8M-50F		56	142,60	141,23	150,0	90	116	60	60	18	86,05 €
64HTD8M-50F		64	162,97	161,60	168,0	100	137	60	60	18	108,20 €
72HTD8M-50F		72	183,35	181,97	192,0	100	158	60	60	18	133,09 €
80HTD8M-50	Cast	80	203,72	202,35	-	110	180	60	60	18	120,36 €
90HTD8M-50		90	229,18	227,81	-	110	204	60	60	18	134,88 €

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

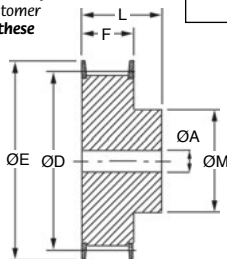
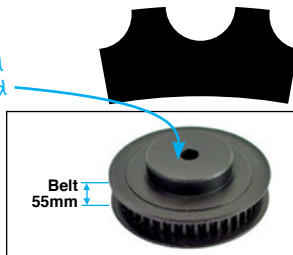
Accessories

- Belts RPP14
- Belt idler roller GTC

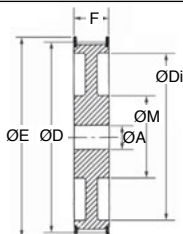
Info.

- Pre-bore dimension is a guide only
- To be finished to size by customer
- We are unable to modify these parts.

Supplied
pre-bored



up to 44 teeth



more than 48 teeth

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	No. of teeth	PCD Ø flange			ØDi	F	L	Pre-bore ØA	Price each 1 to 5	
			external ØD	OE	OM						
28HTD14M-55F	Steel	28	124,78	122,12	128	100	-	70	85	24	82,62 €
29HTD14M-55F		29	129,23	126,57	138	100	-	70	85	24	110,16 €
30HTD14M-55F		30	133,69	130,99	138	100	-	70	85	24	102,54 €
32HTD14M-55F		32	142,60	139,88	154	100	-	70	85	24	116,04 €
34HTD14M-55F		34	151,52	148,79	160	100	-	70	85	24	131,38 €
36HTD14M-55F		36	160,43	157,68	168	100	-	70	85	24	146,90 €
38HTD14M-55F		38	169,34	166,60	183	120	-	70	85	24	154,39 €
40HTD14M-55F		40	178,25	175,49	188	120	-	70	85	24	173,02 €
44HTD14M-55F	Cast	44	196,08	193,28	211	120	-	70	85	24	210,52 €
48HTD14M-55F		48	213,90	211,11	226	135	170	70	70	24	196,00 €
56HTD14M-55F		56	249,55	246,76	256	135	207	70	70	28	244,53 €
64HTD14M-55F		64	285,21	282,41	296	135	240	70	70	28	249,32 €

Dimensions in mm

Heavy duty timing pulley



Pitch 14mm

Steel or cast iron

Belt width 85mm



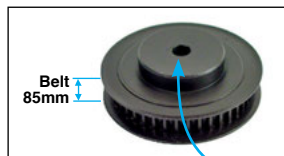
- For use with RPP14 belt
- Pitch: 14mm
- Material:
Cast iron or phosphated steel
depending on size

Accessories

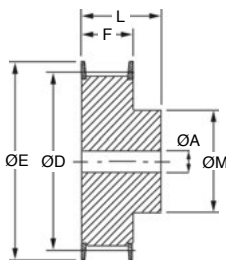
- Belts RPP14
- Belt idler roller GTC

Info.

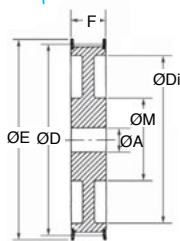
- Pre-bore dimension is a guide only
- To be finished to size by customer
- We are unable to modify these parts.



Supplied pre-bored



up to 48 teeth



more than 56 teeth

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	No. of teeth	PCD Ø external	ØD flange	ØE	ØM	ØDi	F	L	Pre-bore ØA	Price each 1 to 5
28HTD14M-85F	Steel	28	124,78	122,12	128	100	-	102	117	-	111,55 €
30HTD14M-85F		30	133,69	130,99	138	100	-	102	117	-	137,89 €
32HTD14M-85F		32	142,60	139,88	154	100	-	102	117	-	156,28 €
34HTD14M-85F		34	151,52	148,79	160	100	-	102	117	-	176,87 €
36HTD14M-85F		36	160,43	157,68	168	100	-	102	117	-	199,35 €
38HTD14M-85F		38	169,34	166,60	183	120	-	102	117	-	208,46 €
40HTD14M-85F		40	178,25	175,49	188	135	-	102	117	-	234,03 €
44HTD14M-85F		44	196,08	193,28	211	135	-	102	117	-	285,10 €
48HTD14M-85F	Cast	48	213,90	211,11	226	150	-	102	117	-	275,21 €
56HTD14M-85F		56	249,55	246,76	256	150	207	102	102	32	338,88 €
64HTD14M-85F		64	285,21	282,41	296	150	240	102	102	32	349,16 €

Dimensions in mm

Chloroprene rubber belt
with glass fibre tension members

Pitch
RPP3

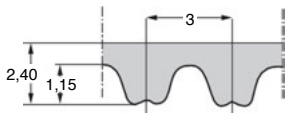
- To be used with HTD3M-09F pulley
- Pitch 3mm
- Output up to 98%
- Materials:
chloroprene rubber reinforced with glass fibres
nylon protective film

Advantages

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

Accessories

- Pulleys HTD3M-09F
- Belt idler rollers RE



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -7%	List -14%	List -20%	List -24%	On request	On request

Part number	Length	No. of teeth	Stock*	Price each 1 to 5 for 9mm width
RPP3/90	90	30	✓	5,72 €
RPP3/105	105	35	✓	5,93 €
RPP3/129	129	43	✓	6,12 €
RPP3/141	141	47	-	6,31 €
RPP3/144	144	48	✓	6,31 €
RPP3/147	147	49	✓	6,31 €
RPP3/150	150	50	✓	6,31 €
RPP3/159	159	53	✓	6,31 €
RPP3/168	168	56	✓	6,31 €
RPP3/174	174	58	✓	6,50 €
RPP3/177	177	59	✓	6,50 €
RPP3/180	180	60	✓	6,50 €
RPP3/186	186	62	✓	6,50 €
RPP3/195	195	65	✓	6,50 €
RPP3/201	201	67	✓	6,67 €
RPP3/204	204	68	✓	6,67 €
RPP3/210	210	70	✓	6,67 €
RPP3/213	213	71	✓	6,67 €
RPP3/225	225	75	✓	6,67 €
RPP3/231	231	77	✓	6,67 €
RPP3/240	240	80	✓	6,88 €
RPP3/243	243	81	✓	6,88 €
RPP3/246	246	82	✓	6,88 €
RPP3/249	249	83	✓	6,88 €
RPP3/252	252	84	✓	6,88 €

*Depending on availability - Dimensions in mm

Part number	Length	No. of teeth	Stock*	Price each 1 to 5 for 9mm width
RPP/255	255	85	✓	6,88 €
RPP3/261	261	87	✓	6,88 €
RPP3/264	264	88	✓	6,88 €
RPP3/267	267	89	-	6,88 €
RPP3/270	270	90	✓	6,88 €
RPP3/276	276	92	✓	6,88 €
RPP3/285	285	95	✓	6,88 €
RPP3/288	288	96	✓	7,04 €
RPP3/291	291	97	✓	7,04 €
RPP3/297	297	99	✓	7,04 €
RPP3/300	300	100	✓	7,04 €
RPP3/312	312	104	✓	7,40 €
RPP3/318	318	106	✓	7,40 €
RPP3/327	327	109	✓	7,40 €
RPP3/330	330	110	✓	7,40 €
RPP3/333	333	111	✓	7,40 €
RPP3/336	336	112	-	7,40 €
RPP3/339	339	113	✓	7,40 €
RPP3/345	345	115	✓	7,40 €
RPP3/357	357	119	✓	7,40 €
RPP3/363	363	121	-	7,58 €
RPP3/375	375	125	✓	7,58 €
RPP3/384	384	128	✓	7,58 €
RPP3/390	390	130	-	7,84 €
RPP3/393	393	131	✓	7,84 €
RPP3/405	405	135	✓	7,84 €
RPP3/420	420	140	✓	7,84 €
RPP3/432	432	144	✓	7,98 €
RPP3/447	447	149	✓	7,98 €
RPP3/474	474	158	✓	8,17 €
RPP3/480	480	160	-	8,17 €
RPP3/486	486	162	-	8,37 €
RPP3/489	489	163	-	8,37 €
RPP3/501	501	167	-	8,37 €
RPP3/510	510	170	-	8,37 €
RPP3/513	513	171	✓	8,37 €
RPP3/522	522	174	✓	8,52 €
RPP3/531	531	177	-	8,52 €
RPP3/537	537	179	-	8,52 €
RPP3/564	564	188	-	8,76 €
RPP3/570	570	190	✓	8,89 €
RPP3/576	576	192	-	8,89 €
RPP3/579	579	193	-	8,89 €
RPP3/597	597	199	✓	9,11 €
RPP3/600	600	200	✓	9,11 €
RPP3/633	633	211	✓	9,11 €
RPP3/648	648	216	-	9,28 €
RPP3/669	669	223	✓	9,46 €

*Depending on availability - Dimensions in mm

RPP-heavy duty timing belt



Pitch RPP3

Chloroprene rubber belt with glass fibre tension members

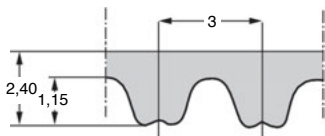
- To be used with HTD3M-09F pulley
- Pitch 3mm
- Output up to 98%
- Materials:
Chloroprene rubber reinforced with glass
fibres
nylon protective film

Advantages

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

Accessories

- Pulleys HTD3M-09F
- Belt idler rollers RE



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	No. of teeth	Stock*	Price each. 1 to 5 for 9mm width
RPP3/711	711	237	✓	9,66 €
RPP3/735	735	245	-	10,02 €
RPP3/738	738	246	-	10,23 €
RPP3/756	756	252	-	10,37 €
RPP3/804	804	268	-	10,77 €
RPP3/882	882	294	✓	10,95 €
RPP3/945	945	315	✓	11,17 €
RPP3/1062	1062	354	✓	11,36 €
RPP3/1125	1125	373	✓	11,73 €
RPP3/1245	1245	415	✓	12,46 €
RPP3/1263	1263	421	✓	12,46 €
RPP3/1500	1500	500	✓	14,13 €
RPP3/1530	1530	510	-	14,13 €
RPP3/1863	1863	621	✓	15,65 €

*Depending on availability - Dimensions in mm

RPP-heavy duty timing belt



Pitch
RPP5

Chloroprene rubber belt
with glass fibre tension members

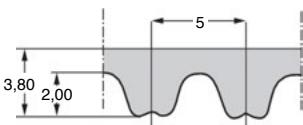
- To be used with HTD5M pulley
- Pitch 5mm
- Output up to 98%
- Materials:
Chloroprene rubber reinforced with glass fibres
nylon protective film

Advantages

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

Accessories

- Pulleys HTD5M-09F
- Belt idler rollers RE



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -7%	List -14%	List -20%	List -24%	On request	On request

Part number	Length	N°. of teeth	Stock*	Stock*	Price each 1 to 5 for a width of		
			9mm	15mm	9mm	15mm	25mm
RPP5/180	180	36	✓	✓	7,25 €	11,90 €	-
RPP5/225	225	45	✓	✓	7,40 €	11,90 €	-
RPP5/235	235	47	✓	-	7,40 €	12,09 €	17,33 €
RPP5/245	245	49	✓	-	7,58 €	12,09 €	17,33 €
RPP5/255	255	51	✓	✓	7,84 €	12,28 €	18,24 €
RPP5/265	265	53	-	-	7,84 €	12,28 €	18,78 €
RPP5/270	270	54	✓	✓	7,84 €	12,46 €	-
RPP5/280	280	56	✓	✓	7,98 €	12,46 €	18,97 €
RPP5/285	285	57	✓	-	7,98 €	12,46 €	18,97 €
RPP5/295	295	59	✓	✓	7,98 €	12,46 €	18,97 €
RPP5/300	300	60	✓	✓	8,17 €	12,46 €	19,18 €
RPP5/305	305	61	✓	✓	8,17 €	12,64 €	19,18 €
RPP5/325	325	65	✓	✓	8,17 €	12,85 €	-
RPP5/345	345	69	✓	✓	8,37 €	13,41 €	20,11 €
RPP5/350	350	70	✓	✓	8,37 €	13,41 €	20,11 €
RPP5/375	375	75	✓	✓	8,52 €	13,79 €	20,65 €
RPP5/400	400	80	✓	✓	8,89 €	13,96 €	21,22 €
RPP5/420	420	84	✓	✓	8,89 €	14,13 €	21,43 €
RPP5/425	425	85	-	-	9,11 €	14,52 €	21,97 €
RPP5/450	450	90	✓	✓	9,28 €	14,87 €	22,35 €
RPP5/455	455	91	✓	✓	9,28 €	14,87 €	22,35 €
RPP5/460	460	92	✓	✓	9,28 €	14,87 €	-
RPP5/465	465	93	-	✓	9,28 €	15,07 €	22,54 €
RPP5/475	475	95	-	✓	9,46 €	15,07 €	22,76 €
RPP5/500	500	100	✓	✓	9,66 €	15,65 €	23,27 €

*Depending on availability - Dimensions in mm

Part number	Length	N°. of teeth	Stock*	Stock*	Price each 1 to 5 for a width of		
			9mm	15mm	9mm	15mm	25mm
RPP5/525	525	105	-	✓	9,85 €	15,83 €	23,65 €
RPP5/535	535	107	-	✓	10,23 €	16,01 €	24,07 €
RPP5/565	565	113	✓	✓	10,23 €	16,39 €	24,99 €
RPP5/575	575	115	✓	✓	10,37 €	16,39 €	24,99 €
RPP5/580	580	116	-	✓	10,37 €	16,59 €	-
RPP5/600	600	120	-	-	10,61 €	16,93 €	25,54 €
RPP5/610	610	122	-	✓	10,77 €	17,11 €	25,92 €
RPP5/615	615	123	-	-	10,95 €	17,33 €	-
RPP5/635	635	127	✓	-	10,95 €	17,33 €	26,45 €
RPP5/640	640	128	✓	-	11,17 €	17,85 €	26,66 €
RPP5/670	670	134	✓	-	11,36 €	18,06 €	27,19 €
RPP5/675	675	135	-	-	11,36 €	18,06 €	27,19 €
RPP5/700	700	140	-	-	11,73 €	18,63 €	28,14 €
RPP5/705	705	141	-	-	11,73 €	18,63 €	-
RPP5/710	710	142	-	-	11,73 €	18,78 €	28,14 €
RPP5/725	725	145	-	-	11,90 €	19,00 €	28,50 €
RPP5/740	740	148	-	-	12,09 €	19,18 €	28,72 €
RPP5/750	750	150	-	✓	12,09 €	19,18 €	28,91 €
RPP5/755	755	151	✓	-	12,09 €	19,18 €	28,91 €
RPP5/800	800	160	-	✓	12,46 €	19,92 €	29,99 €
RPP5/835	835	167	✓	✓	12,64 €	20,31 €	30,57 €
RPP5/850	850	170	✓	✓	13,01 €	20,65 €	31,14 €
RPP5/890	890	178	-	-	13,41 €	21,22 €	32,08 €
RPP5/900	900	180	-	-	13,41 €	21,43 €	32,23 €
RPP5/935	935	187	-	✓	13,79 €	21,80 €	32,84 €
RPP5/940	940	188	-	-	13,79 €	21,97 €	33,34 €
RPP5/950	950	190	-	-	13,96 €	22,16 €	33,57 €
RPP5/980	980	196	-	-	14,13 €	22,54 €	33,93 €
RPP5/1000	1000	200	✓	-	14,52 €	23,10 €	34,67 €
RPP5/1025	1025	205	✓	-	14,87 €	23,27 €	-
RPP5/1050	1050	210	-	-	15,07 €	23,65 €	35,80 €
RPP5/1100	1100	220	-	-	15,46 €	24,26 €	37,12 €
RPP5/1125	1125	225	✓	✓	15,83 €	24,78 €	37,85 €
RPP5/1135	1135	227	-	-	15,92 €	25,33 €	38,58 €
RPP5/1195	1195	239	✓	-	16,01 €	26,07 €	-
RPP5/1200	1200	240	-	✓	16,39 €	26,45 €	39,53 €
RPP5/1240	1240	248	-	✓	16,59 €	26,66 €	40,10 €
RPP5/1270	1270	254	✓	-	16,93 €	26,66 €	40,66 €
RPP5/1420	1420	284	✓	✓	18,24 €	29,10 €	44,01 €
RPP5/1595	1595	319	-	-	19,92 €	31,69 €	47,92 €
RPP5/1690	1690	338	✓	✓	20,50 €	32,84 €	49,25 €
RPP5/1790	1790	358	-	✓	21,80 €	34,48 €	52,22 €
RPP5/1800	1800	360	-	✓	21,97 €	34,67 €	52,22 €
RPP5/1870	1870	374	-	-	22,54 €	35,61 €	-
RPP5/1895	1895	379	-	-	22,88 €	36,17 €	54,48 €
RPP5/1945	1945	389	✓	-	23,10 €	36,53 €	-
RPP5/2000	2000	400	✓	-	23,65 €	37,65 €	56,88 €
RPP5/2250	2250	450	✓	✓	26,45 €	41,57 €	67,55 €
RPP5/2525	2525	505	✓	✓	28,72 €	45,29 €	68,46 €

*Depending on availability - Dimensions in mm

RPP-heavy duty timing belt



Pitch RPP8

Chloroprene rubber belt with glass fibre tension members

- To be used with HTD8M pulley
- Pitch 8mm
- Output 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

- Pulleys HTD8
- Belt idler rollers RE

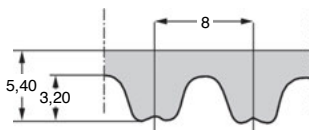
DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	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	-	-	10,23 €	15,83 €	26,85 €
RPP8/320	320	40	-	-	10,95 €	17,11 €	28,50 €
RPP8/352	352	44	-	-	11,73 €	18,24 €	30,72 €
RPP8/360	360	45	-	-	12,09 €	18,63 €	31,69 €
RPP8/384	384	48	✓	-	12,85 €	19,92 €	33,70 €
RPP8/408	408	51	-	✓	13,79 €	21,22 €	35,96 €
RPP8/456	456	57	-	-	15,65 €	24,01 €	40,66 €
RPP8/480	480	60	-	✓	16,39 €	25,33 €	42,89 €
RPP8/536	536	67	✓	-	17,70 €	27,01 €	45,29 €
RPP8/544	544	68	-	-	18,63 €	28,32 €	47,72 €
RPP8/560	560	70	✓	-	18,78 €	28,72 €	48,65 €
RPP8/600	600	75	-	✓	19,56 €	29,45 €	49,78 €
RPP8/608	608	76	-	-	19,71 €	29,83 €	50,52 €
RPP8/632	632	79	✓	-	19,92 €	29,99 €	51,45 €
RPP8/640	640	80	-	-	20,50 €	30,96 €	52,57 €
RPP8/680	680	85	-	-	20,91 €	31,69 €	53,91 €
RPP8/720	720	90	✓	✓	22,16 €	33,57 €	56,88 €
RPP8/800	800	100	-	✓	23,45 €	35,96 €	61,18 €
RPP8/840	840	105	✓	✓	24,41 €	37,12 €	62,89 €
RPP8/880	880	110	-	-	24,99 €	38,05 €	64,16 €
RPP8/896	896	112	-	-	25,15 €	38,25 €	65,09 €
RPP8/920	920	115	-	-	25,89 €	39,32 €	66,79 €
RPP8/960	960	120	✓	-	26,85 €	40,66 €	69,01 €

*Depending on availability - Dimensions in mm

Pitch RPP8



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	-7%	-14%	-20%	-24%	On request	

Part number	Length	N. of teeth	Stock* 20mm	Stock* 30mm	Price each 20mm	1 to 5 for a width of 30mm	50mm
RPP8/1000	1000	125	-	-	27,77 €	41,76 €	71,07 €
RPP8/1040	1040	130	-	✓	28,86 €	43,44 €	73,85 €
RPP8/1080	1080	135	-	-	29,63 €	44,75 €	76,28 €
RPP8/1120	1120	140	✓	-	30,37 €	46,22 €	78,50 €
RPP8/1200	1200	150	✓	-	32,23 €	48,65 €	82,46 €
RPP8/1224	1224	153	-	-	32,84 €	49,61 €	84,15 €
RPP8/1280	1280	160	✓	-	33,93 €	51,45 €	86,91 €
RPP8/1352	1352	169	✓	-	34,48 €	52,42 €	88,79 €
RPP8/1424	1424	178	-	-	36,21 €	55,70 €	92,68 €
RPP8/1440	1440	180	✓	✓	36,73 €	55,94 €	94,77 €
RPP8/1464	1464	183	-	-	38,39 €	58,38 €	98,51 €
RPP8/1600	1600	200	✓	-	40,10 €	60,45 €	102,81 €
RPP8/1680	1680	210	-	-	41,57 €	63,03 €	106,90 €
RPP8/1760	1760	220	-	-	43,09 €	65,69 €	111,00 €
RPP8/1800	1800	225	-	-	44,01 €	66,79 €	113,46 €
RPP8/2000	2000	250	-	-	48,65 €	73,69 €	124,45 €
RPP8/2200	2200	275	-	-	52,78 €	79,85 €	135,26 €
RPP8/2272	2272	284	-	-	54,52 €	81,65 €	138,58 €
RPP8/2400	2400	300	-	-	57,07 €	86,36 €	146,09 €
RPP8/2520	2520	315	-	-	58,59 €	88,79 €	150,37 €
RPP8/2600	2600	325	-	-	60,45 €	91,59 €	155,26 €
RPP8/2800	2800	350	-	-	65,28 €	98,51 €	167,19 €
RPP8/3048	3048	381	-	-	76,28 €	116,23 €	195,17 €
RPP8/3280	3280	410	-	-	82,06 €	124,85 €	209,55 €
RPP8/3600	3600	450	-	-	90,12 €	136,79 €	230,86 €
RPP8/4400	4400	550	-	-	109,93 €	167,19 €	282,36 €

*Depending on availability - Dimensions in mm

RPP-heavy duty timing belt

Pitch

RPP14

Chloroprene rubber belt
with glass fibre tension members

- To be used with HTD14M pulley

- Pitch 14mm

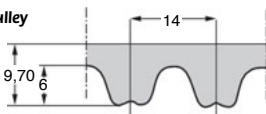
- Output up to 98%

- 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

- Pulleys HTD14M

- Belt idler rollers RE

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -7%	List -14%	List -20%	List -24%	On request	On request

Part number	Length	N°. of teeth	Price each 1 to 5 for a width of	
			55mm	85mm
RPP14/966	966	69	179.33 €	293.37 €
RPP14/994	994	71	180.45 €	295.63 €
RPP14/1092	1092	78	181.38 €	298.01 €
RPP14/1106	1106	79	183.83 €	301.96 €
RPP14/1190	1190	85	193.32 €	303.09 €
RPP14/1260	1260	90	194.25 €	304.38 €
RPP14/1288	1288	92	196.30 €	307.75 €
RPP14/1344	1344	96	203.05 €	321.17 €
RPP14/1400	1400	100	211.39 €	331.25 €
RPP14/1442	1442	103	217.77 €	341.15 €
RPP14/1568	1568	112	224.86 €	349.75 €
RPP14/1610	1610	115	230.86 €	359.09 €
RPP14/1764	1764	126	245.93 €	378.47 €
RPP14/1778	1778	127	248.77 €	381.47 €
RPP14/1848	1848	132	252.47 €	386.13 €
RPP14/1890	1890	135	258.07 €	394.90 €
RPP14/1904	1904	136	259.98 €	397.91 €
RPP14/1960	1960	140	261.63 €	399.73 €
RPP14/2100	2100	150	276.19 €	428.15 €
RPP14/2240	2240	160	284.41 €	432.04 €
RPP14/2310	2310	165	293.37 €	445.50 €
RPP14/2380	2380	170	296.35 €	459.88 €
RPP14/2450	2450	175	303.09 €	473.28 €
RPP14/2590	2590	185	311.50 €	486.74 €
RPP14/2660	2660	190	319.87 €	511.23 €
RPP14/2800	2800	200	336.70 €	538.08 €
RPP14/2968	2968	212	349.86 €	544.89 €
RPP14/3150	3150	225	363.00 €	551.66 €
RPP14/3360	3360	240	386.87 €	588.08 €
RPP14/3500	3500	250	390.23 €	607.12 €
RPP14/3850	3850	275	423.46 €	658.09 €
RPP14/3920	3920	280	424.95 €	670.01 €
RPP14/4326	4326	309	469.01 €	722.10 €
RPP14/4578	4578	327	491.22 €	757.79 €
RPP14/4956	4956	354	525.02 €	815.98 €

Dimensions in mm



RPP type belt by the metre

Polyurethane with steel core

Pitch

RPP5

RPP8

RPP14

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

Applications

- Reciprocating movements

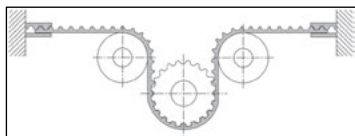
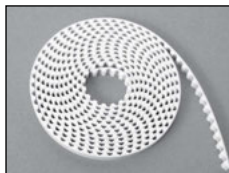
Accessories

- RPPP.../P connecting plates
- HTD pulleys

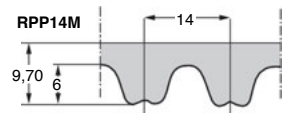
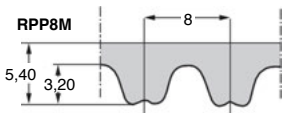
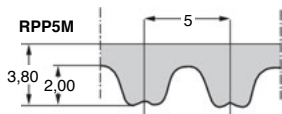
Info.

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

For linear positioning



Typical application



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

		Price each 1 to 5 per metre for widths of						
Part number	Pitch	15mm	20mm	25mm	30mm	50mm	55mm	85mm
RPP5M	RPP5	15,13 €	-	27,75 €	-	-	-	-
RPP8M	RPP8	-	24,23 €	-	32,19 €	38,44 €	-	-
RPP14M	RPP14	-	-	-	-	-	67,62 €	111,79 €

Dimensions in mm

Connecting plate

Pitch

RPP5

RPP8

RPP14

For open belts RPP5M, RPP8M and RPP14M



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

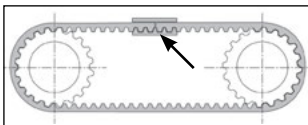
Applications

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

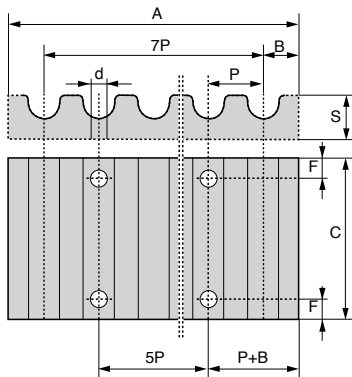
Accessories

- RPP../P belts
- HTD pulleys

Until
-40%**



Typical application



DISCOUNTS

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

Part number	Pas	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	✓	12,33 €
RPP5/25P	RPP5	6	5,5	3,25	41,5	8	44	25	✓	12,84 €
RPP8/20P	RPP8	8	9,0	5,00	66,0	15	45	20	-	20,86 €
RPP8/30P	RPP8	8	9,0	5,00	66,0	15	55	30	✓	22,14 €
RPP8/50P	RPP8	8	9,0	5,00	66,0	15	75	50	✓	24,55 €
RPP14/55P	RPP14	10	11,0	9,00	116,0	22	86	55	-	56,78 €
RPP14/85P	RPP14	10	11,0	9,00	116,0	22	116	85	-	64,91 €

*Depending on availability - Dimensions in mm

Find our full range of **PULLEYS AND BELTS** on **HPCEUROPE.COM**



- HTD, T + AT pitches
- Open or closed belts



**TOOTHED BAR
MACHINED TO ORDER**



p.38

**T-TYPE TOOTH
BAR STOCK**



p.40

**T-TYPE TIMING
PULLEY**



p.43

**T-TYPE TIMING PULLEY
ECONOMY RANGE**



p.44

**ALUMINIUM TIMING
PULLEY**



p.45

T-TYPE TIMING BELT



p.55

**T-TYPE TIMING BELT
PER METRE**



p.60

TIMING PULLEYS AND BELTS

p.38 - 89

**AT-TYPE TOOTH
BAR STOCK**



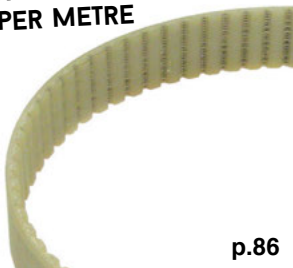
p.62

**AT-TYPE TIMING
PULLEY**



p.68

**AT-TYPE TIMING BELT
PER METRE**



p.86

**CONNECTING PLATE
FOR AT TYPE TIMING
BELTS**



p.87

**Until
-40%****

****On 2015 price**

Toothed bar **machined** to order **Alu Bra**

**AAG
ABG**

Aluminium or brass

- Bar stock with teeth machined to your requirements

- All types of 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

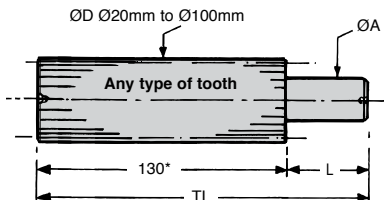


Option

- Stainless steel 303, TUFNOL

Info.

- *When ordering 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 on demand



DISCOUNTS

Qty	1+	6+	20+	40+
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	99,19 €
AAG3	31 and 40	30	160	15	111,52 €
AAG4	41 and 50	40	170	20	198,54 €
AAG5	51 and 60	40	170	25	224,88 €
AAG6	61 and 100	40	170	25	400,21 €

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	114,51 €
ABG3	31 and 40	30	160	15	139,45 €
ABG4	41 and 50	40	170	20	238,16 €
ABG5	51 and 60	40	170	25	285,86 €
ABG6	61 and 100	40	170	25	450,65 €

ØD GREATER THAN 100mm ON REQUEST

Dimensions in mm

- Bar stock with teeth machined to your requirements

- All types of 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

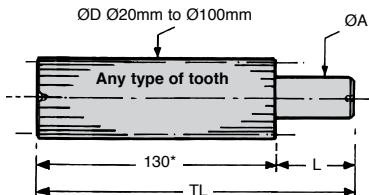


Option

- Stainless steel 303, TUFNOL

Info.

- *When ordering 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 on demand



DISCOUNTS

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

Steel 20NCD2

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
ASG2	20 et 30	30	160	12	76,64 €
ASG3	31 et 40	30	160	15	100,36 €
ASG4	41 et 50	40	170	20	166,14 €
ASG5	51 et 60	40	170	25	218,17 €
ASG6	61 et 100	40	170	25	390,38 €

ØD GREATER THAN 100mm ON REQUEST

Delrin

Part number	ØD between	L	TL	Boss ØA	Price each 1 to 5
ADG2	20 et 30	30	160	12	75,21 €
ADG3	31 et 40	30	160	15	97,58 €
ADG4	41 et 50	40	170	20	129,80 €
ADG5	51 et 60	40	170	25	194,91 €
ADG6	61 et 100	40	170	25	368,51 €

ØD GREATER THAN 100mm ON REQUEST

Dimensions in mm

T type tooth bar stock



T2.5-BAR

Aluminium

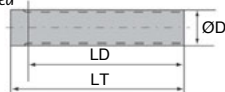


- Bar stock to be cut to length by the customer
- The overall length is the same as the maximum length
- Material : Aluminium suitable for hard anodic oxidation
- Finish : Supplied not-treated



Info.

- We are unable to modify this product



DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth L _D	Total length L _T	Price each 1 to 5
10T2.5-BAR	10	7,45	50	75	2,53 €
12T2.5-BAR	12	9,00	50	75	2,60 €
13T2.5-BAR	13	9,80	50	75	2,70 €
14T2.5-BAR	14	10,60	50	75	2,87 €
15T2.5-BAR	15	11,40	50	75	3,06 €
16T2.5-BAR	16	12,20	50	75	3,14 €
17T2.5-BAR	17	13,00	50	75	3,21 €
18T2.5-BAR	18	13,80	50	75	3,33 €
19T2.5-BAR	19	14,60	90	120	6,06 €
20T2.5-BAR	20	15,40	90	120	6,32 €
21T2.5-BAR	21	16,20	90	120	6,90 €
22T2.5-BAR	22	17,00	125	140	8,98 €
24T2.5-BAR	24	18,55	125	140	9,74 €
26T2.5-BAR	26	20,15	125	140	10,67 €
27T2.5-BAR	27	20,95	125	140	10,78 €
28T2.5-BAR	28	21,75	125	140	11,05 €
29T2.5-BAR	29	22,55	125	140	11,70 €
30T2.5-BAR	30	23,35	125	140	11,77 €
32T2.5-BAR	32	24,95	125	140	12,75 €
34T2.5-BAR	34	26,55	125	140	13,40 €
35T2.5-BAR	35	27,35	132	140	14,23 €
36T2.5-BAR	36	28,10	132	140	15,28 €
38T2.5-BAR	38	29,70	140	140	15,55 €
40T2.5-BAR	40	31,30	140	140	16,78 €
42T2.5-BAR	42	32,90	140	140	18,68 €
44T2.5-BAR	44	34,50	140	140	20,74 €
45T2.5-BAR	45	35,30	140	140	21,15 €
48T2.5-BAR	48	37,70	140	140	22,39 €
50T2.5-BAR	50	39,29	160	160	27,20 €
60T2.5-BAR	60	47,25	160	160	35,28 €
65T2.5-BAR	65	51,20	160	160	40,77 €
70T2.5-BAR	70	55,20	160	160	44,62 €
72T2.5-BAR	72	56,80	160	160	47,08 €
90T2.5-BAR	90	71,12	160	160	68,29 €
100T2.5-BAR	100	79,08	160	160	91,33 €

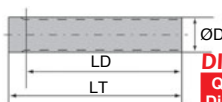
Dimensions in mm



- 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



DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth L _D	Total length L _T	Price each 1 to 5
10T5-BAR	10	15,05	125	140	7,33 €
11T5-BAR	11	16,65	125	140	7,94 €
12T5-BAR	12	18,25	125	140	8,67 €
13T5-BAR	13	19,85	125	140	8,70 €
14T5-BAR	14	21,45	140	140	10,17 €
15T5-BAR	15	23,05	140	140	11,01 €
16T5-BAR	16	24,60	140	140	12,36 €
17T5-BAR	17	26,20	140	140	12,94 €
18T5-BAR	18	27,00	140	140	14,37 €
19T5-BAR	19	29,40	140	140	15,59 €
20T5-BAR	20	31,00	160	160	17,92 €
21T5-BAR	21	32,70	160	160	18,71 €
22T5-BAR	22	34,15	160	160	20,82 €
23T5-BAR	23	35,85	160	160	21,01 €
24T5-BAR	24	37,40	160	160	22,54 €
25T5-BAR	25	38,95	160	160	24,21 €
26T5-BAR	26	40,60	160	160	26,69 €
27T5-BAR	27	42,20	160	160	26,90 €
28T5-BAR	28	43,75	160	160	29,61 €
29T5-BAR	29	45,35	160	160	29,74 €
30T5-BAR	30	46,95	160	160	31,69 €
32T5-BAR	32	50,10	160	160	36,81 €
34T5-BAR	34	53,25	160	160	40,23 €
35T5-BAR	35	54,85	160	160	40,50 €
36T5-BAR	36	56,45	160	160	42,76 €
37T5-BAR	37	58,06	160	160	45,15 €
38T5-BAR	38	59,65	160	160	45,38 €
40T5-BAR	40	62,85	160	160	49,34 €
42T5-BAR	42	66,00	160	160	53,53 €
44T5-BAR	44	69,20	160	160	62,68 €
45T5-BAR	45	70,80	160	160	63,10 €
46T5-BAR	46	72,40	160	160	63,67 €
48T5-BAR	48	75,55	160	160	70,49 €
50T5-BAR	50	78,75	160	160	78,60 €
60T5-BAR	60	94,65	160	160	106,05 €
72T5-BAR	72	113,75	160	160	149,06 €
80T5-BAR	80	126,48	160	160	173,93 €
90T5-BAR	90	142,40	160	160	228,93 €
100T5-BAR	100	158,31	160	160	295,91 €

Dimensions in mm

T type tooth bar stock

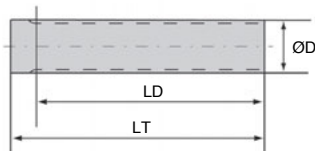


T10-BAR

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

DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth L _D	Total length L _T	Price each 1 to 5
10T10-BAR	10	29,98	140	140	13,78 €
11T10-BAR	11	33,16	140	140	16,13 €
12T10-BAR	12	36,35	140	140	18,75 €
13T10-BAR	13	39,55	140	140	20,20 €
14T10-BAR	14	42,70	140	140	25,43 €
15T10-BAR	15	45,90	140	140	28,20 €
16T10-BAR	16	49,10	160	160	32,08 €
17T10-BAR	17	52,25	160	160	35,21 €
18T10-BAR	18	55,45	160	160	38,54 €
19T10-BAR	19	58,65	160	160	43,15 €
20T10-BAR	20	61,80	160	160	46,88 €
21T10-BAR	21	65,00	160	160	50,91 €
22T10-BAR	22	68,15	160	160	60,18 €
23T10-BAR	23	71,35	160	160	60,73 €
24T10-BAR	24	74,55	160	160	67,79 €
26T10-BAR	26	80,90	160	160	76,05 €
28T10-BAR	28	87,25	160	160	84,66 €
30T10-BAR	30	93,65	160	160	102,66 €
32T10-BAR	32	100,00	160	160	112,71 €
34T10-BAR	34	106,40	160	160	123,23 €
36T10-BAR	36	112,75	160	160	136,99 €
38T10-BAR	38	119,10	160	160	156,94 €
40T10-BAR	40	125,45	160	160	169,36 €
45T10-BAR	45	141,40	160	160	223,76 €
48T10-BAR	48	150,95	160	160	239,17 €
60T10-BAR	60	189,15	160	160	394,01 €
72T10-BAR	72	227,29	160	160	563,63 €

Dimensions in mm

Moulded nylon PA6

**Pitch
T2.5**

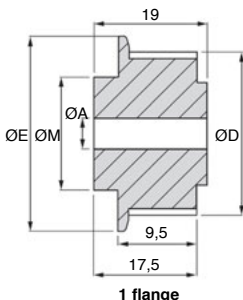
 Belt width 6mm

- Pitch 2.5mm (T2,5)
- Material:
Moulded PA6 nylon
reinforced with 30%
glass fibre
- HPC are unable to modify
these parts



Economy range

*ØA: Pre-bored hole
must be finished*



1 flange

DISCOUNTS

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

Part number	Z teeth	ØD (mm)	ØM (mm)	Pre-bore ØA (mm)	ØE (mm)	Stock*	Price each 1 to 5
10T2.5-10-N1F	10	7,40	12	3	12	✓	4,91 €
11T2.5-10-N1F	11	8,20	12	3	12	-	4,91 €
12T2.5-10-N1F	12	9,00	12	3	12	✓	4,91 €
13T2.5-10-N1F	13	9,80	12	3	12	-	5,35 €
14T2.5-10-N1F	14	10,60	12	3	15	-	5,35 €
15T2.5-10-N1F	15	11,40	12	3	15	✓	5,99 €
16T2.5-10-N1F	16	12,18	12	3	16	✓	5,99 €
22T2.5-10-N1F	22	17,00	14	3	22	✓	7,27 €
23T2.5-10-N1F	23	17,75	14	3	22	-	7,27 €
24T2.5-10-N1F	24	18,55	14	3	24	✓	7,27 €
25T2.5-10-N1F	25	19,35	14	3	24	✓	7,70 €
26T2.5-10-N1F	26	20,14	16	4	26	✓	7,70 €
28T2.5-10-N1F	28	21,75	16	4	28	-	7,70 €
29T2.5-10-N1F	29	22,52	16	4	28	-	7,70 €
30T2.5-10-N1F	30	23,35	18	5	30	✓	8,12 €
31T2.5-10-N1F	31	24,10	18	5	30	-	8,12 €
32T2.5-10-N1F	32	24,95	18	5	32	✓	8,12 €
33T2.5-10-N1F	33	25,70	18	5	32	✓	8,12 €

*Depending on availability - Dimensions in mm

T-type timing pulley



Pitch T2,5

Aluminium

For 6mm belts

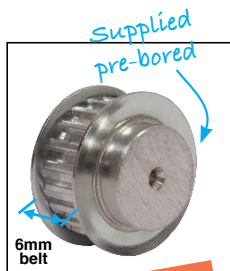
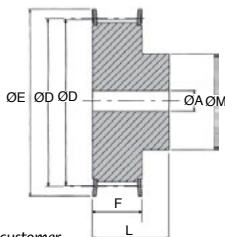
- For use with T2.5 belts
- Pitch 2.5mm
- Material:
Aluminium

Accessories

- T2.5 belts
- GTC tension rollers

Info

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



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
12T2.5-10/ECO	12	9,60	9,00	13	13	9	16	solid	5,61 €
14T2.5-10/ECO	14	11,20	10,60	15	15	9	16	solid	5,94 €
15T2.5-10/ECO	15	12,00	11,40	15	15	9	16	solid	6,25 €
16T2.5-10/ECO	16	12,80	12,20	16	16	9	16	solid	6,58 €
18T2.5-10/ECO	18	14,40	13,80	17,5	10	10	16	solid	6,13 €
19T2.5-10/ECO	19	15,20	14,60	20	10	10	16	solid	6,52 €
20T2.5-10/ECO	20	16,00	15,40	20	11	10	16	solid	6,58 €
22T2.5-10/ECO	22	17,60	17,00	22	11	10	16	solid	6,13 €
24T2.5-10/ECO	24	19,15	18,55	22	12	10	16	4	6,71 €
25T2.5-10/ECO	25	19,95	19,35	25	13	10	16	4	6,90 €
26T2.5-10/ECO	26	20,75	20,15	26	14	10	16	4	7,16 €
28T2.5-10/ECO	28	22,35	21,75	26	14	10	16	4	7,48 €
30T2.5-10/ECO	30	23,95	23,35	26	16	10	16	6	7,87 €
32T2.5-10/ECO	32	25,55	24,95	32	16	10	16	6	6,06 €
36T2.5-10/ECO	36	28,75	28,10	36	20	10	16	6	6,71 €
40T2.5-10/ECO	40	31,90	31,30	38	22	10	16	6	7,36 €
44T2.5-10/ECO	44	35,10	34,50	-	24	10	16	6	8,13 €
48T2.5-10/ECO	48	38,30	37,70	-	26	10	16	6	7,48 €
60T2.5-10/ECO	60	47,85	47,25	-	34	10	16	8	10,00 €

Dimensions in mm

- Pitch 2.5mm

- Materials:

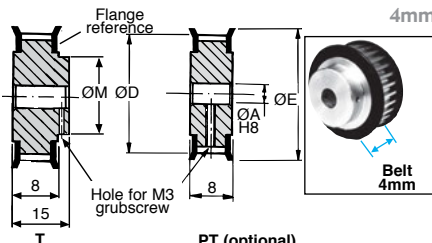
Pulley: Aluminium 6082

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



PT (optional)

DISCOUNTS

Qty	1+	6+	20+	40+
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 PT
10T2.5-8	10	7,96	7,40	13	3	10 X,Y	13,00	✓	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	✓	On request
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

*Depending on availability - Dimensions in mm

T-type timing pulley



Pitch

Aluminium

T2.5 

Belt width 6mm

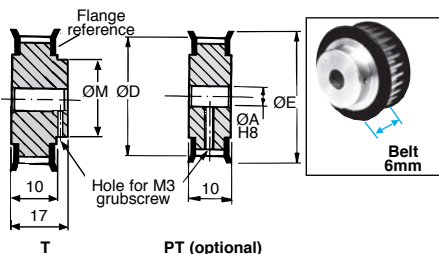
- Pitch 2.5mm

- 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



DISCOUNTS

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

Part number	Z Teeth	Ø PCD	ØD	ØM	ØA	Flange ref.	ØE	Stock*	Price each T	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 availability - Dimensions in mm

Aluminium

Pitch
T5


For 10mm belts

- For use with T5 belts

- Pitch 5mm

- Material:
Aluminium

Accessories

- T5 belts

- GTC tension rollers

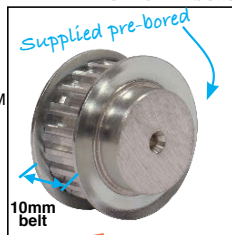
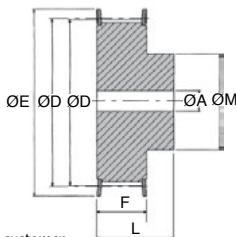
Info

- Bore size given as indication,

may vary between batches.

- Will require re-machining by customer

- We are unable to modify this products



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
10T5-15/ECO	10	15,92	15,05	19,5	8	15	21	solid	3,67 €
12T5-15/ECO	12	19,10	18,25	23	11	15	21	solid	4,12 €
14T5-15/ECO	14	22,29	21,45	25	13	15	21	solid	4,51 €
15T5-15/ECO	15	23,88	23,05	28	16	15	21	6	4,83 €
16T5-15/ECO	16	25,47	24,60	32	18	15	21	6	5,35 €
18T5-15/ECO	18	28,65	27,80	32	20	15	21	6	5,67 €
19T5-15/ECO	19	30,25	29,40	36	22	15	21	6	6,25 €
20T5-15/ECO	20	31,83	31,00	36	23	15	21	6	6,58 €
22T5-15/ECO	22	35,02	34,15	38	24	15	21	6	7,48 €
24T5-15/ECO	24	38,21	37,40	42	26	15	21	6	8,00 €
25T5-15/ECO	25	39,80	38,95	44	26	15	21	6	8,52 €
26T5-15/ECO	26	41,39	40,60	44	26	15	21	6	9,23 €
27T5-15/ECO	27	42,98	42,20	48	30	15	21	8	9,55 €
28T5-15/ECO	28	44,58	43,75	48	32	15	21	8	10,20 €
30T5-15/ECO	30	47,76	46,95	51	34	15	21	8	10,91 €
32T5-15/ECO	32	50,94	50,10	54	38	15	21	8	12,27 €
36T5-15/ECO	36	57,31	56,45	64	38	15	21	8	14,20 €
40T5-15/ECO	40	63,66	62,85	66,5	40	15	21	8	16,15 €
42T5-15/ECO	42	66,86	66,00	70	40	15	21	8	17,37 €
44T5-15/ECO	44	70,05	69,20	-	45	15	21	8	17,44 €
48T5-15/ECO	48	76,42	75,55	-	50	15	21	8	19,63 €
60T5-15/ECO	60	95,52	94,65	-	65	15	21	8	29,25 €

Dimensions in mm

T-type timing pulley



Pitch T5

Aluminium



For 16mm belts

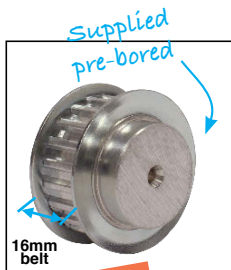
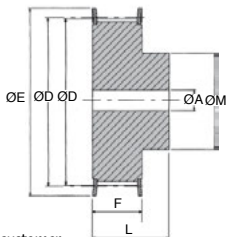
- For use with T5 belts
- Pitch 5mm
- Material:
Aluminium

Accessories

- T5 belts
- GTC tension rollers

Info

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



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
10T5-21/ECO	10	15,92	15,05	19,5	8	21	27	solid	4,00 €
12T5-21/ECO	12	19,10	18,25	23	11	21	27	solid	4,71 €
14T5-21/ECO	14	22,29	21,45	25	13	21	27	solid	5,16 €
15T5-21/ECO	15	23,88	23,05	28	16	21	27	6	5,67 €
16T5-21/ECO	16	25,47	24,60	32	18	21	27	6	6,13 €
18T5-21/ECO	18	28,65	27,80	32	20	21	27	6	6,58 €
19T5-21/ECO	19	30,25	29,40	36	22	21	27	6	7,29 €
20T5-21/ECO	20	31,83	31,00	36	23	21	27	6	7,61 €
22T5-21/ECO	22	35,02	34,15	38	24	21	27	6	8,78 €
24T5-21/ECO	24	38,21	37,40	42	26	21	27	6	9,43 €
25T5-21/ECO	25	39,80	38,95	44	26	21	27	6	10,00 €
26T5-21/ECO	26	41,39	40,60	44	26	21	27	6	10,91 €
27T5-21/ECO	27	42,98	42,20	48	30	21	27	8	11,03 €
28T5-21/ECO	28	44,58	43,75	48	32	21	27	8	12,07 €
30T5-21/ECO	30	47,76	46,95	51	34	21	27	8	12,84 €
32T5-21/ECO	32	50,94	50,10	54	38	21	27	8	14,46 €
36T5-21/ECO	36	57,31	56,45	64	38	21	27	8	17,04 €
40T5-21/ECO	40	63,66	62,85	66,5	40	21	27	8	19,18 €
42T5-21/ECO	42	66,86	66,00	70	40	21	27	8	20,60 €
44T5-21/ECO	44	70,05	69,20	-	45	21	27	8	21,24 €
48T5-21/ECO	48	76,42	75,55	-	50	21	27	8	23,89 €
60T5-21/ECO	60	95,52	94,65	-	65	21	27	8	35,66 €

Dimensions in mm



- Pitch 5mm

- Materials:

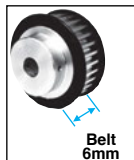
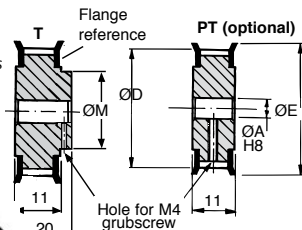
Pulley: Aluminium 6082

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+	40+
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
10T5-11	10	15,92	15,05	12	5	11XL	23,62	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	On request
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



Pitch

Aluminium

T5

Belt width 10mm



- Pitch 5mm

- Materials:

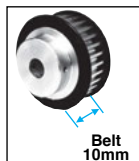
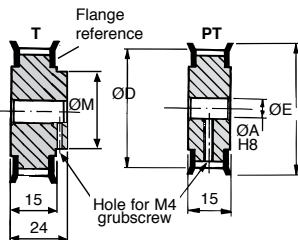
Pulley: Aluminium 6082

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



DISCOUNTS

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

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	Flange ref.	ØE (mm)	Stock*	Price each 1 to 5
									T PT
10T5-15	10	15,92	15,05	12	5	11XL	23,62	✓	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	-	On request
80T5-15	80	127,32	126,50	60	10	32H	134,94	-	
84T5-15	84	133,69	132,85	60	10	33H	139,70	-	

On request

On request

Au choix : toute poulie jusqu'à cette taille

150T5-11 150 dimensions : contactez-nous

Dimensions in mm

- Pitch 5mm

- Materials:

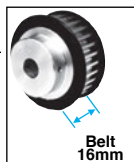
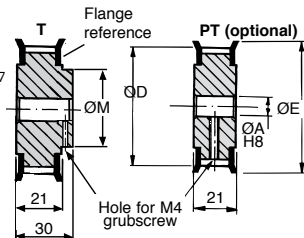
Pulley: Aluminium 6082

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+	40+
Disc.	List	-12%	-25%	On request

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	Flange ref.	ØE (mm)	Stock*	Price each T	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



Pitch
T10

Aluminium

Belt width 16mm

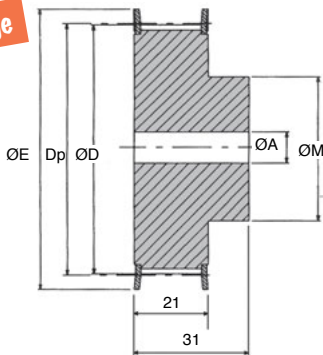
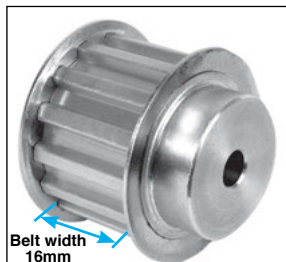


- Pitch 10mm
- Materials:
Pulley: aluminium
Flanges: steel

Economy range

Info.

- HPC are unable to modify these parts



DISCOUNTS

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

Part number	Z teeth	PCD (mm)	ØD (mm)	ØE (mm)	ØM (mm)	ØA (mm)	Stock*	Price each 1 to 5
12T10-21-AL	12	38,35	36,35	42	28	6	✓	7,74 €
14T10-21-AL	14	44,70	42,70	48	32	8	✓	9,42 €
15T10-21-AL	15	47,90	45,90	51	32	8	✓	10,43 €
16T10-21-AL	16	51,10	49,10	54	35	8	✓	11,57 €
18T10-21-AL	18	57,45	55,45	60	40	8	✓	13,82 €
19T10-21-AL	19	60,65	58,65	66	44	8	-	15,28 €
20T10-21-AL	20	63,80	61,80	66	46	8	✓	16,57 €
22T10-21-AL	22	70,20	68,20	75	52	8	-	20,50 €
24T10-21-AL	24	76,55	74,55	83	58	8	✓	23,04 €
25T10-21-AL	25	79,75	77,75	83	60	8	-	23,29 €
26T10-21-AL	26	82,90	80,90	87	60	8	-	25,84 €
27T10-21-AL	27	86,10	84,10	91	60	8	-	28,31 €
28T10-21-AL	28	89,25	87,25	93	60	8	-	28,52 €
30T10-21-AL	30	95,65	93,65	102	60	8	-	33,81 €
32T10-21-AL	32	102,00	100,00	106	65	10	-	36,81 €
36T10-21-AL	36	114,75	112,75	119	70	10	✓	43,33 €
40T10-21-AL	40	127,45	125,45	131	80	10	-	54,05 €

*Depending on availability - Dimensions in mm

Aluminium

Pitch
T10

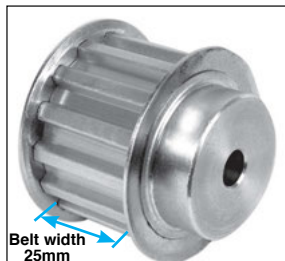
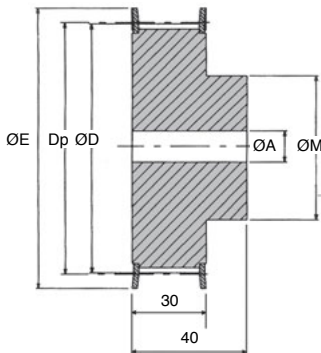
Belt width 25mm



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

Info.

- HPC are unable to modify these parts



Economy range

DISCOUNTS

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

Part number	Z teeth	PCD (mm)	ØD (mm)	ØE (mm)	ØM (mm)	ØA (mm)	Stock*	Price each 1 to 5
12T10-30-AL	12	38,35	36,35	42	28	6	✓	9,15 €
14T10-30-AL	14	44,70	42,70	48	32	8	-	11,30 €
15T10-30-AL	15	47,90	45,90	51	32	8	✓	12,42 €
16T10-30-AL	16	51,10	49,10	54	35	8	✓	13,88 €
18T10-30-AL	18	57,45	55,45	60	40	8	✓	16,57 €
19T10-30-AL	19	60,65	58,65	66	44	8	✓	18,56 €
20T10-30-AL	20	63,80	61,80	66	46	8	✓	19,86 €
22T10-30-AL	22	70,20	68,20	75	52	8	✓	24,87 €
24T10-30-AL	24	76,55	74,55	83	58	8	✓	27,93 €
25T10-30-AL	25	79,75	77,75	83	60	8	-	28,26 €
26T10-30-AL	26	82,90	80,90	87	60	8	-	31,32 €
27T10-30-AL	27	86,10	84,10	91	60	8	✓	34,51 €
28T10-30-AL	28	89,25	87,25	93	60	8	✓	34,56 €
30T10-30-AL	30	95,65	93,65	102	60	8	✓	41,39 €
32T10-30-AL	32	102,00	100,00	106	65	10	✓	45,01 €
36T10-30-AL	36	114,75	112,75	119	70	10	✓	53,19 €
40T10-30-AL	40	127,45	125,45	131	80	10	✓	66,16 €

*Depending on availability - Dimensions in mm

Nylon T-type timing pulley



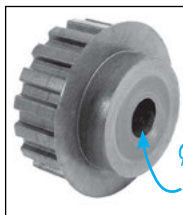
PITCH T10

Belt width 16mm

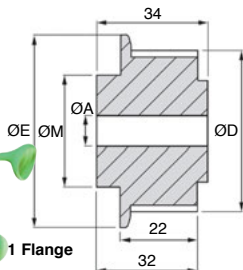
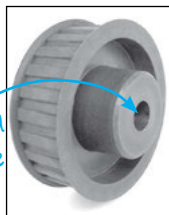
Nylon PA6 **moulded**



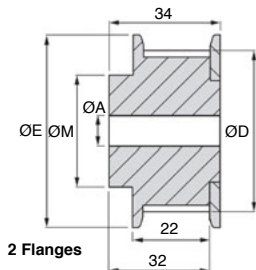
- Pitch 10mm (T10)
- Material: Moulded PA6 nylon reinforced with 30% glass fibre
- HPC are unable to modify these parts



ØA: Pre-bored hole must be finished



1 Flange



2 Flanges



Economy range

DISCOUNTS

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

Part number		Z teeth	ØD (mm)	ØM (mm)	Pre-bore ØA (mm)	ØE (mm)	Price each	
1 flange	2 flanges						1 to 5	6 to 10
-	18T10-21-N2F	18	55,45	40	13	60	-	9,55 €
-	20T10-21-N2F	20	61,80	40	12	67	-	10,68 €
-	22T10-21-N2F	22	68,20	40	14	75	-	11,64 €
-	24T10-21-N2F	24	74,75	40	13	83	-	12,79 €
30T10-21-N1F	-	30	93,65	50	14	99	17,89 €	-
32T10-21-N1F	-	32	100,00	50	14	105	21,57 €	-

Dimensions in mm

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

Options

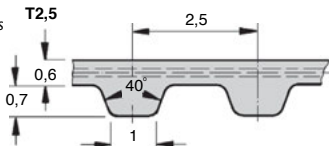
- Belt by the metre **T2.5M**
- Alternative lengths/widths

Accessories

- **AH** arm and **RE** roller belt idler

Info.

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

SINGLE SIDED**Din 7721**

**Compatible with
T2.5 pulley**

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	No. of teeth	Stock*	Stock*	Price each 1 to 5 for widths		
			4mm	6mm	4mm	6mm	10mm
T 2.5/120	120,00	48	✓	✓	9,76 €	10,84 €	On request
T 2.5/145	145,00	58	✓	✓	9,89 €	10,94 €	
T 2.5/160	160,00	64	✓	✓	9,92 €	10,99 €	
T 2.5/177	177,50	71	✓	✓	10,14 €	11,26 €	
T 2.5/180	180,00	72	✓	✓	10,14 €	11,26 €	
T 2.5/182	182,50	73	✓	✓	10,14 €	11,26 €	
T 2.5/200	200,00	80	✓	✓	10,14 €	11,26 €	
T 2.5/230	230,00	92	✓	✓	10,85 €	12,09 €	
T 2.5/245	245,00	98	✓	✓	10,76 €	11,97 €	
T 2.5/265	265,00	106	✓	✓	10,86 €	12,10 €	
T 2.5/285	285,00	114	✓	✓	10,92 €	12,14 €	
T 2.5/290	290,00	116	✓	✓	11,37 €	12,67 €	
T 2.5/317	317,50	127	✓	✓	11,33 €	12,61 €	
T 2.5/330	330,00	132	✓	✓	11,46 €	12,73 €	
T 2.5/380	380,00	152	✓	✓	12,10 €	13,45 €	
T 2.5/420	420,00	168	-	✓	15,45 €	13,42 €	
T 2.5/480	480,00	192	✓	✓	12,55 €	13,92 €	
T 2.5/500	500,00	200	✓	✓	12,73 €	14,13 €	
T 2.5/600	600,00	240	✓	✓	17,43 €	19,36 €	
T 2.5/620	620,00	248	-	✓	18,09 €	20,13 €	
T 2.5/650	650,00	260	-	✓	17,71 €	19,64 €	
T 2.5/780	780,00	312	✓	✓	20,41 €	22,73 €	
T 2.5/950	950,00	380	✓	✓	22,55 €	25,09 €	

*Depending on availability - Dimensions in mm

T-type timing belts



Pitch

Steel cored polyurethane

T5

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



Options

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

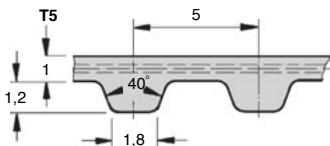
Accessories

- **AH** arm and **RE** roller belt idler

Info.

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

Compatible with
T5 pulley



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	Teeth	Stock*	Stock*	Stock*	Price each 1 to 5 for widths			
			6mm	10mm	16mm	6mm	10mm	16mm	25mm
T 5/150	150	30	✓	-	-	11,72 €	15,21 €	22,10 €	On request
T 5/185	185	37	✓	✓	✓	11,94 €	15,70 €	22,62 €	
T 5/200	200	40	✓	✓	✓	11,97 €	15,73 €	22,76 €	
T 5/210	210	42	-	✓	-	12,42 €	16,39 €	23,60 €	
T 5/215	215	43	-	-	-	12,07 €	15,97 €	22,98 €	
T 5/220	220	44	-	-	-	12,07 €	15,97 €	22,98 €	
T 5/225	225	45	✓	✓	✓	12,10 €	16,06 €	23,13 €	
T 5/245	245	49	✓	✓	-	12,23 €	16,29 €	23,43 €	
T 5/250	250	50	-	✓	-	12,67 €	16,80 €	24,13 €	
T 5/255	255	51	-	✓	-	12,28 €	16,29 €	23,53 €	
T 5/260	260	52	✓	-	-	12,28 €	16,29 €	23,53 €	
T 5/270	270	54	✓	✓	✓	12,33 €	16,40 €	23,62 €	
T 5/280	280	56	✓	✓	-	12,38 €	16,51 €	23,80 €	
T 5/295	295	59	-	✓	✓	12,48 €	16,73 €	24,03 €	

*Depending on availability - Dimensions in mm



Pitch T5

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	Teeth	Stock*	Stock*	Stock*	Price each 1 to 5 for widths			
			6mm	10mm	16mm	6mm	10mm	16mm	25mm
T 5/305	305	61	✓	✓	✓	12,61 €	16,83 €	24,23 €	
T 5/330	330	66	-	✓	✓	12,70 €	17,05 €	24,59 €	
T 5/340	340	68	✓	✓	-	12,70 €	17,13 €	24,69 €	
T 5/355	355	71	✓	✓	✓	12,83 €	17,40 €	25,02 €	
T 5/365	365	73	✓	✓	✓	12,87 €	17,43 €	25,21 €	
T 5/390	390	78	✓	✓	-	12,90 €	17,68 €	25,47 €	
T 5/400	400	80	✓	✓	-	13,02 €	17,77 €	25,58 €	
T 5/410	410	82	-	✓	✓	13,06 €	17,82 €	25,85 €	
T 5/420	420	84	✓	✓	✓	13,13 €	17,90 €	25,94 €	
T 5/455	455	91	✓	✓	✓	13,30 €	18,28 €	26,88 €	
T 5/460	460	92	-	-	-	13,75 €	18,91 €	27,73 €	
T 5/480	480	96	✓	✓	✓	13,38 €	18,69 €	27,42 €	
T 5/500	500	100	✓	✓	✓	13,51 €	18,89 €	27,93 €	
T 5/510	510	102	✓	-	-	13,53 €	19,05 €	28,20 €	
T 5/525	525	105	-	✓	✓	13,77 €	19,34 €	28,74 €	
T 5/545	545	109	-	✓	✓	14,06 €	19,57 €	29,28 €	
T 5/550	550	110	✓	✓	✓	14,06 €	19,57 €	29,28 €	
T 5/560	560	112	✓	✓	✓	14,13 €	19,74 €	29,52 €	
T 5/575	575	115	✓	✓	✓	14,37 €	20,10 €	30,07 €	
T 5/590	590	118	-	✓	-	14,85 €	20,93 €	31,57 €	
T 5/610	610	122	✓	✓	✓	14,74 €	20,57 €	31,10 €	
T 5/620	620	124	✓	-	-	14,83 €	20,72 €	31,41 €	
T 5/630	630	126	✓	✓	-	14,97 €	20,78 €	32,00 €	
T 5/650	650	130	-	-	✓	15,81 €	21,87 €	33,45 €	
T 5/690	690	138	-	✓	✓	15,89 €	22,04 €	33,78 €	
T 5/720	720	144	✓	-	✓	16,29 €	22,62 €	34,86 €	
T 5/750	750	150	-	✓	✓	16,73 €	23,22 €	35,90 €	
T 5/765	765	153	-	-	-	17,69 €	24,42 €	37,59 €	
T 5/780	780	156	-	-	✓	17,27 €	23,87 €	36,75 €	
T 5/815	815	163	-	✓	-	17,82 €	24,90 €	37,96 €	
T 5/840	840	168	-	-	-	18,09 €	25,36 €	38,76 €	
T 5/900	900	180	-	✓	-	19,05 €	26,88 €	40,65 €	
T 5/990	990	198	-	-	-	20,37 €	28,91 €	43,67 €	
T 5/1075	1075	215	-	-	-	21,73 €	30,09 €	47,17 €	
T 5/1100	1100	220	-	-	-	22,04 €	31,34 €	47,60 €	
T 5/1160	1160	232	-	-	-	23,96 €	33,69 €	51,20 €	
T 5/1215	1215	243	-	✓	✓	24,44 €	33,89 €	51,97 €	
T 5/1315	1315	263	-	-	-	27,77 €	37,59 €	56,85 €	
T 5/1380	1380	276	-	-	✓	28,34 €	37,92 €	57,23 €	

On request

*Depending on availability - Dimensions in mm

T-type belt



Pitch T10

Polyurethane with steel core

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

Options

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

Accessories

- AH arm and **RE** roller belt idler

Info.

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



Compatible with T10 pulley

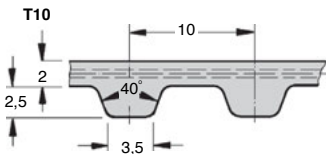
DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for widths			
			16mm	25mm	32mm	50mm
T 10/260	260	26	27,28 €	37,85 €	On request	On request
T 10/370	370	37	29,51 €	41,20 €		
T 10/410	410	41	30,57 €	42,50 €		
T 10/500	500	50	33,04 €	45,19 €		
T 10/530	530	53	33,81 €	46,33 €		
T 10/560	560	56	35,14 €	47,92 €		
T 10/600	600	60	36,14 €	49,03 €		
T 10/610	610	61	36,29 €	49,58 €		
T 10/630	630	63	37,36 €	50,64 €		
T 10/660	660	66	38,45 €	52,25 €		
T 10/680	680	68	34,35 €	57,81 €		
T 10/690	690	69	39,53 €	53,94 €		
T 10/700	700	70	41,09 €	48,90 €		
T 10/720	720	72	40,86 €	55,81 €		
T 10/730	730	73	39,16 €	61,08 €		
T 10/750	750	75	43,15 €	62,49 €		

Dimensions in mm

Pitch T10



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List -7%	List -14%	List -20%	List -24%	On request	On request

Part number	Length	No. of teeth	Price each 1 to 5 for widths			
			16mm	25mm	32mm	50mm
T 10/780	780	78	43,33 €	59,33 €	On request	On request
T 10/810	810	81	44,67 €	61,19 €		
T 10/840	840	84	46,06 €	63,17 €		
T 10/880	880	88	47,63 €	65,86 €		
T 10/890	890	89	48,18 €	66,96 €		
T 10/920	920	92	49,58 €	69,10 €		
T 10/960	960	96	51,18 €	72,33 €		
T 10/970	970	97	51,74 €	73,23 €		
T 10/980	980	98	52,25 €	73,97 €		
T 10/1010	1010	101	53,94 €	76,18 €		
T 10/1080	1080	108	56,90 €	81,04 €		
T 10/1110	1110	111	58,71 €	90,29 €		
T 10/1140	1140	114	59,89 €	85,44 €		
T 10/1150	1150	115	60,14 €	85,91 €		
T 10/1210	1210	121	63,17 €	90,54 €		
T 10/1240	1240	124	64,83 €	92,40 €		
T 10/1250	1250	125	65,01 €	93,27 €		
T 10/1300	1300	130	67,71 €	96,83 €		
T 10/1320	1320	132	68,57 €	98,14 €		
T 10/1350	1350	135	69,95 €	100,31 €		
T 10/1390	1390	139	72,09 €	103,34 €		
T 10/1400	1400	140	72,64 €	103,83 €		
T 10/1420	1420	142	73,47 €	105,16 €		
T 10/1460	1460	146	75,37 €	107,95 €		
T 10/1500	1500	150	On request	119,92 €		
T 10/1560	1560	156	78,63 €	114,42 €		
T 10/1610	1610	161	82,70 €	118,50 €		
T 10/1750	1750	175	90,01 €	129,90 €		
T 10/1780	1780	178	91,62 €	132,31 €		
T 10/1880	1880	188	97,05 €	140,49 €		
T 10/1960	1960	196	103,03 €	148,62 €		
T 10/2250	2250	225	127,17 €	186,73 €		

Dimensions in mm

T-type timing belt **per metre**



Pitch

Steel cored polyurethane

T5

T10

SINGLE-SIDED



Din 7721

- Pitches: 2.5, 5 and 10mm
- **For reciprocating movements**
- Fixing via rigid connection plates
- Working temp. -20°C to +80°C
- Max. speed 40m/s
- Tolerance over length $\pm 0.8\text{mm}/1000\text{mm}$
- Output up to 98%

Uses

- Alternating back-and-forth movements

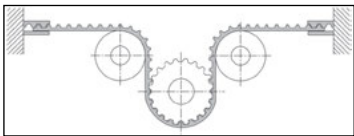
Accessories

- Connecting plate T.../P

For linear positioning

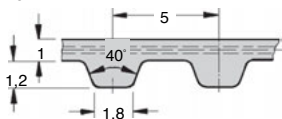
Info.

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

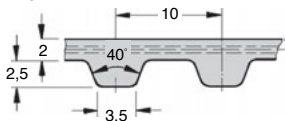


Typical application

T5M



T10M



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

		Price 1 to 5, per metre for widths					
Part number	Pitch	6mm	10mm	16mm	25mm	32mm	50mm
T5M	T5	17,64 €	22,98 €	27,20 €	51,29 €	-	-
T10M	T10	-	-	32,26 €	43,88 €	56,65 €	62,39 €

Dimensions in mm

Connecting plate for T type timing belts

For T5M and T10M timing belts

Pitch
T5
T10

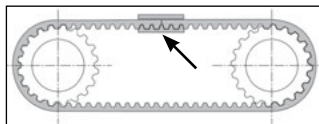
- For linear movements
- Rigid connecting plate
- Pitch: 5 or 10mm
- For use with **T5M** and **T10M** belts supplied by the metre
- Material:
Aluminium

Uses

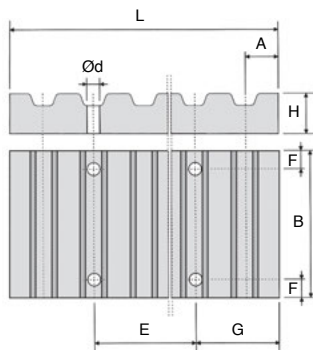
- For closing a belt or attaching one end of a belt to a frame



Until
-40%**



Typical application



✓ INCREASED STOCK

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	✓	16,91 €
T10/25P	T10	50	80,0	15	50	8	15,00	9,0	5,00	25	✓	24,10 €
T10/32P	T10	57	80,0	15	50	8	15,00	9,0	5,00	32	✓	25,31 €
T10/50P	T10	75	80,0	15	50	8	15,00	9,0	5,00	50	✓	27,65 €

Depending of availability - Dimensions in mm

AT type tooth bar stock



AT5-BAR

Aluminium

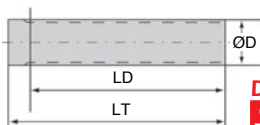


- Bar stock to be cut to length by the customer
- The overall length is the same as the maximum length
- Material : Aluminium suitable for hard anodic oxidation
- Finish : Supplied not-treated



Info.

- We are unable to modify this product



DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth L _D	Total length L _T	Price each 1 to 5
12AT5-BAR	12	17,85	140	140	8,75 €
13AT5-BAR	13	19,45	140	140	18,14 €
14AT5-BAR	14	21,05	140	140	10,28 €
15AT5-BAR	15	22,65	140	140	11,13 €
16AT5-BAR	16	24,20	140	140	12,55 €
18AT5-BAR	18	27,40	140	140	14,54 €
19AT5-BAR	19	29,00	140	140	15,74 €
20AT5-BAR	20	30,60	160	160	18,14 €
21AT5-BAR	21	32,30	160	160	18,90 €
22AT5-BAR	22	33,85	160	160	21,05 €
23AT5-BAR	23	35,45	160	160	21,23 €
24AT5-BAR	24	37,00	160	160	22,82 €
25AT5-BAR	25	38,55	160	160	24,51 €
26AT5-BAR	26	40,20	160	160	27,01 €
28AT5-BAR	28	43,25	160	160	29,92 €
30AT5-BAR	30	46,55	160	160	32,04 €
32AT5-BAR	32	49,70	160	160	37,19 €
34AT5-BAR	34	52,85	160	160	40,73 €
36AT5-BAR	36	56,05	160	160	43,23 €
38AT5-BAR	38	59,25	160	160	45,88 €
40AT5-BAR	40	62,45	160	160	49,76 €
42AT5-BAR	42	65,60	160	160	53,81 €
44AT5-BAR	44	68,80	160	160	63,37 €
46AT5-BAR	46	72,00	160	160	63,80 €
48AT5-BAR	48	75,15	160	160	71,35 €
52AT5-BAR	52	81,55	160	160	97,94 €
56AT5-BAR	56	87,90	160	160	101,12 €
60AT5-BAR	60	94,25	160	160	107,23 €
64AT5-BAR	64	100,65	160	160	143,09 €
72AT5-BAR	72	113,35	160	160	150,79 €

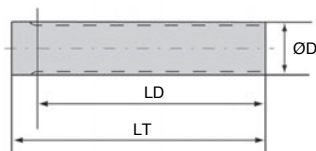
Dimensions in mm



- 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



DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth L _D	Total length L _T	Price each 1 to 5
15AT10-BAR	15	45,90	160	160	28,54 €
16AT10-BAR	16	49,14	160	160	32,44 €
18AT10-BAR	18	55,45	160	160	38,96 €
19AT10-BAR	19	58,65	160	160	43,66 €
20AT10-BAR	20	61,80	160	160	47,43 €
21AT10-BAR	21	65,00	160	160	51,35 €
22AT10-BAR	22	68,20	160	160	60,87 €
23AT10-BAR	23	71,35	160	160	61,14 €
24AT10-BAR	24	74,55	160	160	68,56 €
25AT10-BAR	25	77,75	160	160	69,06 €
26AT10-BAR	26	80,90	160	160	76,95 €
28AT10-BAR	28	87,25	160	160	85,63 €
30AT10-BAR	30	93,65	160	160	103,81 €
32AT10-BAR	32	100,00	160	160	113,96 €
34AT10-BAR	34	106,40	160	160	124,69 €
36AT10-BAR	36	112,75	160	160	136,99 €
38AT10-BAR	38	119,10	160	160	158,76 €
40AT10-BAR	40	125,45	160	160	171,31 €
42AT10-BAR	42	131,85	160	160	193,90 €
44AT10-BAR	44	138,20	160	160	212,27 €
46AT10-BAR	46	144,55	160	160	228,68 €
48AT10-BAR	48	150,95	160	160	241,95 €
52AT10-BAR	52	163,65	160	160	293,02 €
56AT10-BAR	56	176,40	160	160	337,00 €
60AT10-BAR	60	189,15	160	160	398,58 €

Dimensions in mm

AT-type timing pulley



Pitch AT5



For 10mm belts

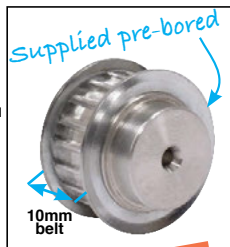
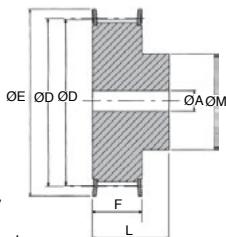
- For use with AT5 belts
- Pitch 5mm
- Material:
Aluminium

Accessories

- AT5 belts
- GTC tension rollers

Info

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



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
12AT5-10/ECO	12	19,10	17,85	23	11	15	21	-	2,74 €
14AT5-10/ECO	14	22,29	21,05	25	13	15	21	-	3,00 €
15AT5-10/ECO	15	23,88	22,65	28	16	15	21	6	3,23 €
16AT5-10/ECO	16	25,47	24,20	32	18	15	21	6	3,56 €
18AT5-10/ECO	18	28,65	27,40	32	20	15	21	6	3,78 €
19AT5-10/ECO	19	30,25	29,00	36	22	15	21	6	4,16 €
20AT5-10/ECO	20	31,83	30,60	36	23	15	21	6	4,38 €
22AT5-10/ECO	22	35,02	33,85	38	24	15	21	6	4,98 €
24AT5-10/ECO	24	38,21	37,00	42	26	15	21	6	5,33 €
25AT5-10/ECO	25	39,80	38,60	44	26	15	21	6	5,67 €
26AT5-10/ECO	26	41,39	40,20	44	26	15	21	6	6,15 €
27AT5-10/ECO	27	42,98	41,80	48	30	15	21	8	6,36 €
28AT5-10/ECO	28	44,58	43,35	48	32	15	21	8	6,79 €
30AT5-10/ECO	30	47,76	46,55	51	34	15	21	8	7,27 €
32AT5-10/ECO	32	50,94	49,70	54	38	15	21	8	8,17 €
36AT5-10/ECO	36	57,31	56,05	64	38	15	21	8	9,47 €
40AT5-10/ECO	40	63,66	62,45	66,5	40	15	21	8	10,76 €
42AT5-10/ECO	42	66,86	65,60	70	40	15	21	8	11,58 €
44AT5-10/ECO	44	70,05	68,80	-	45	15	21	8	11,62 €
48AT5-10/ECO	48	76,42	75,15	-	50	15	21	8	13,08 €
60AT5-10/ECO	60	95,52	94,25	-	65	15	21	8	19,50 €

Dimensions in mm

Aluminium

Pitch
AT5


For 16mm belts

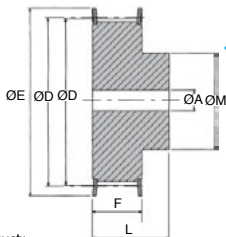
- For use with AT5 belts
- Pitch 5mm
- Material:
Aluminium

Accessories

- AT5 belts
- GTC tension rollers

Info

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



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PDC	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
12AT5-16/ECO	12	19,10	17,85	23	11	21	27	-	3,14 €
14AT5-16/ECO	14	22,29	21,05	25	13	21	27	-	3,43 €
15AT5-16/ECO	15	23,88	22,65	28	16	21	27	6	3,78 €
16AT5-16/ECO	16	25,47	24,20	32	18	21	27	6	4,08 €
18AT5-16/ECO	18	28,65	27,40	32	20	21	27	6	4,38 €
19AT5-16/ECO	19	30,25	29,00	36	22	21	27	6	4,85 €
20AT5-16/ECO	20	31,83	30,60	36	23	21	27	6	5,08 €
22AT5-16/ECO	22	35,02	33,85	38	24	21	27	6	5,85 €
24AT5-16/ECO	24	38,21	37,00	42	26	21	27	6	6,28 €
25AT5-16/ECO	25	39,80	38,60	44	26	21	27	6	6,67 €
26AT5-16/ECO	26	41,39	40,20	44	26	21	27	6	7,27 €
27AT5-16/ECO	27	42,98	41,80	48	30	21	27	8	7,36 €
28AT5-16/ECO	28	44,58	43,35	48	32	21	27	8	8,05 €
30AT5-16/ECO	30	47,76	46,55	51	34	21	27	8	8,56 €
32AT5-16/ECO	32	50,94	49,70	54	38	21	27	8	9,63 €
36AT5-16/ECO	36	57,31	56,05	64	38	21	27	8	11,36 €
40AT5-16/ECO	40	63,66	62,45	66,5	40	21	27	8	12,78 €
42AT5-16/ECO	42	66,86	65,60	70	40	21	27	8	13,73 €
44AT5-16/ECO	44	70,05	68,80	-	45	21	27	8	14,16 €
48AT5-16/ECO	48	76,42	75,15	-	50	21	27	8	15,93 €
60AT5-16/ECO	60	95,52	94,25	-	65	21	27	8	23,77 €

Dimensions in mm

AT-type timing pulley



Pitch AT5

For 25mm belts

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

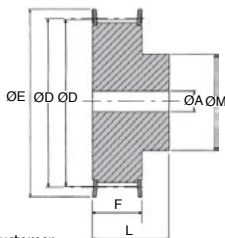
Accessories

- AT5 belts
- GTC tension rollers

Info

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

Aluminium



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PDC	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
12AT5-25/ECO	12	19,10	17,85	23	11	30	36	-	3,65 €
14AT5-25/ECO	14	22,29	21,05	25	13	30	36	-	4,04 €
15AT5-25/ECO	15	23,88	22,65	28	16	30	36	6	4,38 €
16AT5-25/ECO	16	25,47	24,20	32	18	30	36	6	4,85 €
18AT5-25/ECO	18	28,65	27,40	32	20	30	36	6	5,20 €
19AT5-25/ECO	19	30,25	29,00	36	22	30	36	6	5,77 €
20AT5-25/ECO	20	31,83	30,60	36	23	30	36	6	6,15 €
22AT5-25/ECO	22	35,02	33,85	38	24	30	36	6	7,05 €
24AT5-25/ECO	24	38,21	37,00	42	26	30	36	6	7,83 €
25AT5-25/ECO	25	39,80	38,60	44	26	30	36	6	8,34 €
26AT5-25/ECO	26	41,39	40,20	44	26	30	36	6	8,99 €
27AT5-25/ECO	27	42,98	41,80	48	30	30	36	8	9,17 €
28AT5-25/ECO	28	44,58	43,35	48	32	30	36	8	9,94 €
30AT5-25/ECO	30	47,76	46,55	51	34	36	36	8	10,67 €
32AT5-25/ECO	32	50,94	49,70	54	38	30	36	8	11,97 €
36AT5-25/ECO	36	57,31	56,05	64	38	30	36	8	14,04 €
40AT5-25/ECO	40	63,66	62,45	66,5	40	30	36	8	15,84 €
42AT5-25/ECO	42	66,86	65,60	70	40	30	36	8	17,17 €
44AT5-25/ECO	44	70,05	68,80	-	45	30	36	8	18,04 €
48AT5-25/ECO	48	76,42	75,15	-	50	30	36	8	20,36 €
60AT5-25/ECO	60	95,52	94,25	-	65	30	36	8	30,40 €

Dimensions in mm

Find our full range of **SYNCHRONOUS PULLEYS**

on **HPCEUROPE.COM**



Economy range

- Alternative belt widths
- T and AT pitches
- Sold pre-bored



AT-type timing pulley



Pitch AT5

Aluminium 6082

Belt width 10mm



- 2nd generation metric profile
- Transmits a greater torque
- More precise
- Pitch 5mm
- Materials:

Pulley: aluminium 6082

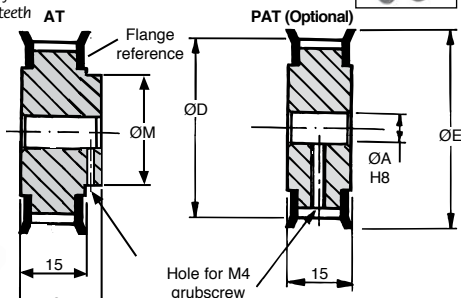
Flanges: aluminium for pulleys
with up to 46 teeth, steel for 47 teeth
or more

- All pulleys have flanges
- Secured by a grub screw



Options

- Choose from 20 to 84 teeth
- For use with belt AT5/...



DISCOUNTS

Qty	1+	6+	20+	40+
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 AT	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



Pitch AT5

Aluminium 6082

Belt width 16mm



- 2nd generation metric profile
- Transmits a greater torque
- Pitch 5mm
- Materials:

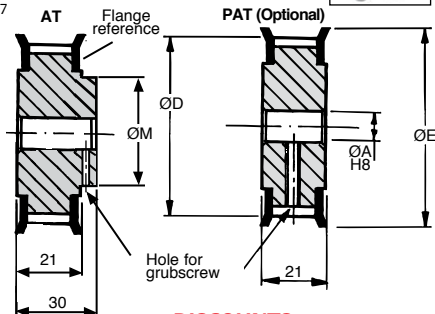
Pulley: Aluminium 6082

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
- For use with belt AT5/...



DISCOUNTS

Qty	1+	6+	20+	40+
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	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 AT	1 to 5 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



Pitch AT5

Aluminium 6082

Belt width 25mm



- 2nd generation metric profile
- Transmits a greater torque
- Pitch 5mm
- Materials:

Pulley: aluminium 6082

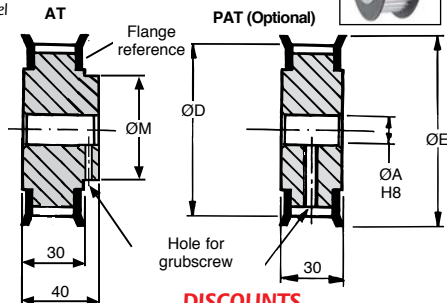
Flanges: aluminium for pulleys with up to 46 teeth, steel for 47 teeth or more

- All pulleys have flanges
- Secured by a grub screw



Options

- Choose from 20 to 84 teeth
- For use with belt AT5/...



DISCOUNTS

Qty	1+	6+	20+	40+
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 AT	1 to 5 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



Pitch

AT10



For 25mm belts

Aluminium

- For use with AT10 belts

- Pitch 10mm

- Material:

Aluminium

Accessories

- AT10 belts

- GTC tension rollers

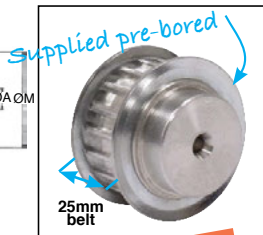
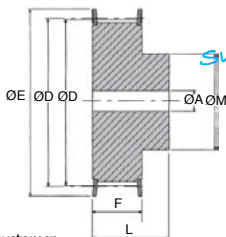
Info

- Bore size given as indication,

may vary between batches.

- Will require re-machining by customer

- We are unable to modify this product



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PDC	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
15AT10-25/ECO	15	47,75	45,90	51	32	30	40	8	9,72 €
16AT10-25/ECO	16	50,93	49,05	54	35	30	40	8	10,89 €
18AT10-25/ECO	18	57,29	55,45	60	40	30	40	8	13,00 €
19AT10-25/ECO	19	60,48	58,60	66,5	44	30	40	8	14,54 €
20AT10-25/ECO	20	63,66	61,80	66,5	46	30	40	8	15,58 €
22AT10-25/ECO	22	70,03	68,15	75	52	30	40	8	19,50 €
24AT10-25/ECO	24	76,39	74,55	83	58	30	40	8	21,91 €
25AT10-25/ECO	25	79,58	77,70	83	60	30	40	8	22,13 €
26AT10-25/ECO	26	82,76	80,90	87	60	30	40	8	24,54 €
27AT10-25/ECO	27	85,95	84,10	91	60	30	40	8	27,04 €
28AT10-25/ECO	28	89,12	87,25	93	60	30	40	8	27,08 €
30AT10-25/ECO	30	95,49	93,65	102	60	30	40	8	32,47 €
32AT10-25/ECO	32	101,86	100,00	106	65	30	40	10	35,27 €
36AT10-25/ECO	36	114,59	112,75	119	70	30	40	10	41,69 €
40AT10-25/ECO	40	127,32	125,45	131	80	30	40	10	51,85 €
44AT10-25/ECO	44	140,05	138,20	-	88	30	40	10	65,98 €
48AT10-25/ECO	48	152,78	150,95	-	95	30	40	16	70,85 €
60AT10-25/ECO	60	190,98	189,10	-	110	30	40	16	116,81 €

Dimensions in mm

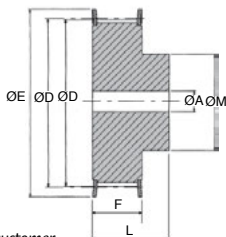
- For use with AT10 belts
- Pitch 10mm
- Material:
Aluminium

Accessories

- AT10 belts
- GTC tension rollers

Info

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



Economy range

DISCOUNTS

Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	ØA pre-bore	Price each 1 to 59
18AT10-32/ECO	18	57,29	55,45	60	40	37	47	10	14,54 €
19AT10-32/ECO	19	60,48	58,60	66,5	44	37	47	10	16,23 €
20AT10-32/ECO	20	63,66	61,80	66,5	46	37	47	12	17,48 €
22AT10-32/ECO	22	70,03	68,15	75	52	37	47	12	21,91 €
24AT10-32/ECO	24	76,39	74,55	83	58	37	47	12	24,66 €
25AT10-32/ECO	25	79,58	77,70	83	60	37	47	12	24,89 €
26AT10-32/ECO	26	82,76	80,90	87	60	37	47	12	27,69 €
27AT10-32/ECO	27	85,95	84,10	91	60	37	47	12	30,57 €
28AT10-32/ECO	28	89,12	87,25	93	60	37	47	12	30,65 €
30AT10-32/ECO	30	95,49	93,65	102	60	37	47	12	36,61 €
32AT10-32/ECO	32	101,86	100,00	106	65	37	47	12	40,27 €
36AT10-32/ECO	36	114,59	112,75	119	70	37	47	16	47,54 €
40AT10-32/ECO	40	127,32	125,45	131	80	37	47	16	59,47 €
44AT10-32/ECO	44	140,05	138,20	-	88	37	47	16	75,67 €
48AT10-32/ECO	48	152,78	150,95	-	95	37	47	16	81,39 €
60AT10-32/ECO	60	190,98	189,10	-	110	37	47	16	133,60 €

Dimensions in mm

AT-type timing pulley



Pitch AT10



For 50mm belts

Aluminium

- For use with AT10 belts

- Pitch 10mm

- Material:

Aluminium

Accessories

- AT10 belts

- GTC tension rollers

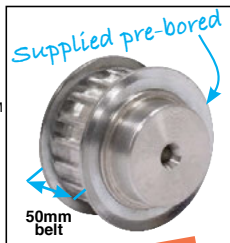
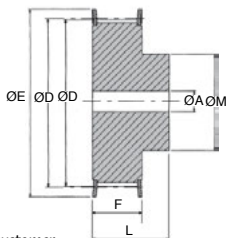
Info

- Bore size given as indication,

may vary between batches.

- Will require re-machining by customer

- We are unable to modify this product



Economy range

DISCOUNTS

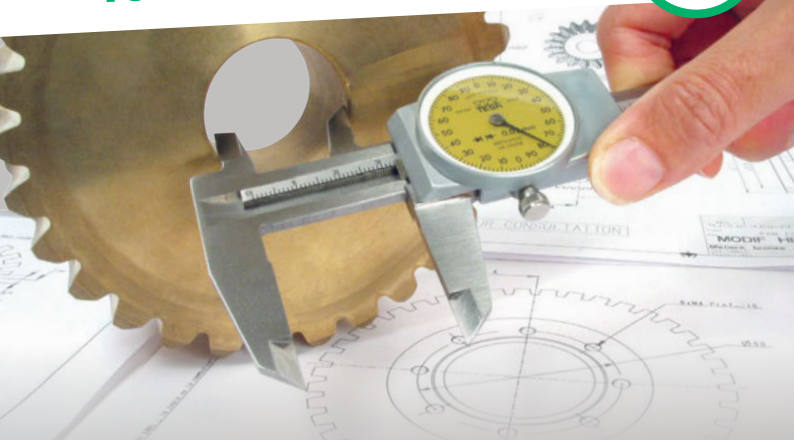
Qty	1+	60+	100+
Disc.	List	-6%	On request

Part number	No of teeth	Ø PCD	ØD external	ØE flange	ØM	F	L	ØA pre-bored	Price each 1 to 59
18AT10-50/ECO	18	57,29	55,45	60	40	56	66	10	19,07 €
19AT10-50/ECO	19	60,48	58,60	66,5	44	56	66	10	21,36 €
20AT10-50/ECO	20	63,66	61,80	66,5	46	56	66	12	23,00 €
22AT10-50/ECO	22	70,03	68,15	75	52	56	66	12	29,15 €
24AT10-50/ECO	24	76,39	74,55	83	58	56	66	12	32,86 €
25AT10-50/ECO	25	79,58	77,70	83	60	56	66	12	33,16 €
26AT10-50/ECO	26	82,76	80,90	87	60	56	66	12	36,90 €
27AT10-50/ECO	27	85,95	84,10	91	60	56	66	12	40,61 €
28AT10-50/ECO	28	89,12	87,25	93	60	56	66	12	40,91 €
30AT10-50/ECO	30	95,49	93,65	102	60	56	66	12	48,88 €
32AT10-50/ECO	32	101,86	100,00	106	65	56	66	12	53,84 €
36AT10-50/ECO	36	114,59	112,75	119	70	56	66	16	63,78 €
40AT10-50/ECO	40	127,32	125,45	131	80	56	66	16	79,68 €
44AT10-50/ECO	44	140,05	138,20	-	88	56	66	16	101,99 €
48AT10-50/ECO	48	152,78	150,95	-	95	56	66	16	109,83 €
60AT10-50/ECO	60	190,98	189,10	-	110	56	66	16	179,73 €

Dimensions in mm

Questions ? Need a quote ?

OUR TECHNICAL TEAM IS HERE TO HELP



- With made to measure items
- Help choosing the right component
- For any other questions

Tel. +33 (0)4 37 496 496

Fax. +33 (0)4 37 490 055

cial2@hpceurope.com

Pitch

Steel

AT10

Belt width 25mm

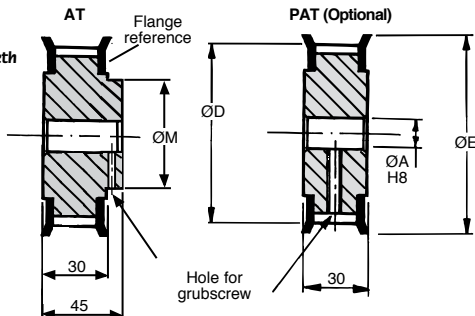


- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
Pulley: steel 20NCD2
Flanges: steel
- All pulleys have flanges
- Secured by a grub screw



Options

- Choose from 15 to 130 teeth
- For use with belt AT10/...



DISCOUNTS

Qty	1+	6+	20+	40+
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 PAT
15AT10-25	15	47,75	45,90	35	10	56,56	16L	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	
								On request

Dimensions in mm



DISCOUNTS

Qty	1+	6+	20+	40+
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 PAT
25AT10-25	25	79,58	77,75	50	12	85,73	20H	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	On request
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 in mm

Dimensions : contacte us

On request On request

AT-type timing pulley



Pitch

Steel

AT10

Belt width 32mm

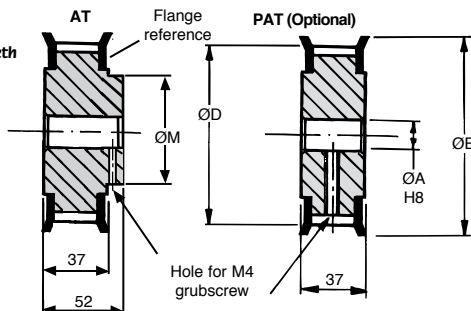


- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
Pulley: steel 20NCD2
Flanges: steel
- All pulleys have flanges
- Secured by a grub screw



Options

- Choose from 15 to 130 teeth
- For use with belt AT10/...



DISCOUNTS

Qty	1+	6+	20+	40+
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

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each AT	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

Steel

AT10

Belt width 50mm

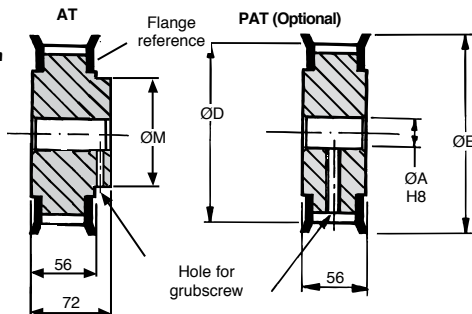


- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
Pulley: steel 20NCD2
Flanges: steel
- All pulleys have flanges
- Secured by a grub screw



Options

- Choose from 15 to 130 teeth
- For use with belt AT10/...



DISCOUNTS

Qty	1+	6+	20+	40+
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 PAT
15AT10-50	15	47,75	45,90	35	10	55,56	16L	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

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each AT	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	on request

Dimensions in mm

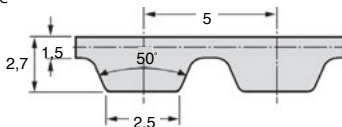
AT-type timing belt



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
- Output up to 98%
- Oil-resistant
- Low noise
- Resists stretching



Info.

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

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for widths		
			10mm	16mm	25mm
AT5/225	225	45	18,41 €	27,42 €	37,49 €
AT5/255	255	51	18,89 €	27,75 €	37,75 €
AT5/280	280	56	19,11 €	27,97 €	38,07 €
AT5/300	300	60	19,34 €	28,14 €	38,32 €
AT5/330	330	66	19,45 €	28,48 €	39,02 €
AT5/340	340	68	19,48 €	28,65 €	39,02 €
AT5/375	375	75	19,83 €	29,13 €	39,89 €
AT5/390	390	78	19,94 €	29,45 €	40,28 €
AT5/420	420	84	20,24 €	29,84 €	40,87 €
AT5/450	450	90	20,60 €	30,61 €	41,54 €
AT5/455	455	91	20,69 €	30,75 €	41,84 €
AT5/500	500	100	21,73 €	32,43 €	44,97 €
AT5/525	525	105	22,76 €	34,28 €	47,60 €
AT5/545	545	109	23,43 €	35,60 €	49,80 €
AT5/600	600	120	25,09 €	38,32 €	53,29 €
AT5/610	610	122	25,47 €	38,73 €	54,15 €
AT5/660	660	132	26,16 €	39,89 €	55,90 €
AT5/710	710	142	27,42 €	41,54 €	58,10 €
AT5/720	720	144	27,66 €	41,84 €	58,56 €
AT5/750	750	150	27,97 €	42,73 €	59,41 €
AT5/780	780	156	28,83 €	44,08 €	61,59 €
AT5/825	825	165	29,73 €	45,85 €	63,79 €
AT5/860	860	172	30,44 €	47,17 €	66,01 €
AT5/975	975	195	33,02 €	51,54 €	72,58 €
AT5/1050	1050	210	35,39 €	55,04 €	77,33 €
AT5/1125	1125	225	36,79 €	57,63 €	81,72 €
AT5/1500	1500	300	44,08 €	70,36 €	101,43 €
AT5/2000	2000	400	61,59 €	95,31 €	134,69 €

Dimensions en mm



AT-type timing belt

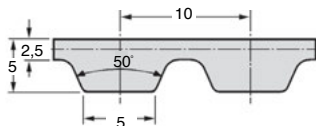
Steel cored polyurethane

Pitch
AT10

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

Info.

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



SIMPLE FACE



Din 7721

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Length	No. of teeth	Price each 1 to 5 for widths		
			25mm	32mm	50mm
AT10/500	500	50	56.79 €	71.66 €	105.39 €
AT10/560	560	56	59.85 €	-	112.39 €
AT10/600	600	60	61.59 €	78.66 €	115.02 €
AT10/610	610	61	62.05 €	79.13 €	115.84 €
AT10/660	660	66	66.01 €	84.37 €	123.31 €
AT10/700	700	70	68.59 €	88.29 €	128.55 €
AT10/730	730	73	70.78 €	91.80 €	132.50 €
AT10/780	780	78	74.31 €	95.74 €	139.93 €
AT10/800	800	80	76.47 €	97.49 €	141.70 €
AT10/840	840	84	79.99 €	102.30 €	149.13 €
AT10/890	890	89	85.69 €	110.16 €	160.53 €
AT10/920	920	92	89.17 €	115.44 €	168.41 €
AT10/960	960	96	94.88 €	123.31 €	178.03 €
AT10/980	980	98	97.90 €	124.63 €	187.21 €
AT10/1000	1000	100	100.10 €	128.13 €	190.28 €
AT10/1010	1010	101	100.97 €	128.55 €	191.56 €
AT10/1050	1050	105	102.75 €	132.09 €	195.53 €
AT10/1080	1080	108	104.05 €	133.80 €	197.29 €
AT10/1100	1100	110	106.25 €	136.00 €	201.21 €
AT10/1150	1150	115	108.86 €	139.93 €	207.31 €
AT10/1200	1200	120	111.48 €	143.84 €	212.60 €
AT10/1210	1210	121	111.94 €	144.74 €	213.89 €
AT10/1250	1250	125	115.02 €	147.82 €	218.30 €
AT10/1280	1280	128	115.84 €	150.02 €	220.89 €
AT10/1300	1300	130	117.62 €	151.75 €	223.52 €
AT10/1320	1320	132	119.37 €	153.95 €	227.45 €
AT10/1350	1350	135	122.00 €	156.99 €	232.71 €
AT10/1360	1360	136	123.31 €	158.33 €	234.92 €
AT10/1400	1400	140	126.80 €	164.45 €	242.37 €
AT10/1480	1480	148	133.80 €	174.04 €	256.80 €
AT10/1500	1500	150	135.13 €	176.28 €	259.85 €
AT10/1600	1600	160	143.84 €	188.05 €	277.38 €
AT10/1700	1700	170	153.07 €	199.46 €	295.30 €
AT10/1720	1720	172	155.25 €	201.21 €	298.35 €
AT10/1800	1800	180	161.82 €	211.26 €	312.37 €
AT10/1860	1860	186	167.09 €	217.84 €	321.55 €
AT10/1940	1940	194	174.96 €	229.67 €	339.97 €

Dimensions in mm

AT-type timing belt **per metre**



Pitch

Steel cored polyurethane

AT5

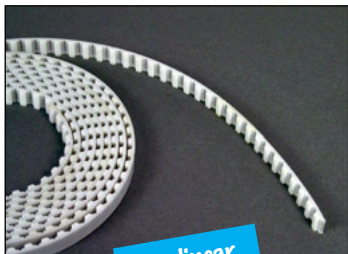
AT10

SINGLE-SIDED



Din 7721

- 2nd generation metric profile
- Transmits a greater load
- Pitch 5 or 10mm
- For linear movements
- Fixed using rigid connecting plates
- Working temp. -20°C to +80°C
- Max. speed 40m/s
- Tolerance over length $\pm 0.8\text{mm}/1000\text{mm}$
- Output up to 98%
- Oil-resistant
- Low noise
- Resists stretching



For linear positioning

Uses

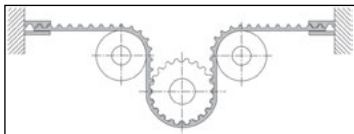
- For reciprocating movements

Accessories

- Connecting plate AT.../P

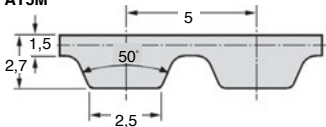
Info.

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

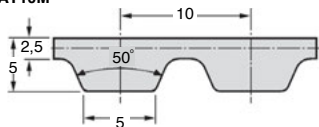


Typical application

AT5M



AT10M



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-7%	-14%	-20%	-24%	On request

Part number	Pitch	Price 1 to 5, per metre for widths				
		10mm	16mm	25mm	32mm	50mm
AT5M	AT5	27,64 €	32,84 €	61,54 €	-	-
AT10M	AT10	-	-	53,06 €	67,73 €	75,25 €

Dimensions in mm

Alu Connecting plate for AT type timing belts

For AT5M and AT10M timing belts

Pitch
AT5
AT10

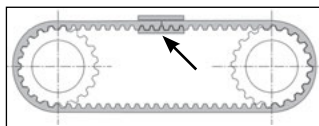
- For linear movements
- Rigid connecting plate
- Pitches: 5 and 10mm
- For use with **AT5M** and **AT10M** belts supplied by the metre
- Material:
Aluminium

Uses

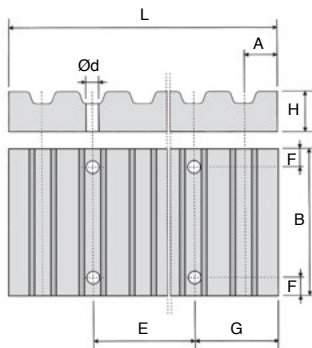
- For closing a belt or attaching one end of a belt to a frame



Until
-40%**



Typical application



✓ INCREASED STOCK

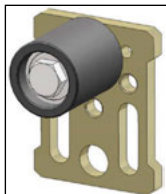
DISCOUNTS

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	✓	18,30 €
AT10/25P	AT10	50	80,0	15	50	8	15,00	9,0	5,00	25	✓	25,86 €
AT10/32P	AT10	57	80,0	15	50	8	15,00	9,0	5,00	32	✓	27,39 €
AT10/50P	AT10	75	80,0	15	50	8	15,00	9,0	5,00	50	✓	30,43 €

Depending of availability - Dimensions in mm

Timing belt lenght



Each belt has a fixed length, there fore when designing your system include a mechanism for altering the distance between the pulleys so that the belt 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.

B = Contact angle

D1 = Pitch diameter of large pulley

D2 = Pitch diameter of small pulley

a = Axle distance

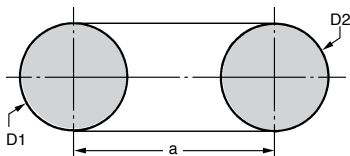
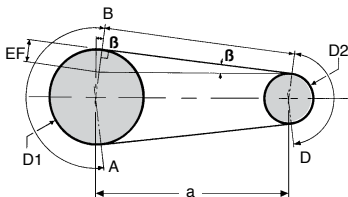
BC = Length of unattached belt

CD = Length of contact with small pulley

AB = Length of contact with large pulley

L = Total belt length

EF = Elevation



If the difference in the number of teeth for the two pulleys is not greater than 5, the belt length can be calculated as shown;

$$L = \frac{D_1 + D_2}{0,6366} + (2 \times a)$$

$$EF = \frac{D_1 - D_2}{2}$$

$$\sin B = \frac{EF}{a}$$

$$BC = \frac{EF}{\tan B}$$

$$AB = \pi \times D_1 \frac{[(2 \times B) + 180]}{360}$$

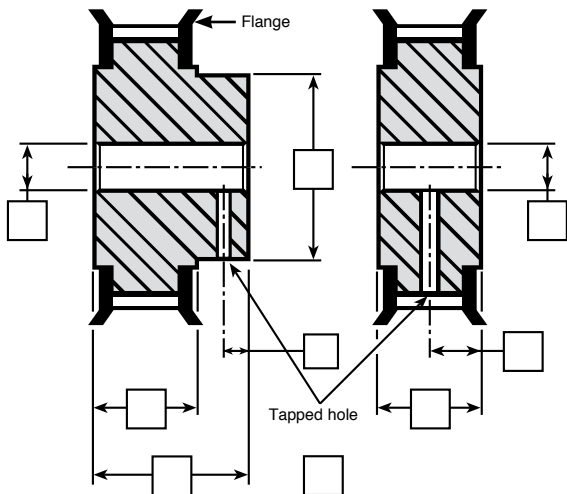
$$CD = \pi \times D_2 \frac{(90 - B)}{180}$$

$$L = (2 \times BC) + AB + CD$$

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

Non standard timing pulley

Drawing to be completed



Please add your dimensions to the boxes above

Description of the timing pulley			
Pitch		Material	
Number of teeth		Heat traitement	
Ø PCD		Keyway	
Outside Ø		Tapped hole	
Number of flanges		Other	
Quantity			

CHAIN SPROCKET



p.92

STAINLESS STEEL CHAIN SPROCKET



p.97

SINGLE CHAIN SUPPLIED BY THE METRE



p.102

CHAIN LINK



p.103

CHAINS AND SPROCKETS

p.92 - 106

SINGLE CHAIN SUPPLIED
BY THE METRE *stainless
steel*



p.104

STAINLESS STEEL
CHAIN LINK *stainless
steel*



p.105

Chain sprocket



Pitch 4mm

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

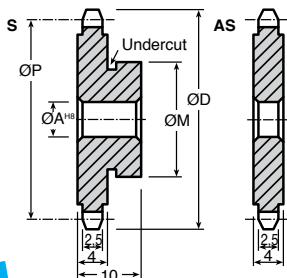
Stainless steel

Accessory

- SUA-4 chain



Smallest size



DISCOUNTS

Qty	1+	6+	20+	40+
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	10,39 € 8,30 €
S 4-11	11	14,20	16,02	12	4	8,00 x 2,5	11,04 € 8,79 €
S 4-12	12	15,45	17,32	12	4	8,00 x 2,5	11,61 € 9,23 €
S 4-13	13	16,71	18,62	12	4	9,05 x 2,5	12,19 € 9,72 €
S 4-14	14	17,97	19,92	12	4	10,33 x 2,5	13,22 € 10,55 €
S 4-15	15	19,23	21,21	12	4	11,60 x 2,5	13,56 € 10,80 €
S 4-16	16	20,50	22,50	12	4	-	14,38 € 11,45 €
S 4-17	17	21,76	23,79	12	4	-	15,58 € 12,42 €
S 4-18	18	23,06	25,08	12	4	-	16,26 € 12,99 €
S 4-19	19	24,29	26,37	12	4	-	16,98 € 13,84 €
S 4-20	20	25,57	27,65	15	5	-	17,77 € 14,18 €
S 4-21	21	26,83	28,94	15	5	-	18,52 € 14,75 €
S 4-23	23	29,37	31,50	15	5	-	19,29 € 15,38 €
S 4-25	25	31,91	34,06	15	5	-	20,05 € 16,00 €
S 4-27	27	34,45	36,62	15	5	-	21,87 € 17,48 €
S 4-30	30	38,26	40,45	15	5	-	24,39 € 19,49 €
S 4-33	33	42,08	44,29	15	5	-	25,71 € 20,56 €
S 4-35	35	44,62	46,84	15	5	-	26,44 € 21,60 €
S 4-36	36	45,89	48,12	15	5	-	27,18 € 21,35 €
S 4-38	38	48,43	50,67	15	5	-	27,36 € 21,88 €
S 4-40	40	50,98	53,22	20	6	-	27,56 € 22,01 €
S 4-42	42	53,52	55,77	20	6	-	27,68 € 22,12 €
S 4-44	44	56,07	58,32	20	6	-	27,92 € 22,35 €
S 4-48	48	61,12	63,42	20	6	-	28,18 € 22,55 €
S 4-50	50	63,66	65,98	20	6	-	28,45 € 22,73 €
S 4-60	60	76,39	78,72	20	6	-	29,57 € 23,64 €
S 4-80	80	101,86	104,20	20	6	-	91,61 € 89,20 €

Dimensions in mm

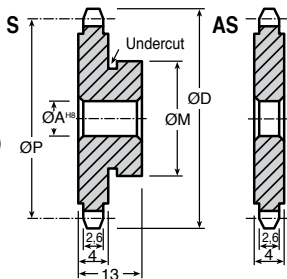
Stainless steel

Pitch
6mm

- Pitch 6mm (DIN 04-1)
- Roller diameter 3.95mm
- Material: stainless steel (303)
Z10CNF 18.09

Accessory

- SUA-4 chain

stainless
steel**DISCOUNTS**

Qty	1+	6+	20+	40+
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 6-10	10	19,42	22,06	15	6	10 x 2,5	12,14 € 9,56 €
S 6-11	11	21,29	24,03	15	6	14 x 2,5	13,00 € 10,39 €
S 6-12	12	23,18	25,99	15	6	14 x 2,5	14,28 € 11,35 €
S 6-13	13	25,07	27,94	15	6	-	14,66 € 11,70 €
S 6-14	14	26,96	29,88	15	6	-	15,05 € 12,03 €
S 6-15	15	28,85	31,82	15	6	-	15,41 € 12,32 €
S 6-16	16	30,75	33,76	15	6	-	16,80 € 13,43 €
S 6-17	17	32,65	35,69	15	6	-	18,38 € 14,66 €
S 6-18	18	34,55	37,62	15	6	-	18,97 € 15,15 €
S 6-19	19	36,45	39,55	15	6	-	20,46 € 16,33 €
S 6-20	20	38,35	41,48	20	8	-	22,11 € 17,67 €
S 6-21	21	40,25	43,41	20	8	-	22,41 € 17,91 €
S 6-23	23	44,06	47,25	20	8	-	22,66 € 18,07 €
S 6-25	25	47,87	51,09	20	8	-	22,96 € 18,38 €
S 6-27	27	51,68	54,93	20	8	-	23,23 € 18,57 €
S 6-30	30	57,40	60,68	20	8	-	23,53 € 18,76 €
S 6-33	33	63,12	66,43	20	8	-	23,85 € 19,09 €
S 6-35	35	66,93	70,26	20	8	-	23,53 € 20,86 €
S 6-36	36	68,84	72,18	20	8	-	24,59 € 19,65 €
S 6-38	38	72,65	76,00	20	8	-	25,39 € 20,23 €
S 6-40	40	76,47	79,83	30	10	-	26,05 € 20,86 €
S 6-42	42	80,28	83,66	30	10	-	27,17 € 21,19 €
S 6-44	44	84,10	87,49	30	10	-	27,03 € 21,60 €
S 6-48	48	91,73	95,14	30	10	-	27,52 € 21,98 €
S 6-50	50	95,55	98,97	30	10	-	28,77 € 23,00 €
S 6-56	56	107,00	110,44	30	10	-	91,61 € 89,20 €
S 6-60	60	114,64	118,08	30	10	-	96,41 € 94,00 €

Dimensions in mm

Chain sprocket **DIN 05B-1**



Pitch 8mm

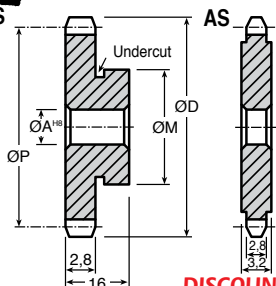
Steel



- Pitch 8mm (DIN 05B-1)
- Roller diameter 5mm
- Material:
Steel 20NCD2

Accessories

- SBR-8 or SBS-8 chains



stainless
steel

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-5%	-10%	On request

Z							Price each 1 to 5	
Part number	Teeth	ØP	ØD	ØM	ØA	Undercut Ø x width	S	AS
S 8-8	8	20,90	24,11	14	6	11,37 x 3	11,28 €	9,50 €
S 8-9	9	23,39	26,78	14	6	-	11,50 €	9,60 €
S 8-10	10	25,89	29,42	17	8	-	12,03 €	10,05 €
S 8-11	11	28,40	32,04	18	8	-	12,01 €	10,05 €
S 8-12	12	30,90	34,65	20	8	-	12,01 €	10,05 €
S 8-13	13	33,42	37,25	20	8	-	12,14 €	10,17 €
S 8-14	14	35,95	39,84	20	8	-	12,22 €	10,27 €
S 8-15	15	38,48	42,48	28	8	-	12,43 €	10,46 €
S 8-16	16	41,00	45,00	30	8	-	12,72 €	10,67 €
S 8-17	17	43,53	47,53	30	8	-	13,08 €	11,01 €
S 8-18	18	46,07	50,16	30	8	-	13,55 €	11,32 €
S 8-19	19	48,61	52,74	30	8	-	13,91 €	11,66 €
S 8-20	20	51,14	55,31	30	8	-	14,32 €	12,03 €
S 8-21	21	53,67	57,88	30	8	-	15,15 €	12,75 €
S 8-23	23	58,75	63,00	30	8	-	15,50 €	12,99 €
S 8-25	25	63,82	68,12	35	10	-	15,55 €	13,91 €
S 8-27	27	68,91	73,24	35	10	-	20,98 €	17,63 €
S 8-30	30	76,53	80,91	40	10	-	22,56 €	18,93 €
S 8-33	33	84,16	88,58	40	10	-	24,21 €	20,28 €
S 8-35	35	89,24	93,68	40	10	-	24,70 €	20,77 €
S 8-36	36	91,78	96,24	40	12	-	25,65 €	21,52 €
S 8-38	38	96,87	101,34	40	12	-	27,04 €	22,66 €
S 8-40	40	101,96	106,44	40	12	-	28,77 €	24,16 €
S 8-42	42	107,05	111,55	40	12	-	29,43 €	24,70 €
S 8-44	44	112,14	116,65	40	12	-	32,53 €	27,30 €
S 8-48	48	122,31	126,85	40	12	-	37,96 €	31,87 €
S 8-50	50	127,40	131,96	40	12	-	40,92 €	34,34 €

Dimensions in mm

Steel

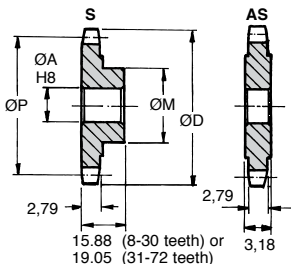


Pitch
1/4"

- Pitch 1/4" (6.35mm)
- Roller diameter 3.30mm
- Material:
Steel 20NCD2

Accessory

- SUA-250 (Nb.25) chain



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	ØP	ØD	ØM	ØA	Price each 1 to 5	
						S	AS
S 25 - 8	8	16,17	19,35	13	6,35	13,57 €	11,35 €
S 25 - 9	9	18,19	21,34	13	6,35	13,57 €	11,35 €
S 25 - 10	10	20,21	23,39	16	7,94	14,06 €	11,77 €
S 25 - 11	11	22,23	25,41	16	7,94	14,40 €	12,09 €
S 25 - 12	12	24,26	27,44	20	9,52	14,73 €	12,33 €
S 25 - 13	13	26,28	29,46	22	9,52	15,05 €	12,59 €
S 25 - 14	14	28,30	31,48	25	9,52	16,47 €	13,85 €
S 25 - 15	15	30,32	33,50	25	9,52	16,62 €	13,93 €
S 25 - 16	16	34,34	35,52	25	9,52	16,99 €	14,28 €
S 25 - 17	17	34,36	37,54	25	9,52	17,48 €	14,66 €
S 25 - 18	18	36,38	39,56	25	9,52	18,01 €	15,08 €
S 25 - 19	19	38,40	41,58	32	9,52	18,81 €	15,81 €
S 25 - 20	20	40,43	43,61	32	9,52	19,25 €	16,17 €
S 25 - 21	21	42,45	45,63	32	9,52	19,91 €	16,72 €
S 25 - 25	25	50,53	53,71	32	9,52	23,24 €	19,51 €
S 25 - 28	28	56,60	59,78	32	9,52	23,40 €	19,62 €
S 25 - 30	30	60,64	63,82	38	9,52	23,83 €	19,98 €
S 25 - 35	35	70,74	73,92	38	9,52	25,96 €	21,78 €
S 25 - 36	36	72,77	75,95	38	9,52	27,84 €	23,40 €
S 25 - 40	40	80,85	84,03	38	9,52	30,10 €	25,25 €
S 25 - 42	42	84,89	88,07	45	9,52	31,92 €	26,73 €
S 25 - 44	44	88,94	92,12	45	9,52	33,16 €	27,84 €
S 25 - 48	48	97,02	100,20	45	9,52	35,64 €	30,00 €
S 25 - 50	50	101,60	104,24	45	9,52	36,57 €	30,68 €
S 25 - 54	54	109,15	112,33	45	9,52	38,27 €	32,10 €
S 25 - 60	60	121,28	124,46	50	9,52	46,30 €	38,93 €
S 25 - 72	72	145,53	148,71	50	9,52	64,71 €	54,32 €

Dimensions in mm

Chain sprocket **DIN 06B-1**

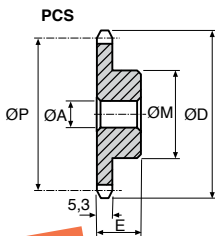


Pitch
3/8"



Steel

- Pitch 3/8" (9.525mm) (DIN 06B-1)
- Roller diameter 6.35mm
- Material: Steel C43
- HPC are unable to modify these parts



Options

- American pitch (ASA) on request
- The prebore dimensions are given as a guide only and are subject to change
- Custom made versions available

Accessories

- SBR-375 and SBS-375 chains

Economy range

DISCOUNTS

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

Part number	Z Teeth	ØP	ØD	ØM	ØA	E	Stock*	Price each 1 to 5
PCS37-8	8	24.89	28.0	15	8	22	✓	1,37 €
PCS37-9	9	27.85	31.0	18	8	22	✓	1,48 €
PCS37-10	10	30.82	34.0	20	8	22	✓	1,51 €
PCS37-12	12	36.80	40.0	25	8	25	✓	2,40 €
PCS37-13	13	39.80	43.0	28	10	25	✓	2,69 €
PCS37-14	14	42.80	46.3	31	10	25	✓	3,01 €
PCS37-15	15	45.81	49.3	34	10	25	✓	3,11 €
PCS37-16	16	48.82	52.3	37	10	28	✓	3,61 €
PCS37-17	17	51.83	55.3	40	10	28	✓	4,25 €
PCS37-18	18	54.85	58.3	43	10	28	✓	4,78 €
PCS37-20	20	60.89	64.3	46	10	28	✓	5,10 €
PCS37-21	21	63.91	68.0	48	12	28	✓	5,67 €
PCS37-22	22	66.93	71.0	50	12	28	✓	6,33 €
PCS37-23	23	69.95	73.5	52	12	28	✓	6,72 €
PCS37-24	24	72.97	77.0	54	12	28	✓	6,98 €
PCS37-25	25	76.00	80.0	57	12	28	✓	7,27 €
PCS37-26	26	79.02	83.0	60	12	28	✓	8,13 €
PCS37-27	27	82.04	86.0	60	12	28	✓	8,28 €
PCS37-28	28	85.07	89.0	60	12	28	✓	8,52 €
PCS37-29	29	88.09	92.0	60	12	28	-	8,93 €
PCS37-30	30	91.12	94.7	60	12	28	✓	9,35 €
PCS37-32	32	97.17	101.3	65	14	30	✓	11,01 €
PCS37-33	33	100.20	104.3	65	14	30	-	11,54 €
PCS37-34	34	103.23	107.3	65	14	30	✓	11,57 €
PCS37-35	35	106.26	110.4	65	14	30	-	12,36 €
PCS37-36	36	109.29	113.4	70	14	30	-	12,87 €
PCS37-38	38	115.34	119.5	70	14	30	-	13,32 €
PCS37-40	40	121.40	125.5	70	14	30	✓	14,16 €

*Depending on availability - Dimensions in mm

Stainless steel

Pitch 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**

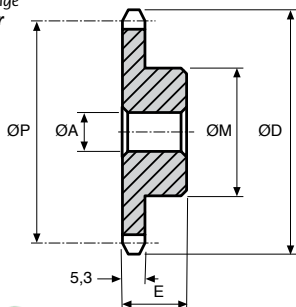
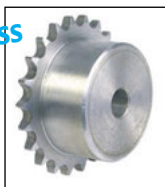
Options

- American pitch (ASA) on request
- The prebore dimensions are given as a guide only and are subject to change
- **Special versions available to order**

Accessories

- SBS-375 chain

stainless
steel



DISCOUNTS

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



Part number	Z Teeth	ØP	ØD	ØM	ØA	E	Price each. 1 to 5
PCS37-12/SS	12	36,80	40,0	25	8	25	20,19 €
PCS37-13/SS	13	39,80	43,0	28	10	25	28,97 €
PCS37-15/SS	15	45,81	49,3	34	10	25	36,38 €
PCS37-16/SS	16	48,82	52,3	37	10	28	38,25 €
PCS37-17/SS	17	51,83	55,3	40	10	28	40,73 €
PCS37-18/SS	18	54,85	58,3	43	10	28	42,56 €
PCS37-19/SS	19	57,87	61,3	46	10	28	44,30 €
PCS37-20/SS	20	60,89	64,3	46	10	28	46,21 €
PCS37-21/SS	21	63,91	68,0	48	12	28	47,91 €
PCS37-23/SS	23	69,95	73,5	52	12	28	53,35 €
PCS37-25/SS	25	76,00	80,0	57	12	28	56,79 €
PCS37-30/SS	30	91,12	94,7	60	12	30	69,53 €

Dimensions in mm

Chain sprocket **DIN 08B-1**



Pitch 1/2"

Steel

- Pitch 1/2" (12.7mm) (DIN 08B-1)
- Roller diameter 8.51mm
- Material: Steel C43
- HPC are unable to modify these parts

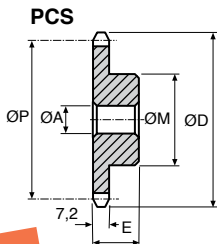
Options

- American pitch (ASA) on request
- The prebore dimensions are given as a guide only and are subject to change
- Custom made versions available

Accessories

- SBR-500 and SBS-500 chains

Economy range



DISCOUNTS

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

Part number	Z Teeth	ØP	ØD	ØM	ØA	E	Stock*	Price each 1 to 5
PCS50-8	8	33,18	37,2	20	10	25	✓	1,70 €
PCS50-9	9	37,13	41,0	24	10	25	✓	2,40 €
PCS50-10	10	41,10	45,2	26	10	25	✓	3,11 €
PCS50-12	12	49,07	53,0	33	10	28	✓	4,25 €
PCS50-15	15	61,09	65,5	45	10	28	✓	5,78 €
PCS50-16	16	65,10	69,5	50	12	28	✓	6,13 €
PCS50-18	18	73,14	77,8	56	12	28	✓	7,51 €
PCS50-20	20	81,19	85,8	64	12	28	✓	10,16 €
PCS50-21	21	85,22	89,7	68	14	28	✓	10,70 €
PCS50-22	22	89,24	93,8	70	14	28	✓	11,01 €
PCS50-23	23	93,27	98,2	70	14	28	-	11,57 €
PCS50-24	24	97,29	101,8	70	14	28	✓	11,76 €
PCS50-25	25	101,33	105,8	70	14	28	✓	12,44 €
PCS50-26	26	105,36	110,0	70	16	30	✓	13,22 €
PCS50-27	27	109,40	114,0	70	16	30	✓	13,41 €
PCS50-28	28	113,42	118,0	70	16	30	✓	13,76 €
PCS50-29	29	117,46	122,0	80	16	30	✓	15,69 €
PCS50-30	30	121,50	126,1	80	16	30	✓	17,35 €
PCS50-31	31	125,54	130,2	90	16	30	-	18,44 €
PCS50-32	32	129,56	134,3	90	16	30	✓	18,68 €
PCS50-33	33	133,60	138,4	90	16	30	-	19,23 €
PCS50-34	34	137,64	142,6	90	16	30	-	21,06 €
PCS50-35	35	141,68	146,7	90	16	30	✓	21,65 €
PCS50-36	36	145,72	151,0	90	20	35	✓	23,95 €
PCS50-37	37	149,76	154,6	90	20	35	-	24,69 €
PCS50-38	38	153,80	158,6	90	20	35	✓	24,92 €
PCS50-39	39	157,83	162,7	90	20	35	-	26,10 €
PCS50-40	40	161,87	166,8	90	20	35	✓	26,64 €

*Depending on availability - Dimensions in mm

Stainless steel

Pitch 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**

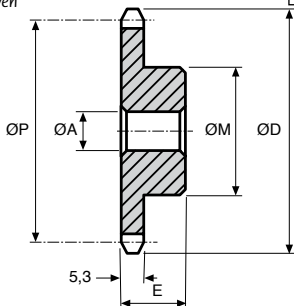
Options

- American pitch (ASA) on request
- The prebore dimensions are given as a guide only and are subject to change
- **Special versions available to order**

Accessories

- SBS-375 chain

stainless
steel



DISCOUNTS

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

Part number	Z Teeth	ØP	ØD	ØM	ØA	E	Price each. 1 to 5
PCS37-12/SS	12	36,80	40,0	25	8	25	20,19 €
PCS37-13/SS	13	39,80	43,0	28	10	25	28,97 €
PCS37-15/SS	15	45,81	49,3	34	10	25	36,38 €
PCS37-16/SS	16	48,82	52,3	37	10	28	38,25 €
PCS37-17/SS	17	51,83	55,3	40	10	28	40,73 €
PCS37-18/SS	18	54,85	58,3	43	10	28	42,56 €
PCS37-19/SS	19	57,87	61,3	46	10	28	44,30 €
PCS37-20/SS	20	60,89	64,3	46	10	28	46,21 €
PCS37-21/SS	21	63,91	68,0	48	12	28	47,91 €
PCS37-23/SS	23	69,95	73,5	52	12	28	53,35 €
PCS37-25/SS	25	76,00	80,0	57	12	28	56,79 €
PCS37-30/SS	30	91,12	94,7	60	12	30	69,53 €

Dimensions in mm

Chain sprocket **DIN 10B-1**

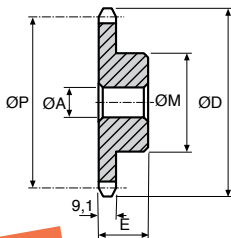


Pitch 5/8"

Steel

- Pitch 5/8" (15.875 mm)
(DIN 10B-1)
- Roller diameter 10.16mm
- Material: Steel C43
- **We are unable to modify these parts**

PCS



Options

- American pitch (ASA) on request
- The prebore dimensions are given as a guide only and are subject to change
- **Custom made versions available**

Accessories

- SBR-625 and
SBS-265 chains

Economy range

DISCOUNTS

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

Part number	Z Teeth	ØP	ØD	ØM	ØA	E	Stock*	Price each 1 to 5
PCS62-8	8	41,48	47,0	25	10	25	✓	2,74 €
PCS62-9	9	46,42	52,6	30	10	25	-	3,77 €
PCS62-10	10	51,37	57,5	35	10	25	✓	3,77 €
PCS62-13	13	66,32	73,0	47	12	30	✓	6,98 €
PCS62-15	15	76,36	83,0	57	12	30	✓	8,63 €
PCS62-16	16	81,37	88,0	60	14	30	✓	9,62 €
PCS62-17	17	86,39	93,0	60	14	30	✓	10,34 €
PCS62-18	18	91,42	98,3	70	14	30	✓	11,57 €
PCS62-20	20	101,49	108,4	75	14	30	✓	13,41 €
PCS62-21	21	106,52	113,4	75	16	30	✓	14,45 €
PCS62-22	22	111,55	118,0	80	16	30	-	15,82 €
PCS62-23	23	116,58	123,4	80	16	30	-	16,60 €
PCS62-24	24	121,62	128,3	80	16	30	-	17,35 €
PCS62-25	25	126,66	134,0	80	16	30	-	18,01 €
PCS62-26	26	131,70	139,0	85	20	35	-	21,51 €
PCS62-27	27	136,75	144,0	85	20	35	-	23,29 €
PCS62-28	28	141,78	148,7	90	20	35	-	24,37 €
PCS62-29	29	146,83	153,8	90	20	35	-	25,81 €
PCS62-30	30	151,87	158,8	90	20	35	✓	26,57 €
PCS62-31	31	156,92	163,9	95	20	35	-	28,65 €
PCS62-32	32	161,95	168,9	95	20	35	-	29,72 €
PCS62-33	33	167,00	174,5	95	20	35	-	30,93 €
PCS62-34	34	172,05	179,0	95	20	35	-	31,89 €
PCS62-35	35	177,10	184,1	95	20	35	-	33,04 €
PCS62-38	38	192,24	199,2	100	20	35	-	37,57 €
PCS62-39	39	197,29	204,2	100	20	35	-	39,05 €
PCS62-40	40	202,34	209,3	100	20	35	✓	40,32 €

*Depending on availability - Dimensions in mm

Stainless steel

Pitch
5/8"

- Pitch 5/8" (15.875mm) (DIN 10B-1)
- Roller diameter 10.16mm
- Material:
stainless steel AISI 304
- We are unable to modify these parts

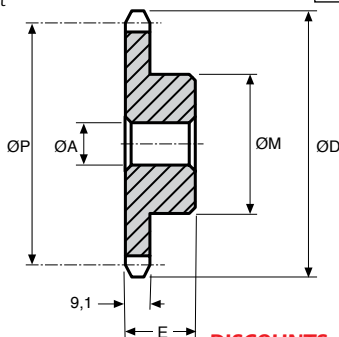
Options

- American pitch(ASA)
on request
- The prebore dimensions are given as
a guide only and are subject
to change
- Special versions available
to order

Accessories

- SBS-625 chain

stainless
steel



DISCOUNTS

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

Part number	Z Teeth	ØP	ØD	ØM	ØA	E	Price each. 1 to 5
PCS62-12/SS	12	61,34	68,0	42	12	30	41,47 €
PCS62-13/SS	13	66,32	73,0	47	12	30	57,07 €
PCS62-15/SS	15	76,36	83,0	57	12	30	61,93 €
PCS62-16/SS	16	81,37	88,0	60	14	30	65,74 €
PCS62-17/SS	17	86,39	93,0	60	14	30	72,73 €
PCS62-18/SS	18	91,42	98,3	70	14	30	78,11 €
PCS62-19/SS	19	96,45	103,3	70	14	30	83,48 €
PCS62-20/SS	20	101,49	108,4	75	14	30	88,37 €
PCS62-21/SS	21	106,52	113,4	75	16	30	97,51 €
PCS62-23/SS	23	116,58	123,4	80	16	30	106,17 €
PCS62-25/SS	25	126,66	134,0	80	16	30	113,14 €
PCS62-30/SS	30	151,87	158,8	90	20	35	163,86 €

Dimensions in mm

Single chain supplied by the metre **Ste DIN Stock**

Pitch

4.0 mm

to 19.05 mm

Steel

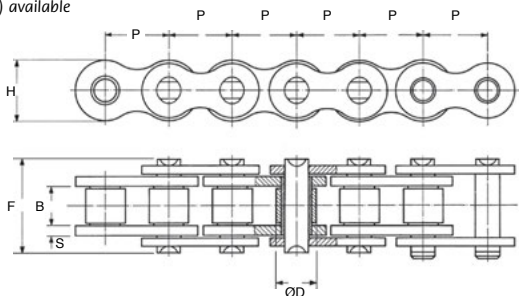
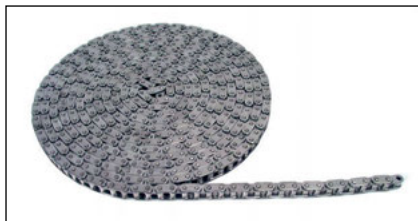
- DIN 8187 (European Standard)
- ISO 606
- Compatible with standard HPC sprockets
- Supplied in multiples of either 1 or 5 metre lengths depending on part

Accessories

- TRE arm and PTR sprocket idler
- Roll-Ring® RLR idler

Option

- American pitch (ASA) available on request



DISCOUNTS

No. metres	1+	10+	25+	45+
Discounts	List	-5%	-10%	On request

Part number	DIN	Pitch P (mm)	B (mm)	Roller ØD (mm)	F (mm)	H (mm)	S (mm)	Breaking strength (N)	Sold in multiples of	Stock*	Price per metre
SUA-4	-	4,00	2,70	2,50	6,8	4,1	-	1800	1 metre	✓	169,18 €
SUA-6/M	04-1	6,00	2,80	4,00	7,8	5,0	0,60	3000	5 metres	✓	11,57 €
SUA-250/M	-	6,35	3,30	3,30	8,0	6,0	-	4000	5 metres	✓	14,18 €
SBR-8/M	05B-1	8,00	3,00	5,00	8,9	7,1	0,80	5000	5 metres	✓	9,61 €
SBR-375/M	06B-1	9,53	5,72	6,35	14,1	8,2	1,30	9000	5 metres	✓	7,42 €
SBR-500/M	08B-1	12,70	7,75	8,51	18,2	11,8	1,60	18000	5 metres	✓	7,16 €
SBR-625/M	10B-1	15,88	9,65	10,16	20,9	14,7	1,70	22400	5 metres	✓	8,92 €
SBR-750/M	12B-1	19,05	11,68	12,07	24,2	16,0	1,85	29000	5 metres	✓	11,48 €

*Depending on availability - Dimensions in mm

Steel

Pitch 4.0 mm to 19.05 mm

- **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

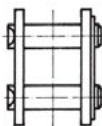
- Compatible with **SUA** and **SBR** chains



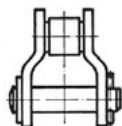
SUA



SBR



Connecting link



Offset link

DISCOUNTS

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

Part number		DIN	Pitch P (mm)	For chain	Stock*	Stock*	Price each 1 to 9	
Connecting link	Offset link				Connecting link	Offset link	Connecting link	Offset link
SUA-4/L	-	-	4,00	SUA-4	✓	-	9,93 €	-
SUA-6/L	-	04-1	6,00	SUA-6	✓	-	0,85 €	-
SUA-250/L	-	-	6,35	SUA-250	✓	-	0,97 €	-
SBR-8/L	-	05B-1	8,00	SBR-8	✓	-	0,85 €	-
SBR-375/L	SBR-375/LC	06B-1	9,53	SBR-375	✓	✓	0,70 €	1,35 €
SBR-500/L	SBR-500/LC	08B-1	12,70	SBR-500	✓	✓	0,98 €	1,35 €
SBR-625/L	SBR-625/LC	10B-1	15,88	SBR-625	✓	✓	0,70 €	1,64 €
SBR-750/L	SBR-750/LC	12B-1	19,05	SBR-750	✓	✓	1,06 €	2,11 €

*Depending on availability - Dimensions in mm

Single chain supplied by the metre **Sta** **DIN** **Stock**

Pitch

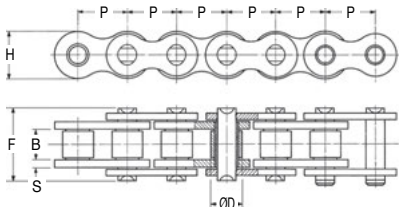
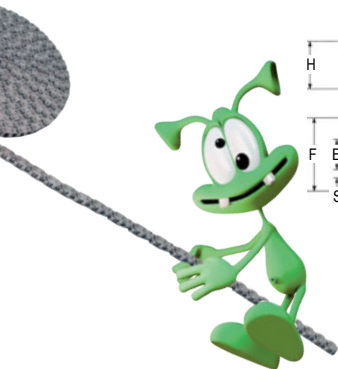
9.52 mm to 19.05 mm

Stainless steel

- DIN 8187 (European Standard)
- ISO 606
- Compatible with standard HPC sprockets
- Supplied in multiples of 5 metres

Accessories

- TPX arm and XZK idler
- Roll-Ring® RLR idler



DISCOUNTS

No. metres	1+	50+
Discounts	List	On request

Part number	DIN	Pitch P (mm)	B (mm)	Roller ØD (mm)	F (mm)	H (mm)	S (mm)	Breaking strength (N)	Sold in multiples of	Price per metre
SBS-375/M 06B-1		9,52	5,72	6,35	14,0	8,3	1,25	6200	5 mètres	30,89 €
SBS-500/M 08B-1		12,70	7,75	8,51	18,7	11,8	1,65	12000	5 mètres	35,64 €
SBS-625/M 10B-1		15,88	9,65	10,16	21,1	14,7	1,70	14500	5 mètres	48,84 €
SBS-750/M 12B-1		19,05	11,68	12,07	24,5	16,1	1,85	18500	5 mètres	57,01 €

*Depending on availability - Dimensions in mm

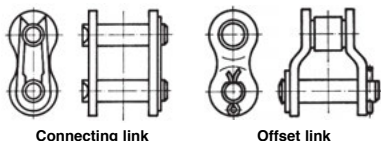
Stainless steel

Pitch
**9.52 mm
 to 19.05 mm**

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

Accessorie

- Compatible with **SBS** stainless steel chains



DISCOUNTS

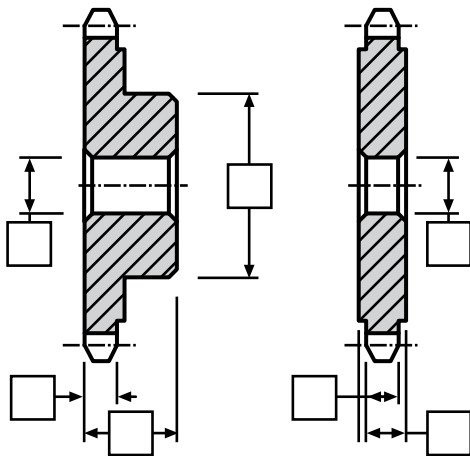
Qty	1+	50+
Disc.	List	On request

Part number		DIN	Pitch P (mm)	For chain	Stock*	Stock*	Price each 1 to 9	
Connecting link	Offset link				Connecting link	Offset link	Connecting link	Offset link
SBS-375/L	SBS-375/LC	06B-1	9,52	SBS-375	✓	✓	1,63 €	2,56 €
SBS-500/L	SBS-500/LC	08B-1	12,70	SBS-500	✓	✓	2,42 €	2,81 €
SBS-625/L	SBS-625/LC	10B-1	15,88	SBS-625	✓	✓	2,34 €	2,99 €
SBS-750/L	SBS-750/LC	12B-1	19,05	SBS-750	✓	✓	2,02 €	4,00 €

*Depending on availability - Dimensions in mm

Non standard chain sprocket

Drawing to be completed



Please add your dimensions to the boxes above

Description of the chain sprocket

Pitch		Material	
Pitch according to which standard		Treatment	
Number of teeth		Keyway	
Ø PCD		Tapped hole	
Outside Ø		Other	
Quantity			

HPC standard tolerances will apply (see technical pages)

AUTOMATIC CHAIN AND BELT TENSIONER



p.108

CHAIN AND BELT TENSIONERS **p.108 - 129**

CHAIN IDLER SPROCKET



p.117

UNIVERSAL TENSION ARM



p.120

BELT TENSIONER



p.124

TENSIONER PULLEY

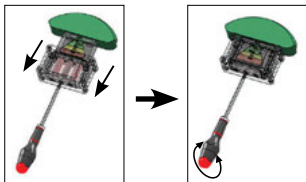


p.126

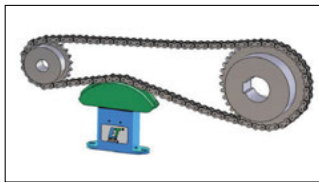
Automatic chain and belt tensioner

TCLAR
TC1RP

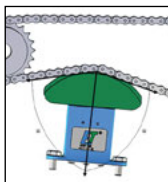
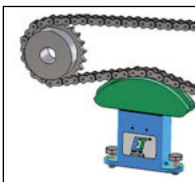
Mounting instructions



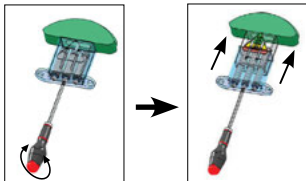
Pre-tension the tensioner using the screws situated under the body



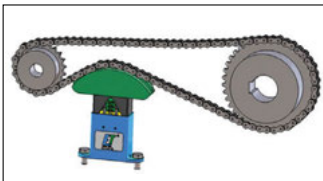
Position the tensioner under the chain (or belt) as close as possible to the sprocket on the slack side



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.

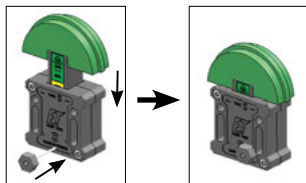


The tensioner is now ready for use. The stroke of the tensioner should be within the green range.

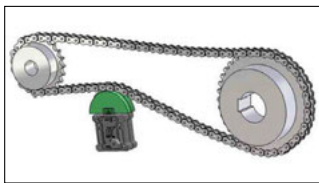
Automatic chain and belt tensioner

Mounting instructions

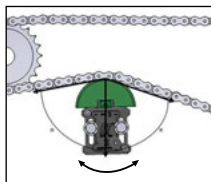
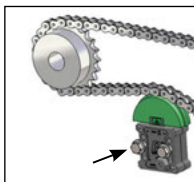
TCSH
TCRX



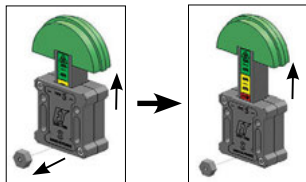
Pre-tension the tensioner using the button.



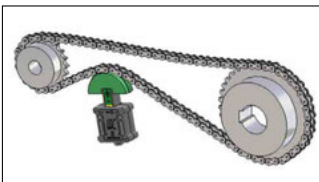
Position the tensioner under the chain (or belt) as close as possible to the sprocket on the slack side.



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

Automatic chain tensioner

TC1RP

With 180° guide

- Tensioner for single chain

- Materials:

Housing: steel with corrosion proof epoxy finish

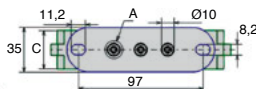
Profile: Green HD1000 polyethylene

Machine column: Black HD500 polyethylene

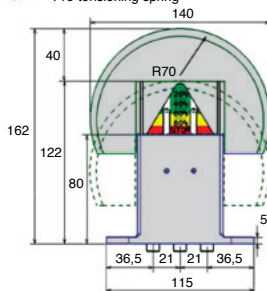
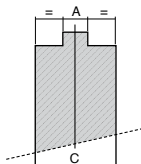
Screws and springs: stainless steel 304L

Adjustment

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



Detail A
Pre-tensioning spring



DISCOUNTS

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

Part number	Chain	A	C	Stroke	Tension (N)			Price each
					1 spring	2 springs	3 springs	
TC1-RP-06B1	06B1	5	30	40	60 to 132	120 to 264	180 à 396	214,27 €
TC1-RP-08B1	08B1	7	30	40	60 to 132	120 to 264	180 à 396	214,27 €
TC1-RP-10B1	10B1	9	30	40	60 to 132	120 to 264	180 à 396	214,27 €
TC1-RP-12B1	12B1	11	30	40	60 to 132	120 to 264	180 à 396	214,27 €

Dimensions in mm

Automatic chain tensioner

With sprocket

TCRX

- Tensioner for single chain

- Materials:

Housing and column: polyamide reinforced with 30% glass fibre

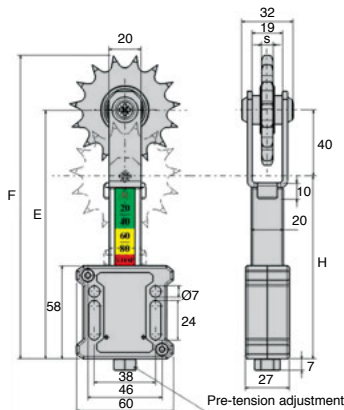
Screws and springs: stainless steel 304L

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



DISCOUNTS

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

Part number	Chain	Pitch	N° of teeth	S	Øext	ØPCD	F	E	H	Stroke	Tension (N)	Price each 1 to 9
Steel sprocket												
TCRX-06B1	06B1	9,525	15	5,3	49,3	45,81	160	135,0	95,0	40	100 à 240	62,23 €
TCRX-08B1	08B1	12,700	15	7,2	65,5	61,09	186	153,5	113,5	40	100 à 240	61,62 €
TCRX-10B1	10B1	15,875	15	9,1	83,0	76,36	196	153,5	113,5	40	100 à 240	65,80 €
Stainless steel sprocket												
TCRX-06B1/SS	06B1	9,525	15	5,3	49,3	45,81	160	135,0	95,0	40	100 à 240	76,83 €
TCRX-08B1/SS	08B1	12,700	15	7,2	65,5	61,09	186	153,5	113,5	40	100 à 240	81,72 €
TCRX-10B1/SS	10B1	15,875	15	9,1	83,0	76,36	196	153,5	113,5	40	100 à 240	104,37 €

Dimensions in mm

Automatic chain tensioner

TCLAR

With extended guide

- Tensioner for single chain

- Materials:

Housing: polyamide reinforced with 30% glass fibre

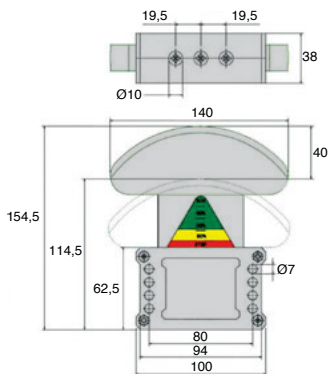
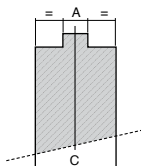
Profile: Green HD1000 polyethylene

Machine column: Black HD500 polyethylene

Screws and springs: stainless steel 304L

Adjustment

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



DISCOUNTS

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

Part number	Chain	A	C	Stroke	Tension (N)			Price each
					1 spring	2 springs	3 springs	
TCL-AR-06B1	06B1	5	30	40	60 à 132	120 à 264	180 à 396	114,27 €
TCL-AR-08B1	08B1	7	30	40	60 à 132	120 à 264	180 à 396	114,27 €
TCL-AR-10B1	10B1	9	30	40	60 à 132	120 à 264	180 à 396	114,27 €
TCL-AR-12B1	12B1	11	30	40	60 à 132	120 à 264	180 à 396	114,27 €

Dimensions in mm

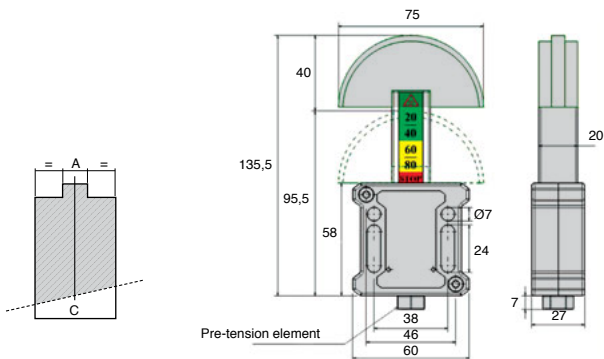
- Tensioner for single chain

- Materials:

Housing and column: polyamide reinforced with 30% glass fibre

Profile: Green HD1000 polyethylene

Screws and springs: stainless steel 304L



DISCOUNTS

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

Part number	Chain	A	C	Stroke	Tension (N)	Price each 1 to 9
TCSH-06B1	06B1	5	20	40	100 to 240	36,72 €
TCSH-08B1	08B1	7	20	40	100 to 240	36,72 €
TCSH-10B1	10B1	9	20	40	100 to 240	36,72 €
TCSH-12B1	12B1	11	20	40	100 to 240	36,72 €

Dimensions in mm

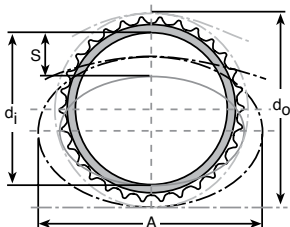
- **Easily installed**
- Uses the space between two drive sprockets
- Self positioning
- Dampens vibration
- Self lubricating
- Working temperature: -20°C to +70°C
(except RLR20-030: -4°C to +40°C)
- Normal resistance to UV radiation
- Material: polymer

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



**Very easy
to use**

DISCOUNTS

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

Part number	No. of teeth	Ref. ISO	Pitch (mm)	d _o	Internal diameter d _i	Max. diameter 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	-	105,32 €
RLR06-030	30	06B	9,52	91,1	73,0	25	122,0	15,2	5,2	✓	91,26 €
RLR06-036	36	06B	9,52	109,0	89,0	25	143,0	28,5	5,2	✓	103,31 €
RLR08-026	26	08B	12,70	105,5	87,5	27	135,8	13,4	7,5	✓	84,91 €
RLR08-030	30	08B	12,70	121,5	101,6	30	161,6	14,2	8,6	✓	98,03 €
RLR08-034	34	08B	12,70	137,5	115,4	30	165,0	22,0	8,8	✓	111,09 €
RLR10-026	26	10B	15,88	128,4	105,0	28	153,0	28,2	4,2	✓	103,54 €
RLR10-030	30	10B	15,88	148,0	124,6	33	177,0	23,0	8,8	-	119,11 €
RLR10-034	34	10B	15,88	170,0	141,0	38	217,0	45,1	8,8	-	135,22 €
RLR12-026	26	12B	19,05	155,0	127,6	35	209,5	39,2	5,4	✓	125,17 €
RLR12-030	30	12B	19,05	182,2	153,1	45	242,0	32,2	6,2	-	144,53 €

*Depending on availability - Dimensions in mm

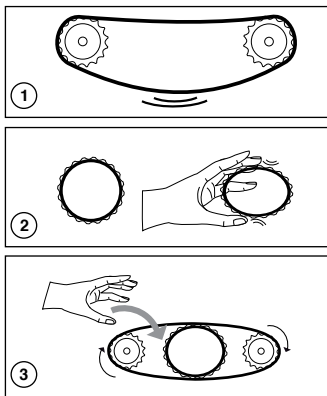
Installation

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.

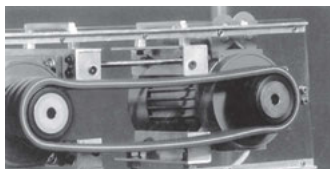
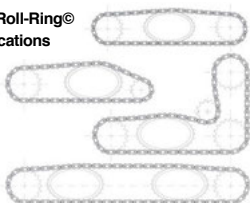
We recommend that you position the tensioner between two chain strands so that there is at least the equivalent of one chain pitch between the Roll-Ring® and the smallest sprocket. The Roll-Ring® can also be mounted in an alternative but efficient manner to that previously described, simply verify that 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.

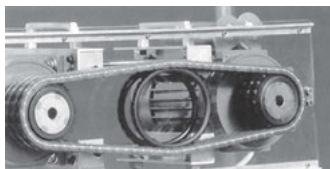


Advantages

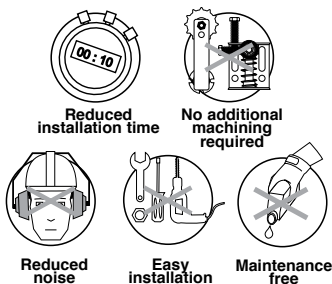
Typical Roll-Ring® applications



Vibrations on a non tensioned chain



The Roll-Ring® tensions and dampens the chain



Request a quote for

MADE TO MEASURE CHAIN SPROCKETS

- Steel, stainless steel or delrin
- Pitch from 4 to 19.05mm
- Alternative mountings
- Choice of bores



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Chain idler sprocket

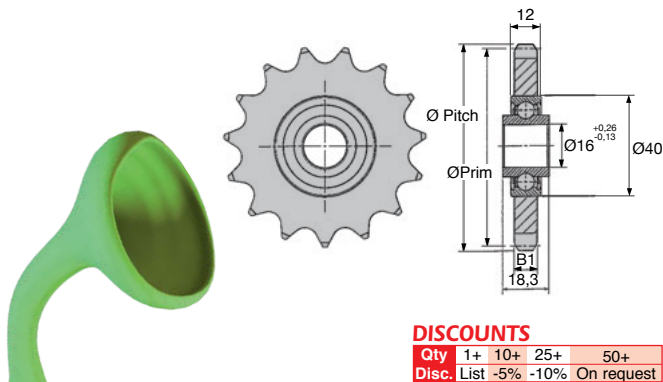
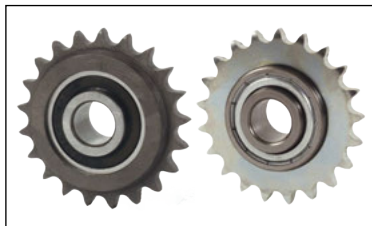
Steel or plastic

DTR

- **Disk shaped idler sprocket**
- Bearing incorporated
- 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

Info

- For use with **SBR** chains



DISCOUNTS

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

Part number	Pitch	Standard	N° of teeth	ØPitch	ØPrim	B1	Bearing	Unit price 1 to 9
Steel								
DTR-06B1-21	9,525	06B1	21	68,00	63,90	5,30	203KRR	11,65 €
DTR-08B1-16	12,7	08B1	16	69,50	65,10	7,20	203KRR	12,30 €
DTR-10B1-15	15,875	10B1	15	83,00	76,36	9,10	203KRR	14,61 €
DTR-12B1-13	19,05	12B1	13	87,50	79,59	11,10	203KRR	15,85 €
DTR-12B1-15	19,05	12B1	15	99,80	91,63	11,10	203KRR	17,21 €
Plastic								
DTR-06B1-21/Z	9,525	06B1	21	68,00	63,90	5,30	203KRR	17,80 €
DTR-08B1-16/Z	12,7	08B1	16	69,50	65,10	7,20	203KRR	18,51 €
DTR-10B1-15/Z	15,875	10B1	15	83,00	76,36	9,10	203KRR	19,47 €
DTR-12B1-13/Z	19,05	12B1	13	87,50	79,59	11,10	203KRR	21,21 €
DTR-12B1-15/Z	19,05	12B1	15	99,80	91,63	11,10	203KRR	22,88 €

Dimensions in mm

Idler chain sprocket



PTR

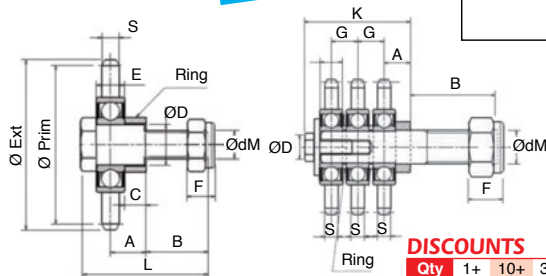
For normal applications

- 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

Good price
quality/ratio



DISCOUNTS

Qty	1+	10+	30+	100+
Disc.	List	-5%	-10%	On request

Part number	Pitch	No. of teeth Z	S	ØdM	ØD	A	B	C	E	F	L	Arm size	Price each 1 to 9
Single chain													
PTR-04B1	6,000	15	2,6	M6	6	7	15	4	6	6	28	BTE2	✓ 24,72 €
PTR-06B1	9,525	17	5,3	M10	12	12	22	7	10	10	44	BTE3	✓ 15,71 €
PTR-08B1	12,700	17	7,2	M12	17	15	26	9	12	12	53	BTE4/BTE5	✓ 17,35 €
PTR-10B1	15,800	16	9,1	M12	17	15	26	9	12	12	53	BTE4/BTE5	✓ 22,50 €
PTR-12B1	19,050	14	11,1	M12	17	15	26	9	12	12	53	BTE4/BTE5	✓ 25,86 €

Part number	Pitch	No. of teeth Z	ØdM	ØD	A	B	G	F	L	Arm size	Price each 1 to 9
Double chain											
PTR-06B2	9,525	17	M12	12	12	35	10,24	12	35	BTE4	- 38,19 €
PTR-08B2	12,700	17	M18	17	15	45	13,92	18,5	44	BTE5	- 44,92 €
PTR-10B2	15,800	16	M20	17	15	45	16,59	20	46	BTE6	- 65,15 €
PTR-12B2	19,050	14	M20	17	15	45	19,46	20	49	BTE6	- 74,14 €

Part number	Pitch	No. of teeth Z	ØdM	ØD	A	B	G	F	L	Arm size	Price each 1 to 9
Triple chain											
PTR-06B3	9,525	17	M12	12	12	35	10,24	12	45	BTE4	- 51,69 €
PTR-08B3	12,700	17	M18	17	15	45	13,92	18,5	58	BTE5	- 67,41 €
PTR-10B3	15,800	16	M20	17	15	45	16,59	20	64	BTE6	- 96,63 €

*Depending on availability - Dimensions in mm

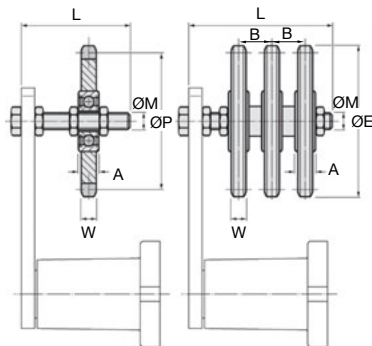
- Idler chain sprocket for use with BTE/SS universal tension arm

- Fitted with sealed stainless steel bearings
- Max speed : 70 rpm
- Material : Axle and gear :
Stainless steel 304L
- Nuts : Stainless steel A2

For hostile environments

Accessories

- BTE/SS tension arm



DISCOUNTS

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

Part number	Pitch	N° of teeth Z	W	ØM	A	B	L	ØP	ØE	Size of arm	Price each 1 to 9
Simple											
PTR-06B1/SS	9,525	15	5,3	M10	9	-	55	45,81	49,3	BTE3/BTE4	38,30 €
PTR-08B1/SS	12,700	15	7,2	M10	9	-	55	61,09	65,5	BTE4	47,15 €
PTR-10B1/SS	15,800	15	9,1	M12	12	-	80	76,36	83,0	BTE5	60,54 €
PTR-12B1/SS	19,050	15	11,1	M12	12	-	80	91,63	99,8	BTE5	90,02 €
Double											
PTR-06B2/SS	9,525	15	5,3	M10	9	10,24	55	45,81	49,3	BTE4	70,47 €
PTR-08B2/SS	12,700	15	7,2	M10	9	13,92	60	61,09	65,5	BTE4	88,14 €
PTR-10B2/SS	15,800	15	9,1	M12	12	16,59	80	76,36	83,0	BTE5	113,88 €
PTR-12B2/SS	19,050	15	11,1	M12	12	19,46	80	91,63	99,8	BTE5	173,37 €
Triple											
PTR-06B3/SS	9,525	15	5,3	M10	9	10,24	60	45,81	49,3	BTE4	85,59 €
PTR-08B3/SS	12,700	15	7,2	M12	9	13,92	80	61,09	65,5	BTE5	122,86 €
PTR-10B3/SS	15,800	15	9,1	M12	12	16,59	80	76,36	83,0	BTE5	155,95 €
PTR-12B3/SS	19,050	15	11,1	M20	15	19,46	120	91,63	99,8	BTE6	205,01 €

Dimensions in mm

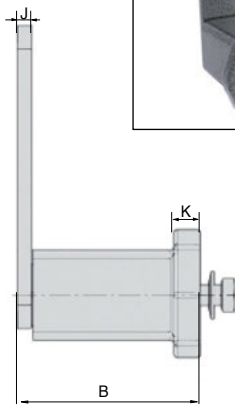
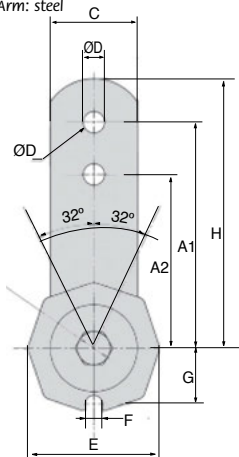
- Universal tension arm for use with PTR tension sprockets

- 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



DISCOUNTS

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

Part number	A1	A2	B	C	ØD	E	F	G	H	J	K	ØM (Nm)	Tightening torque	Force (N)		Weight (kg)	Price each
														A1	A2		
BTE2-M6	80	60	52	20	8,5	38	8	16	90,0	5	7	M6	10	0-90	0-110	0,200	✓ 25,66 €
BTE3-M8	100	80	63	25	10,5	48	8,5	21	122,5	5	10	M8	25	0-140	0-170	0,360	✓ 32,52 €
BTE4-M10	100	80	78	30	10,5	59	8,5	25	115,0	6	12	M10	49	0-320	0-430	0,590	✓ 39,34 €
BTE5-M12	130	100	108	50	12,5	76	10,5	32	155,0	8	15	M12	86	0-820	0-1050	1,640	✓ 71,86 €
BTE6-M16	175	140	140	60	20,5	92	12,5	41	205,0	10	17	M16	210	0-1500	0-1880	3,330	- 123,19 €
BTE7-M20	220	175	198	70	20,5	112	12,5	51	255,0	12	18	M20	410	0-2500	0-3200	6,220	- 174,50 €
BTE8-M24	250	200	212	80	20,5	130	17	52	290	20	20	M24	750	0-3900	0-4900	9,16	- 174,50 €

*Depending on availability - Dimensions in mm

- Universal tensioner arm for applications in hostile environments

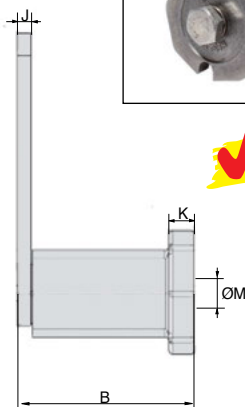
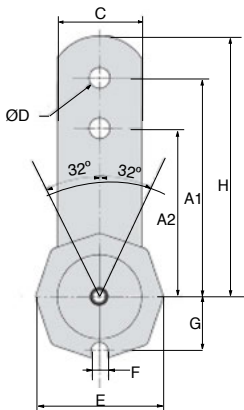
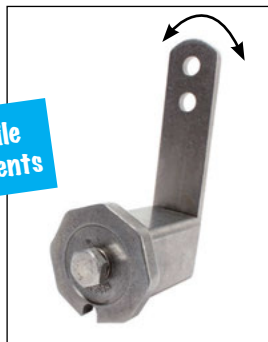
- Angle of rotation $\pm 32^\circ$
- Can be mounted in any position
- Used with PTR/SS chain tensioners
- Working temp range -42 to $+50^\circ\text{C}$
- Materials :

Body stainless steel XSC N18-10

Arm : stainless steel 304L

Screw : stainless steel A2

For hostile environments



✓ INCREASED STOCK

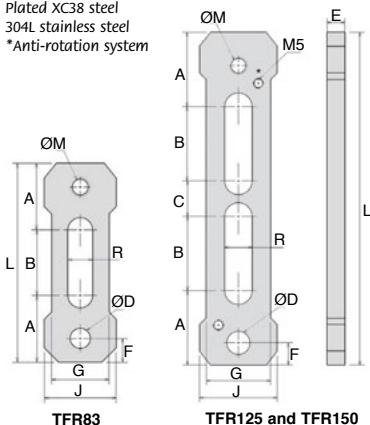
DISCOUNTS

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

Part number	A1	A2	B	C	ØD	E	F	G	H	J	K	ØM	Tightening Force (N)		Weight (kg)	Price each 1 to 9	
													force (Nm)	0-32°			
BTE2-M6/SS	80	60	52	20	8,5	38	8	16	90,0	5	7	M6	10	0-90	0-110	0,210	47,90 €
BTE3-M8/SS	100	80	63	25	10,5	48	8,5	21	112,5	5	10	M8	24	0-140	0-170	0,380	61,57 €
BTE4-M10/SS	100	80	78	30	10,5	59	8,5	25	115,0	6	12	M10	48	0-320	0-430	0,620	95,79 €
BTE5-M12/SS	130	100	108	50	12,5	76	10,5	34	155,0	8	15	M12	82	0-820	0-1050	1,700	171,09 €
BTE6-M16/SS	175	140	140	60	20,5	92	12,5	41	205,0	10	17	M16	199	0-1500	0-1880	3,420	256,64 €

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

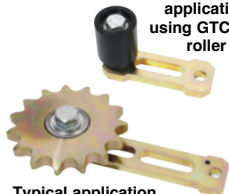


TFR83

TFR125 and TFR150



Typical application using GTC belt roller



Typical application using PTR sprocket

DISCOUNTS

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

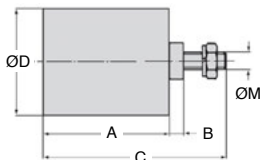
Part number	A	B	C	ØD	E	F	G	J	L	ØM	R	Stock*	Price each 1 to 9
Steel version													
TFR83-8	28	27,5	-	8,5	8	10	24	30	83,5	M8	10,5	✓	13,25 €
TFR83-10	28	27,5	-	8,5	8	10	24	30	83,5	M10	10,5	✓	13,65 €
TFR125-8	28	27,5	14	10,5	8	10	24	30	125	M8	10,5	✓	14,18 €
TFR125-10	28	27,5	14	10,5	8	10	24	30	125	M10	10,5	✓	14,73 €
TFR125-12	28	27,5	14	10,5	8	10	24	30	125	M12	10,5	✓	15,53 €
TFR150-10	33,5	33,5	16	12,5	8	15	29	35	150	M10	12,5	✓	22,22 €
TFR150-12	33,5	33,5	16	12,5	8	15	29	35	150	M12	12,5	✓	22,77 €
TFR150-16	33,5	33,5	16	12,5	8	15	29	35	150	M16	12,5	-	23,56 €
Stainless version													
TFR83-8/SS	28	27,5	-	8,5	8	10	24	30	83,5	M8	10,5	-	20,89 €
TFR83-10/SS	28	27,5	-	8,5	8	10	24	30	83,5	M10	10,5	-	21,69 €
TFR125-8/SS	28	27,5	14	10,5	8	10	24	30	125	M8	10,5	-	26,25 €
TFR125-10/SS	28	27,5	14	10,5	8	10	24	30	125	M10	10,5	-	27,05 €
TFR125-12/SS	28	27,5	14	10,5	8	10	24	30	125	M12	10,5	-	28,93 €
TFR150-10/SS	33,5	33,5	16	12,5	8	15	29	35	150	M10	12,5	-	40,45 €
TFR150-12/SS	33,5	33,5	16	12,5	8	15	29	35	150	M12	12,5	-	40,99 €
TFR150-16/SS	33,5	33,5	16	12,5	8	15	29	35	150	M16	12,5	-	42,33 €

*Depending on availability - Dimensions in mm

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



Good price
quality/ratio



Typical application : used
with BTE tender arm



Typical application : used
with TFR tensioner

DISCOUNTS

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

Part number	A	B	C	ØD	ØM	Max speed (rpm)	Weight (kg)	Arm ref	Stock*	Price each 1 to 9
GTC-2	35	3,0	51	30	M8	8000	0,08	BTE2	✓	24,81 €
GTC-3/4	45	6,0	67	40	M10	8000	0,17	BTE3-BTE4	✓	29,20 €
GTC-5	60	7,5	89	60	M12	6000	0,40	BTE5	✓	52,24 €
GTC-6	90	9,0	127	80	M20	5000	1,20	BTE6-BTE7	✓	88,82 €
GTC-7	135	7,0	169	90	M20	4500	1,70	BTE7	-	175,21 €

*Depending on availability - Dimensions in mm



Belt tensioner

Corrosion resistant

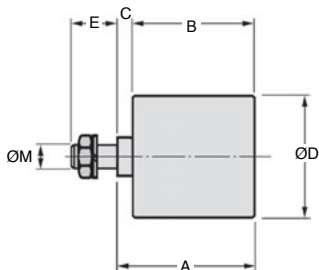
GTCss

- Belt tensioner

- Sealing caps not fitted
- Bearings incorporated
- Max working temp : 70°C
- Materials :
Nut, screw and spacer :
Galvanised steel
Roller : Polyamide



For hostile environments



DISCOUNTS

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

Part number	A	B	C	ØD	E	ØM	Arm ref	Max speed (rpm)	Stock*	Price each 1 to 9
GTC-2/SS	38	35	3	30	13	M8	BTE2	8000	✓	32,81 €
GTC-3/4/SS	51	45	6	40	16	M10	BTE3-BTE4	8000	✓	45,27 €
GTC-5/SS	67,5	60	7,5	60	21,5	M12	BTE5	6000	-	92,45 €

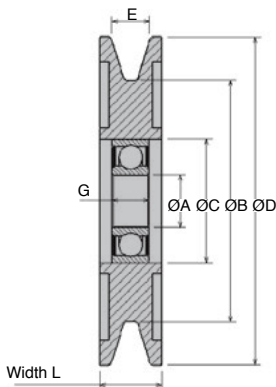
*Depending on availability - Dimensions in mm

- Idler pulley

- Material:

PA6 reinforced with 30% fibreglass
steel bearing

- Max speed 5,000 RPM



DISCOUNTS

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

Part number	For V belt	ØD	Width L	ØB	Bearing	C	ØA	E	G	For shaft	Stock*	Price each 1 to 9
PTGT49-13-17	A	76	18	49	6203 2RS	38	17	13,3	12	AXTR-M12	✓	15,24 €
PTGT75-13-17	SPA	102	18	75	6203 2RS	38	17	12,8	12	AXTR-M12	-	17,50 €
PTGT96-15-17	XPB	127	21	96	6203 2RS	38	17	15,8	12	AXTR-M12	-	25,12 €

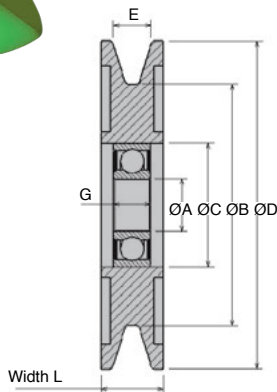
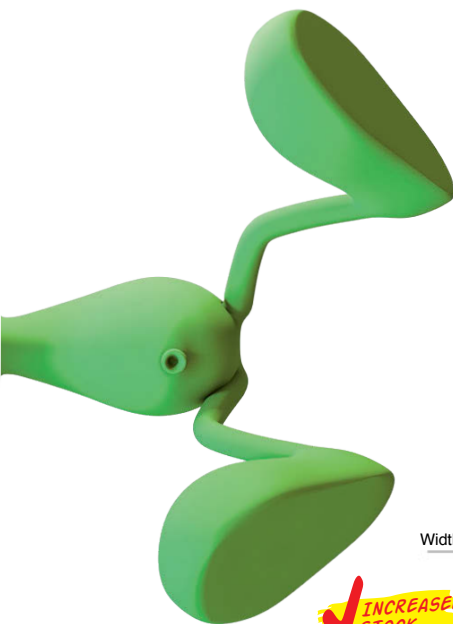
Dimensions en mm

- Idler pulley

- Material:

PA6 reinforced with 30% fibreglass
steel bearing

- Max speed 5,000 RPM



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	✓	17,50 €
PTGR89-14-17	Ø14	105	18	89	6203 2RS	38	17	14,3	12	AXTR-M12	✓	21,83 €
PTGR95-11-17	Ø11	114	20	95	6203 2RS	38	17	11,3	12	AXTR-M12	-	26,16 €

Dimensions en mm

- Idler pulley

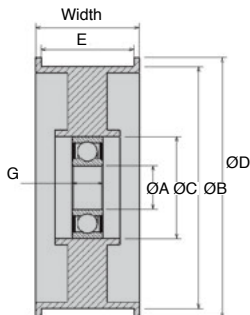
- Material:

PA6 reinforced with 30% fibreglass

Steel bearing

- Max speed 5,000 RPM

(Except for PTGP30 + PTGP32 = 9,000 RPM)



DISCOUNTS

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

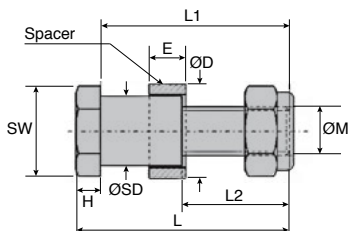
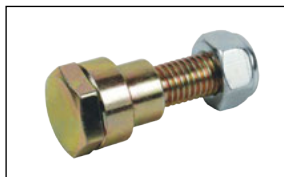
Part number	ØD	Width L	ØB	Bearing	ØC	ØA	E	G	For shaft	Stock*	Price each 1 to 9
PTGP30-9-8	40	13,2	30	608 2ZZ	20	8	9,2	7	AXTR-M8	✓	12,72 €
PTGP32-13-8	42	17,2	32	608 2ZZ	22	8	13,2	7	AXTR-M8	-	12,92 €
PTGP50-18-17	62	22,5	50	6203 2RS	38	17	18,3	12	AXTR-M12	✓	14,16 €
PTGP50-20-17	62	26	50	6203 2RS	38	17	20,3	12	AXTR-M12	✓	14,16 €
PTGP75-25-17	87	29,5	75	6203 2RS	38	17	25,3	12	AXTR-M12	✓	16,84 €
PTGP75-31-17	87	35,5	75	6203 2RS	38	17	31,3	12	AXTR-M12	-	19,77 €
PTGP75-31-17D	87	35,5	75	6203 2RS	38	17	31,3	24	AXTR-M12	-	25,57 €
PTGP90-18-17	102	22,5	90	6203 2RS	38	17	18,3	12	AXTR-M12	-	28,50 €
PTGP90-31-17	102	35,5	90	6203 2RS	38	17	31,3	12	AXTR-M12	-	28,75 €
PTGP90-31-17D	102	35,5	90	6203 2RS	38	17	31,3	24	AXTR-M12	-	29,25 €
PTGP90-36-17D	102	40,5	90	6203 2RS	38	17	36,3	24	AXTR-M12	-	29,52 €
PTGP115-36-17	127	30,5	115	6203 2RS	38	17	26,6	12	AXTR-M12	-	34,60 €

Dimensions in mm

- Axle for idler pulley
- Material:
Zinc plated C45 steel

Info.

- Compatible with PTGP, PTGT and PTGR tensioner pulleys



DISCOUNTS

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

Part number	ØM	ØSD	ØD	L	L1	L2	E	SW	H	Stock*	Price each 1 to 9
AXTR-M8	M8	8	12	30	25	14,5	4	13	5	✓	7,11 €
AXTR-M12	M12	17	23	53	47	26,5	9	22	6	✓	5,59 €

Dimensions in mm

ECONOMY RANGE STEEL BEVEL GEAR

Economy range

✓ INCREASED
STOCK



p.132

STEEL BEVEL GEAR



p.138

STAINLESS STEEL BEVEL GEAR

stainless
steel



p.144

PLASTIC BEVEL GEAR



p.146

BEVEL GEAR p.132 - 153

MACHINED PLASTIC BEVEL GEAR



p.149

SPIRAL BEVEL GEAR



p.152

Ratio 1:1

Steel C43

- Module 1.5 to 5
- Pressure angle: 20°
- Material:
steel C43
- A pair requires 2 gears

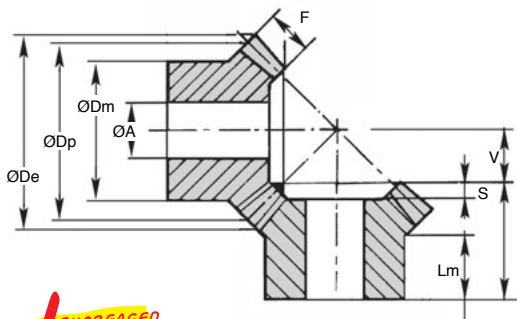


DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Teeth		Préalésage non garanti										Price each 1 to 5
	Z	mod	ØD _p	ØD _e	F	L	ØD _m	ØA**	V	S	L _m	Stock*	
B1-16/ECO	16	1	16	17,4	4,0	11,2	13,3	4	4,80	-	6,5	-	-
B1-19/ECO	19		19	20,4	4,0	11,8	15,3	4	6,20	-	6,5	-	-
B1-22/ECO	22		22	23,4	4,7	12,8	16,3	5	7,20	-	6,5	-	-
B1-26/ECO	26		26	27,4	5,5	13,3	20,3	5	8,70	-	7,0	-	-
B1-30/ECO	30		30	31,4	6,4	16,0	20,3	5	10,0	-	8,0	-	-
B1.5-16/ECO	16	1,5	24	26,12	6,0	18,9	20,3	8	7,10	-	12,0	✓	16,53 €
B1.5-20/ECO	20		30	32,12	10,0	20,0	22,0	10	7,40	2,0	8,5	✓	19,98 €
B1.5-25/ECO	25		37	39,62	10,0	23,0	28,0	10	11,09	2,0	12,0	✓	23,82 €
B1.5-30/ECO	30		45	47,12	12,0	25,0	30,0	12	13,35	2,5	12,0	✓	28,81 €
B2-16/ECO	16	2	32	34,83	8,0	23,5	25,3	8	9,50	-	14,0	✓	19,55 €
B2-20/ECO	20		40	42,83	12,0	25,0	32,0	10	10,78	3,0	12,0	✓	24,32 €
B2-25/ECO	25		50	52,82	14,0	28,0	40,0	12	14,28	3,0	12,3	✓	38,92 €
B2-30/ECO	30		60	62,83	16,0	30,0	50,0	12	17,78	3,0	12,8	✓	46,82 €
B2.5-16/ECO	16		40,0	43,53	10,0	28,1	30,3	12	11,90	-	15,0	✓	29,71 €
B2.5-20/ECO	20	2,5	50,0	53,53	12,0	30,5	40,0	12	15,43	3,5	16,0	-	38,92 €
B2.5-25/ECO	25		62,5	66,00	15,0	33,5	50,0	15	19,48	3,5	16,0	✓	47,42 €
B2.5-30/ECO	30		75,0	78,53	18,0	35,5	55,0	15	23,63	3,5	16,0	✓	55,96 €
B3-16/ECO	16		48,0	52,25	12,0	31,7	40,3	12	14,30	-	18,0	✓	34,78 €
B3-20/ECO	20		60,0	64,24	18,0	35,0	45,0	15	16,00	4,0	13,6	✓	43,23 €
B3-25/ECO	25	3	75,0	79,24	20,0	38,0	55,0	15	22,00	4,0	16,0	✓	52,18 €
B3-30/ECO	30		90,0	94,24	22,0	40,0	60,0	20	28,00	4,0	17,0	✓	63,06 €

*Depending of availability - Dimensions in mm



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

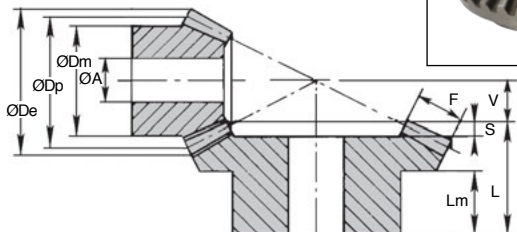
Teeth		Préalésage non garanti										Price each 1 to 5
Part number	Z mod	ØD _p	ØD _e	F	L	ØD _m	ØA**	V	S	Lm	Stock*	
B3.5-16/ECO	16	56,0	60,95	14,0	36,4	45,3	16	16,60	-	20,0	✓	38,87 €
B3.5-20/ECO	20	70,0	74,95	22,0	40,5	55,0	15	18,13	4,5	17,0	-	47,35 €
B3.5-25/ECO	25	87,5	92,45	26,0	43,5	65,0	20	23,97	4,5	18,0	-	66,45 €
B3.5-30/ECO	30	105,0	109,95	30,0	48,0	70,0	20	30,02	4,5	19,0	-	77,50 €
B4-16/ECO	16	64,0	69,65	15,0	44,3	50,3	16	19,70	-	25,0	✓	45,60 €
B4-20/ECO	20	80,0	85,65	25,0	43,0	60,0	18	20,74	5,0	18,0	✓	56,72 €
B4-25/ECO	25	100,0	105,65	28,0	45,0	70,0	20	28,50	5,0	18,0	✓	71,64 €
B4-30/ECO	30	120,0	125,65	32,0	48,0	80,0	20	35,67	5,0	16,0	✓	92,62 €
B4.5-16/ECO	16	72,0	78,38	17,5	46,3	55,3	20	21,70	-	25,0	-	50,43 €
B4.5-20/ECO	20	90,0	96,38	28,0	48,0	65,0	20	23,41	6,0	18,0	-	80,34 €
B4.5-25/ECO	25	112,5	118,80	32,0	50,0	75,0	20	31,76	6,0	18,0	-	97,65 €
B4.5-30/ECO	30	135,0	141,38	35,0	53,0	90,0	20	40,82	6,0	17,0	-	118,39 €
B5-16/ECO	16	80,0	87,07	18,0	48,9	60,3	20	25,10	-	25,0	✓	54,99 €
B5-20/ECO	20	100,0	107,07	30,0	50,5	70,0	20	26,86	6,5	18,5	✓	82,55 €
B5-25/ECO	25	125,0	132,07	34,0	53,5	90,0	20	36,36	6,5	18,0	✓	106,22 €
B5-30/ECO	30	150,0	157,07	38,0	56,5	110,0	20	45,97	6,17	18,0	✓	133,53 €

Dimensions in mm

Ratio 2:1

Steel C43

- Module 1.5 to 5
- Pressure angle: 20°
- Material:
steel C43
- A pair requires 2 gears



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

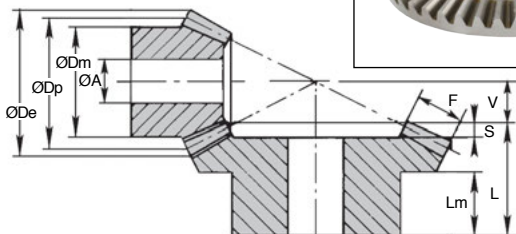
Part number	Teeth Z mod	ØD _p	ØD _e	F	L	ØD _m	Préalésage non garanti ØA**	V	S	Lm	Stock*	Price each 1 to 5
DB1-15/ECO	15 1	15	17,4	5	11,9	13,3	4	10,10	-	6,5	-	-
DB1-30/ECO	30 1	30	30,6	5	15,1	20,3	5	4,90	1,4	9,0	-	-
DB1.5-16/ECO	16 1,5	24	26,68	8	19,5	21	10	16,33	1,5	11,3	✓	17,18 €
DB1.5-32/ECO	32 1,5	48	49,34	8	20,0	32	12	7,45	3,0	10,0	✓	27,29 €
DB2-16/ECO	16 2	32	35,57	10	23,0	26	10	22,41	2,0	11,9	✓	21,78 €
DB2-32/ECO	32 2	64	65,78	10	25,0	40	12	10,21	4,0	10,0	✓	50,08 €
DB2.5-16/ECO	16 2,5	40	44,47	12	27,5	34	12	28,38	2,5	14,4	✓	30,64 €
DB2.5-32/ECO	32 2,5	80	82,23	12	25,0	50	15	12,97	5,0	10,0	✓	56,21 €
DB3-16/ECO	16 3	48	53,36	15	28,0	40	15	33,64	3,0	11,6	✓	37,59 €
DB3-32/ECO	32 3	96	98,68	15	30,0	60	15	15,31	6,0	10,0	✓	70,92 €
DB3.5-16/ECO	16 3,5	56	62,26	18	33,5	48	15	38,83	3,5	14,4	-	41,21 €
DB3.5-32/ECO	32 3,5	112	115,12	18	31,0	70	20	17,77	7,0	10,0	-	83,94 €
DB4-16/ECO	16 4	64	71,15	20	36,0	50	15	44,81	4,0	13,4	✓	51,41 €
DB4-32/ECO	32 4	128	131,57	20	32,0	80	20	20,42	8,0	10,0	✓	88,31 €
DB4.5-16/ECO	16 4,5	72	80,05	22	39,5	60	20	51,00	4,5	15,4	-	56,05 €
DB4.5-32/ECO	32 4,5	144	148,00	22	36,0	90	20	23,21	9,0	10,0	-	116,30 €
DB5-16/ECO	16 5	80	88,94	25	50,0	60	20	56,06	5,0	21,1	✓	61,18 €
DB5-32/ECO	32 5	160	164,46	25	38,0	100	20	25,52	10,0	10,0	✓	139,98 €

*Depending of availability - Dimensions in mm

Steel C43

Ratio 3:1

- Module 1.5 to 5
- Pressure angle: 20°
- Material: steel C43
- A pair requires 2 gears



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

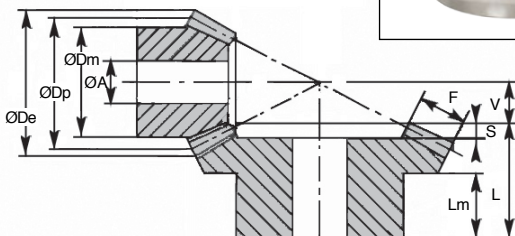
Part number	Teeth		ØD _p	ØD _e	F	L	ØD _m	Préalésage non garanti				Lm	Stock*	Price each 1 to 5
	Z	mod						ØA**	V	S				
TB1-15/ECO	15	1	15	17,7	7,1	16,6	13,3	4	15,4	-	9,2	-	-	-
TB1-45/ECO	45		45	45,3	7,1	17,1	25,3	8	4,9	1,9	10	-	-	-
TB1-16/ECO	16		24	26,82	12	24,0	20	10	24,42	1,0	11,7	✓	19,11	€
TB1-5-48/ECO	48	1,5	72	72,95	12	20,0	50	12	7,27	3,0	10,0	✓	58,90	€
TB2-16/ECO	16		32	35,80	15	28,5	26	12	33,26	1,5	12,4	✓	22,65	€
TB2-48/ECO	48		96	97,26	15	23,0	60	15	9,90	4,0	10,0	✓	73,88	€
TB2-5-16/ECO	16	2	40	44,74	18	32,0	32	12	42,41	1,5	13,0	✓	34,11	€
TB2-5-48/ECO	48		120	121,58	18	26,0	70	20	12,60	5,0	10,0	✓	86,16	€
TB3-16/ECO	16		48	53,69	18	32,0	40	15	54,25	2,0	12,1	✓	38,41	€
TB3-48/ECO	48	3	144	145,90	18	29,0	80	20	16,20	6,0	10,0	✓	104,10	€
TB3-5-16/ECO	16		56	62,64	22	38,0	48	15	62,29	2,5	15,0	-	48,83	€
TB3-5-48/ECO	48		168	170,21	22	31,0	90	20	18,48	7,0	10,0	-	137,84	€
TB4-16/ECO	16	4	64	71,59	25	41,5	55	20	71,23	3,0	15,2	✓	54,99	€
TB4-48/ECO	48		192	194,53	25	33,0	100	20	21,20	8,0	10,0	✓	229,75	€
TB4-5-16/ECO	16		72	80,53	28	53,0	60	20	80,27	3,0	23,4	-	63,02	€
TB4-5-48/ECO	48	4,5	216	218,84	28	49,0	100	20	23,93	9,0	18,0	-	416,44	€
TB5-16/ECO	16		80	89,48	35	60,0	60	20	85,61	3,0	22,5	-	69,02	€
TB5-48/ECO	48		240	243,16	35	50,0	150	20	25,45	10,0	20,0	-	495,40	€

Dimensions in mm

Ratio 4:1

Steel C43

- Module 1.5 to 5
- Pressure angle: 20°
- Material:
steel C43
- A pair requires 2 gears



DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Teeth		Z	mod	ØD _n	ØD _e	F	L	ØD _m	ØA**	Préalésage non garanti				Lm	Stock*	Price each 1 to 5
											V	S	Lm				
FB1-15/ECO	15	1	15	17,8	9,3	17,2	13,3	4	20,8	-	7,7	-	-	-	-	-	-
FB1-60/ECO	60	1	60	60,3	9,3	17,1	30,3	8	4,9	1,9	10	-	-	-	-	-	-
FB1.5-16/ECO	16	1,5	24	26,91	12	25,0	18	10	36,02	1,0	12,2	✓	18,74	€			
FB1.5-64/ECO	64	1,5	96	96,73	12	22,0	70	15	8,53	3,0	10,0	✓	82,55	€			
FB2-16/ECO	16	2	32	35,88	15	24,0	25	12	49,07	1,0	8,2	✓	23,13	€			
FB2-64/ECO	64	2	128	128,97	15	24,0	80	20	11,79	4,0	10,0	✓	111,93	€			
FB2.5-16/ECO	16	2,5	40	44,85	18	30,5	30	12	61,99	1,5	11,7	-	35,31	€			
FB2.5-64/ECO	64	2,5	160	161,21	18	29,0	90	20	13,77	5,0	10,0	-	133,53	€			
FB3-16/ECO	16	3	48	53,82	22	34,0	40	15	74,05	2,0	11,0	✓	43,11	€			
FB3-64/ECO	64	3	192	193,45	22	30,0	100	20	16,41	6,0	10,0	✓	258,49	€			
FB3.5-16/ECO	16	3,5	56	62,80	25	45,0	48	15	87,13	2,0	19,1	-	50,20	€			
FB3.5-64/ECO	64	3,5	224	225,70	25	50,0	100	20	19,32	7,0	22,0	-	396,33	€			
FB4-16/ECO	16	4	64	71,76	30	50,0	50	20	98,21	2,0	18,5	-	58,90	€			
FB4-64/ECO	64	4	256	257,94	30	50,0	120	20	21,72	8,0	20,0	-	482,48	€			
FB4.5-16/ECO	16	4,5	72	80,73	32	53,0	55	20	112,08	2,5	19,0	-	65,06	€			
FB4.5-64/ECO	64	4,5	288	290,18	32	53,0	130	20	24,83	9,0	23,0	-	751,05	€			
FB5-16/ECO	16	5	80	89,70	35	58,0	60	20	125,06	2,5	20,6	-	73,88	€			
FB5-64/ECO	64	5	320	322,42	35	58,0	150	20	27,65	10,0	25,0	-	930,56	€			

Dimensions in mm

Request a quote for **MADE TO MEASURE GEARS**

- Gears modified to order
or manufactured
to your drawings



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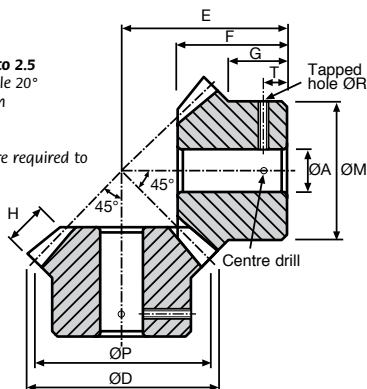


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Ratio 1:1

Steel 60C40

- Module 0.8 to 2.5
- Pressure angle 20°
- Teeth Gleason
- Material:
Steel 60C40
- Two gears are required to make a pair



N.B. Torque ratings can be doubled by heat treatment

TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm					
	2.5 MOD	2.0 MOD	1.5 MOD	1.25 MOD	1.0 MOD	0.8 MOD
Torque (Nm)	4.30	2.20	0.94	0.71	0.57	0.14
Power (kW)	0.455	0.231	0.097	0.08	0.03	0.015

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-5%	-10%	On request

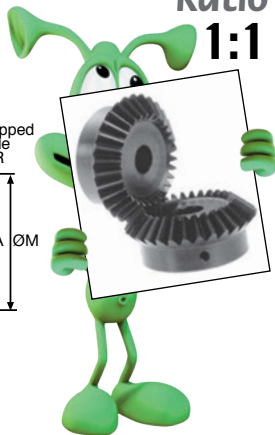
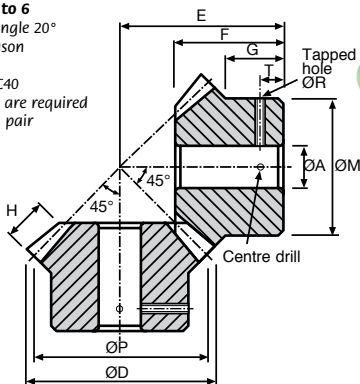
Part number	Teeth Z	MOD	ØP	E	ØD	ØA	ØM	F	G	H	Screw R	T	Stock*	Price each 1 to 5
B0.8-16	16	0.8	12,80	20	13,93	6	10	16,00	12,2	3,00	M3	7	✓	26,90 €
B0.8-20	20		16,00	20	17,13	6	13	14,76	10,5	3,40	M3	6	✓	28,13 €
B0.8-25	25		20,00	20	21,13	6	16	13,35	8,0	4,24	M3	5	-	29,19 €
B0.8-30	30		24,00	20	25,13	6	20	11,96	6,0	5,09	M3	4	-	31,55 €
B1-20	20	1.0	20,00	25	21,41	8	18	18,45	14,0	4,24	M4	8	✓	32,13 €
B1-25	25		25,00	25	26,41	8	22	16,68	10,8	5,28	M4	6	✓	34,28 €
B1-30	30		30,00	25	31,41	8	26	14,95	8,0	6,35	M4	5	✓	36,57 €
B1.25-20	20		25,00	23	26,70	8	22	15,27	9,0	6,00	M4	3	✓	33,74 €
B1.25-25	25	1.25	31,25	28	33,00	8	25	17,87	9,2	7,00	M4	3	✓	37,97 €
B1.25-30	30		37,50	36	39,30	10	30	23,47	13,5	8,00	M4	5	-	38,27 €
B1.5-20	20		30,00	35	32,12	10	26	25,17	18,0	6,35	M4	10	✓	34,82 €
B1.5-25	25		37,50	35	39,62	10	32	22,57	13,5	8,00	M4	7	-	40,43 €
B1.5-30	30	2.0	45,00	35	47,12	10	38	19,92	9,0	9,50	M4	5	✓	42,87 €
B2-20	20		40,00	42	43,00	12	34	29,00	19,0	8,50	M5	10	✓	40,77 €
B2-25	25		50,00	42	52,83	12	40	25,52	12,0	10,60	M5	7	✓	45,50 €
B2-30	30		60,00	42	63,00	12	50	21,87	7,0	12,70	M5	4	✓	51,06 €
B2.5-16	16	2.5	40,00	50	43,50	15	35	36,80	27,5	8,00	M5	15	✓	41,68 €
B2.5-20	20		50,00	50	54,00	15	40	33,50	20,0	10,60	M5	12	✓	51,96 €
B2.5-25	25		62,50	50	66,00	15	55	30,50	15,0	15,00	M5	8	✓	59,05 €

*Depending on availability - Dimensions in mm

Steel 60C40

Ratio 1:1

- Module 3 to 6
- Pressure angle 20°
- Teeth Gleason
- Material:
Steel 60C40
- Two gears are required to make a pair



N.B. Torque ratings can be doubled by heat treatment

TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm			
	3.0 MOD	4.0 MOD	5.0 MOD	6.0 MOD
Torque (Nm)	6.00	8.83	16	25
Power (kW)	0.63	0.93	1.7	2.6

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-5%	-10%	On request

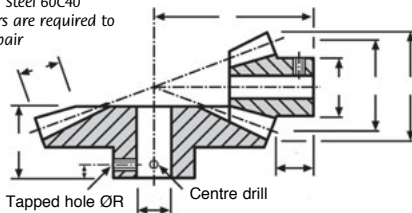
Teeth												Screw			Price each
Part number	Z	MOD	ØP	E	ØD	ØA	ØM	F	G	H	R	T	1 to 5		
B3-16	16	3	48	44,0	52,24	15	40,0	29,08	16,00	11	M5	8	70,05 €		
B3-19	19		57	49,0	61,24	16	50,0	31,01	17,02	13	M5	9	88,85 €		
B3-26	26		78	65,0	82,24	18	64,0	40,03	19,03	18	M6	10	119,17 €		
B3-30	30	4	90	68,5	94,24	20	76,0	39,65	16,51	21	M6	8	128,87 €		
B4-16	16		64	55,5	69,66	15	50,0	35,81	16,49	15	M5	8	100,21 €		
B4-19	19		76	65,0	81,66	18	62,5	41,43	20,24	18	M6	10	124,96 €		
B4-26	26	5	104	82,0	109,66	22	85,0	48,69	20,50	24	M6	10	141,42 €		
B4-30	30		120	90,0	125,66	25	102,0	51,51	21,00	28	M8	11	150,18 €		
B5-16	16		80	70,0	87,10	18	60,0	46,13	20,00	20	M8	11	162,39 €		
B5-20	20	6	100	80,0	107,10	20	80,0	49,04	21,50	24	M8	12	172,61 €		
B5-25	25		125	100,0	132,10	25	80,0	59,47	24,00	28	M10	14	182,73 €		
B5-30	30		150	114,0	157,10	30	100,0	65,87	26,00	35	M10	15	192,12 €		
B6-16	16	6	96	80,0	104,52	25	75,0	50,10	22,00	22	M10	12	199,47 €		
B6-20	20		120	90,0	128,52	30	96,0	52,32	18,50	28	M10	12	208,61 €		
B6-25	25		150	115,0	158,52	35	100,0	67,29	24,00	35	M10	14	217,90 €		
B6-30	30		180	130,0	188,52	35	120,0	72,24	28,00	42	M10	16	231,51 €		

Dimensions in mm

Ratio 2:1

Steel 60C40

- Module 0.8 to 6
- Pressure angle 20°
- Teeth Gleason
- Material: Steel 60C40
- Two gears are required to make a pair



N.B. Torque ratings can be doubled by heat treatment

TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm									
	6 MOD	5 MOD	4 MOD	3 MOD	2.5 MOD	2 MOD	1.5 MOD	1.25 MOD	1 MOD	0.8 MOD
Torque (Nm)	51.00	32.00	16.40	7.70	4.30	2.20	0.94	0.71	0.57	0.14
Power (kW)	5.35	3.35	1.72	0.81	0.455	0.231	0.097	0.08	0.03	0.015

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-5%	-10%	On request

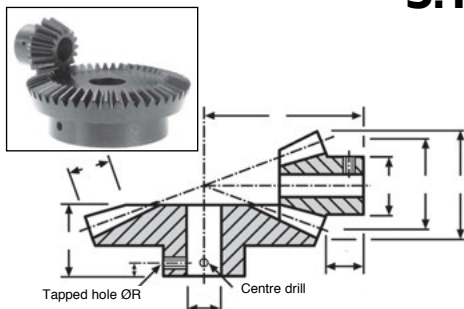
Part number	Teeth Z	Mod	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	Stock*	Price each 1 to 5
DB0.8-15	15	0,8	12,00	20,0	13,93	6	10	11,90	7,50	4,02	M3	3,5	✓	28,27 €
DB0.8-30	30		24,00	14,0	24,64	8	20	10,08	5,50	4,02	M3	3,5	✓	33,34 €
DB1-15	15	1,0	15,00	24,0	17,42	8	14	13,87	8,76	5,03	M4	4,0	✓	32,04 €
DB1-30	30		30,00	18,0	30,58	10	25	13,11	7,00	5,03	M4	4,0	✓	39,38 €
DB1.5-15	15	1,5	22,50	35,0	26,12	10	21	19,84	12,13	7,55	M4	5,0	✓	34,92 €
DB1.5-30	30		45,00	27,0	45,87	10	30	19,66	11,00	7,55	M4	5,0	✓	44,73 €
DB2-15	15	2,0	30,00	45,0	34,83	12	28	24,76	14,86	10,06	M5	7,5	✓	38,65 €
DB2-30	30		60,00	35,0	61,16	12	40	25,21	14,00	10,06	M5	8,0	✓	53,61 €
DB2.5-15	15	2,5	37,50	54,0	43,54	15	32	29,51	16,51	13,53	M5	8,0	✓	52,87 €
DB2.5-30	30		75,00	41,5	76,45	15	50	29,31	13,31	13,53	M5	7,0	✓	66,79 €
DB3-15	15	3,0	45,00	65,0	52,25	18	36	36,26	18,00	17,00	M6	12,0	-	71,30 €
DB3-30	30		90,00	50,0	91,74	20	55	36,08	18,00	17,00	M6	12,0	-	131,42 €
DB4-15	15	4,0	60,00	85,0	69,67	20	48	46,11	22,01	22,00	M6	15,0	-	101,80 €
DB4-30	30		120,00	67,0	122,32	25	70	48,16	25,00	22,00	M8	15,0	-	154,29 €
DB5-15	15	5,0	75,00	100,0	87,09	20	60	51,81	21,00	28,00	M8	15,0	-	148,57 €
DB5-30	30		150,00	75,0	152,90	30	100	51,66	22,00	28,00	M10	15,0	-	214,97 €
DB6-15	15	6,0	90,00	115,0	104,51	25	75	57,52	21,00	34,00	M10	15,0	-	205,25 €
DB6-30	30		180,00	86,0	183,48	35	120	58,15	24,00	34,00	M10	15,0	-	249,06 €

*Depending on availability - Dimensions in mm

Steel 60C40

Ratio 3:1

- **Module 0.8 to 6**
- Pressure angle 20°
- Teeth Gleason
- Material:
Steel 60C40
- Two gears are required to make a pair



N.B. Torque ratings can be doubled by heat treatment

TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm									
	6 MOD	5 MOD	4 MOD	3 MOD	2.5 MOD	2 MOD	1.5 MOD	1.25 MOD	1 MOD	0.8 MOD
Torque (Nm)	51.00	32.00	16.40	7.70	4.30	2.20	0.94	0.71	0.57	0.14
Power (kW)	5.35	3.35	1.72	0.81	0.455	0.231	0.097	0.08	0.03	0.015

DISCOUNTS

Qty	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

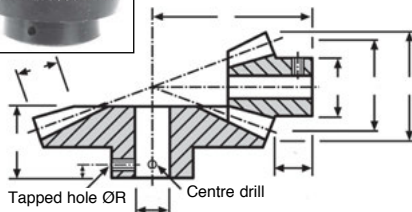
Teeth												Price each	
Part number	Z	Mod	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	1 to 5
TB0.8-15	15	0,8	12,0	28	14,14	6	10	15,63	9,67	5,69	M3	5,0	25,02 €
TB0.8-45	45		36,0	20	36,30	8	28	16,07	8,00	5,69	M3	4,0	37,68 €
TB1-15	15	1,0	15,0	32	17,67	8	13	16,54	9,18	7,12	M4	4,5	27,20 €
TB1-45	45		45,0	24	45,37	10	40	19,09	10,00	7,12	M4	5,0	40,33 €
TB1.5-15	15	1,5	22,5	45	26,51	10	18	21,80	10,51	10,67	M4	5,0	27,89 €
TB1.5-45	45		67,5	32	68,06	15	50	24,63	12,00	10,67	M4	6,0	45,77 €
TB2-15	15	2,0	30,0	62	35,37	12	24	31,77	16,00	15,00	M5	10,0	On request
TB2-45	45		90,0	42	90,74	18	48	32,39	18,00	15,00	M5	10,0	
TB2.5-15	15	2,5	37,5	75	44,21	18	30	36,52	18,00	18,00	M6	12,0	
TB2.5-45	45		112,5	50	113,43	20	55	37,77	22,00	18,00	M6	12,0	
TB3-15	15	3,0	45,0	88	53,05	18	36	42,20	19,00	22,00	M6	12,0	
TB3-45	45		135,0	58	136,11	23	65	43,45	24,00	22,00	M6	12,0	
TB4-15	15	4,0	60,0	115	70,74	20	48	54,55	23,00	30,00	M8	15,0	
TB4-45	45		180,0	75	181,48	30	85	55,77	30,00	30,00	M8	15,0	
TB5-15	15	5,0	75,0	138	88,42	20	60	64,75	23,00	40,00	M8	15,0	
TB5-45	45		225,0	86	226,85	35	120	62,68	28,00	40,00	M10	15,0	
TB6-15	15	6,0	90,0	160	106,11	25	72	69,31	22,00	45,00	M10	15,0	
TB6-45	45		270,0	95	272,22	40	140	66,17	28,00	45,00	M10	15,0	

Dimensions in mm

Ratio 4:1

Steel 60C40

- Module 0.8 to 6
- Pressure angle 20°
- Teeth Gleason
- Material:
Steel 60C40
- Two gears are required to make a pair



N.B. Torque ratings can be doubled by heat treatment

TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm									
	6 MOD	5 MOD	4 MOD	3 MOD	2.5 MOD	2 MOD	1.5 MOD	1.25 MOD	1 MOD	0.8 MOD
Torque (Nm)	51.00	32.00	16.40	7.70	4.30	2.20	0.94	0.71	0.57	0.14
Power (kW)	5.35	3.35	1.72	0.81	0.455	0.231	0.097	0.08	0.03	0.015

DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-5%	-10%	On request

Teeth		Mod	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	Price each 1 to 5
Part number	Z												
FB0.8-15	15	0,8	12,0	35,0	14,23	6	10	18,07	10,58	7,10	M3	5	26,70 €
FB0.8-60	60		48,0	20,0	48,22	8	30	15,98	8,00	7,10	M3	4	40,58 €
FB1-15	15	1,0	15,0	45,0	17,79	8	13	24,22	14,73	9,28	M4	7	29,87 €
FB1-60	60		60,0	30,0	60,27	10	40	25,08	12,00	9,28	M4	6	43,34 €
FB1.5-15	15	1,5	22,5	60,0	26,69	10	18	28,82	12,08	13,91	M4	6	31,22 €
FB1.5-60	60		90,0	35,0	90,41	15	50	27,61	12,00	13,91	M4	6	48,32 €
FB2-15	15	2,0	30,0	76,1	35,57	12	24	33,05	15,36	17,00	M5	10	On request
FB2-60	60		120,0	45,0	120,55	18	60	34,81	19,00	17,00	M5	10	
FB2.5-15	15	2,5	37,5	94,0	44,46	15	30	39,95	17,00	21,00	M6	12	
FB2.5-60	60		150,0	55,0	150,69	20	75	42,20	23,00	21,00	M6	12	
FB3-15	15	3,0	45,0	112,0	53,55	18	36	47,90	21,00	26,00	M6	12	
FB3-60	60		180,0	65,0	180,82	25	90	49,83	27,00	26,00	M6	12	
FB4-15	15	4,0	60,0	146,0	71,14	20	48	59,90	25,00	34,00	M8	15	
FB4-60	60		240,0	82,0	241,10	30	120	61,61	35,00	34,00	M8	15	
FB5-15	15	5,0	75,0	175,0	88,92	20	60	64,98	23,00	40,00	M8	15	
FB5-60	60		300,0	90,0	301,37	35	160	64,00	28,00	40,00	M10	15	
FB6-15	15	6,0	90,0	205,0	106,70	25	75	70,12	23,00	45,00	M10	15	
FB6-60	60		360,0	96,0	361,64	40	180	64,16	28,00	45,00	M10	15	

Dimensions in mm

Principle

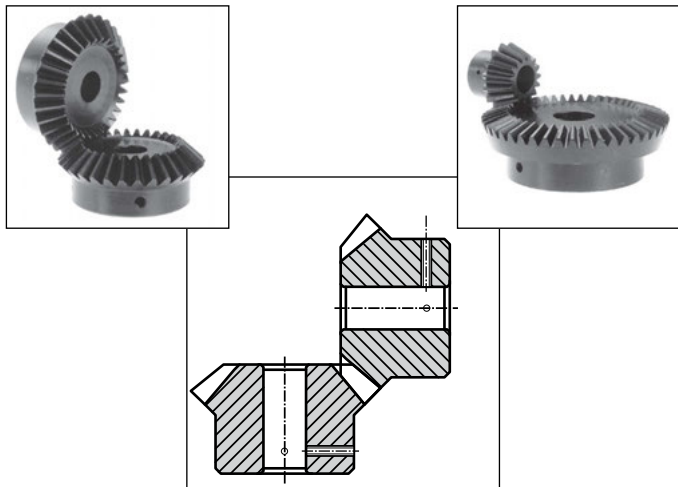
- Bevel gears are used to change the direction of transfer in a power transfer system. Unlike straight spur gears, bevel gears with the same module are not interchangeable, a pinion can only be used with the wheel for which it was designed and manufactured

Assembly

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

Uses

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

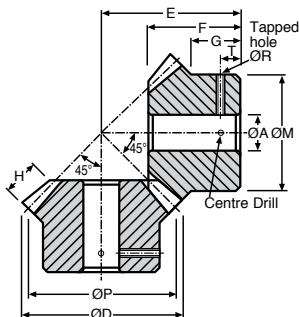


Ratio

Stainless steel 304L

1:1

- Module 0.8 to 2.5
- Pressure angle 20°
- Teeth Gleason
- Material:
stainless steel 304L
- Two gears must be ordered
to make a pair



TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm					
	2.5 MOD	2.0 MOD	1.5 MOD	1.25 MOD	1.0 MOD	0.8 MOD
Torque (Nm)	4.30	2.20	0.94	0.71	0.57	0.14
Power (kW)	0.455	0.231	0.097	0.08	0.03	0.015

DISCOUNTS

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

Teeth		Module	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	Price each 1 to 5
Part number	Z												
SSB0.8-16	16	0.8	12.80	20	13.93	6	10	16.00	12.21	3.00	M3	7.00	44,47 €
SSB0.8-25	25		20.00	20	21.13	6	16	13.35	8.00	4.24	M3	5.00	48,27 €
SSB0.8-30	30		24.00	20	25.13	6	20	11.96	6.00	5.09	M3	4.00	52,17 €
SSB1-20	20	1	20.00	25	21.41	8	18	18.45	14.00	4.24	M4	8.00	53,13 €
SSB1-30	30		30.00	25	31.41	8	26	14.95	8.00	6.35	M4	5.00	60,39 €
SSB1.25-20	20		25.00	23	26.70	8	22	15.27	9.00	6.00	M4	3.50	55,81 €
SSB1.25-30	30	1.25	37.50	36	39.30	10	30	23.47	13.50	8.00	M4	5.00	63,23 €
SSB1.5-20	20		30.00	35	32.12	10	26	25.17	18.00	6.35	M4	10.00	57,62 €
SSB1.5-30	30		45.00	35	47.12	10	38	19.92	9.00	9.50	M4	5.00	70,91 €
SSB2-20	20	2	40.00	42	43.00	12	34	29.00	19.00	8.50	M5	10.00	67,40 €
SSB2-30	30		60.00	42	63.00	12	50	21.87	7.00	12.70	M5	4.00	84,44 €
SSB2.5-16	16		40.00	50	43.50	15	35	36.80	27.50	8.00	M5	15.00	68,91 €
SSB2.5-25	25	2.5	62.50	50	66.00	15	55	30.50	15.00	15.00	M5	8.00	97,78 €

Dimensions in mm

Stainless steel 304L

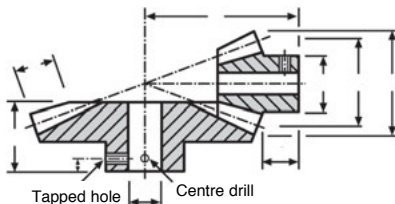
Ratio

2:1

3:1

4:1

- Module 0.8 to 2.5
- Teeth Gleason
- Material:
stainless steel 304L
- Pressure angle 20°



stainless steel

TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm					
	2.5 MOD	2.0 MOD	1.5 MOD	1.25 MOD	1.0 MOD	0.8 MOD
Torque (Nm)	4.30	2.20	0.94	0.71	0.57	0.14
Power (kW)	0.455	0.231	0.097	0.08	0.03	0.015

DISCOUNTS

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

Part number	Teeth		Z	Module	OP	E	OD	OA	OM	F	G	H	Screw		Price each 1 to 5
													R	T	
SSDB0.8-15	15	0,8	15	1	12,00	20,00	13,93	6	10	11,90	7,50	4,02	M3	3,50	46,73 €
SSDB0.8-30	30		30		24,00	14,00	24,64	8	20	10,08	5,50	4,02	M3	3,50	55,09 €
SSDB1-15	15	2:1	15	1	15,00	24,00	17,42	8	14	13,87	8,76	5,03	M4	4,00	52,99 €
SSDB1-30	30		30		30,00	18,00	30,58	10	25	13,11	7,00	5,03	M4	4,00	65,15 €
SSDB1.5-15	15	1,5	15	1,5	22,50	35,00	26,12	10	21	19,84	12,13	7,55	M4	5,00	57,68 €
SSDB1.5-30	30		30		45,00	27,00	45,87	10	30	19,66	11,00	7,55	M4	5,00	74,05 €
SSDB2-15	15	2	15	2	30,00	45,00	34,83	12	28	24,76	14,86	10,06	M5	7,50	63,95 €
SSDB2-30	30		30		60,00	35,00	61,16	12	40	25,21	14,00	10,06	M5	8,00	88,65 €
SSDB2.5-15	15	2,5	15	2,5	37,50	54,00	43,54	15	32	29,51	16,51	13,53	M5	8,00	87,37 €
SSDB2.5-30	30		30		75,00	41,50	76,45	15	30	29,31	13,31	13,53	M5	7,00	121,37 €
SSTB0.8-15	15	0,8	15	0,8	12,00	28,00	14,14	6	10	15,63	9,67	5,69	M3	5,00	On request
SSTB0.8-45	45		45		36,00	20,00	36,30	8	28	16,07	8,00	5,69	M3	4,00	
SSTB1-15	15	3:1	15	1	15,00	32,00	17,67	8	13	16,54	9,18	7,12	M4	4,50	
SSTB1-45	45		45		45,00	24,00	45,37	10	40	19,09	10,00	7,12	M4	5,00	
SSTB1.5-15	15	1,5	15	1,5	22,50	45,00	26,51	10	18	21,80	10,51	10,67	M4	5,00	
SSTB1.5-45	45		45		67,50	32,00	68,06	15	50	24,63	12,00	10,67	M4	6,00	
SSFB0.8-15	15	0,8	15	0,8	12,00	35,00	14,23	6	10	18,07	10,58	7,10	M3	5,00	
SSFB0.8-60	60		60		48,00	20,00	48,22	8	30	15,98	8,00	7,10	M3	4,00	
SSFB1-15	15	4:1	15	1	15,00	45,00	17,79	8	13	24,22	14,73	9,28	M4	7,00	
SSFB1-60	60		60		60,00	30,00	60,27	10	40	25,08	12,00	9,28	M4	6,00	
SSFB1.5-15	15	1,5	15	1,5	22,50	60,00	26,69	10	18	28,82	12,08	13,91	M4	6,00	
SSFB1.5-60	60		60		60,00	35,00	90,41	15	50	27,61	12,00	13,91	M4	6,00	

Dimensions in mm

Ratio 1:1

Nylon PA6 moulded

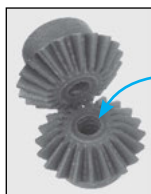
- **Module 1 to 3.5**
- Moulded parts
- Material: Nylon 6 reinforced with 30% glass fibre

Options

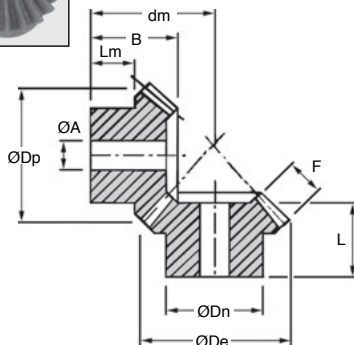
- **HPC are unable to modify these parts**
Please refer to the **ZDB..** or **ZTB..** ranges for parts that can be modified

Info.

- Two identical gears must be ordered to make a pair



ØA: Pre-bored hole must be finished



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	ØA	dm	L	Lm	Price each 1 to 9
MEB1-16	16	1,0	17,8	16,0	14,0	4	13	5	18,59	14,0	9,0	4,72 €
MEB1.5-16	16	1,5	25,0	24,0	18,0	6	20	8	25,10	17,0	8,9	5,71 €
MEB1.5-20	20	1,5	32,1	30,0	20,0	8	22	6	28,70	18,0	9,0	6,72 €
MEB1.5-30	30	1,5	47,1	45,0	25,0	10	35	12	39,70	22,5	12,0	9,91 €
MEB2-16	16	2,0	34,8	32,0	20,0	9	25	10	28,80	17,0	9,3	8,11 €
MEB2-20	20	2,0	42,8	40,0	27,0	12	32	8	35,70	22,0	12,0	11,50 €
MEB2-30	30	2,0	62,8	60,0	30,0	16	50	12	47,80	27,0	12,8	13,12 €
MEB2.5-16	16	2,5	43,5	40,0	27,0	10	30	12	37,30	22,0	13,3	10,31 €
MEB2.5-20	20	2,5	53,5	50,0	30,0	12	38	12	45,90	27,0	16,0	12,29 €
MEB2.5-30	30	2,5	78,5	75,0	35,0	18	50	14	59,10	32,0	16,0	17,31 €
MEB3-16	16	3,0	52,2	48,0	30,0	12	38	11	44,20	26,0	16,2	15,10 €
MEB3-20	20	3,0	64,2	60,0	35,0	18	44	14	51,10	31,0	13,6	16,30 €
MEB3-30	30	3,0	94,2	90,0	40,0	22	60	20	68,10	36,0	19,0	21,30 €
MEB3.5-20	20	3,5	74,9	70,0	40,5	22	56	14	58,60	36,0	19,0	18,91 €

Dimensions in mm

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

Options

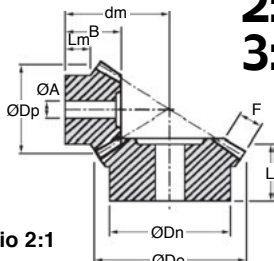
- **HPC are unable to modify these parts**
- Please refer to the **ZDB..** or **ZTB..** ranges for parts that can be modified

Info.

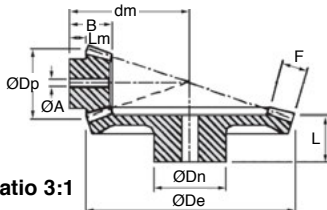
- Two identical gears must be ordered to make a pair



ØA: Pre-bored hole must be finished



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										Price each	
	Z	Module	ØDe	ØDp	B	F	ØDn	ØA	dm	L	Lm	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	7,07 €
MDB1.5-32	32	1,5	49,3	48	20,0	8	32	12	27,5	17,5	10,0	13,12 €
MDB2-16	16	2,0	35,6	32	23,0	10	24	10	45,4	21,0	12,2	8,72 €
MDB2-32	32	2,0	65,8	64	25,0	10	40	12	35,2	22,0	10,0	19,46 €
MDB2.5-16	16	2,5	44,4	40	27,5	12	30	12	56,0	25,0	14,4	10,91 €
MDB2.5-32	32	2,5	82,2	80	30,0	12	50	15	43,5	26,5	10,0	24,91 €
MDB3-16	16	3,0	53,4	48	28,0	15	40	14	61,6	25,0	11,6	19,74 €
MDB3-32	32	3,0	98,7	96	33,0	15	60	15	50,4	30,5	15,0	41,30 €
Ratio 3:1												
MTB1.5-16	16	1,5	26,9	24	22,0	12	20	8	46,3	21,0	9,7	8,72 €
MTB1.5-48	48	1,5	72,9	72	21,0	12	42	15	29,2	19,0	12,0	18,70 €
MTB2-16	16	2,5	44,7	40	28,0	18	34	14	70,4	26,0	9,2	14,31 €
MTB2-48	48	2,5	121,6	120	32,0	18	60	20	44,6	27,0	16,0	28,13 €
MTB3-16	16	3,0	53,7	48	30,0	18	35	10	84,2	28,0	11,2	22,29 €
MTB3-48	48	3,0	145,9	144	38,0	18	50	20	54,1	32,0	19,0	41,30 €

Dimensions in mm

Plastic bevel gear



Nyl



Eco

Ratio 1.5:1 4:1

Nylon 6 **moulded**

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

Options

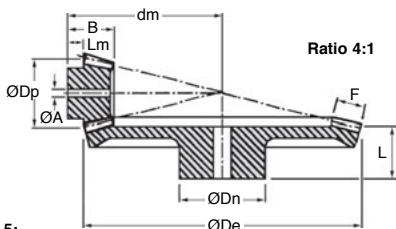
- **HPC are unable to modify these parts**
- Please refer to the **ZDB..** or **ZTB..** ranges for parts that can be modified

Info.

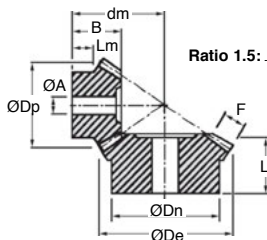
- Two identical gears must be ordered to make a pair



ØA: Pre-bored hole must be finished



Ratio 4:1



Ratio 1.5:1

Economy range

DISCOUNTS

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

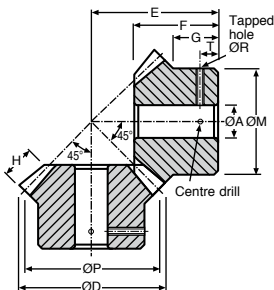
Part number	Teeth												Price each 1 to 9
	Z	Module	ØDe	ØDp	B	F	ØDn	ØA	dm	L	Lm		
Ratio 4:1													
MFB2.5-16	16	2,5	44,9	40	30,5	18	32	15	92,6	29,0	11,7	13,34	€
MFB2.5-64	64	2,5	161,2	160	35,0	18	80	20	48,8	30,0	16,0	59,47	€
MFB3-16	16	3,0	53,8	48	32,0	20	35	10	108,0	30,0	11,1	24,91	€
MFB3-64	64	3,0	193,5	192	42,0	20	60	19	58,8	36,0	22,0	66,09	€
Ratio 1.5:1													
MHB2-20	20	2,0	43,3	40	23,0	10	30	8	43,3	23,0	10,2	13,49	€
MHB2-30	30	2,0	62,2	60	27,0	10	50	11	40,6	27,5	15,2	19,74	€

Dimensions in mm

Delrin

Ratio
1:1

- **Module 0.8 to 2.5**
- Machined parts
- Pressure angle 20°
- Teeth Gleason
- Material:
Delrin plastic
- Working temp -50° to +80°C
- Two identical gears must be ordered to make a pair



TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm					
	2.5 MOD	2.0 MOD	1.5 MOD	1.25 MOD	1.0 MOD	0.8 MOD
Torque (Nm)	0.91	0.46	0.20	0.15	0.12	0.03
Power (kW)	0.09	0.05	0.02	0.016	0.013	0.003

DISCOUNTS

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

Teeth		Module	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	Price each
Part number	Z												1 to 5
ZB0.8-16	16	0,8	12,80	20	13,93	6	10	16,00	12,21	3,00	M3	3,00	9,82 €
ZB0.8-20	20		16,00	20	17,13	6	13	14,76	10,51	3,40	M3	3,40	12,79 €
ZB0.8-25	25		20,00	20	21,13	6	16	13,36	8,00	4,24	M3	4,24	17,76 €
ZB0.8-30	30		24,00	20	25,13	6	20	11,96	6,00	5,09	M3	5,09	19,19 €
ZB1-20	20	1,0	20,00	25	21,41	8	18	18,45	14,00	4,24	M4	4,24	19,60 €
ZB1-25	25		25,00	25	26,41	8	22	16,68	10,80	5,28	M4	5,28	20,90 €
ZB1-30	30		30,00	25	31,41	8	26	14,95	8,00	6,35	M4	6,35	22,27 €
ZB1.25-20	20		25,00	23	26,70	8	22	15,27	9,00	6,00	M4	6,00	19,91 €
ZB1.25-25	25	1,25	31,25	28	33,00	8	25	17,87	9,20	7,00	M4	7,00	On request
ZB1.25-30	30		37,50	36	39,30	10	30	23,47	13,50	8,00	M4	8,00	25,49 €
ZB1.5-20	20		30,00	35	32,12	10	26	25,17	18,00	6,35	M4	6,35	21,19 €
ZB1.5-25	25		37,50	35	39,62	10	32	22,57	13,50	8,00	M4	8,00	24,65 €
ZB1.5-30	30	1,5	45,00	35	47,12	10	38	19,92	9,00	9,50	M4	9,50	26,08 €
ZB2-20	20		40,00	42	43,00	12	34	29,00	19,00	8,50	M5	8,50	24,83 €
ZB2-25	25		50,00	42	52,83	12	40	25,52	12,00	10,60	M5	10,60	27,68 €
ZB2-30	30		60,00	42	63,00	12	50	21,87	7,00	12,70	M5	12,70	31,11 €
ZB2.5-16	16	2,5	40,00	50	43,50	15	35	36,80	27,50	8,00	M5	8,00	25,39 €
ZB2.5-20	20		50,00	50	54,00	15	40	33,50	20,00	10,60	M5	10,60	31,66 €
ZB2.5-25	25		62,50	50	66,00	15	55	30,50	15,00	15,00	M5	15,00	36,03 €

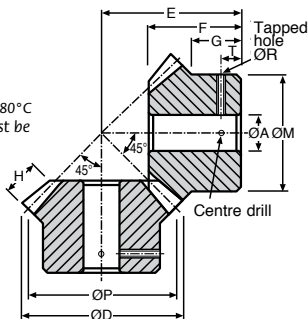
Dimensions in mm

Ratio

Delrin

1:1

- **Module 3 to 6**
- Machined parts
- Pressure angle 20°
- Teeth Gleason
- Material:
Delrin plastic
- Working temp -50° to +80°C
- Two identical gears must be ordered to make a pair



TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm			
	3.0 MOD	4.0 MOD	5.0 MOD	6.0 MOD
Torque (Nm)	1.93	2.84	5	8
Power (kW)	0.20	0.83	0.54	0.85

DISCOUNTS

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

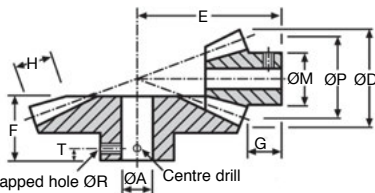
Teeth													Price each
Part number	Z	Module	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	1 to 5
ZB3-16	16	3	48	44,0	52,24	15	40,0	29,08	16,00	11	M5	8	On request
ZB3-19	19		57	49,0	61,24	16	50,0	31,01	17,02	13	M5	9	
ZB3-26	26		78	65,0	82,24	18	64,0	40,03	19,03	18	M6	10	
ZB3-30	30		90	68,5	94,24	20	76,0	39,65	16,51	21	M6	8	
ZB4-16	16	4	64	55,5	69,66	15	50,0	35,81	16,49	15	M5	8	
ZB4-19	19		76	65,0	81,66	18	62,5	41,43	20,24	18	M6	10	
ZB4-26	26		104	82,0	109,66	22	85,0	48,69	20,50	24	M6	10	
ZB4-30	30		120	90,0	125,66	25	102,0	51,51	21,00	28	M8	11	
ZB5-16	16	5	80	70,0	87,10	18	60,0	46,13	20,00	20	M8	11	
ZB5-20	20		100	80,0	107,10	20	80,0	49,04	21,50	24	M8	12	
ZB5-25	25		125	100,0	132,10	25	80,0	59,47	24,00	28	M10	14	
ZB5-30	30		150	114,0	157,10	30	100,0	65,87	26,00	35	M10	15	
ZB6-16	16	6	96	80,0	104,52	25	75,0	50,10	22,00	22	M10	12	
ZB6-20	20		120	90,0	128,52	30	96,0	52,32	18,50	28	M10	12	
ZB6-25	25		150	115,0	158,52	35	100,0	67,29	24,00	35	M10	14	
ZB6-30	30		180	130,0	188,52	35	120,0	72,24	28,00	42	M10	16	

Dimensions in mm

Delrin

Ratio
2:1
3:1
4:1

- **Module 0.8 to 2.5**
- Machined parts
- Pressure angle 20°
- Teeth Gleason
- Material:
Delrin plastic
- Working temp. -50° Tapped hole ØR
to +80°C



TORQUE AND POWER INDICATION	For 20 teeth at 1000 rpm					
	2.5 MOD	2.0 MOD	1.5 MOD	1.25 MOD	1.0 MOD	0.8 MOD
Torque (Nm)	0.91	0.46	0.20	0.15	0.12	0.03
Power (kW)	0.09	0.05	0.02	0.016	0.013	0.003

DISCOUNTS

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

Teeth													Price each
Part number	Z	Module	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	1 to 5
ZDB0.8-15	15	0,8	12,00	20,00	13,93	6	10	11,90	7,50	4,02	M3	3,50	16,99 €
ZDB0.8-30	30		24,00	14,00	24,64	8	20	10,08	5,50	4,02	M3	3,50	20,09 €
ZDB1-15	15	1	15,00	24,00	17,42	8	14	13,87	8,76	5,03	M4	4,00	19,28 €
ZDB1-30	30		30,00	18,00	30,58	10	25	13,11	7,00	5,03	M4	4,00	23,70 €
ZDB1.5-15	15	1,5	22,50	35,00	26,12	10	21	19,84	12,13	7,55	M4	5,00	26,74 €
ZDB1.5-30	30		45,00	27,00	45,87	10	30	19,66	11,00	7,55	M4	5,00	26,90 €
ZDB2-15	15	2	30,00	45,00	34,83	12	28	24,76	14,86	10,06	M5	7,50	23,24 €
ZDB2-30	30		60,00	35,00	61,16	12	40	25,21	14,00	10,06	M5	8,00	32,33 €
ZDB2.5-15	15	2,5	37,50	54,00	43,54	15	32	29,51	16,51	13,53	M5	8,00	31,81 €
ZDB2.5-30	30		75,00	41,50	76,45	15	50	29,31	13,31	13,53	M5	7,00	40,22 €
ZTB0.8-15	15	0,8	12,00	28,00	14,14	6	10	15,63	9,67	5,69	M3	5,00	On request
ZTB0.8-45	45		36,00	20,00	36,30	8	28	16,07	8,00	5,69	M3	4,00	
ZTB1-15	15	1	15,00	32,00	17,67	8	13	16,54	9,18	7,12	M4	4,50	
ZTB1-45	45		45,00	24,00	45,37	10	40	19,09	10,00	7,12	M4	5,00	
ZTB1.5-15	15	1,5	22,50	45,00	26,51	10	18	21,80	10,51	10,67	M4	5,00	
ZTB1.5-45	45		67,50	32,00	68,06	15	50	24,63	12,00	10,67	M4	6,00	
ZFB0.8-15	15	0,8	12,00	35,00	14,23	6	10	18,07	10,58	7,10	M3	5,00	
ZFB0.8-60	60		48,00	20,00	48,22	8	30	15,98	8,00	7,10	M3	4,00	
ZFB1-15	15	1	15,00	45,00	17,79	8	13	24,22	14,73	9,28	M4	7,00	
ZFB1-60	60		60,00	30,00	60,27	10	40	25,08	12,00	9,28	M4	6,00	
ZFB1.5-15	15	1,5	22,50	60,00	26,69	10	18	28,82	12,08	13,91	M4	6,00	
ZFB1.5-60	60		60,00	35,00	90,41	15	50	27,61	12,00	13,91	M4	6,00	

Dimensions in mm

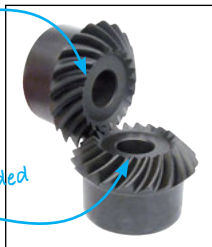
Ratio 1:1

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

L = left-handed
inclination

R = right-handed
inclination



Option

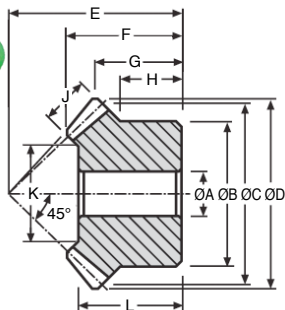
- HPC are unable to modify these parts

DISCOUNTS

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

Part number	Module	Teeth Z	ØA	ØB	ØC	ØD	E	F	G	H	J	K	L	Weight (kg)	Price each 1 to 5
SMS1-20R															47,57 €
SMS1-20L	1	20	6	16	20,0	21,30	20	13,84	10,65	8	5	9,86	12	0,02	47,57 €
SMS1-25R															53,56 €
SMS1-25L	1	25	6	20	25,0	26,22	23	15,08	11,11	8	6	15,03	14	0,05	53,56 €
SMS1-30R															63,54 €
SMS1-30L	1	30	8	24	30,0	31,26	28	17,61	13,63	10	6	19,03	16	0,05	63,54 €
SMS1,5-20R															54,22 €
SMS1,5-20L	1,5	20	8	26	30,0	31,74	30	21,18	15,87	13	8	15,37	19	0,07	54,22 €
SMS1,5-25R															66,89 €
SMS1,5-25L	1,5	25	10	30	37,5	39,30	34	22,14	16,15	11,5	9	19,54	19	0,12	66,89 €
SMS1,5-30R															79,91 €
SMS1,5-30L	1,5	30	10	36	45,0	46,84	43	28,11	21,42	16	10	25,72	25	0,20	79,91 €

Dimensions in mm



DISCOUNTS

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

Part number	Teeth														Weight (kg)	Price each 1 to 5
	Module	Z	ØA	ØB	ØC	ØD	E	F	G	H	J	K	L			
SMS2-20R	2	20	12	34	40,0	42,4	37	24,75	18,2	14	10	21,72	22	0,15	67,89 €	
SMS2-20L															67,89 €	
SMS2-25R	2	25	12	40	50,0	52,38	40	24,20	16,19	10	12	26,06	20	0,20	79,91 €	
SMS2-25L															79,91 €	
SMS2-30R	2	30	12	45	60,0	62,42	50	29,27	21,21	12,5	12	36,06	25	0,37	129,87 €	
SMS12-30L															129,87 €	
SMS2,5-20R	2,5	20	14	42	50,0	52,94	48	32,42	24,47	19	12	28,06	29	0,30	113,84 €	
SMS2,5-20L															113,84 €	
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	142,55 €	
SMS2,5-25L															142,55 €	
SMS2,5-30R	2,5	30	16	60	75,0	78,04	62	36,08	26,02	17	15	47,57	32	0,77	174,87 €	
SMS2,5-30L															174,87 €	
SMS3-20R	3	20	16	50	60,0	63,72	58	39,60	29,86	23	15	31,57	35	0,50	139,53 €	
SMS3-20L															139,53 €	
SMS3-25R	3	25	20	60	75,0	78,77	60	37,57	24,39	15	20	37,43	32	0,70	179,18 €	
SMS3-25L															179,18 €	
SMS3-30R	3	30	20	70	90,0	93,61	75	45,25	31,80	20	20	53,43	40	1,30	233,16 €	
SMS3-30L															233,16 €	

Dimensions in mm

**WORM AND
WHEEL SET**



p.156

WORM AND WHEEL SET



p.157

WORMS AND WHEELS p.156 - 177

ANTI-BACKLASH WORMWHEEL



p.176

Worm and wheel set



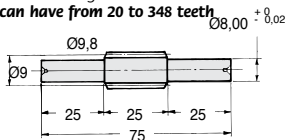
Module 0.4 Worm in steel or machined plastic

- 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

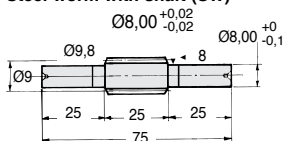


Options

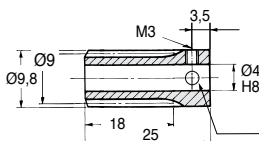
- Left handed lead angle
- **Wheel can have from 20 to 348 teeth**



Steel worm with shaft (SW)



Plastic worm with shaft (ZSW)



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

DISCOUNTS

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

DISCOUNTS

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

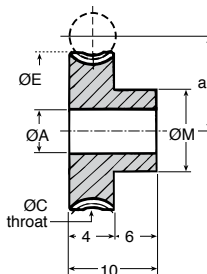
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W0.4-1	SW0.4-1	1	2°32'	25,20 €	46,10 €
W0.4-2	SW0.4-2	2	5°04'	25,56 €	49,35 €
W0.4-3	SW0.4-3	3	7°35'	26,86 €	52,14 €
W0.4-4	SW0.4-4	4	10°40'	28,92 €	53,75 €
Unhardened steel					
WH0.4-1	SWH0.4-1	1	2°32'	35,03 €	65,56 €
WH0.4-2	SWH0.4-2	2	5°04'	36,34 €	70,14 €
WH0.4-3	SWH0.4-3	3	7°35'	37,57 €	74,05 €
WH0.4-4	SWH0.4-4	4	10°40'	41,06 €	76,41 €
Plastic					
ZW0.4-1	ZSW0.4-1	1	2°32'	17,33 €	32,58 €
ZW0.4-2	ZSW0.4-2	2	5°04'	18,07 €	34,82 €
ZW0.4-3	ZSW0.4-3	3	7°35'	18,89 €	36,80 €
ZW0.4-4	ZSW0.4-4	4	10°40'	20,34 €	37,97 €

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 delrin worm with a steel wheel is preferred.



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

WHEEL 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)

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z							Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØM	ØA	Bronze	Plastic
M0.4-20/1	ZM0.4-20/1	20	8,00	8,50	8,80	9,20	8,80	3	20,70 €	10,39 €
M0.4-24/1	ZM0.4-24/1	24	9,60	9,30	10,40	10,80	10,40	3	21,23 €	10,65 €
M0.4-28/1	ZM0.4-28/1	28	11,20	10,10	12,00	12,40	10,40	3	22,68 €	11,36 €
M0.4-30/1	ZM0.4-30/1	30	12,00	10,50	12,80	13,20	8,00	3	23,16 €	11,60 €
M0.4-34/1	ZM0.4-34/1	34	13,60	11,30	14,40	14,80	8,00	3	23,65 €	11,89 €
M0.4-36/1	ZM0.4-36/1	36	14,40	11,70	15,20	15,60	8,00	3	24,65 €	12,29 €
M0.4-40/1	ZM0.4-40/1	40	16,00	12,50	16,80	17,20	12,00	4	25,50 €	12,79 €
M0.4-45/1	ZM0.4-45/1	45	18,00	13,50	18,80	19,20	12,00	4	25,83 €	12,99 €
M0.4-48/1	ZM0.4-48/1	48	19,20	14,10	20,00	20,40	12,00	4	25,83 €	13,07 €
M0.4-50/1	ZM0.4-50/1	50	20,00	14,50	20,80	21,20	12,00	4	25,83 €	13,20 €
M0.4-62/1	ZM0.4-62/1	62	24,80	16,90	25,60	26,00	12,00	4	26,00 €	13,70 €
M0.4-72/1	ZM0.4-72/1	72	28,80	18,90	29,60	30,00	12,00	5	28,00 €	14,02 €
M0.4-75/1	ZM0.4-75/1	75	30,00	19,50	30,80	31,20	12,00	5	28,13 €	15,55 €
M0.4-84/1	ZM0.4-84/1	84	33,60	21,30	34,40	34,80	12,00	5	29,60 €	16,44 €
M0.4-100/1	ZM0.4-100/1	100	40,00	24,50	40,80	41,20	12,00	5	36,42 €	19,49 €
M0.4-120/1	ZM0.4-120/1	120	48,00	28,50	48,80	49,20	12,00	5	41,07 €	22,57 €
M0.4-130/1	ZM0.4-130/1	130	52,00	30,50	52,80	53,20	12,00	5	47,15 €	24,62 €
M0.4-140/1	ZM0.4-140/1	140	56,00	32,50	56,80	57,20	12,00	5	53,75 €	27,08 €
M0.4-200/1	ZM0.4-200/1	200	80,00	44,50	80,80	81,20	20,00	6	101,65 €	51,15 €
M0.4-300/1	ZM0.4-300/1	300	120,00	64,50	120,80	121,20	20,00	6	236,86 €	86,30 €
↓ ↓		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



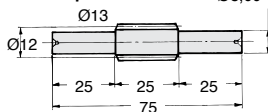
Module 0.5 Worm in steel or machined plastic

- 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

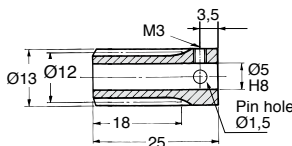


Options

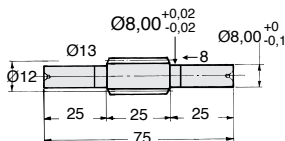
- Left handed lead angle
- Wheel can have from 12 to 278 teeth $\varnothing 8,00^{+0,02}_{-0,02}$



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

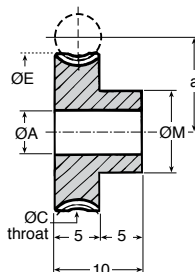
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W0.5-1	SW0.5-1	1	2°23'	24,65 €	48,53 €
W0.5-2	SW0.5-2	2	4°45'	25,56 €	50,69 €
W0.5-3	SW0.5-3	3	7°07'	26,86 €	53,48 €
W0.5-4	SW0.5-4	4	9°27'	28,92 €	55,93 €
Hardened steel					
WH0.5-1	SWH0.5-1	1	2°23'	35,03 €	68,98 €
WH0.5-2	SWH0.5-2	2	4°45'	36,34 €	71,98 €
WH0.5-3	SWH0.5-3	3	7°07'	38,19 €	75,99 €
WH0.5-4	SWH0.5-4	4	9°27'	41,06 €	79,58 €
Plastic					
ZW0.5-1	ZSW0.5-1	1	2°23'	17,33 €	34,27 €
ZW0.5-2	ZSW0.5-2	2	4°45'	18,07 €	35,74 €
ZW0.5-3	ZSW0.5-3	3	7°07'	18,89 €	37,68 €
ZW0.5-4	ZSW0.5-4	4	9°27'	20,34 €	39,55 €

Dimensions in mm

Wheel in bronze or machined plastic Module 0.5

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 (input)

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

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z							Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØM	ØA	Bronze	Plastic
M0.5-12	ZM0.5-12	12	6,00	9,00	7,00	7,50	5,00	3	19,15 €	9,59 €
M0.5-15	ZM0.5-15	15	7,50	9,75	8,50	9,00	6,50	4	20,23 €	10,15 €
M0.5-20	ZM0.5-20	20	10,00	11,00	11,00	11,50	8,50	4	22,39 €	11,24 €
M0.5-25	ZM0.5-25	25	12,50	12,25	13,50	14,00	10,00	4	23,91 €	12,02 €
M0.5-28	ZM0.5-28	28	14,00	13,00	15,00	15,50	10,00	4	24,32 €	12,19 €
M0.5-30	ZM0.5-30	30	15,00	13,50	16,00	16,50	13,00	6	24,41 €	12,22 €
M0.5-32	ZM0.5-32	32	16,00	14,00	17,00	17,50	13,00	6	25,47 €	12,79 €
M0.5-40	ZM0.5-40	40	20,00	16,00	21,00	21,50	13,00	6	29,71 €	14,95 €
M0.5-42	ZM0.5-42	42	21,00	16,50	22,00	22,50	13,00	6	30,17 €	15,12 €
M0.5-48	ZM0.5-48	48	24,00	18,00	25,00	25,50	13,00	6	31,68 €	15,89 €
M0.5-50	ZM0.5-50	50	25,00	18,50	26,00	26,50	13,00	6	32,13 €	16,14 €
M0.5-60	ZM0.5-60	60	30,00	21,00	31,00	31,50	13,00	6	37,87 €	20,98 €
M0.5-78	ZM0.5-78	78	39,00	25,50	40,00	40,50	13,00	6	48,10 €	26,64 €
M0.5-80	ZM0.5-80	80	40,00	26,00	41,00	41,50	13,00	6	49,64 €	31,26 €
M0.5-90	ZM0.5-90	90	45,00	28,50	46,00	46,50	13,00	6	66,61 €	41,92 €
M0.5-100	ZM0.5-100	100	50,00	31,00	51,00	51,50	13,00	6	79,16 €	49,90 €
M0.5-110	ZM0.5-110	110	55,00	33,50	56,00	56,50	13,00	6	82,42 €	51,92 €
M0.5-150	ZM0.5-150	150	75,00	43,50	76,00	76,50	13,00	6	88,83 €	55,85 €
M0.5-160	ZM0.5-160	160	80,00	46,00	81,00	81,50	13,00	6	101,34 €	63,87 €
M0.5-200	ZM0.5-200	200	100,00	56,00	101,00	101,50	13,00	6	192,30 €	70,09 €

Wheels available up to this size			
M0.5-278	ZM0.5-278	278	On request
Dimensions : contact us		On request	
Dimensions in mm			

Worm and wheel set



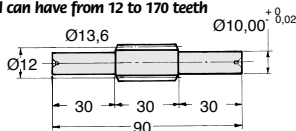
Module 0.8 Worm in steel or machined plastic

- 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

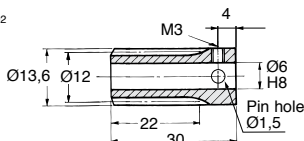


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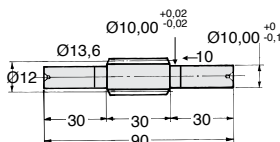
- Left handed lead angle
- Wheel can have from 12 to 170 teeth



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

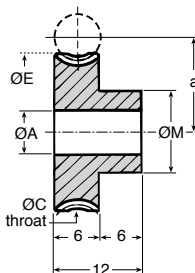
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W0.8-1	SW0.8-1	1	3°48'	28,18 €	48,53 €
W0.8-2	SW0.8-2	2	7°35'	29,43 €	51,05 €
W0.8-3	SW0.8-3	3	11°18'	31,89 €	53,48 €
W0.8-4	SW0.8-4	4	14°55'	34,57 €	55,93 €
Hardened steel					
WH0.8-1	SWH0.8-1	1	3°48'	40,09 €	68,98 €
WH0.8-2	SWH0.8-2	2	7°35'	41,82 €	72,52 €
WH0.8-3	SWH0.8-3	3	11°18'	45,45 €	75,99 €
WH0.8-4	SWH0.8-4	4	14°55'	43,17 €	79,58 €
Plastic					
ZW0.8-1	ZSW0.8-1	1	3°48'	19,86 €	34,19 €
ZW0.8-2	ZSW0.8-2	2	7°35'	20,70 €	35,88 €
ZW0.8-3	ZSW0.8-3	3	11°18'	22,44 €	37,57 €
ZW0.8-4	ZSW0.8-4	4	14°55'	24,32 €	39,36 €

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z							Price each 1 to 5	
Bronze	Plastic	Teeth	OP	Centres	OC	OE	OM	OA	Bronze	Plastic
M0.8-12	ZM0.8-12	12	9,60	10,80	11,20	12,00	8	5	20,70 €	10,39 €
M0.8-15	ZM0.8-15	15	12,00	12,00	13,60	14,40	10	5	22,55 €	11,30 €
M0.8-18	ZM0.8-18	18	14,40	13,20	16,00	16,80	10	5	25,20 €	12,66 €
M0.8-20	ZM0.8-20	20	16,00	14,00	17,60	18,40	12	5	25,66 €	12,85 €
M0.8-24	ZM0.8-24	24	19,20	15,60	20,80	21,60	12	5	27,80 €	13,91 €
M0.8-25	ZM0.8-25	25	20,00	16,00	21,60	22,40	16	8	29,26 €	14,70 €
M0.8-28	ZM0.8-28	28	22,40	17,20	24,00	24,80	16	8	30,34 €	15,22 €
M0.8-30	ZM0.8-30	30	24,00	18,00	25,60	26,40	16	8	31,55 €	15,87 €
M0.8-32	ZM0.8-32	32	25,60	18,80	27,20	28,00	16	8	32,66 €	16,44 €
M0.8-40	ZM0.8-40	40	32,00	22,00	33,60	34,40	20	8	39,01 €	21,56 €
M0.8-42	ZM0.8-42	42	33,60	22,80	35,20	36,00	20	8	41,80 €	23,13 €
M0.8-48	ZM0.8-48	48	38,40	25,20	40,00	40,80	20	8	48,72 €	26,90 €
M0.8-50	ZM0.8-50	50	40,00	26,00	41,60	42,40	20	8	52,54 €	33,07 €
M0.8-60	ZM0.8-60	60	48,00	30,00	49,60	50,40	20	8	80,40 €	50,62 €
M0.8-78	ZM0.8-78	78	62,40	37,20	64,00	64,80	20	8	86,44 €	54,44 €
M0.8-80	ZM0.8-80	80	64,00	38,00	65,60	66,40	20	8	87,23 €	54,97 €
M0.8-90	ZM0.8-90	90	72,00	42,00	73,60	74,40	20	8	99,35 €	62,58 €
M0.8-100	ZM0.8-100	100	80,00	46,00	81,60	82,40	20	8	109,03 €	68,63 €
M0.8-110	ZM0.8-110	110	88,00	50,00	89,60	90,40	20	8	134,23 €	84,58 €
M0.8-150	ZM0.8-150	150	120,00	66,00	121,60	122,40	20	8	266,48 €	97,08 €

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



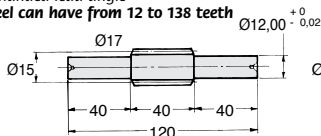
Module 1.0 Worm in steel or machined plastic

- 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

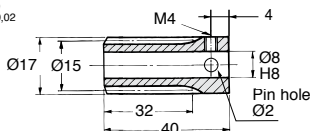


Options

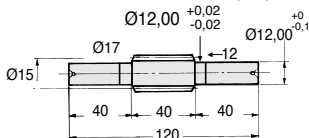
- Left handed lead angle
- Wheel can have from 12 to 138 teeth



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

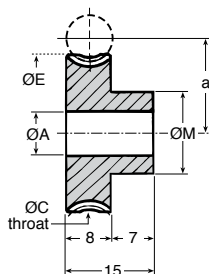
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W1-1	SW1-1	1	3°48'	32,46 €	59,94 €
W1-2	SW1-2	2	7°35'	34,34 €	61,56 €
W1-3	SW1-3	3	11°18'	37,68 €	65,70 €
W1-4	SW1-4	4	14°56'	39,34 €	66,67 €
Hardened steel					
WH1-1	SWH1-1	1	3°48'	46,24 €	85,16 €
WH1-2	SWH1-2	2	7°35'	48,80 €	87,49 €
WH1-3	SWH1-3	3	11°18'	53,52 €	93,32 €
WH1-4	SWH1-4	4	14°56''	55,93 €	94,70 €
Plastic					
ZW1-1	ZSW1-1	1	3°48'	22,95 €	42,31 €
ZW1-2	ZSW1-2	2	7°35'	24,21 €	43,39 €
ZW1-3	ZSW1-3	3	11°18'	26,59 €	46,33 €
ZW1-4	ZSW1-4	4	14°56'	27,71 €	47,03 €

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

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z								Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØM	ØA	Bronze	Plastic	
M1-12	ZM1-12	12	12	13,50	14	15	14	6	32,66 €	16,44 €	
M1-15	ZM1-15	15	15	15,00	17	18	15	6	33,80 €	16,96 €	
M1-18	ZM1-18	18	18	16,50	20	21	15	6	35,22 €	17,67 €	
M1-20	ZM1-20	20	20	17,50	22	23	15	6	35,56 €	17,85 €	
M1-24	ZM1-24	24	24	19,50	26	27	20	8	37,43 €	18,89 €	
M1-25	ZM1-25	25	25	20,00	27	28	20	8	39,08 €	19,60 €	
M1-28	ZM1-28	28	28	21,50	30	31	20	8	40,53 €	20,34 €	
M1-30	ZM1-30	30	30	22,50	32	33	25	8	41,82 €	23,17 €	
M1-32	ZM1-32	32	32	23,50	34	35	25	8	43,97 €	24,38 €	
M1-40	ZM1-40	40	40	27,50	42	43	25	8	59,37 €	37,34 €	
M1-42	ZM1-42	42	42	28,50	44	45	25	8	60,68 €	38,19 €	
M1-48	ZM1-48	48	48	31,50	50	51	25	10	73,60 €	46,33 €	
M1-50	ZM1-50	50	50	32,50	52	53	25	10	79,22 €	49,90 €	
M1-60	ZM1-60	60	60	37,50	62	63	25	10	87,25 €	54,97 €	
M1-78	ZM1-78	78	78	46,50	80	81	25	10	113,84 €	71,69 €	
M1-80	ZM1-80	80	80	47,50	82	83	25	10	129,51 €	81,57 €	
M1-90	ZM1-90	90	90	52,50	92	93	25	10	160,98 €	101,42 €	
M1-100	ZM1-100	100	100	57,50	102	103	25	10	252,42 €	92,02 €	
M1-110	ZM1-110	110	110	62,50	112	113	30	10	252,42 €	92,02 €	

Wheels available up to this size			
M1-138	ZM1-138	138	Dimensions : contact us
			On request On request

Dimensions in mm

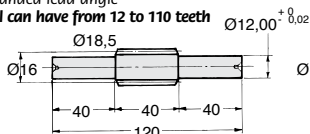
Module 1.25 Worm in steel or machined plastic

- 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

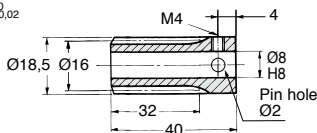


Options

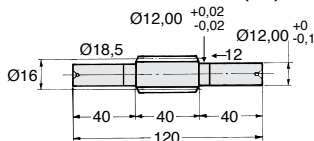
- Left handed lead angle
- Wheel can have from 12 to 110 teeth



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

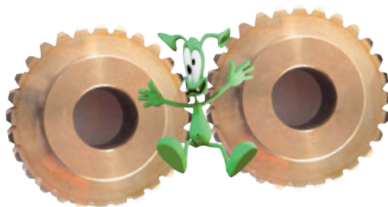
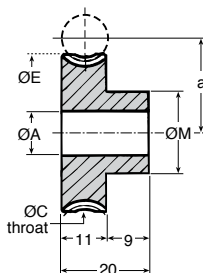
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W1.25-1	SW1.25-1	1	4°28'	32,46 €	59,94 €
W1.25-2	SW1.25-2	2	8°53'	34,34 €	61,56 €
W1.25-3	SW1.25-3	3	13°11'	37,68 €	65,70 €
W1.25-4	SW1.25-4	4	17°21'	39,34 €	66,67 €
Hardened steel					
WH1.25-1	SWH1.25-1	1	4°28'	46,24 €	85,16 €
WH1.25-2	SWH1.25-2	2	8°53'	48,80 €	87,49 €
WH1.25-3	SWH1.25-3	3	13°11'	53,52 €	93,32 €
WH1.25-4	SWH1.25-4	4	17°21'	55,93 €	94,70 €
Plastic					
ZW1.25-1	ZSW1.25-1	1	4°28'	22,95 €	42,21 €
ZW1.25-2	ZSW1.25-2	2	8°53'	24,14 €	43,30 €
ZW1.25-3	ZSW1.25-3	3	13°11'	26,51 €	46,26 €
ZW1.25-4	ZSW1.25-4	4	17°21'	27,68 €	42,67 €

Dimensions in mm

Wheel in bronze or machined plastic Module 1.25

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z							Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØM	ØA	Bronze	Plastic
M1.25-12	ZM1.25-12	12	15,00	15,50	17,50	18,75	14,00	8	35,49 €	17,85 €
M1.25-15	ZM1.25-15	15	18,75	17,38	21,25	22,50	14,00	8	37,32 €	18,73 €
M1.25-20	ZM1.25-20	20	25,00	20,50	27,50	28,75	20,00	10	36,23 €	20,98 €
M1.25-38	ZM1.25-38	38	47,50	31,75	50,00	51,25	25,00	10	66,16 €	41,63 €
M1.25-45	ZM1.25-45	45	56,25	36,13	58,75	60,00	25,00	10	84,70 €	53,41 €
M1.25-60	ZM1.25-60	60	75,00	45,50	77,50	78,75	32,00	12	140,76 €	88,64 €
↓ ↓		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



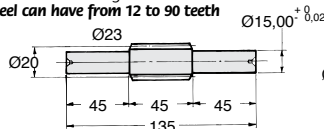
Module 1.5 Worm in steel or machined plastic

- 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

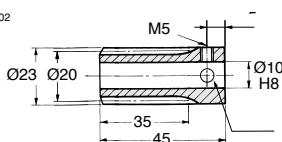


Options

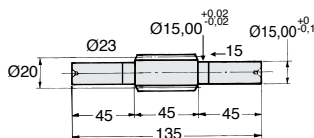
- Left handed lead angle
- Wheel can have from 12 to 90 teeth



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

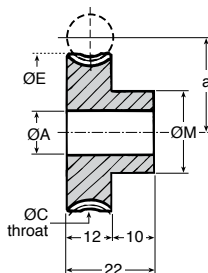
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W1.5-1	SW1.5-1	1	4°17'	37,62 €	70,47 €
W1.5-2	SW1.5-2	2	8°31'	43,71 €	74,22 €
W1.5-3	SW1.5-3	3	12°40'	45,86 €	76,56 €
W1.5-4	SW1.5-4	4	16°42'	49,74 €	77,39 €
Hardened steel					
WH1.5-1	SWH1.5-1	1	4°17'	53,48 €	100,12 €
WH1.5-2	SWH1.5-2	2	8°31'	62,05 €	105,41 €
WH1.5-3	SWH1.5-3	3	12°40'	65,15 €	108,64 €
WH1.5-4	SWH1.5-4	4	16°42'	70,61 €	109,94 €
Plastic					
ZW1.5-1	ZSW1.5-1	1	4°17'	26,50 €	49,80 €
ZW1.5-2	ZSW1.5-2	2	8°31'	30,69 €	52,44 €
ZW1.5-3	ZSW1.5-3	3	12°40'	32,25 €	54,03 €
ZW1.5-4	ZSW1.5-4	4	16°42'	34,96 €	54,62 €

Dimensions in mm

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z							Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØM	ØA	Bronze	Plastic
M1.5-12	ZM1.5-12	12	18,00	19,00	21,00	22,50	15	8	39,17 €	19,70 €
M1.5-15	ZM1.5-15	15	22,50	21,25	25,50	27,00	18	8	48,32 €	24,26 €
M1.5-18	ZM1.5-18	18	27,00	23,50	30,00	31,50	18	8	51,66 €	26,00 €
M1.5-20	ZM1.5-20	20	30,00	25,00	33,00	34,50	20	10	53,29 €	29,44 €
M1.5-22	ZM1.5-22	22	33,00	26,50	36,00	37,50	20	10	54,97 €	30,47 €
M1.5-24	ZM1.5-24	24	36,00	28,00	39,00	40,50	20	10	56,79 €	31,40 €
M1.5-25	ZM1.5-25	25	37,50	28,75	40,50	42,00	25	10	58,50 €	32,43 €
M1.5-28	ZM1.5-28	28	42,00	31,00	45,00	46,50	25	10	61,45 €	38,65 €
M1.5-30	ZM1.5-30	30	45,00	32,50	48,00	49,50	30	15	64,37 €	40,57 €
M1.5-32	ZM1.5-32	32	48,00	34,00	51,00	52,50	30	15	66,55 €	41,92 €
M1.5-34	ZM1.5-34	34	51,00	35,50	54,00	55,50	30	15	74,21 €	46,74 €
M1.5-40	ZM1.5-40	40	60,00	40,00	63,00	64,50	30	15	99,77 €	62,88 €
M1.5-42	ZM1.5-42	42	63,00	41,50	66,00	67,50	30	15	110,29 €	69,46 €
M1.5-48	ZM1.5-48	48	72,00	46,00	75,00	76,50	30	15	140,12 €	88,28 €
M1.5-50	ZM1.5-50	50	75,00	47,50	78,00	79,50	30	15	150,79 €	94,99 €
M1.5-60	ZM1.5-60	60	90,00	55,00	93,00	94,50	30	15	210,32 €	132,46 €
M1.5-78	ZM1.5-78	78	117,00	68,50	120,00	121,50	30	15	414,55 €	151,02 €
M1.5-80	ZM1.5-80	80	120,00	70,00	123,00	124,50	30	15	414,55 €	151,02 €
↓		Wheels available up to this size						↓	↓	
M1.5-90	ZM1.5-90	Dimensions: contact us						533.59 € 179.36 €		

Dimensions in mm

Worm and wheel set



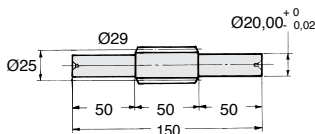
Module 2.0 Worm in steel or machined plastic

- 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

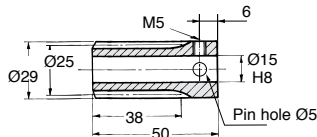


Options

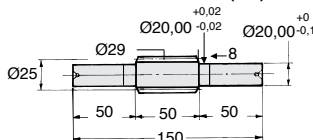
- Left handed lead angle
- Wheel can have from 12 to 285 teeth



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

STEEL DISCOUNTS

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

DELIN DISCOUNTS

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

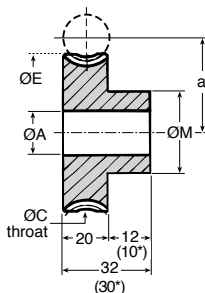
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W2-1	SW2-1	1	4°34'	65,51 €	99,33 €
W2-2	SW2-2	2	9°05'	70,22 €	105,38 €
W2-3	SW2-3	3	13°29'	75,37 €	107,62 €
W2-4	SW2-4	4	17°45'	83,09 €	113,05 €
Hardened steel					
WH2-1	SWH2-1	1	4°34'	93,07 €	141,16 €
WH2-2	SWH2-2	2	9°05'	99,77 €	149,69 €
WH2-3	SWH2-3	3	13°29'	107,03 €	152,99 €
WH2-4	SWH2-4	4	17°45'	117,99 €	160,55 €
Plastic					
ZW2-1	ZSW2-1	1	4°34'	46,03 €	69,92 €
ZW2-2	ZSW2-2	2	9°05'	49,39 €	74,22 €
ZW2-3	ZSW2-3	3	13°29'	53,00 €	75,80 €
ZW2-4	ZSW2-4	4	17°45'	58,44 €	79,52 €

Dimensions in mm

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.



*for delrin wheels

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

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z							Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØM	ØA	Bronze	Plastic
M2-12	ZM2-12	12	24	24,50	28	30	20	12	80,78 €	40,61 €
M2-15	ZM2-15	15	30	27,50	34	36	25	15	98,52 €	54,59 €
M2-18	ZM2-18	18	36	30,50	40	42	30	15	108,06 €	59,11 €
M2-20	ZM2-20	20	40	32,50	44	46	30	15	112,11 €	70,56 €
M2-22	ZM2-22	22	44	34,50	48	50	30	15	125,48 €	74,81 €
M2-24	ZM2-24	24	48	36,50	52	54	30	15	132,19 €	79,00 €
M2-25	ZM2-25	25	50	37,50	54	56	40	20	135,64 €	83,26 €
M2-28	ZM2-28	28	56	40,50	60	62	40	20	142,36 €	90,87 €
M2-30	ZM2-30	30	60	42,50	64	66	50	20	145,73 €	91,73 €
M2-32	ZM2-32	32	64	44,50	68	70	50	20	151,37 €	94,43 €
M2-34	ZM2-34	34	68	46,50	72	74	50	20	168,61 €	106,26 €
M2-40	ZM2-40	40	80	52,50	84	86	50	20	226,06 €	142,48 €
M2-42	ZM2-42	42	84	54,50	88	90	50	20	247,10 €	155,65 €
M2-45	ZM2-45	45	90	57,50	94	96	50	20	280,36 €	176,72 €
M2-48	ZM2-48	48	96	60,50	100	102	50	20	456,77 €	157,75 €
M2-50	ZM2-50	50	100	62,50	104	106	50	20	456,77 €	157,75 €
M2-60	ZM2-60	60	120	72,50	124	126	50	20	562,61 €	194,19 €
M2-65	ZM2-65	65	130	77,50	134	136	50	20	On request	230,60 €
M2-78	ZM2-78	78	156	90,50	160	162	50	20	On request	On request
M2-80	ZM2-80	80	160	92,50	164	166	50	20	On request	On request
↓	↓	Wheels available up to this size						↓	↓	
M2-285	ZM2-285	285	Dimensions: contact us						On request	On request

Dimensions in mm

Worm and wheel set



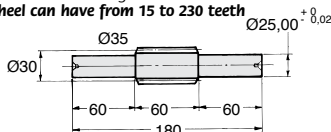
Module 2.5 Worm in steel or machined plastic

- 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

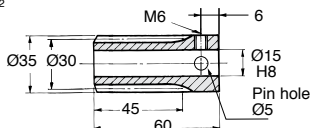


Options

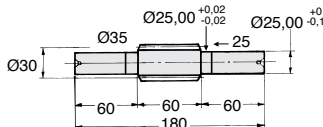
- Left handed lead angle
- Wheel can have from 15 to 230 teeth



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

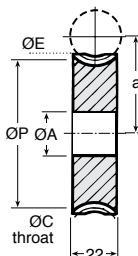
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W2.5-1	SW2.5-1	1	4°34'	98,76 €	145,18 €
W2.5-2	SW2.5-2	2	9°50'	105,41 €	151,30 €
W2.5-3	SW2.5-3	3	13°29'	109,69 €	157,23 €
W2.5-4	SW2.5-4	4	17°45'	113,43 €	164,44 €
Hardened steel					
WH2.5-1	SWH2.5-1	1	4°34'	133,50 €	209,50 €
WH2.5-2	SWH2.5-2	2	9°50'	141,30 €	216,87 €
WH2.5-3	SWH2.5-3	3	13°29'	143,45 €	221,53 €
WH2.5-4	SWH2.5-4	4	17°45'	147,25 €	226,92 €
Plastic					
ZW2.5-1	ZSW2.5-1	1	4°34'	65,23 €	98,52 €
ZW2.5-2	ZSW2.5-2	2	9°50'	69,92 €	102,88 €
ZW2.5-3	ZSW2.5-3	3	13°29'	73,03 €	107,11 €
ZW2.5-4	ZSW2.5-4	4	17°45'	75,67 €	112,32 €

Dimensions in mm

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z						Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØA	Bronze	Plastic
PM2.5-15	ZPM2.5-15	15	37,50	33,75	42,50	45,00	15	76,18 €	54,80 €
PM2.5-20	ZPM2.5-20	20	50,00	40,00	55,00	57,50	20	93,37 €	67,18 €
PM2.5-25	ZPM2.5-25	25	62,50	46,25	67,50	70,00	20	103,99 €	74,81 €
PM2.5-30	ZPM2.5-30	30	75,00	52,50	80,00	82,50	20	108,60 €	78,11 €
PM2.5-40	ZPM2.5-40	40	100,00	65,00	105,00	107,50	20	336,56 €	122,69 €
PM2.5-50	ZPM2.5-50	50	125,00	77,50	130,00	132,50	20	533,59 €	179,36 €
PM2.5-55	ZPM2.5-55	55	137,50	83,75	142,50	145,00	20	640,31 €	220,89 €
PM2.5-100	ZPM2.5-100	100	250,00	140,00	255,00	257,50	20	On request	On request
↓ ↓		Wheels available up to this size					↓ ↓		
M2.5-230	ZM2.5-230	230	Dimensions: contact us					On request	On request

Dimensions in mm

Worm and wheel set



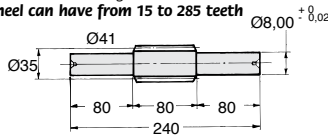
Module 3.0 Worm in steel or machined plastic

- 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

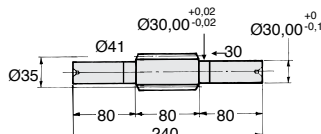


Options

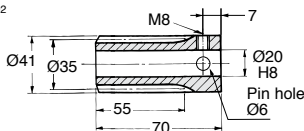
- Left handed lead angle
- Wheel can have from 15 to 285 teeth



Steel worm with shaft (SW)



Plastic worm with shaft (ZSW)



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

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

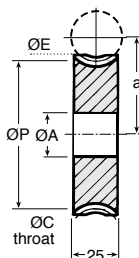
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W3-1	SW3-1	1	4°54'	117,87 €	168,65 €
W3-2	SW3-2	2	9°44'	121,77 €	179,02 €
W3-3	SW3-3	3	14°25'	125,38 €	186,53 €
W3-4	SW3-4	4	18°55'	130,33 €	193,91 €
Hardened steel					
WH3-1	SWH3-1	1	4°54'	151,30 €	230,87 €
WH3-2	SWH3-2	2	9°44'	155,31 €	224,38 €
WH3-3	SWH3-3	3	14°25'	163,12 €	228,01 €
WH3-4	SWH3-4	4	18°55'	169,65 €	239,39 €
Plastic					
ZW3-1	ZSW3-1	1	4°54'	93,37 €	129,77 €
ZW3-2	ZSW3-2	2	9°44'	96,09 €	134,58 €
ZW3-3	ZSW3-3	3	14°25'	98,72 €	140,05 €
ZW3-4	ZSW3-4	4	18°55'	102,27 €	145,37 €

Dimensions in mm

Wheel in bronze or machined plastic Module 3.0

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z	Teeth	ØP	Centres	ØC	ØE	ØA	Price each 1 to 5	
Bronze	Plastic								Bronze	Plastic
PM3-15	ZPM3-15	15	45	40,00	51	54	25		81,57 €	58,66 €
PM3-20	ZPM3-20	20	60	47,50	66	69	25		103,10 €	74,17 €
PM3-25	ZPM3-25	25	75	55,00	81	84	25		124,13 €	89,29 €
PM3-30	ZPM3-30	30	90	62,50	96	99	25		178,80 €	128,67 €
PM3-40	ZPM3-40	40	120	77,50	126	129	25		458,97 €	167,20 €
PM3-50	ZPM3-50	50	150	92,50	156	159	25		On request	296,82 €
PM3-55	ZPM3-55	55	165	100,00	171	174	25		On request	344,89 €
↓ ↓		Wheels available up to this size							↓ ↓	
PM3-285	ZPM3-285	285	Dimensions: contact us						On request	On request

Dimensions in mm

Worm and wheel set



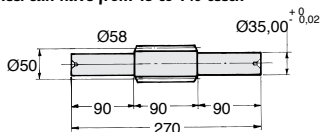
Module 4.0 Worm in steel or machined plastic

- 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

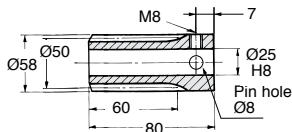


Options

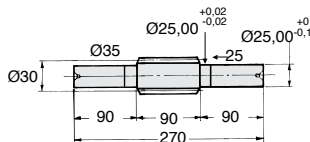
- Left handed lead angle
- **Wheel can have from 15 to 140 teeth**



Steel worm with shaft (SW)



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



Plastic worm with shaft (ZSW)

Steel DISCOUNTS

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

Delrin DISCOUNTS

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

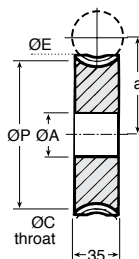
Part number		No. of starts	Lead angle	Price each 1 to 5	
Worm with bore	Worm with shaft			Worm with bore	Worm with shaft
Unhardened steel					
W4-1	SW4-1	1	4°34'	143,45 €	192,92 €
W4-2	SW4-2	2	9°50'	150,79 €	203,08 €
W4-3	SW4-3	3	13°30'	158,59 €	214,43 €
W4-4	SW4-4	4	17°45'	168,50 €	228,86 €
Hardened steel					
WH4-1	SWH4-1	1	4°34'	179,60 €	267,57 €
WH4-2	SWH4-2	2	9°50'	189,53 €	272,71 €
WH4-3	SWH4-3	3	13°30'	196,00 €	283,60 €
WH4-4	SWH4-4	4	17°45'	208,37 €	291,61 €
Plastic					
ZW4-1	ZSW4-1	1	4°34'	97,27 €	136,46 €
ZW4-2	ZSW4-2	2	9°50'	114,48 €	143,36 €
ZW4-3	ZSW4-3	3	13°30'	108,20 €	151,97 €
ZW4-4	ZSW4-4	4	17°45'	115,15 €	159,87 €

Dimensions in mm

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)

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

Bronze DISCOUNTS

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

Delrin DISCOUNTS

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

Part number		Z						Price each 1 to 5	
Bronze	Plastic	Teeth	ØP	Centres	ØC	ØE	ØA	Bronze	Plastic
PM4-15	ZPM4-15	15	60	55	68	72	25	151,69 €	109,22 €
PM4-20	ZPM4-20	20	80	65	88	92	25	176,55 €	127,09 €
PM4-25	ZPM4-25	25	100	75	108	112	35	492,83 €	179,69 €
PM4-30	ZPM4-30	30	120	85	128	132	35	781,33 €	262,63 €
PM4-40	ZPM4-40	40	160	105	168	172	35	On request	On request
PM4-50	ZPM4-50	50	200	125	208	212	35	On request	On request
PM4-55	ZPM4-55	55	220	135	228	232	35	On request	On request
PM4-60	ZPM4-60	60	240	145	248	252	35	On request	On request
↓ ↓		Wheels available up to this size						↓	
PM4-140	ZPM-140	140	Dimensions: contact us					On request	On request

Dimensions in mm

Anti-backlash wormwheel



Module 0.5

For use with worm 1 start

- Pressure angle 20°
- Right handed lead angle
- Material: bronze CuAl10NiFe4
- Used with single-thread worms
- W0.5-1. SW0.5-1**
- Backlash is only reduced in one direction

Options

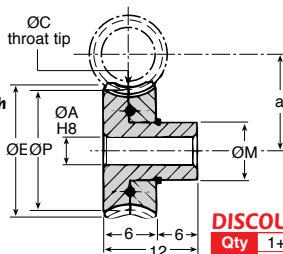
- Alternative number of teeth
- Alternative modules 2

TORQUE INDICATION

For 50 teeth at 1000 rpm

With a standard worm

Torque (Nm)	0.10
Power (kW)	0.0002



DISCOUNTS

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

Part number	Z Teeth	Pitch ØP	Centres	Throat ØC	ØE	Boss ØM	Bore ØA	Price each 1 to 5
ABM0.5-50	50	25,00	18,50	26,00	26,50	13	6	72,72 €
ABM0.5-52	52	26,00	19,00	27,00	27,50	13	6	73,82 €
ABM0.5-55	55	27,50	19,75	28,50	29,00	13	6	75,03 €
ABM0.5-58	58	29,00	20,50	30,00	30,50	13	6	76,09 €
ABM0.5-60	60	30,00	21,00	31,00	31,50	13	6	77,31 €
ABM0.5-62	62	31,00	21,50	32,00	32,50	13	6	78,41 €
ABM0.5-65	65	32,50	22,25	33,50	34,00	13	6	79,63 €
ABM0.5-68	68	34,00	23,00	35,00	35,50	13	6	80,56 €
ABM0.5-70	70	35,00	23,50	36,00	36,50	13	6	82,30 €
ABM0.5-72	72	36,00	24,00	37,00	37,50	13	6	84,08 €
ABM0.5-75	75	37,50	24,75	38,50	39,00	13	6	85,81 €
ABM0.5-78	78	39,00	25,50	40,00	40,50	13	6	87,57 €
ABM0.5-80	80	40,00	26,00	41,00	41,50	13	6	89,38 €
ABM0.5-82	82	41,00	26,50	42,00	42,50	13	6	90,58 €
ABM0.5-85	85	42,50	27,25	43,50	44,00	13	6	91,86 €
ABM0.5-88	88	44,00	28,00	45,00	45,50	13	6	93,01 €
ABM0.5-90	90	45,00	28,50	46,00	46,50	13	6	94,26 €
ABM0.5-92	92	46,00	29,00	47,00	47,50	13	6	95,40 €
ABM0.5-95	95	47,50	29,75	48,50	49,00	13	6	96,64 €
ABM0.5-96	96	48,00	30,00	49,00	49,50	13	6	97,79 €
ABM0.5-98	98	49,00	30,50	50,00	50,50	13	6	99,02 €
ABM0.5-100	100	50,00	31,00	51,00	51,50	13	6	110,56 €
ABM0.5-110	110	55,00	33,50	56,00	56,50	13	6	122,09 €
ABM0.5-120	120	60,00	36,00	61,00	61,50	13	6	133,62 €
ABM0.5-140	140	70,00	41,00	71,00	71,50	13	6	145,10 €
ABM0.5-150	150	75,00	43,50	76,00	76,50	13	6	153,19 €
ABM0.5-160	160	80,00	46,00	81,00	81,50	13	6	161,24 €

Dimensions in mm

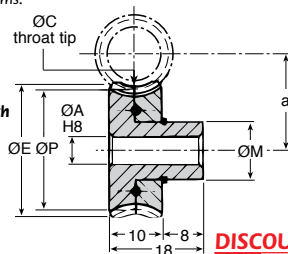
- Pressure angle 20°
- Right handed lead angle
- Material: bronze CuAl10NiFe4
- Used with single-thread worms.

W1-1. SW1-1

- Backlash is only reduced in one direction

Options

- Alternative number of teeth
- Alternative modules 2



TORQUE INDICATION

For 50 teeth at 1000 rpm

With a standard worm

Torque (Nm)	0.584
Power (kW)	0.0012

DISCOUNTS

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

Part number	Z Teeth	Pitch ØP	Centres	Throat ØC	ØE	Boss ØM	Bore ØA	Price each 1 to 5
ABM1-48	48	48,00	31,50	50,00	51,00	25	10	141,96 €
ABM1-50	50	50,00	32,50	52,00	53,00	25	10	147,35 €
ABM1-52	52	52,00	33,50	54,00	55,00	25	10	152,78 €
ABM1-54	54	54,00	34,50	56,00	57,00	25	10	158,14 €
ABM1-55	55	55,00	35,00	57,00	58,00	25	10	163,55 €
ABM1-58	58	58,00	36,50	60,00	61,00	25	10	168,97 €
ABM1-60	60	60,00	37,50	62,00	63,00	25	10	174,38 €
ABM1-62	62	62,00	38,50	64,00	65,00	25	10	181,08 €
ABM1-64	64	64,00	39,50	66,00	67,00	25	10	187,89 €
ABM1-65	65	65,00	40,00	67,00	68,00	25	10	194,61 €
ABM1-68	68	68,00	41,50	70,00	71,00	25	10	201,36 €
ABM1-70	70	70,00	42,50	72,00	73,00	25	10	208,13 €
ABM1-72	72	72,00	43,50	74,00	75,00	25	10	214,73 €
ABM1-75	75	75,00	45,00	77,00	78,00	25	10	221,11 €
ABM1-78	78	78,00	46,50	80,00	81,00	25	10	227,48 €
ABM1-80	80	80,00	47,50	82,00	83,00	25	10	233,86 €
ABM1-82	82	82,00	48,50	84,00	85,00	25	10	240,29 €
ABM1-85	85	85,00	50,00	87,00	88,00	25	10	246,57 €
ABM1-88	88	88,00	51,50	90,00	91,00	25	10	253,05 €
ABM1-90	90	90,00	52,50	92,00	93,00	25	10	259,25 €
ABM1-94	94	94,00	54,50	96,00	97,00	25	10	271,54 €
ABM1-96	96	96,00	55,50	98,00	99,00	25	10	283,79 €
ABM1-100	100	100,00	57,50	102,00	103,00	25	10	296,09 €
ABM1-110	110	110,00	62,50	112,00	113,00	30	10	370,81 €
ABM1-120	120	120,00	67,50	122,00	123,00	30	10	445,54 €

Dimensions in mm

DOUBLE SPUR GEAR

**stainless
steel**



p.180

OTHER GEARS

p.180 - 195

ANTI-BACKLASH SPUR GEAR



p.184

PINION SHAFT



p186

INTERNAL GEAR



p.190

Double spur gear



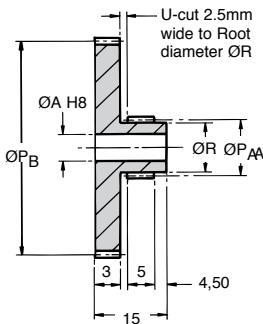
Module 0.4 Stainless steel (303) Z10CNF18.09



- Pressure angle 20°
- Material:
Stainless steel (303)
Z10CNF18.09
- U shaped groove between the two sets of teeth

Options

- Alternative number of teeth
- Alternative materials (stainless steel, brass..)
- Alternative modules (>3)



DISCOUNTS

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

Part number	Z _A Teeth	PCD ØP _A	Z _B Teeth	PCD ØP _B	Bore ØA	ØFoot ØR	Price each 1 to 5
DG0.4-16/32	16	6,80	32	12,80	3,00	5,13	39,78 €
DG0.4-16/48	16	6,80	48	19,20	3,00	5,13	42,17 €
DG0.4-16/80	16	6,80	80	32,00	3,00	5,13	43,84 €
DG0.4-20/30	20	8,00	30	12,00	4,00	6,43	42,17 €
Gears available up to this size							
DG0.4-30/150	30	12,00	150	60,00	5,00	10,75	48,81 €

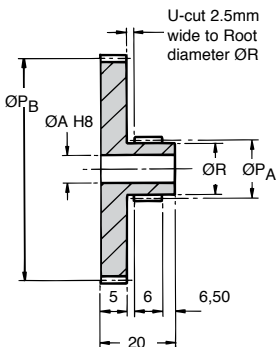
Dimensions in mm



- Pressure angle 20°
- Material:
Steel 20NCD2
- U shaped groove between the two sets of teeth

Options

- Alternative number of teeth
- Alternative materials (stainless steel, brass..)
- Alternative modules (>3)



DISCOUNTS

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

Part number	Z _A Teeth	PCD $\varnothing P_A$	Z _B Teeth	PCD $\varnothing P_B$	Bore $\varnothing A$	$\varnothing$ Foot $\varnothing R$	Price each 1 to 5
DG0.5-16/48	16	8,50	48	24,00	4,00	6,45	48,21 €
DG0.5-24/60	24	12,00	60	30,00	6,00	10,45	48,81 €
Gears available up to this size							
DG0.5-24/144	24	12,00	144	72,00	6,00	10,45	53,00 €

Dimensions in mm

Double spur gear



Module

Steel 20NCD2

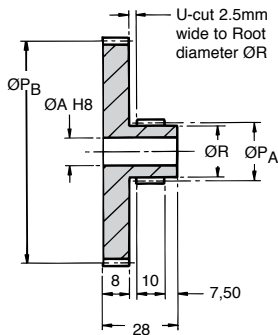
1.0



- Pressure angle 20°
- Material:
Steel 20NCD2
- U shaped groove between the two sets of teeth

Options

- Alternative number of teeth
- Alternative materials (stainless steel, brass..)
- Alternative modules (>3)



DISCOUNTS

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

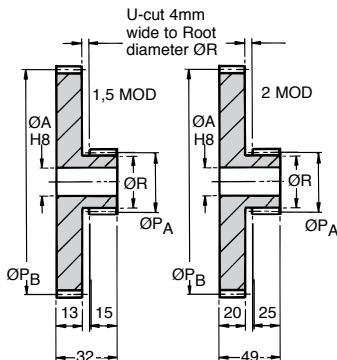
Part number	Z _A Teeth	PCD ØP _A	Z _B Teeth	PCD ØP _B	Bore ØA	ØFoot ØR	Price each 1 to 5
DG1-15/30	15	16,00	30	30,00	8,00	12,05	50,76 €
DG1-15/45	15	16,00	45	45,00	8,00	12,05	53,11 €
DG1-15/60	15	16,00	60	60,00	8,00	12,05	55,26 €
DG1-15/70	15	16,00	70	70,00	8,00	12,05	57,11 €
Gears available up to this size							
DG1-20/70	20	20,00	70	70,00	10,00	17,05	57,11 €

Dimensions in mm

- Pressure angle 20°
- Material: Steel 20NCD2
- U shaped groove between the two sets of teeth

Options

- Alternative number of teeth
- Alternative materials (stainless steel, brass..)
- Alternative modules (>3)



DISCOUNTS

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

Part number	Module	Z _A Teeth	PCD ØP _A	Z _B Teeth	PCD ØP _B	Bore ØA	ØFoot ØR	Price each 1 to 5
DG1.5-16/48	1,5	16	24,00	48	72,00	10	13,00	108,12 €
DG1.5-20/100		20	30,00	100	150,00	10	19,00	227,27 €
		↓ Gears available up to this size						↓
DG1.5-20/120	2	20	30,00	120	180,00	10	19,00	359,48 €
DG2-15/45		15	30,00	45	90,00	15	24,00	153,92 €
DG2-15/60		15	30,00	60	120,00	15	24,00	279,48 €
		↓ Gears available up to this size						↓
DG2-20/120		20	40,00	120	240,00	15	34,00	657,11 €

Dimensions in mm

Anti-backlash spur gear



Module 0.5-1

Stainless steel

- Backlash is only reduced in one direction
- Pressure angle 20°
- Material: stainless steel (303) Z10CNF18,09
- Springs are placed in the gap between two gears of the same size axially secured with a circlip

Assembly

- Offset the two discs by several degrees to compress the springs and reduce the backlash

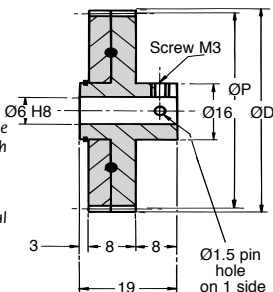
Options

- Alternative number of teeth
- Alternative modules (>4)

TORQUE AND POWER INDICATION	50 TEETH x 1000 rpm		
	MODULE 0.5	MODULE 0.8	MODULE 1
Torque (Nm)	0,0658	0,1482	0,2636
Power(kW)	0,0068	0,0156	0,0276

DISCOUNTS

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



Part number	Z Teeth	Pitch ØP	External ØD	Price each 1 to 5
ABS0.5-56	56	28,00	29,00	88,59 €
ABS0.5-60	60	30,00	31,00	94,99 €
ABS0.5-72	72	36,00	37,00	100,79 €
ABS0.5-84	84	42,00	43,00	101,44 €
ABS0.5-96	96	48,00	49,00	107,19 €
ABS0.5-108	108	54,00	55,00	112,98 €
ABS0.5-120	120	60,00	61,00	118,74 €
ABS0.5-132	132	66,00	67,00	124,52 €
ABS0.5-144	144	72,00	73,00	130,43 €
ABS0.8-48	48	38,40	40,00	99,34 €
ABS0.8-50	50	40,00	41,60	101,44 €
ABS0.8-64	64	51,20	52,80	106,55 €
ABS0.8-72	72	57,60	59,20	113,11 €
ABS0.8-80	80	64,00	65,60	117,59 €
ABS0.8-88	88	70,40	72,00	121,90 €
ABS0.8-96	96	76,80	78,40	124,16 €
ABS0.8-100	100	80,00	81,60	128,62 €
ABS1-48	48	48,00	50,00	125,70 €
ABS1-60	60	60,00	62,00	130,65 €
ABS1-72	72	72,00	74,00	133,15 €
ABS1-80	80	80,00	82,00	137,61 €
ABS1-84	84	84,00	86,00	143,92 €

Dimensions in mm

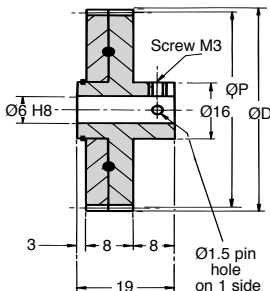
- The anti-backlash mechanism **only works in one direction**
- Pressure angle 20°
- Material: steel 20NCD2
- Springs are placed in the gap between two gears of the same size axially secured with a circlip

Assembly

- Offset the two discs by several degrees to compress the springs and reduce the backlash

Options

- Alternative number of teeth
- Alternative modules (>4)



TORQUE AND POWER INDICATION	50 TEETH x 1000 rpm		
	MODULE 0.5	MODULE 0.8	MODULE 1
Torque (Nm)	0,0658	0,1482	0,2636
Power(kW)	0,0068	0,0156	0,0276

DISCOUNTS

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

Part number	Z Teeth	Pitch ØP	External ØD	Price each 1 to 5
AB0.5-56	56	28,00	29,00	67,43 €
AB0.5-60	60	30,00	31,00	68,03 €
AB0.5-72	72	36,00	37,00	68,74 €
AB0.5-84	84	42,00	43,00	69,31 €
AB0.5-96	96	48,00	49,00	69,81 €
AB0.5-108	108	54,00	55,00	70,80 €
AB0.5-120	120	60,00	61,00	72,13 €
AB0.5-132	132	66,00	67,00	73,97 €
AB0.5-144	144	72,00	73,00	74,60 €
AB0.8-48	48	38,40	40,00	68,94 €
AB0.8-50	50	40,00	41,60	70,38 €
AB0.8-64	64	51,20	52,80	71,10 €
AB0.8-72	72	57,60	59,20	71,78 €
AB0.8-80	80	64,00	65,60	72,97 €
AB0.8-88	88	70,40	72,00	74,16 €
AB0.8-96	96	76,80	78,40	74,85 €
AB0.8-100	100	80,00	81,60	75,80 €
AB1-48	48	48,00	50,00	72,52 €
AB1-60	60	60,00	62,00	78,17 €
AB1-72	72	72,00	74,00	81,03 €
AB1-80	80	80,00	82,00	84,70 €
AB1-84	84	84,00	86,00	87,13 €

Dimensions in mm

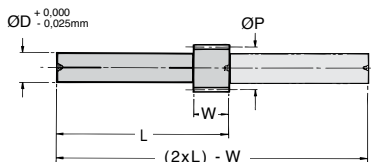
Module 0.25-1.25

Steel 20NCD2

- Pressure angle 20°
- Material:
steel 20NCD2

Options

- Alternative number of teeth
- Alternative materials (delrin, stainless steel..)
- Other lengths and diameters



DISCOUNTS

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

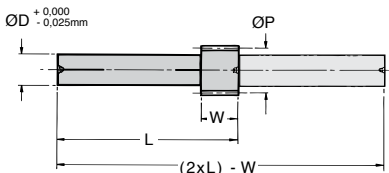
Part number	Module	Z Teeth	ØP	L	W	ØD	Price each 1 to 5
DT0.25-15	0,25	15	3,75	20	2,50	3	37,37 €
DT0.25-18	0,25	18	4,50	20	2,50	3	40,42 €
DT0.3-16	0,3	16	4,80	20	2,50	3	37,37 €
DT0.3-20	0,3	20	6,00	20	2,50	3	40,42 €
DT0.4-18	0,4	18	7,20	25	3,00	5	38,52 €
DT0.4-27	0,4	27	10,80	25	3,00	5	41,49 €
DT0.5-16	0,5	16	8,00	25	3,00	6	40,36 €
DT0.5-20	0,5	20	10,00	25	3,00	6	41,14 €
DT0.5-24	0,5	24	12,00	25	3,00	6	43,21 €
DT0.8-15	0,8	15	12,00	32	5,00	8	45,02 €
DT0.8-16	0,8	16	12,80	32	5,00	8	47,09 €
DT0.8-18	0,8	18	14,40	32	5,00	8	48,16 €
DT1-14	1	14	14,00	38	8,00	10	54,51 €
DT1-16	1	16	16,00	38	8,00	10	56,23 €
DT1-20	1	20	20,00	38	8,00	10	58,27 €
DT1.25-12	1,25	12	15,00	50	10,00	12	56,44 €
DT1.25-15	1,25	15	18,75	50	10,00	12	57,50 €
DT1.25-18	1,25	18	22,50	50	10,00	12	58,64 €

Dimensions in mm

- Pressure angle 20°
- Material:
Steel 20NCD2

Options

- Different number of teeth
- Other materials (delrin, stainless steel...)
- Other lengths and diameters



DISCOUNTS

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

Part number	Module	Z Teeth	ØP	L	W	ØD	Price each 1 to 5
DT1.5-13	1,5	13	19,50	76	12	15	57,19 €
DT1.5-16	1,5	16	24,00	76	12	15	58,69 €
DT1.5-20	1,5	20	30,00	76	12	15	60,56 €
DT2-13	2	13	26,00	76	20	20	62,59 €
DT2-16	2	16	32,00	76	20	20	68,87 €
DT2-18	2	18	36,00	76	20	20	76,34 €
DT2.5-12	2,5	12	30,00	100	25	20	77,56 €
DT2.5-15	2,5	15	37,50	100	25	20	82,26 €
DT2.5-18	2,5	18	45,00	100	25	20	86,84 €
DT3-12	3	12	36,00	108	32	22	108,71 €
DT3-14	3	14	42,00	108	32	22	111,98 €
DT3-16	3	16	48,00	108	32	22	122,28 €
DT4-12	4	12	48,00	115	38	30	138,26 €
DT4-15	4	15	60,00	115	38	30	144,13 €
DT4-18	4	18	72,00	115	38	30	151,17 €

Dimensions in mm

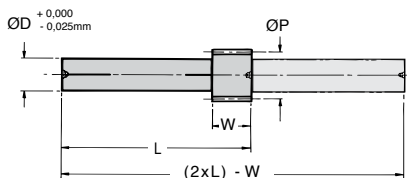
Module 0.25-0.8

Stainless steel

- Pressure angle 20°
- Material:
Stainless steel (303) Z10CNF18.09

Options

- Alternative number of teeth
- Alternative materials (delrin, stainless steel..)
- Other lengths and diameters



DISCOUNTS

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

Part number	Module	Z Teeth	ØP	L	W	ØD	Price each 1 to 5
DST0.25-15	0,25	15	3,75	20	2,50	3	55,52 €
DST0.25-18	0,25	18	4,50	20	2,50	3	57,20 €
DST0.3-16	0,3	16	4,80	20	2,50	3	55,52 €
DST0.3-20	0,3	20	6,00	20	2,50	3	57,20 €
DST0.4-18	0,4	18	7,20	25	3,00	5	57,43 €
DST0.4-27	0,4	27	10,80	25	3,00	5	58,11 €
DST0.5-16	0,5	16	8,00	25	3,00	6	60,39 €
DST0.5-20	0,5	20	10,00	25	3,00	6	62,01 €
DST0.5-24	0,5	24	12,00	25	3,00	6	64,42 €
DST0.8-15	0,8	15	12,00	32	5,00	8	67,23 €
DST0.8-16	0,8	16	12,80	32	5,00	8	67,49 €
DST0.8-18	0,8	18	14,40	32	5,00	8	71,86 €

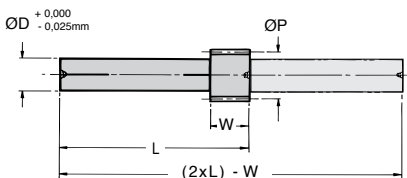
Dimensions in mm

Stainless steel

- Pressure angle 20°
- Material:
Stainless steel (303) Z10CNF18.09

Options

- Alternative number of teeth
- Alternative materials (delrin, stainless steel..)
- Other lengths and diameters



DISCOUNTS

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

Part number	Module	Z Teeth	ØP	L	W	ØD	Price each 1 to 5
DST1-14	1	14	14,00	38	8	10	81,47 €
DST1-16	1	16	16,00	38	8	10	83,18 €
DST1-20	1	20	20,00	38	8	10	86,79 €
DST1.25-12	1,25	12	15,00	50	10	12	110,44 €
DST1.25-15	1,25	15	18,75	50	10	12	111,79 €
DST1.25-18	1,25	18	22,50	50	10	12	121,50 €
DST1.5-13	1,5	13	19,50	76	12	15	129,69 €
DST1.5-16	1,5	16	24,00	76	12	15	131,47 €
DST1.5-20	1,5	20	30,00	76	12	15	134,02 €
DST2-13	2	13	26,00	76	20	20	137,12 €
DST2-16	2	16	32,00	76	20	20	146,40 €
DST2-18	2	18	36,00	76	20	20	157,59 €

Dimensions in mm

Internal gear



Module

Steel or **machined** plastic

0,4 
1,0 

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

Options

- Alternative number of teeth
(minimum 100 teeth for 0,4 module,
mini 58 teeth for 1,0 module)
- Alternative materials (stainless steel,
brass..)

Accessories

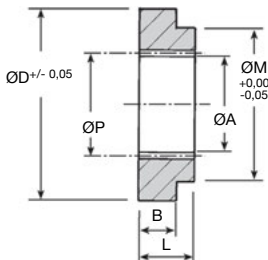
- Spur gears with the same module ex
G0,4..., ZG0,4..., G1, ZG1...



IN : steel



ZIN : plastic



Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Part number		Z teeth	PCD ØP	Internal			Boss ØM	Price each 1 to 5		
Steel IN	Plastic ZIN			ØA	ØD	L		B	Steel IN	Plastic ZIN
Module 0,4										
IN0.4-100	ZIN0.4-100	100	40	39,2	60	5	3	55	50,52 €	36,36 €
IN0.4-120	ZIN0.4-120	120	48	47,2	75	5	3	70	56,53 €	40,61 €
IN0.4-150	ZIN0.4-150	150	60	53,2	75	5	3	70	64,42 €	46,32 €
IN0.4-200	ZIN0.4-200	200	80	79,2	125	5	3	100	85,70 €	61,64 €
↓ Gears available up to this size									↓	↓
IN0.4-400	ZIN0.4-400	400	160	159,2	225	5	3	200	171,07 €	98,05 €
Module 1,0										
IN1-58	ZIN1-58	58	58	56	100	11	8	94	68,22 €	49,13 €
IN1-60	ZIN1-60	60	60	58	100	11	8	94	69,11 €	49,74 €
IN1-100	ZIN1-100	100	100	98	150	11	8	125	118,60 €	85,37 €
↓ Gears available up to this size									↓	↓
IN1-200	ZIN1-200	200	200	198	250	11	8	225	236,70 €	135,87 €

Dimensions in mm

Steel or **machined** plastic

Module

1,5

2,0

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

Options

- Alternative number of teeth
(minimum 41teeth for 1,5 module and
mini 40 teeth for 2,0 module)
- Alternative materials (stainless steel,
brass..)

Accessories

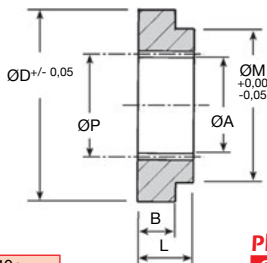
- Spur gears with the same module ex
G0,4..., ZG0,4...,G1, ZG1...



IN : steel



ZIN : plastic



Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Part number		Z	PCD	Internal		Boss		Price each 1 to 5	
Steel IN	Plastic ZIN	teeth	ØP	ØA	ØD	L	B	Steel IN	Plastic ZIN
Module 1,5									
IN1.5-41	ZIN1.5-41	41	61,5	58	100	15	12	77,87 €	55,98 €
IN1.5-60	ZIN1.5-60	60	90,0	87	150	15	12	119,71 €	86,10 €
IN1.5-100	ZIN1.5-100	100	150,0	147	200	15	12	202,65 €	156,21 €
Gears available up to this size									
IN1.5-120	ZIN1.5-120	120	180,0	177	250	15	12	269,54 €	154,49 €
Module 2,0									
IN2-40	ZIN2-40	40	80	76	150	15	12	107,50 €	75,24 €
IN2-60	ZIN2-60	60	120	116	175	15	12	167,49 €	117,24 €
IN2-80	ZIN2-80	80	160	156	220	15	12	220,43 €	154,29 €
IN2-100	ZIN2-100	100	200	196	250	15	12	283,54 €	198,48 €
Gears available up to this size									
IN2-110	ZIN2-110	110	220	216	280	15	12	330,35 €	231,23 €

Dimensions in mm

Internal gear



Module
2.5

Steel or **machined** plastic



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

Options

- Alternative number of teeth
- Alternative materials (stainless steel, brass..)

Accessories

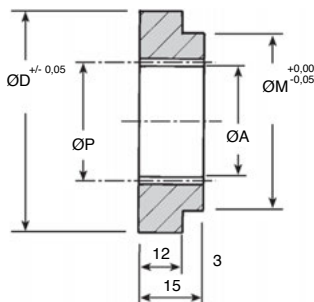
- Spur gears with the same module
eg G2,5..., ZG2,5..



IN: Steel



ZIN: Plastic



Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Steel IN	Plastic ZIN	Z Teeth	PCD ØP	Part number Internal ØA	ØD	Boss ØM	Price each 1 to 5	
							Steel IN	Plastic ZIN
IN2.5-56	ZIN2.5-56	56	140,0	135,0	200	175	199,02 €	139,31 €
IN2.5-60	ZIN2.5-60	60	150,0	145,0	200	175	224,09 €	156,85 €
IN2.5-75	ZIN2.5-75	75	187,5	182,5	250	220	294,90 €	206,43 €
↓ ↓ Gears available up to this size							↓	↓
IN2.5-88	ZIN2.5-88	88	220,0	215,0	280	250	337,18 €	236,02 €

Dimensions in mm

Steel or **machined** plastic

Module 3.0



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

Options

- **Alternative number of teeth**
- Alternative materials (stainless steel, brass..)

Accessories

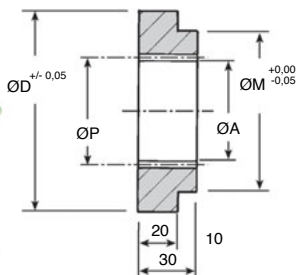
- Spur gears with the same module eg **G3.., ZG3..**



IN: Steel



ZIN: Plastic



Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Steel IN	Plastic ZIN	Z Teeth	PCD ØP	Part number Internal ØA	ØD	Boss ØM	Price each 1 to 5	
							Steel IN	Plastic ZIN
IN3-50	ZIN3-50	50	150	144	220	200	228,87 €	160,20 €
IN3-60	ZIN3-60	60	180	174	250	220	257,70 €	180,40 €
IN3-66	ZIN3-66	66	198	192	250	220	339,13 €	237,39 €
Gears available up to this size								
IN3-74	ZIN3-74	74	222	216	280	250	361,17 €	271,42 €

Dimensions in mm

Internal gear



Module 4.0

Steel or **machined** plastic



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

Options

- Alternative number of teeth
- Alternative materials (stainless steel, brass..)

Accessories

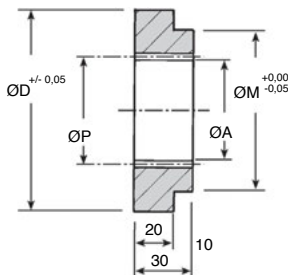
- Spur gears with the same module
eg G4.., ZG4..



IN: Steel



ZIN: Plastic



Steel DISCOUNTS

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

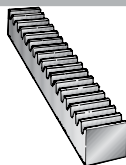
Plastic DISCOUNTS

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

Steel IN	Plastic ZIN	Z Teeth	PCD ØP	Part number internal ØA	ØD	Boss ØM	Price each 1 to 5	
							Steel IN	Plastic ZIN
IN4-40	ZIN4-40	40	160	152	230	200	246,05 €	172,22 €
IN4-45	ZIN4-45	45	180	172	250	220	277,03 €	193,91 €
IN4-50	ZIN4-50	50	200	192	280	250	345,82 €	255,21 €
↓	↓	Gears available up to this size					↓	↓
IN4-55	ZIN4-55	55	220	212	280	250	369,98 €	291,79 €

Dimensions in mm

Technical information



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



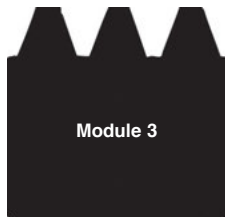
Module 1.5



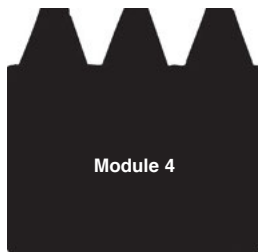
Module 2



Module 2.5

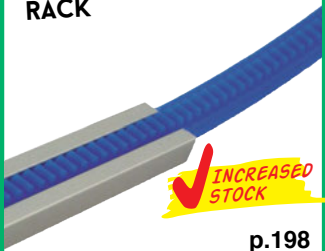


Module 3



Module 4

PLASTIC FLEXIBLE RACK



✓ INCREASED
STOCK

p.198

MOULDED NYLON RACK



p.200

NARROW SPUR RACK



stainless
steel

p.203

RACKS

p.198 - 209

**METRIC SECTION
RACK**



p.204

SPUR ROUND RACK



*stainless
steel*

p.206

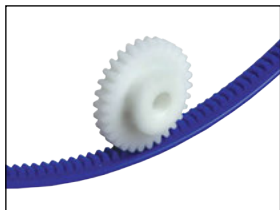
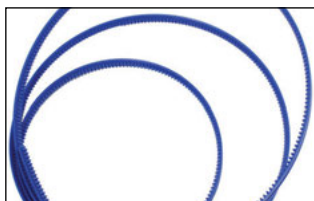
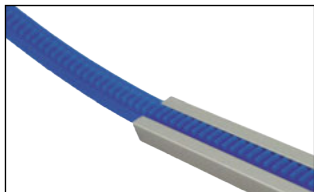
- The flexible rack should be used with a 20 tooth pinion from the same range (see ZGDR gears)
- Length 2000mm (+/- 10mm)
- Minimum radius of curvature: 150mm
- Pressure angle 20°
- Datum reference: bottom surface

Accessories

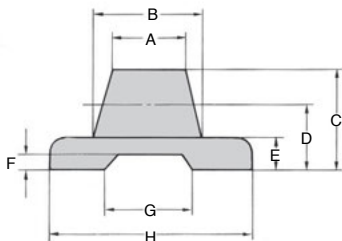
- Rack clamp SRS
- Rack guide rail ARL
- Gear ZGDR

Info.

- Plastic racks are less accurate than metal racks and should not be used where accurate positioning is required.



Typical application with a ZGDR gears



DISCOUNTS

Qty	1+	6+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Part number	Module	Length (mm)	A	B	C	D	E	F	G	H	Max load (N)	Weight kg	Price each 1 to 5
DR0.8-2000	0,8	2000	3	3,8	3,3	2,5	1,5	0,7	3,7	8	111,8	0,10	✓ 89,85 €
DR1-2000	1,0	2000	4	5,0	4,3	3,3	2,0	0,9	4,9	10	160,9	0,15	✓ 116,09 €
DR1.5-2000	1,5	2000	5	6,5	5,7	4,2	2,3	1,0	8,0	12	161,4	0,20	- 146,12 €
DR2-2000	2,0	2000	6	6,0	7,0	5,0	2,5	1,1	10,1	15	264,9	0,30	✓ 176,06 €

Dimensions in mm

Clamp and guide rail

ARL
SRS

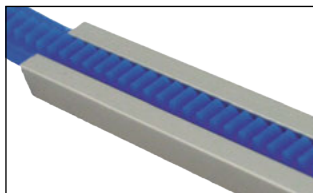
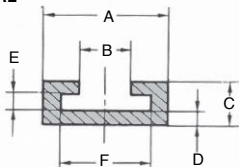
- Accessories for flexible rack

- Material:

Guide: aluminium A6063S-T5

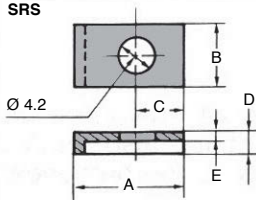
Clamps: SS400 unichromic plating

ARL



ARL rack guide rail

SRS



SRS rack clamp

DISCOUNTS

Qty	1+	6+	10+	20+	30+
Disc.	List	-5%	-10%	-15%	On request

Rack guide rail

Part number	Length (mm)	A	B	C	D	E	F	Price each 1 to 5
ARL-0.8	1000	10,3	4,4	4,7	2,0	1,7	8,3	33,28 €
ARL-1	1000	12,3	5,6	5,2	2,0	2,2	10,3	38,11 €
ARL-1.5	1000	14,3	7,2	5,5	2,0	2,5	12,3	42,66 €
ARL-2	1000	17,3	8,8	6,2	2,5	2,7	15,3	56,52 €

Rack clamp

Part number	For rack	A	B	C	D	E	Qty per packet	Price per batch
SRS1/B	DR0.8-2000 et DR1-2000	10,2	8	4,5	2,7	1,2	10	16,94 €
SRS2/B	DR1.5-2000 et DR2-2000	11,4	8	5,6	3,9	1,4	10	16,94 €

Dimensions in mm

Moulded nylon rack



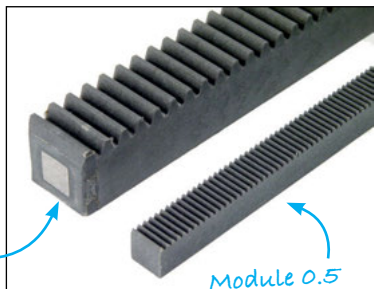
Module 0.5-4.0

Nylon 6 reinforced with
30% glass fibre

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

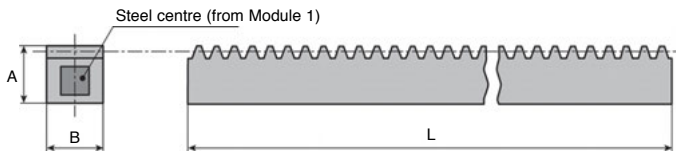
Info.

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



Racks with
modules 1 to 4
have steel centres

Module 0.5
without steel centre



DISCOUNTS

Qty	1+	10+	50+	100+	400+
Disc.	List	-10%	-25%	-35%	On request

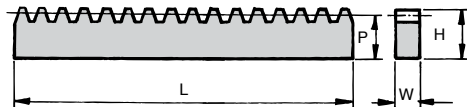
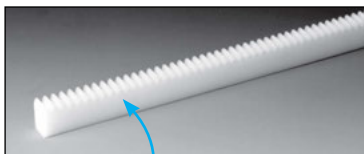
Part number	m Module	A	B	Length L (mm)	Stock*	Price each 1 to 9
Without steel centre						
CRM0.5-250	0,5	8	8	250	✓	6,75 €
With steel centre						
CRM1-350	1	15	15	351,67		11,07 €
CRM1.5-500	1,5	17	17	565,2	✓	17,80 €
CRM2-500	2,0	20	20	565,2	✓	22,62 €
CRM3-250	3,0	30	30	250	✓	13,00 €
CRM3-500	3,0	30	30	500	✓	30,01 €
CRM3-1000	3,0	30	30	1000	✓	48,06 €
CRM4-1000	4,0	28	20	1000	-	54,65 €

*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+	20+
Disc.	List	-5%	On request

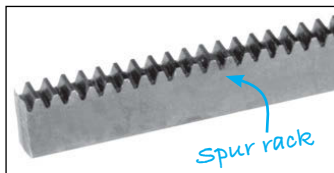
Part number	Module	P (mm)	W (mm)	H (mm)	L (mm)	Stock*	Price each 1 to 5
ZR0.4-400	0,4	11,60	6	12	400	✓	45,03 €
ZR0.5-400	0,5	11,50	6	12	400	✓	44,16 €
ZR0.8-400	0,8	11,20	6	12	400	✓	47,08 €
ZR1-400	1,0	14,00	8	15	400	✓	48,67 €
ZR1.25-400	1,25	13,75	10	15	400	✓	54,34 €
ZRR1.5-400	1,5	16,50	12	18	400	✓	54,93 €
ZRR2-400	2,0	18,00	15	20	400	✓	61,24 €

*Depending on availability - Dimensions in mm

Module 0.4-2.0

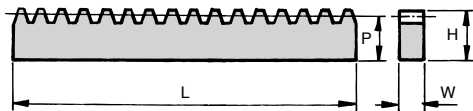
Steel

- Pressure angle 20°
- Max length from 400 to 1800 depending on module
- **1 metre lengths can be joined end to end**
- Materials:
 - Module 0.4 to 0.7 mild steel
 - Module 0.8 to 2.0 steel 60C40 or C35/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 5 or more, please contact us



DISCOUNTS

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

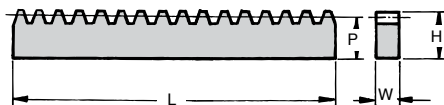
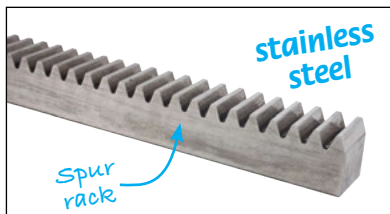
Part number	Module	P	W	H	L	Stock*	Price each 1 to 5
R0.4-400	0,4	11,60	6	12	400	✓	49,65 €
R0.5-400	0,5	11,50	6	12	400	✓	31,50 €
R0.8-1000	0,8	11,20	6	12	1000	✓	165,66 €
R1-1000	1	14,00	8	15	1000	✓	85,51 €
R1.25-1000	1,25	13,75	8	15	1000	✓	148,56 €
RR1.5-1000	1,5	16,50	18	18	1000	✓	135,79 €
RR2-1000	2	16,00	18	18	1000	✓	144,97 €

*Depending on availability - Dimensions in mm

- Pressure angle 20°
- Max. pitch error 1mm/300mm
- Material:
Stainless steel 304L except
module 0,25: stainless steel 303

Option

- Alternative lengths available

**DISCOUNTS**

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

Part number	Module	P	W	H	L	Stock*	Price each 1 to 5
SR0.25-400/303	0,25	8,75	4,00	9	400	✓	157,50 €
SR0.5-400/304L	0,50	11,50	6,00	12	400	✓	89,25 €
SR0.8-400/304L	0,80	11,20	6,00	12	400	✓	94,50 €
SR1-400/304L	1,00	14,00	8,00	15	400	✓	99,75 €

Depending of availability - Dimensions in mm

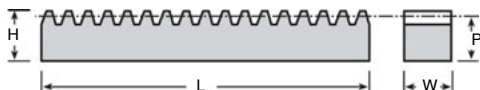
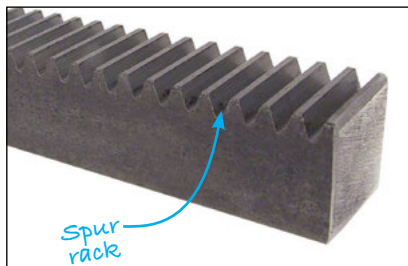
Module 1.0-6.0

Steel

- Racks can joined end to end
- Pressure angle 20°
- MR = square section
- MMR = rectangular section

Options

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



DISCOUNTS

Qty	1+	6+	10+	20+	30+	40+
Disc.	List	-10%	-20%	-30%	-40%	On request

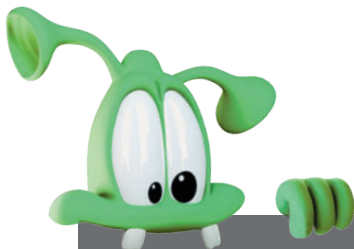
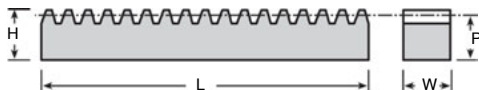
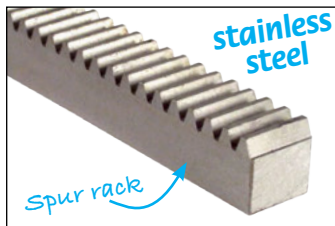
Part number	Module	W (mm)	H (mm)	Primitive line P (mm)	Length L (mm)	Stock*	Price each 1 to 5
MR1-1000	1	10	10	9,00	999	✓	44,10 €
MR1.25-1000	1,25	15	15	13,75	1001	✓	52,50 €
MR1.25-2000	1,25	15	15	13,75	1997	✓	105,00 €
MR1.5-1000	1,5	15	15	13,50	997	✓	43,75 €
MR1.5-2000	1,5	15	15	13,50	1997	✓	105,00 €
MR1.75-2000	1,75	15	15	13,25	2002	-	105,00 €
MR2-1000	2	20	20	18,00	999	✓	28,35 €
MR2-2000	2	20	20	18,00	1997	✓	57,05 €
MR2.5-1000	2,5	25	25	22,50	997	✓	38,85 €
MR2.5-2000	2,5	25	25	22,50	2002	✓	77,70 €
MR3-1000	3	30	30	27,00	999	✓	50,75 €
MR3-2000	3	30	30	27,00	1997	✓	101,50 €
MMR4-1000	4	40	25	21,00	1005	✓	109,20 €
MMR4-2000	4	40	25	21,00	2002	✓	217,00 €
MMR5-1000	5	50	30	25,00	1005	✓	154,00 €
MMR5-2000	5	50	30	25,00	2010	✓	308,00 €
MMR6-1000	6	60	40	34,00	999	-	243,98 €
MMR6-2000	6	60	40	34,00	1997	-	463,16 €

*Depending on availability - Dimensions in mm

- Racks can 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+	6+	20+
Disc.	List	-12%	On request

Part number	Module	W (mm)	H (mm)	Primitive line P (mm)	Length L (mm)	Stock*	Price each 1 to 5
MRS1-1000	1,0	10	10	9,00	999	✓	123,27 €
MRS1.5-1000	1,5	15	15	13,50	999	✓	206,60 €
MRS2-1000	2,0	20	20	18,00	999	✓	225,84 €
MRS2.5-1000	2,5	25	25	22,50	999	-	320,37 €
MRS3-1000	3,0	30	30	27,00	999	✓	396,44 €

*Depending on availability - Dimensions in mm

Module

0.25-1.5

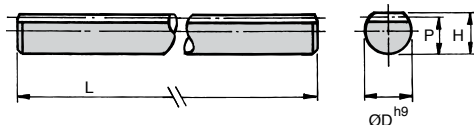
Stainless steel

- **Machined parts**
- Pressure angle 20°
- Max. pitch error 1mm/300mm
- Material:
stainless steel (303) Z10 CNF 18.09



Options

- Other lengths are available



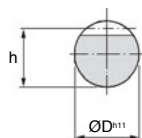
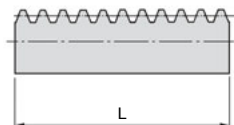
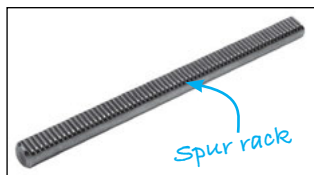
DISCOUNTS

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

Part number	Module	P (mm)	ØD (mm)	H (mm)	L (mm)	Stock*	Price each 1 to 5
TR0.25-400/304	0,25	5,30	6,00	5,55	400	✓	126,16 €
TR0.5-400/303	0,50	8,70	10,00	9,20	400	✓	82,58 €
TR0.7-400/303	0,70	9,80	12,00	10,50	400	✓	71,11 €
TR0.8-400/303	0,80	9,70	12,00	10,50	400	✓	71,80 €
TR1-400/303	1,00	9,50	12,00	10,50	400	✓	78,88 €
TR1.5-400/303	1,50	16,00	20,00	17,50	400	✓	90,61 €

*Depending on availability - Dimensions in mm

- Pressure angle 20°
- Diameter tolerance h11
- Material:
drawn steel A60



DISCOUNTS

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

Part number	Module	h (mm)	ØD (mm)	L (mm)	Stock*	Price each 1 to 5
TRM1-1000	1	9,00	10	999	✓	89,25 €
TRM1.5-1000	1,5	13,50	15	999	✓	121,45 €
TRM2-1000	2	18,00	20	999	✓	122,50 €
TRM2.5-1000	2,5	22,50	25	997	✓	162,75 €
TRM3-1000	3	27,00	30	999	✓	155,75 €
TRM4-1000	4	36,00	40	1005	✓	189,00 €
TRM5-1000	5	45,00	50	1005	-	287,00 €
TRM6-1000	6	54,00	60	999	-	301,00 €

*Depending on availability - Dimensions in mm

Spur round rack

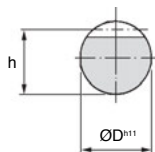
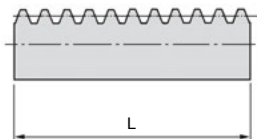


Module 1.0-5.0

Stainless steel

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

In stock
up to module 2



DISCOUNTS

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

Part number	Module	h (mm)	ØD (mm)	L (mm)	Stock*	Price each 1 to 5
TRM1-1000/SS	1	9,00	10	999	✓	112,51 €
TRM1.5-1000/SS	1,5	13,50	15	999	✓	162,54 €
TRM2-1000/SS	2	18,00	20	999	✓	158,14 €
TRM2.5-1000/SS	2,5	22,50	25	997	-	214,83 €
TRM3-1000/SS	3	27,00	30	999	-	259,17 €
TRM4-1000/SS	4	36,00	40	1005	-	375,13 €
TRM5-1000/SS	5	45,00	50	1005	-	664,99 €

*Depending on availability - Dimensions in mm

Technical information

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 1.25



Module 1.5



Module 1.75



Module 2



Module 2.5



Module 3



Module 4



Module 5



Module 6



Module 8



**STAINLESS STEEL SPUR
GEAR**



p.214

PLASTIC SPUR GEAR



p.220

BRASS SPUR GEAR



p.224

SPUR GEARS **p.212 - 305**

STAINLESS STEEL SPUR GEAR

*stainless
steel*



p.225

MOULDED PLASTIC SPUR GEAR



p.248

Toothed bar **machined** to order **Alu Bra**

**AAG
ABG**

Aluminium or brass

- Bar stock with teeth machined to your requirements

- All types of 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

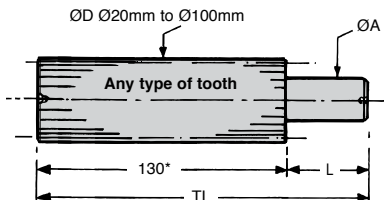


Option

- Stainless steel 303, TUFNOL

Info.

- *When ordering 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 on demand



DISCOUNTS

Qty	1+	6+	20+	40+
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	99,19 €
AAG3	31 and 40	30	160	15	111,52 €
AAG4	41 and 50	40	170	20	198,54 €
AAG5	51 and 60	40	170	25	224,88 €
AAG6	61 and 100	40	170	25	400,21 €

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	114,51 €
ABG3	31 and 40	30	160	15	139,44 €
ABG4	41 and 50	40	170	20	238,16 €
ABG5	51 and 60	40	170	25	285,85 €
ABG6	61 and 100	40	170	25	450,64 €

ØD GREATER THAN 100mm ON REQUEST

Dimensions in mm

- Bar stock with teeth machined to your requirements

- All types of 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

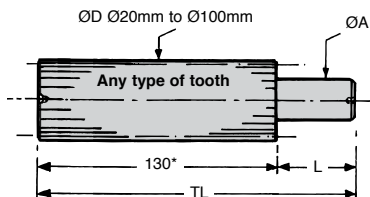


Option

- Stainless steel 303, TUFNOL

Info.

- *When ordering 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 on demand



DISCOUNTS

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

Steel 20NCD2

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
ASG2	20 et 30	30	160	12	76,64 €
ASG3	31 et 40	30	160	15	100,36 €
ASG4	41 et 50	40	170	20	166,13 €
ASG5	51 et 60	40	170	25	218,16 €
ASG6	61 et 100	40	170	25	390,38 €

ØD GREATER THAN 100mm ON REQUEST

Delrin

Part number	ØD between	L	TL	Boss ØA	Price each 1 to 5
ADG2	20 et 30	30	160	12	75,21 €
ADG3	31 et 40	30	160	15	97,57 €
ADG4	41 et 50	40	170	20	129,79 €
ADG5	51 et 60	40	170	25	194,91 €
ADG6	61 et 100	40	170	25	368,51 €

ØD GREATER THAN 100mm ON REQUEST

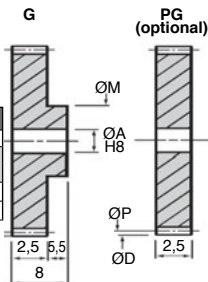
Dimensions in mm

MODULE 0.25

Stainless steel 303

- **Quality standard 9**
- Pressure angle 20°
- Material:
stainless steel (303) Z10CNF18.09
- Linear speed 300m/min

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass	fibre
Nm	0.050	0.230	0.024	0.019
kW	0.005	0.031	0.002	0.002



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G0.25-20	20	5,00	5,50	5,50	2	0,0004	0,0003	20,50 €	
G0.25-21	21	5,25	5,75	5,75	2	0,0004	0,0004	20,71 €	
G0.25-22	22	5,50	6,00	6,00	2	0,0005	0,0004	20,82 €	
G0.25-23	23	5,75	6,25	6,25	2	0,0005	0,0004	25,98 €	
G0.25-24	24	6,00	6,50	6,50	2	0,0005	0,0005	21,21 €	
G0.25-25	25	6,25	6,75	6,75	2	0,0006	0,0005	26,48 €	
G0.25-26	26	6,50	7,00	7,00	2	0,0006	0,0006	21,53 €	
G0.25-27	27	6,75	7,25	7,25	2	0,0007	0,0006	26,86 €	
G0.25-28	28	7,00	7,50	7,50	2	0,0007	0,0007	27,01 €	
G0.25-29	29	7,25	7,75	7,75	2	0,0008	0,0007	27,29 €	
G0.25-30	30	7,50	8,00	8,00	3	0,0008	0,0007	27,54 €	
G0.25-31	31	7,75	8,25	8,00	3	0,0009	0,0008	27,71 €	
G0.25-32	32	8,00	8,50	8,00	3	0,0010	0,0008	27,92 €	
G0.25-33	33	8,25	8,75	8,00	3	0,0010	0,0009	28,19 €	
G0.25-34	34	8,50	9,00	8,00	3	0,0011	0,0010	28,41 €	
G0.25-35	35	8,75	9,25	8,00	3	0,0012	0,0010	28,70 €	
G0.25-36	36	9,00	9,50	8,00	3	0,0012	0,0011	28,95 €	
G0.25-37	37	9,25	9,75	8,00	3	0,0013	0,0012	29,17 €	
G0.25-38	38	9,50	10,00	8,00	3	0,0014	0,0012	23,79 €	
G0.25-39	39	9,75	10,25	8,00	3	0,0014	0,0013	23,93 €	
G0.25-40	40	10,00	10,50	8,00	3	0,0015	0,0014	24,13 €	
G0.25-41	41	10,25	10,75	8,00	3	0,0016	0,0014	30,04 €	
G0.25-42	42	10,50	11,00	8,00	3	0,0017	0,0015	30,30 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G0.25-43	43	10,75	11,25	8,00	3	0,0017	0,0016	30,48 €	
G0.25-44	44	11,00	11,50	8,00	3	0,0018	0,0017	30,67 €	
G0.25-45	45	11,25	11,75	8,00	3	0,0019	0,0018	30,88 €	
G0.25-46	46	11,50	12,00	8,00	3	0,0020	0,0019	31,13 €	
G0.25-47	47	11,75	12,25	8,00	3	0,0021	0,0019	31,37 €	
G0.25-48	48	12,00	12,50	10,00	3	0,0022	0,0020	31,57 €	
G0.25-49	49	12,25	12,75	10,00	3	0,0023	0,0021	31,79 €	
G0.25-50	50	12,50	13,00	10,00	3	0,0023	0,0022	32,00 €	
G0.25-52	52	13,00	13,50	10,00	3	0,0025	0,0024	32,16 €	
G0.25-55	55	13,75	14,25	10,00	3	0,0028	0,0027	26,58 €	
G0.25-60	60	15,00	15,50	12,00	4	0,0034	0,0031	33,53 €	
G0.25-62	62	15,50	16,00	12,00	4	0,0036	0,0034	33,76 €	
G0.25-63	63	15,75	16,25	12,00	4	0,0037	0,0035	33,93 €	
G0.25-64	64	16,00	16,50	12,00	4	0,0038	0,0036	34,27 €	
G0.25-65	65	16,25	16,75	12,00	4	0,0040	0,0037	34,63 €	
G0.25-68	68	17,00	17,50	12,00	4	0,0043	0,0041	28,23 €	
G0.25-70	70	17,50	18,00	12,00	4	0,0046	0,0044	28,41 €	
G0.25-72	72	18,00	18,50	12,00	4	0,0049	0,0046	35,52 €	
G0.25-75	75	18,75	19,25	12,00	4	0,0053	0,0050	35,76 €	
G0.25-76	76	19,00	19,50	12,00	4	0,0054	0,0052	36,13 €	
G0.25-80	80	20,00	20,50	12,00	4	0,0060	0,0058	36,48 €	
G0.25-84	84	21,00	21,50	12,00	4	0,0066	0,0064	29,63 €	
G0.25-86	86	21,50	22,00	12,00	4	0,0069	0,0067	29,75 €	
G0.25-88	88	22,00	22,50	12,00	4	0,0073	0,0070	36,97 €	
G0.25-90	90	22,50	23,00	12,00	4	0,0076	0,0074	37,07 €	
G0.25-93	93	23,25	23,75	12,00	4	0,0081	0,0079	37,28 €	
G0.25-95	95	23,75	24,25	12,00	4	0,0085	0,0082	37,61 €	
G0.25-96	96	24,00	24,50	12,00	4	0,0087	0,0084	37,75 €	
G0.25-97	97	24,25	24,75	12,00	4	0,0088	0,0086	37,92 €	
G0.25-99	99	24,75	25,25	12,00	4	0,0092	0,0090	38,07 €	
G0.25-100	100	25,00	25,50	12,00	4	0,0094	0,0092	38,29 €	
G0.25-108	108	27,00	27,50	12,00	4	0,0110	0,0107	38,58 €	
G0.25-110	110	27,50	28,00	12,00	4	0,0114	0,0111	38,82 €	
G0.25-115	115	28,75	29,25	12,00	4	0,0124	0,0122	39,20 €	
G0.25-120	120	30,00	30,50	12,00	4	0,0135	0,0133	39,86 €	
G0.25-124	124	31,00	31,50	12,00	4	0,0144	0,0142	40,43 €	
G0.25-127	127	31,75	32,25	12,00	4	0,0151	0,0149	40,95 €	
G0.25-130	130	32,50	33,00	12,00	4	0,0159	0,0156	41,59 €	
G0.25-132	132	33,00	33,50	12,00	4	0,0164	0,0161	42,36 €	
G0.25-136	136	34,00	34,50	12,00	4	0,0174	0,0171	44,27 €	
G0.25-140	140	35,00	35,50	12,00	4	0,0184	0,0182	46,09 €	
G0.25-148	148	37,00	37,50	12,00	4	0,0206	0,0203	49,18 €	
G0.25-150	150	37,50	38,00	12,00	4	0,0211	0,0209	53,66 €	
G0.25-156	156	39,00	39,50	12,00	4	0,0229	0,0226	57,44 €	
G0.25-180	180	45,00	45,50	12,00	4	0,0304	0,0302	49,71 €	
G0.25-200	200	50,00	50,50	12,00	4	0,0376	0,0373	72,07 €	
G0.25-250	250	62,50	63,00	20,00	6	0,0587	0,0585	62,88 €	
↓ Gears available up to this size ↓									
G0.25-558	558	139,50	140,00	Dimensions: contact us				On request	

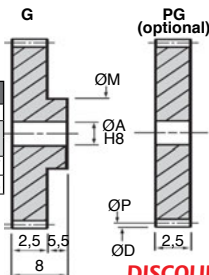
On request

MODULE 0.3

Stainless steel 303

- **Quality standard 9**
- Pressure angle 20°
- Material:
stainless steel (303)
Z10CNF18.09
- Linear speed 300m/min

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass	fibre
Nm	0.070	0.320	0.034	0.027
KW	0.008	0.031	0.003	0.003



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G0.3-20	20	6,00	6,60	6,60	2	0,0018	0,0005	15,99 €	On request
G0.3-21	21	6,30	6,90	6,90	2	0,0020	0,0005	16,27 €	
G0.3-22	22	6,60	7,20	7,20	2	0,0022	0,0006	16,52 €	
G0.3-23	23	6,90	7,50	7,50	2	0,0024	0,0007	16,65 €	
G0.3-24	24	7,20	7,80	7,80	2	0,0026	0,0007	16,82 €	
G0.3-25	25	7,50	8,10	8,10	2	0,0028	0,0008	17,11 €	
G0.3-26	26	7,80	8,40	8,40	3	0,0028	0,0008	17,31 €	
G0.3-27	27	8,10	8,70	8,70	3	0,0031	0,0009	17,48 €	
G0.3-28	28	8,40	9,00	9,00	3	0,0033	0,0009	17,65 €	
G0.3-29	29	8,70	9,30	9,30	3	0,0036	0,0010	17,93 €	
G0.3-30	30	9,00	9,60	8,00	3	0,0038	0,0011	18,16 €	
G0.3-31	31	9,30	9,90	8,00	3	0,0039	0,0012	18,40 €	
G0.3-32	32	9,60	10,20	8,00	3	0,0041	0,0012	18,48 €	
G0.3-33	33	9,90	10,50	8,00	3	0,0042	0,0013	18,74 €	
G0.3-34	34	10,20	10,80	8,00	3	0,0043	0,0014	18,89 €	
G0.3-35	35	10,50	11,10	8,00	3	0,0044	0,0015	19,05 €	
G0.3-36	36	10,80	11,40	10,00	3	0,0046	0,0016	19,14 €	
G0.3-37	37	11,10	11,70	10,00	3	0,0047	0,0017	19,28 €	
G0.3-38	38	11,40	12,00	10,00	3	0,0048	0,0018	19,60 €	
G0.3-39	39	11,70	12,30	10,00	3	0,0049	0,0019	19,79 €	
G0.3-40	40	12,00	12,60	10,00	3	0,0050	0,0020	19,91 €	
G0.3-41	41	12,30	12,90	10,00	3	0,0051	0,0021	20,05 €	
G0.3-42	42	12,60	13,20	10,00	3	0,0053	0,0023	20,30 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G PG		Price each 1 to 5 G PG	
G0.3-43	43	12,90	13,50	10,00	3	0,0054	0,0024	20,46 €	
G0.3-44	44	13,20	13,80	10,00	3	0,0055	0,0025	20,64 €	
G0.3-45	45	13,50	14,10	10,00	3	0,0056	0,0026	20,76 €	
G0.3-46	46	13,80	14,40	10,00	3	0,0057	0,0027	21,01 €	
G0.3-47	47	14,10	14,70	10,00	3	0,0059	0,0029	21,20 €	
G0.3-48	48	14,40	15,00	10,00	3	0,0060	0,0030	21,34 €	
G0.3-49	49	14,70	15,30	10,00	3	0,0061	0,0031	21,48 €	
G0.3-50	50	15,00	15,60	10,00	3	0,0063	0,0032	21,71 €	
G0.3-52	52	15,60	16,20	10,00	3	0,0065	0,0035	21,85 €	
G0.3-54	54	16,20	16,80	10,00	3	0,0068	0,0038	22,07 €	
G0.3-55	55	16,50	17,10	12,00	4	0,0081	0,0039	22,14 €	
G0.3-58	58	17,40	18,00	12,00	4	0,0085	0,0043	22,41 €	
G0.3-60	60	18,00	18,60	12,00	4	0,0089	0,0046	22,70 €	
G0.3-62	62	18,60	19,20	12,00	4	0,0092	0,0050	22,99 €	
G0.3-63	63	18,90	19,50	12,00	4	0,0094	0,0051	23,35 €	
G0.3-64	64	19,20	19,80	12,00	4	0,0095	0,0053	23,61 €	
G0.3-65	65	19,50	20,10	12,00	4	0,0097	0,0055	23,87 €	
G0.3-68	68	20,40	21,00	12,00	4	0,0102	0,0060	24,18 €	
G0.3-70	70	21,00	21,60	12,00	4	0,0106	0,0064	24,50 €	
G0.3-72	72	21,60	22,20	12,00	4	0,0110	0,0068	24,77 €	
G0.3-75	75	22,50	23,10	12,00	4	0,0116	0,0074	25,04 €	
G0.3-76	76	22,80	23,40	12,00	4	0,0018	0,0076	25,36 €	
G0.3-80	80	24,00	24,60	12,00	4	0,0126	0,0084	25,54 €	
G0.3-84	84	25,20	25,80	12,00	4	0,0135	0,0093	25,71 €	
G0.3-86	86	25,80	26,40	12,00	4	0,0140	0,0098	25,88 €	
G0.3-88	88	26,40	27,00	12,00	4	0,0145	0,0102	26,00 €	
G0.3-90	90	27,00	27,60	12,00	4	0,0149	0,0107	26,25 €	
G0.3-93	93	27,90	28,50	12,00	4	0,0157	0,0115	26,46 €	
G0.3-95	95	28,50	29,10	12,00	4	0,0162	0,0120	26,58 €	
G0.3-96	96	28,80	29,40	12,00	4	0,0165	0,0122	26,70 €	
G0.3-97	97	29,10	29,70	12,00	4	0,0167	0,0125	26,89 €	
G0.3-99	99	29,70	30,30	12,00	4	0,0172	0,0130	27,19 €	
G0.3-100	100	30,00	30,60	12,00	4	0,0175	0,0133	27,35 €	
G0.3-108	108	32,40	33,00	12,00	4	0,0198	0,0155	27,56 €	
G0.3-110	110	33,00	33,60	12,00	4	0,0204	0,0161	27,68 €	
G0.3-115	115	34,50	35,10	12,00	4	0,0219	0,0176	27,82 €	
G0.3-120	120	36,00	36,60	12,00	4	0,0235	0,0192	27,97 €	
G0.3-124	124	37,20	37,80	12,00	4	0,0248	0,0206	28,07 €	
G0.3-127	127	38,10	38,70	12,00	4	0,0258	0,0216	28,16 €	
G0.3-130	130	39,00	39,60	12,00	4	0,0268	0,0226	28,27 €	
G0.3-132	132	39,60	40,20	12,00	4	0,0276	0,0233	28,37 €	
G0.3-136	136	40,80	41,40	12,00	4	0,0290	0,0248	29,26 €	
G0.3-140	140	42,00	42,60	12,00	4	0,0305	0,0263	29,92 €	
G0.3-148	148	44,40	45,00	12,00	4	0,0336	0,0294	32,30 €	
G0.3-150	150	45,00	45,60	12,00	4	0,0344	0,0302	33,25 €	
G0.3-156	156	46,80	47,40	12,00	4	0,0369	0,0327	35,17 €	
G0.3-160	160	48,00	48,60	12,00	4	0,0386	0,0344	44,85 €	
G0.3-180	180	54,00	54,60	12,00	5	0,0478	0,0436	51,77 €	
G0.3-200	200	60,00	60,60	20,00	5	0,0581	0,0538	53,04 €	
G0.3-240	240	72,00	72,60	20,00	8	0,0819	0,0776	57,47 €	
↓ Gears available up to this size ↓									
G0.3-464	464	139,20	139,80	Dimensions: contact us				sur demande	

Dimensions in mm

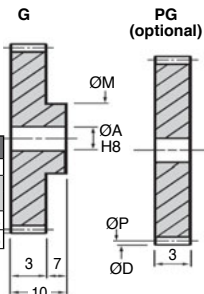
On request

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	fibre
Nm	0.147	0.698	0.073	0.058
kW	0.014	0.075	0.008	0.006



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G0.4-10	10	4,40	5,20	5,20	2	0,0012	0,0003	16,33 €	
G0.4-11	11	4,80	5,60	5,60	2	0,0015	0,0003	16,33 €	
G0.4-12	12	4,80	5,60	5,60	2	0,0015	0,0003	16,33 €	
G0.4-13	13	5,20	6,00	6,00	2	0,0018	0,0004	16,33 €	
G0.4-14	14	5,60	6,40	6,40	2	0,0020	0,0005	16,52 €	
G0.4-15	15	6,00	6,80	6,80	2	0,0024	0,0006	16,52 €	
G0.4-16	16	6,40	7,20	7,20	2	0,0027	0,0007	16,52 €	
G0.4-17	17	6,80	7,60	7,60	2	0,0030	0,0008	16,52 €	
G0.4-18	18	7,20	8,00	8,00	3	0,0031	0,0008	16,52 €	
G0.4-19	19	7,60	8,40	8,40	3	0,0035	0,0009	16,52 €	
G0.4-20	20	8,00	8,80	8,80	3	0,0039	0,0010	16,52 €	
G0.4-21	21	8,40	9,20	9,20	3	0,0043	0,0011	16,52 €	
G0.4-22	22	8,80	9,60	9,60	3	0,0047	0,0012	16,27 €	
G0.4-23	23	9,20	10,00	10,00	3	0,0052	0,0014	16,33 €	
G0.4-24	24	9,60	10,40	10,40	3	0,0057	0,0015	16,41 €	
G0.4-25	25	10,00	10,80	10,80	3	0,0062	0,0016	16,47 €	
G0.4-26	26	10,40	11,20	8,00	3	0,0041	0,0018	16,52 €	
G0.4-27	27	10,80	11,60	8,00	3	0,0043	0,0019	16,57 €	
G0.4-28	28	11,20	12,00	8,00	3	0,0044	0,0021	16,63 €	
G0.4-29	29	11,60	12,40	8,00	3	0,0046	0,0023	16,65 €	
G0.4-30	30	12,00	12,80	8,00	3	0,0047	0,0024	16,74 €	
G0.4-31	31	12,40	13,20	8,00	3	0,0049	0,0026	16,75 €	
G0.4-32	32	12,80	13,60	8,00	3	0,0051	0,0028	16,82 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5
						G	PG	G
G0.4-33	33	13,20	14,00	8,00	3	0,0053	0,0030	16,82 €
G0.4-34	34	13,60	14,40	8,00	3	0,0055	0,0032	16,98 €
G0.4-35	35	14,00	14,80	8,00	3	0,0057	0,0034	17,06 €
G0.4-36	36	14,40	15,20	8,00	3	0,0059	0,0036	17,06 €
G0.4-37	37	14,80	15,60	8,00	3	0,0061	0,0038	17,18 €
G0.4-38	38	15,20	16,00	8,00	3	0,0063	0,0040	17,27 €
G0.4-39	39	15,60	16,40	8,00	3	0,0065	0,0042	17,34 €
G0.4-40	40	16,00	16,80	12,00	4	0,0097	0,0043	17,47 €
G0.4-41	41	16,40	17,20	12,00	4	0,0099	0,0046	17,59 €
G0.4-42	42	16,80	17,60	12,00	4	0,0102	0,0048	17,68 €
G0.4-43	43	17,20	18,00	12,00	4	0,0104	0,0050	17,86 €
G0.4-44	44	17,60	18,40	12,00	4	0,0107	0,0053	17,98 €
G0.4-45	45	18,00	18,80	12,00	4	0,0109	0,0056	18,06 €
G0.4-46	46	18,40	19,20	12,00	4	0,0112	0,0058	18,16 €
G0.4-47	47	18,80	19,60	12,00	4	0,0115	0,0061	18,26 €
G0.4-48	48	19,20	20,00	12,00	4	0,0117	0,0064	18,40 €
G0.4-49	49	19,60	20,40	12,00	4	0,0120	0,0066	18,48 €
G0.4-50	50	20,00	20,80	12,00	4	0,0123	0,0069	18,72 €
G0.4-51	51	20,40	21,20	12,00	4	0,0126	0,0072	18,83 €
G0.4-52	52	20,80	21,60	12,00	4	0,0129	0,0075	18,89 €
G0.4-53	53	21,20	22,00	12,00	4	0,0132	0,0078	19,02 €
G0.4-54	54	21,60	22,40	12,00	4	0,0135	0,0081	19,13 €
G0.4-55	55	22,00	22,80	12,00	4	0,0138	0,0084	19,14 €
G0.4-56	56	22,40	23,20	12,00	4	0,0141	0,0088	19,30 €
G0.4-57	57	22,80	23,60	12,00	4	0,0145	0,0091	19,56 €
G0.4-58	58	23,20	24,00	12,00	4	0,0148	0,0094	19,67 €
G0.4-59	59	23,60	24,40	12,00	4	0,0151	0,0098	19,88 €
G0.4-60	60	24,00	24,80	12,00	4	0,0155	0,0101	20,05 €
G0.4-61	61	24,40	25,20	12,00	4	0,0158	0,0104	20,22 €
G0.4-62	62	24,80	25,60	12,00	4	0,0162	0,0108	20,43 €
G0.4-63	63	25,20	26,00	12,00	4	0,0165	0,0112	20,58 €
G0.4-64	64	25,60	26,40	12,00	4	0,0169	0,0115	20,72 €
G0.4-65	65	26,00	26,80	12,00	4	0,0173	0,0119	21,01 €
G0.4-68	68	27,20	28,00	12,00	4	0,0184	0,0131	21,20 €
G0.4-70	70	28,00	28,80	12,00	4	0,0192	0,0138	21,34 €
G0.4-72	72	28,80	29,60	12,00	4	0,0201	0,0147	21,45 €
G0.4-75	75	30,00	30,80	12,00	4	0,0213	0,0159	21,53 €
G0.4-77	77	30,80	31,60	12,00	4	0,0222	0,0168	21,71 €
G0.4-80	80	32,00	32,80	12,00	5	0,0230	0,0180	21,90 €
G0.4-84	84	33,60	34,40	12,00	5	0,0249	0,0199	22,34 €
G0.4-86	86	34,40	35,20	12,00	5	0,0259	0,0209	22,71 €
G0.4-88	88	35,20	36,00	12,00	5	0,0269	0,0219	23,14 €
G0.4-90	90	36,00	36,80	12,00	5	0,0279	0,0229	23,61 €
G0.4-96	96	38,40	39,20	12,00	5	0,0311	0,0261	24,07 €
G0.4-100	100	40,00	40,80	12,00	5	0,0334	0,0284	24,43 €
G0.4-120	120	48,00	48,80	12,00	5	0,0461	0,0411	24,86 €
G0.4-140	140	56,00	56,80	12,00	5	0,0611	0,0561	27,01 €
G0.4-150	150	60,00	60,80	12,00	5	0,0695	0,0645	32,09 €
G0.4-180	180	72,00	72,80	15,00	6	0,1008	0,0928	39,13 €
↓ Gears available up to this size ↓								
G0.4-348	348	139,20	140,00	Dimensions: contact us				On request

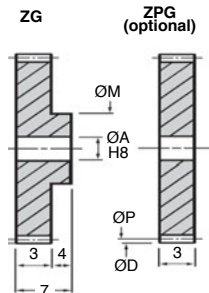
On request

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	Outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.4-10	10	4,40	5,20	5,20	1,50	0,0002	0,0001	7,22 €	
ZG0.4-11	11	4,80	5,60	5,60	1,50	0,0002	0,0001	7,23 €	
ZG0.4-12	12	4,80	5,60	5,60	1,50	0,0002	0,0001	7,24 €	
ZG0.4-13	13	5,20	6,00	6,00	1,50	0,0002	0,0001	7,26 €	
ZG0.4-14	14	5,60	6,40	6,40	2,00	0,0002	0,0001	7,28 €	
ZG0.4-15	15	6,00	6,80	6,80	2,00	0,0002	0,0001	7,31 €	
ZG0.4-16	16	6,40	7,20	7,00	2,00	0,0002	0,0001	7,33 €	
ZG0.4-17	17	6,80	7,60	7,00	2,00	0,0002	0,0001	7,36 €	
ZG0.4-18	18	7,20	8,00	7,00	2,00	0,0003	0,0001	8,22 €	
ZG0.4-19	19	7,60	8,40	7,00	2,00	0,0003	0,0002	8,22 €	
ZG0.4-20	20	8,00	8,80	7,00	2,00	0,0004	0,0002	8,22 €	
ZG0.4-21	21	8,40	9,20	7,00	2,00	0,0004	0,0002	8,22 €	
ZG0.4-22	22	8,80	9,60	7,00	2,00	0,0004	0,0002	8,14 €	
ZG0.4-23	23	9,20	10,00	9,00	2,00	0,0006	0,0002	8,14 €	
ZG0.4-24	24	9,60	10,40	9,00	2,00	0,0006	0,0003	8,14 €	
ZG0.4-25	25	10,00	10,80	9,00	2,00	0,0006	0,0003	8,22 €	
ZG0.4-26	26	10,40	11,20	9,00	2,00	0,0006	0,0003	8,22 €	
ZG0.4-27	27	10,80	11,60	9,00	2,00	0,0007	0,0003	8,32 €	
ZG0.4-28	28	11,20	12,00	11,00	3,00	0,0008	0,0004	8,32 €	
ZG0.4-29	29	11,60	12,40	11,00	3,00	0,0008	0,0004	8,32 €	
ZG0.4-30	30	12,00	12,80	11,00	3,00	0,0009	0,0004	8,32 €	
ZG0.4-31	31	12,40	13,20	11,00	3,00	0,0009	0,0004	8,36 €	
ZG0.4-32	32	12,80	13,60	11,00	3,00	0,0009	0,0005	8,36 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.4-33	33	13,20	14,00	11	3,00	0,0010	0,0005	8,36 €	
ZG0.4-34	34	13,60	14,40	11	3,00	0,0010	0,0005	8,48 €	
ZG0.4-35	35	14,00	14,80	11	3,00	0,0010	0,0006	8,48 €	
ZG0.4-36	36	14,40	15,20	11	3,00	0,0011	0,0006	8,48 €	
ZG0.4-37	37	14,80	15,60	11	3,00	0,0011	0,0006	8,58 €	
ZG0.4-38	38	15,20	16,00	11	3,00	0,0011	0,0007	8,71 €	
ZG0.4-39	39	15,60	16,40	11	3,00	0,0012	0,0007	8,71 €	
ZG0.4-40	40	16,00	16,80	11	3,00	0,0012	0,0007	8,77 €	
ZG0.4-41	41	16,40	17,20	11	3,00	0,0012	0,0008	8,77 €	
ZG0.4-42	42	16,80	17,60	11	3,00	0,0013	0,0008	8,83 €	
ZG0.4-43	43	17,20	18,00	11	3,00	0,0013	0,0009	8,93 €	
ZG0.4-44	44	17,60	18,40	11	3,00	0,0014	0,0009	8,97 €	
ZG0.4-45	45	18,00	18,80	11	3,00	0,0014	0,0010	8,97 €	
ZG0.4-46	46	18,40	19,20	11	3,00	0,0015	0,0010	9,13 €	
ZG0.4-47	47	18,80	19,60	11	3,00	0,0015	0,0010	9,20 €	
ZG0.4-48	48	19,20	20,00	11	3,00	0,0015	0,0011	9,20 €	
ZG0.4-49	49	19,60	20,40	14	4,00	0,0018	0,0011	9,27 €	
ZG0.4-50	50	20,00	20,80	14	4,00	0,0019	0,0012	9,30 €	
ZG0.4-51	51	20,40	21,20	14	4,00	0,0019	0,0012	9,38 €	
ZG0.4-52	52	20,80	21,60	14	4,00	0,0020	0,0013	9,38 €	
ZG0.4-53	53	21,20	22,00	14	4,00	0,0020	0,0013	9,53 €	
ZG0.4-54	54	21,60	22,40	14	4,00	0,0021	0,0014	9,56 €	
ZG0.4-55	55	22,00	22,80	14	4,00	0,0021	0,0014	9,56 €	
ZG0.4-56	56	22,40	23,20	14	4,00	0,0022	0,0015	9,70 €	
ZG0.4-57	57	22,80	23,60	14	4,00	0,0023	0,0015	9,80 €	
ZG0.4-58	58	23,20	24,00	14	4,00	0,0023	0,0016	9,88 €	
ZG0.4-59	59	23,60	24,40	14	4,00	0,0024	0,0016	9,95 €	
ZG0.4-60	60	24,00	24,80	14	4,00	0,0024	0,0017	10,01 €	
ZG0.4-61	61	24,40	25,20	14	4,00	0,0025	0,0018	10,13 €	
ZG0.4-62	62	24,80	25,60	14	4,00	0,0025	0,0018	10,18 €	
ZG0.4-63	63	25,20	26,00	14	4,00	0,0026	0,0019	10,33 €	
ZG0.4-64	64	25,60	26,40	14	4,00	0,0027	0,0019	10,37 €	
ZG0.4-65	65	26,00	26,80	14	4,00	0,0027	0,0020	10,53 €	
ZG0.4-68	68	27,20	28,00	14	4,00	0,0029	0,0022	10,61 €	
ZG0.4-70	70	28,00	28,80	14	4,00	0,0031	0,0023	10,72 €	
ZG0.4-72	72	28,80	29,60	14	4,00	0,0032	0,0025	10,72 €	
ZG0.4-75	75	30,00	30,80	14	4,00	0,0034	0,0027	11,86 €	
ZG0.4-77	77	30,80	31,60	14	4,00	0,0036	0,0028	11,98 €	
ZG0.4-80	80	32,00	32,80	14	4,00	0,0038	0,0031	11,98 €	
ZG0.4-84	84	33,60	34,40	14	4,00	0,0041	0,0034	12,19 €	
ZG0.4-86	86	34,40	35,20	14	4,00	0,0043	0,0035	12,30 €	
ZG0.4-88	88	35,20	36,00	14	4,00	0,0044	0,0037	12,44 €	
ZG0.4-90	90	36,00	36,80	14	4,00	0,0046	0,0039	12,63 €	
ZG0.4-96	96	38,40	39,20	14	4,00	0,0051	0,0044	12,92 €	
ZG0.4-100	100	40,00	40,80	14	4,00	0,0055	0,0048	14,95 €	
ZG0.4-120	120	48,00	48,80	14	4,00	0,0077	0,0069	15,19 €	
ZG0.4-140	140	56,00	56,80	14	4,00	0,0102	0,0095	16,90 €	
ZG0.4-150	150	60,00	60,80	20	6,00	0,0116	0,0109	18,89 €	
ZG0.4-180	180	72,00	72,80	20	6,00	0,0164	0,0157	20,89 €	
↓ Gears available up to this size ↓									
ZG0.4-348	348	139,20	140,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Steel spur gear



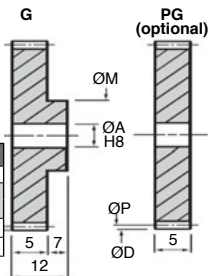
Module 0.5

Steel 20NCD2



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

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2		
	Z10CNF18.09	hardened	brass	fibre
Nm	0.391	1.850	0.195	0.156
kW	0.041	0.194	0.021	0.016



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 PG
G0.5-10	10	5,50	6,50	6,50	3	-	0,0020	0,0006	17,06 €
G0.5-11	11	6,00	7,00	7,00	3	-	0,0025	0,0008	17,06 €
G0.5-12	12	6,00	7,00	7,00	3	✓	0,0025	0,0008	17,06 €
G0.5-13	13	6,50	7,50	7,50	3	-	0,0030	0,0010	17,27 €
G0.5-14	14	7,00	8,00	8,00	3	✓	0,0035	0,0012	17,47 €
G0.5-15	15	7,50	8,50	8,50	3	✓	0,0037	0,0014	17,68 €
G0.5-16	16	8,00	9,00	8,50	4	✓	0,0038	0,0014	17,98 €
G0.5-17	17	8,50	9,50	8,50	4	-	0,0041	0,0017	18,14 €
G0.5-18	18	9,00	10,00	8,50	4	✓	0,0043	0,0020	18,26 €
G0.5-19	19	9,50	10,50	8,50	4	-	0,0046	0,0022	18,48 €
G0.5-20	20	10,00	11,00	8,50	4	✓	0,0049	0,0025	18,83 €
G0.5-21	21	10,50	11,50	8,50	4	-	0,0052	0,0028	19,02 €
G0.5-22	22	11,00	12,00	8,50	4	-	0,0055	0,0032	19,23 €
G0.5-23	23	11,50	12,50	8,50	4	✓	0,0059	0,0035	19,48 €
G0.5-24	24	12,00	13,00	10,00	5	✓	0,0067	0,0036	19,67 €
G0.5-25	25	12,50	13,50	10,00	5	✓	0,0071	0,0039	19,91 €
G0.5-26	26	13,00	14,00	10,00	5	-	0,0075	0,0043	20,16 €
G0.5-27	27	13,50	14,50	10,00	5	-	0,0079	0,0047	20,43 €
G0.5-28	28	14,00	15,00	10,00	5	-	0,0083	0,0051	20,72 €
G0.5-29	29	14,50	15,50	10,00	5	-	0,0087	0,0056	20,72 €
G0.5-30	30	15,00	16,00	10,00	5	✓	0,0092	0,0060	20,82 €
G0.5-31	31	15,50	16,50	10,00	5	-	0,0096	0,0065	21,09 €
G0.5-32	32	16,00	17,00	10,00	5	✓	0,0101	0,0069	21,34 €
G0.5-33	33	16,50	17,50	10,00	5	-	0,0106	0,0074	21,53 €
G0.5-34	34	17,00	18,00	10,00	5	-	0,0111	0,0079	21,74 €
G0.5-35	35	17,50	18,50	10,00	5	✓	0,0116	0,0085	22,07 €

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G PG		Price each 1 to 5 G PG
G0.5-36	36	18,00	19,00	10,00	5	✓	0,0121	0,0090	22,29 €
G0.5-37	37	18,50	19,50	10,00	5	-	0,0127	0,0095	22,53 €
G0.5-38	38	19,00	20,00	10,00	5	-	0,0133	0,0101	22,70 €
G0.5-39	39	19,50	20,50	10,00	5	-	0,0138	0,0107	22,97 €
G0.5-40	40	20,00	21,00	10,00	5	✓	0,0144	0,0113	23,19 €
G0.5-41	41	20,50	21,50	10,00	5	-	0,0150	0,0119	23,44 €
G0.5-42	42	21,00	22,00	10,00	5	-	0,0157	0,0125	23,69 €
G0.5-43	43	21,50	22,50	10,00	5	-	0,0163	0,0131	23,87 €
G0.5-44	44	22,00	23,00	10,00	5	-	0,0169	0,0138	24,13 €
G0.5-45	45	22,50	23,50	10,00	5	-	0,0176	0,0145	24,36 €
G0.5-46	46	23,00	24,00	10,00	5	-	0,0183	0,0151	24,62 €
G0.5-47	47	23,50	24,50	10,00	5	-	0,0190	0,0158	24,82 €
G0.5-48	48	24,00	25,00	10,00	5	-	0,0197	0,0166	25,36 €
G0.5-49	49	24,50	25,50	10,00	5	✓	0,0204	0,0173	25,36 €
G0.5-50	50	25,00	26,00	12,00	6	✓	0,0222	0,0177	25,61 €
G0.5-51	51	25,50	26,50	12,00	6	-	0,0230	0,0185	25,79 €
G0.5-52	52	26,00	27,00	12,00	6	-	0,0238	0,0192	25,92 €
G0.5-53	53	26,50	27,50	12,00	6	-	0,0246	0,0200	26,17 €
G0.5-54	54	27,00	28,00	12,00	6	-	0,0254	0,0208	26,28 €
G0.5-55	55	27,50	28,50	12,00	6	-	0,0262	0,0216	26,48 €
G0.5-56	56	28,00	29,00	12,00	6	-	0,0270	0,0225	26,64 €
G0.5-57	57	28,50	29,50	12,00	6	-	0,0279	0,0233	26,83 €
G0.5-58	58	29,00	30,00	12,00	6	-	0,0287	0,0242	27,01 €
G0.5-59	59	29,50	30,50	12,00	6	-	0,0296	0,0251	27,19 €
G0.5-60	60	30,00	31,00	12,00	6	✓	0,0305	0,0260	27,35 €
G0.5-61	61	30,50	31,50	12,00	6	-	0,0314	0,0269	27,47 €
G0.5-62	62	31,00	32,00	12,00	6	-	0,0323	0,0278	27,68 €
G0.5-64	64	32,00	33,00	12,00	6	-	0,0342	0,0297	28,07 €
G0.5-65	65	32,50	33,50	12,00	6	-	0,0352	0,0307	28,27 €
G0.5-68	68	34,00	35,00	12,00	6	-	0,0382	0,0337	28,44 €
G0.5-70	70	35,00	36,00	12,00	6	✓	0,0403	0,0357	28,78 €
G0.5-72	72	36,00	37,00	12,00	6	✓	0,0424	0,0379	29,05 €
G0.5-75	75	37,50	38,50	12,00	6	-	0,0457	0,0412	29,29 €
G0.5-77	77	38,50	39,50	12,00	6	-	0,0480	0,0435	29,63 €
G0.5-80	80	40,00	41,00	12,00	6	✓	0,0515	0,0470	29,92 €
G0.5-84	84	42,00	43,00	12,00	6	-	0,0565	0,0519	30,14 €
G0.5-86	86	43,00	44,00	12,00	6	-	0,0590	0,0545	30,53 €
G0.5-88	88	44,00	45,00	12,00	6	-	0,0616	0,0571	30,76 €
G0.5-90	90	45,00	46,00	12,00	6	✓	0,0643	0,0598	31,13 €
G0.5-96	96	48,00	49,00	12,00	6	-	0,0727	0,0682	31,41 €
G0.5-100	100	50,00	51,00	12,00	6	✓	0,0786	0,0740	31,52 €
G0.5-120	120	60,00	61,00	18,00	6	✓	0,1116	0,1071	38,16 €
G0.5-140	140	70,00	71,00	18,00	6	-	0,1507	0,1462	45,60 €
G0.5-150	150	75,00	76,00	18,00	6	-	0,1725	0,1679	49,57 €
G0.5-180	180	90,00	91,00	20,00	8	-	0,2469	0,2423	56,08 €
G0.5-200	200	100,00	101,00	20,00	8	-	0,3040	0,2994	61,25 €
G0.5-220	220	110,00	111,00	20,00	10	-	0,3671	0,3625	66,78 €
G0.5-250	250	125,00	126,00	20,00	10	-	0,4730	0,4684	73,40 €

On request

↓ **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

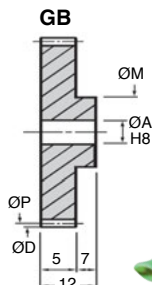
MODULE 0.5

Brass CuZn40Pb3



Torque and power indication		
For 50 teeth at 1000 rpm		
	20NCD2	Brass
Nm	0.391	0.195
kW	0.041	0.021

- Quality standard 9
- Pressure angle 20°



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock	Price each 1 to 5
GB0.5-10	10	5,50	6,50	6,50	3	-	11,20 €
GB0.5-12	12	6,00	7,00	7,00	3	✓	11,75 €
GB0.5-15	15	7,50	8,50	8,50	3	✓	12,31 €
GB0.5-18	18	9,00	10,00	8,50	4	-	12,91 €
GB0.5-20	20	10,00	11,00	8,50	4	✓	13,45 €
GB0.5-22	22	11,00	12,00	8,50	4	-	14,01 €
GB0.5-25	25	12,50	13,50	10,00	5	✓	15,42 €
GB0.5-28	28	14,00	15,00	10,00	5	✓	16,54 €
GB0.5-30	30	15,00	16,00	10,00	5	✓	16,81 €
GB0.5-35	35	17,50	18,50	10,00	5	-	17,38 €
GB0.5-40	40	20,00	21,00	10,00	5	✓	18,51 €
GB0.5-45	45	22,50	23,50	10,00	5	-	20,19 €
GB0.5-50	50	25,00	26,00	12,00	6	✓	22,44 €
GB0.5-55	55	27,50	28,50	12,00	6	-	23,56 €
GB0.5-60	60	30,00	31,00	12,00	6	✓	24,70 €
GB0.5-70	70	35,00	36,00	12,00	6	-	28,07 €
GB0.5-80	80	40,00	41,00	12,00	6	✓	36,49 €
GB0.5-90	90	45,00	46,00	12,00	6	-	39,29 €
GB0.5-100	100	50,00	51,00	12,00	6	✓	40,99 €
GB0.5-120	120	60,00	61,00	18,00	6	✓	53,37 €
GB0.5-140	140	70,00	71,00	18,00	6	-	101,14 €
GB0.5-150	150	75,00	76,00	18,00	6	-	106,77 €
GB0.5-180	180	90,00	91,00	20,00	8	-	185,44 €
↓ Gears available up to this size ↓							
GB0.5-278	278	139,00	140,00	Dimensions: contact us		On request	

Dimensions in mm

304L stainless steel

Module

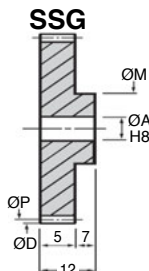
0.5



- 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	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG0.5-12-304L	12	6	7	7	3	22,77 €
SSG0.5-15-304L	15	7,5	8,5	8,5	3	23,58 €
SSG0.5-16-304L	16	8	9	8,5	4	19,57 €
SSG0.5-18-304L	18	9	10	8,5	4	24,27 €
SSG0.5-20-304L	20	10	11	8,5	4	25,01 €
SSG0.5-22-304L	22	11	12	8,5	4	25,61 €
SSG0.5-24-304L	24	12	13	10	5	26,27 €
SSG0.5-25-304L	25	12,5	13,5	10	5	26,54 €
SSG0.5-26-304L	26	13	14	10	5	26,89 €
SSG0.5-28-304L	28	14	15	10	5	27,61 €
SSG0.5-30-304L	30	15	16	10	5	27,77 €
SSG0.5-32-304L	32	16	17	10	5	28,43 €
SSG0.5-36-304L	36	18	19	10	5	29,71 €
SSG0.5-40-304L	40	20	21	10	5	30,91 €
SSG0.5-44-304L	44	22	23	10	5	32,18 €
SSG0.5-48-304L	48	24	25	10	5	33,76 €
SSG0.5-50-304L	50	25	26	12	6	34,09 €
SSG0.5-54-304L	54	27	28	12	6	35,00 €
SSG0.5-56-304L	56	28	29	12	6	35,52 €
SSG0.5-60-304L	60	30	31	12	6	36,45 €
SSG0.5-64-304L	64	32	33	12	6	39,96 €
SSG0.5-70-304L	70	35	36	12	6	40,93 €
SSG0.5-80-304L	80	40	41	12	6	42,54 €



Gears available up to this size



SSG0.5-278-304L	278	139	140	Dimensions: contact us	on request
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*Depending on availability - Dimensions in mm

Plastic spur gear



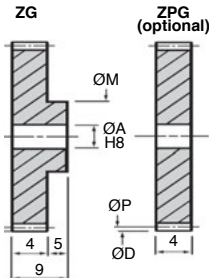
Module 0.5

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	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) ZG	Weight (kg) ZPG	Price each ZG	Price each 1 to 5 ZPG
ZG0.5-10	10	5,50	6,50	6,5	2	-	0,0003	0,0001	7,80 €	
ZG0.5-11	11	6,00	7,00	7	2	-	0,0003	0,0001	7,80 €	
ZG0.5-12	12	6,00	7,00	7	2	✓	0,0003	0,0001	8,83 €	
ZG0.5-13	13	6,50	7,50	7	2	-	0,0004	0,0002	8,83 €	
ZG0.5-14	14	7,00	8,00	7	2	-	0,0004	0,0002	7,91 €	
ZG0.5-15	15	7,50	8,50	7	2	✓	0,0004	0,0002	8,83 €	
ZG0.5-16	16	8,00	9,00	7	2	✓	0,0005	0,0002	7,87 €	
ZG0.5-17	17	8,50	9,50	8	2	-	0,0006	0,0003	9,13 €	
ZG0.5-18	18	9,00	10,00	8	2	-	0,0006	0,0003	9,20 €	
ZG0.5-19	19	9,50	10,50	9	3	-	0,0007	0,0003	9,27 €	
ZG0.5-20	20	10,00	11,00	9	3	✓	0,0007	0,0004	9,38 €	
ZG0.5-21	21	10,50	11,50	9	3	-	0,0008	0,0004	9,53 €	
ZG0.5-22	22	11,00	12,00	9	3	-	0,0008	0,0005	9,56 €	
ZG0.5-23	23	11,50	12,50	10	3	-	0,0010	0,0005	9,80 €	
ZG0.5-24	24	12,00	13,00	10	3	✓	0,0010	0,0005	9,88 €	
ZG0.5-25	25	12,50	13,50	10	3	✓	0,0011	0,0006	9,95 €	
ZG0.5-26	26	13,00	14,00	10	3	✓	0,0011	0,0006	10,13 €	
ZG0.5-27	27	13,50	14,50	10	3	-	0,0012	0,0007	10,18 €	
ZG0.5-28	28	14,00	15,00	10	3	✓	0,0012	0,0008	10,37 €	
ZG0.5-29	29	14,50	15,50	10	3	-	0,0013	0,0008	10,37 €	
ZG0.5-30	30	15,00	16,00	12	4	✓	0,0015	0,0008	10,43 €	
ZG0.5-31	31	15,50	16,50	12	4	-	0,0016	0,0009	10,53 €	
ZG0.5-32	32	16,00	17,00	12	4	✓	0,0016	0,0010	10,72 €	
ZG0.5-33	33	16,50	17,50	12	4	-	0,0017	0,0010	10,76 €	

On request

*Depending on availability- Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) ZG ZPG		Price each 1 to 5 ZG ZPG
ZG0.5-34	34	17,00	18,00	12	4	✓	0,0017	0,0011	10,79 €
ZG0.5-35	35	17,50	18,50	12	4	✓	0,0018	0,0012	11,03 €
ZG0.5-36	36	18,00	19,00	12	4	✓	0,0019	0,0012	11,14 €
ZG0.5-40	40	20,00	21,00	12	4	✓	0,0022	0,0016	11,62 €
ZG0.5-41	41	20,50	21,50	12	4	-	0,0023	0,0016	11,70 €
ZG0.5-42	42	21,00	22,00	12	4	-	0,0024	0,0017	11,86 €
ZG0.5-43	43	21,50	22,50	12	4	-	0,0024	0,0018	11,98 €
ZG0.5-44	44	22,00	23,00	12	4	-	0,0025	0,0019	12,19 €
ZG0.5-45	45	22,50	23,50	12	4	✓	0,0026	0,0020	12,22 €
ZG0.5-46	46	23,00	24,00	12	4	-	0,0027	0,0021	12,30 €
ZG0.5-47	47	23,50	24,50	12	4	-	0,0028	0,0022	12,44 €
ZG0.5-48	48	24,00	25,00	12	4	-	0,0029	0,0023	12,77 €
ZG0.5-49	49	24,50	25,50	12	4	-	0,0030	0,0024	12,77 €
ZG0.5-50	50	25,00	26,00	12	4	✓	0,0031	0,0025	12,84 €
ZG0.5-51	51	25,50	26,50	12	4	✓	0,0032	0,0026	12,92 €
ZG0.5-52	52	26,00	27,00	12	4	-	0,0033	0,0027	12,96 €
ZG0.5-53	53	26,50	27,50	12	4	-	0,0034	0,0028	13,04 €
ZG0.5-54	54	27,00	28,00	14	4	-	0,0038	0,0029	13,18 €
ZG0.5-55	55	27,50	28,50	14	4	-	0,0039	0,0030	13,24 €
ZG0.5-56	56	28,00	29,00	14	4	✓	0,0040	0,0031	13,37 €
ZG0.5-57	57	28,50	29,50	14	4	-	0,0041	0,0032	13,44 €
ZG0.5-58	58	29,00	30,00	14	4	-	0,0042	0,0033	14,95 €
ZG0.5-59	59	29,50	30,50	14	4	-	0,0044	0,0035	15,01 €
ZG0.5-60	60	30,00	31,00	14	4	✓	0,0045	0,0036	15,09 €
ZG0.5-61	61	30,50	31,50	14	4	-	0,0046	0,0037	15,19 €
ZG0.5-62	62	31,00	32,00	14	4	-	0,0047	0,0038	15,25 €
ZG0.5-63	63	31,50	32,50	14	4	-	0,0049	0,0039	15,36 €
ZG0.5-64	64	32,00	33,00	14	4	-	0,0050	0,0041	15,57 €
ZG0.5-65	65	32,50	33,50	14	4	✓	0,0051	0,0042	15,66 €
ZG0.5-68	68	34,00	35,00	14	4	-	0,0055	0,0046	15,69 €
ZG0.5-70	70	35,00	36,00	14	4	✓	0,0058	0,0049	15,86 €
ZG0.5-72	72	36,00	37,00	14	4	✓	0,0061	0,0052	16,02 €
ZG0.5-75	75	37,50	38,50	14	4	-	0,0065	0,0056	16,20 €
ZG0.5-77	77	38,50	39,50	14	4	-	0,0068	0,0059	16,44 €
ZG0.5-80	80	40,00	41,00	16	5	✓	0,0075	0,0064	18,72 €
ZG0.5-84	84	42,00	43,00	16	5	-	0,0082	0,0070	18,89 €
ZG0.5-86	86	43,00	44,00	16	5	-	0,0085	0,0074	19,23 €
ZG0.5-88	88	44,00	45,00	16	5	-	0,0089	0,0077	19,32 €
ZG0.5-90	90	45,00	46,00	16	5	✓	0,0092	0,0081	19,48 €
ZG0.5-96	96	48,00	49,00	16	5	-	0,0104	0,0092	19,67 €
ZG0.5-100	100	50,00	51,00	16	5	✓	0,0112	0,0100	23,87 €
ZG0.5-120	120	60,00	61,00	16	5	✓	0,0156	0,0144	32,64 €
ZG0.5-150	150	75,00	76,00	20	8	✓	0,0238	0,0226	45,01 €
ZG0.5-180	180	90,00	91,00	20	8	-	0,0338	0,0326	56,58 €
ZG0.5-200	200	100,00	101,00	30	10	-	0,0415	0,0403	45,96 €
ZG0.5-220	220	110,00	111,00	30	10	-	0,0499	0,0488	45,96 €
ZG0.5-250	250	125,00	126,00	50	12	-	0,0642	0,0630	56,58 €
↓ 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

On request

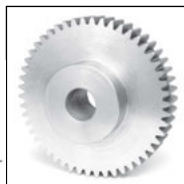
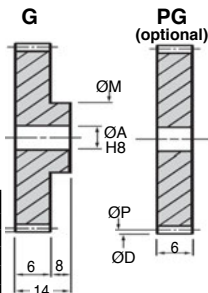


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Option

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass	fibre
Nm	0.630	2.910	0.315	0.240
kW	0.067	0.306	0.033	0.022



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G PG		Stock*	Price each G PG	1 to 5 PG
G0.6-10	10	6,60	7,80	7,80	3	0,004	0,001	-	17,93 €	On request
G0.6-12	12	7,80	9,00	9,00	3	0,005	0,002	✓	17,93 €	
G0.6-14	14	8,40	9,60	9,60	4	0,006	0,002	-	17,93 €	
G0.6-16	16	9,60	10,80	10,80	4	0,008	0,003	✓	18,36 €	
G0.6-18	18	10,80	12,00	12,00	4	0,010	0,004	✓	19,14 €	
G0.6-20	20	12,00	13,20	12,00	4	0,011	0,005	✓	20,25 €	
G0.6-22	22	13,20	14,40	12,00	4	0,012	0,006	-	20,96 €	
G0.6-24	24	14,40	15,60	12,00	4	0,013	0,007	✓	21,13 €	
G0.6-28	28	16,80	18,00	12,00	4	0,016	0,010	-	21,98 €	
G0.6-29	29	17,40	18,60	12,00	4	0,016	0,010	-	22,25 €	
G0.6-35	35	21,00	22,20	15,00	5	0,025	0,015	-	23,11 €	
G0.6-40	40	24,00	25,20	15,00	5	0,029	0,020	✓	23,37 €	
G0.6-50	50	30,00	31,60	20,00	6	0,049	0,030	-	23,79 €	
G0.6-55	55	33,00	34,20	20,00	6	0,055	0,038	-	24,08 €	
G0.6-60	60	36,00	37,20	20,00	6	0,063	0,045	-	24,50 €	
G0.6-63	63	37,80	39,00	20,00	6	0,068	0,050	-	24,82 €	
G0.6-80	80	48,00	49,20	20,00	6	0,099	0,082	-	26,25 €	
G0.6-84	84	50,40	51,60	30,00	8	0,129	0,089	-	26,89 €	
G0.6-120	120	72,00	73,20	30,00	8	0,225	0,185	-	40,94 €	
G0.6-150	150	90,00	91,20	30,00	8	0,330	0,290	-	54,48 €	
↓ Gears available up to this size										
G0.6-231	231	138,60	139,80	Dimensions: contact us					On request	

*Depending on availability - Dimensions in mm

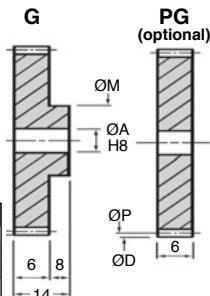


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Option

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass	fibre
Nm	1	5	0.54	0.450
kW	0.104	0.522	0.06	0.045



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Stock*	Price each 1 to 5 G	Price each 1 to 5 PG
G0.7-9	9	7,00	8,40	8,40	4	0,004	0,003	-	19,14 €	19,14 €
G0.7-10	10	7,70	9,10	9,10	4	0,005	0,003	✓	19,14 €	19,14 €
G0.7-11	11	8,40	9,80	9,80	4	0,006	0,004	-	19,14 €	19,14 €
G0.7-12	12	8,40	9,80	9,80	5	0,006	0,005	✓	19,14 €	19,14 €
G0.7-13	13	9,10	10,50	10,50	5	0,007	0,005	-	19,66 €	19,66 €
G0.7-15	15	10,50	11,90	11,90	5	0,009	0,006	✓	20,54 €	20,54 €
G0.7-18	18	12,60	14,00	12,00	5	0,011	0,008	-	22,14 €	22,14 €
G0.7-20	20	14,00	15,40	12,00	5	0,012	0,009	-	22,62 €	22,62 €
G0.7-24	24	16,80	18,20	12,00	5	0,015	0,012	✓	23,53 €	23,53 €
G0.7-26	26	18,20	19,60	12,00	5	0,017	0,014	-	24,05 €	24,05 €
G0.7-28	28	19,60	21,00	12,00	5	0,019	0,016	-	24,36 €	24,36 €
G0.7-30	30	21,00	22,40	12,00	5	0,021	0,018	-	24,75 €	24,75 €
G0.7-35	35	24,50	25,90	16,00	6	0,031	0,025	-	24,97 €	24,97 €
G0.7-40	40	28,00	29,40	16,00	6	0,038	0,031	✓	25,25 €	25,25 €
G0.7-42	42	29,40	30,80	16,00	6	0,040	0,034	✓	25,39 €	25,39 €
G0.7-48	48	33,60	35,00	16,00	6	0,050	0,044	-	25,88 €	25,88 €
G0.7-50	50	35,00	36,40	16,00	6	0,053	0,047	✓	26,17 €	26,17 €
G0.7-60	60	42,00	43,40	16,00	6	0,073	0,067	-	27,28 €	27,28 €
G0.7-70	70	49,00	50,40	16,00	8	0,094	0,092	-	28,41 €	28,41 €
G0.7-76	76	53,20	54,60	16,00	8	0,109	0,107	-	29,92 €	29,92 €
G0.7-175	175	122,50	123,90	25,00	12	0,566	0,547	-	79,23 €	79,23 €

Gears available up to this size

G0.7-198	198	138,60	140,00	Dimensions: contact us				On request
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*Depending on availability - Dimensions in mm

On request

MODULE 0.75

Steel 20NCD2

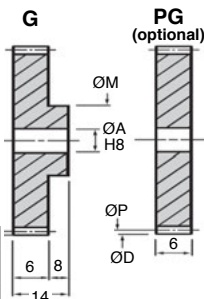


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Option

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2		
	Z10CNF18.09	hardened	brass	fibre
Nm	0.990	4.570	0.480	0.380
kW	0.104	0.477	0.057	0.037



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Price each 1 to 5 G	Price each 1 to 5 PG
G0.75-10	10	8,25	9,75	9,75	4	0,006	0,002	17,93 €	
G0.75-11	11	9,00	10,50	10,50	4	0,007	0,002	18,36 €	
G0.75-13	13	9,75	11,25	11,25	5	0,008	0,003	18,74 €	
G0.75-14	14	10,50	12,00	12,00	5	0,009	0,003	19,16 €	
G0.75-15	15	11,25	12,75	12,00	5	0,009	0,004	19,66 €	
G0.75-17	17	12,75	14,25	12,00	5	0,011	0,005	20,72 €	
G0.75-18	18	13,50	15,00	12,00	5	0,011	0,006	21,13 €	
G0.75-20	20	15,00	16,50	12,00	5	0,013	0,007	21,53 €	
G0.75-22	22	16,50	18,00	12,00	5	0,015	0,009	21,98 €	
G0.75-24	24	18,00	19,50	12,00	5	0,017	0,011	22,41 €	
G0.75-25	25	18,75	20,25	12,00	5	0,017	0,012	22,65 €	
G0.75-28	28	21,00	22,50	12,00	5	0,021	0,015	23,11 €	
G0.75-30	30	22,50	24,00	12,00	5	0,023	0,017	23,31 €	
G0.75-40	40	30,00	31,50	16,00	6	0,042	0,031	23,79 €	
G0.75-45	45	33,75	35,25	16,00	6	0,050	0,040	24,18 €	
G0.75-60	60	45,00	46,50	16,00	6	0,082	0,072	25,92 €	
G0.75-70	70	52,50	54,00	16,00	8	0,106	0,097	27,19 €	
G0.75-72	72	54,00	55,50	16,00	8	0,112	0,103	27,97 €	
G0.75-100	100	75,00	76,50	16,00	8	0,210	0,201	46,00 €	
G0.75-150	150	112,50	114,00	20,00	10	0,470	0,454	75,27 €	
G0.75-180	180	135,00	136,50	30,00	12	0,671	0,655	102,50 €	
↓ Gears available up to this size ↓									
G0.75-184	184	138,00	139,50	Dimensions: contact us				On request	

Dimensions in mm

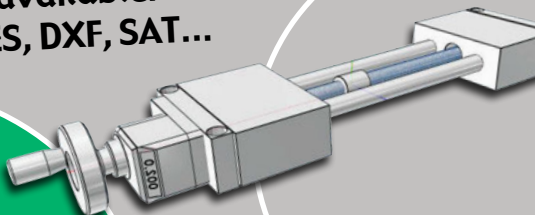
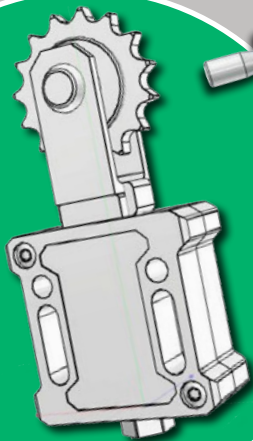
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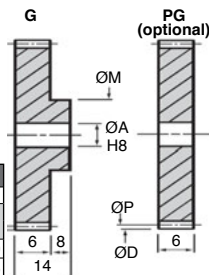
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- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2		
	Z10CNF18.09	hardened	brass	fibre
Nm	1	5	0.54	0.450
kW	0.104	0.522	0.06	0.045



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) G	Weight (kg) PG	Stock*	Price each. 1 to 5 G	Price each. 1 to 5 PG
G0.8-9	9	8,00	9,60	9,60	5	0,006	0,002	-	19,14 €	
G0.8-10	10	8,80	10,40	10,40	5	0,007	0,003	✓	19,14 €	
G0.8-11	11	9,60	11,20	11,20	5	0,009	0,004	-	19,14 €	
G0.8-12	12	9,60	11,20	11,20	5	0,009	0,004	✓	19,14 €	
G0.8-13	13	10,40	12,00	12,00	5	0,011	0,005	-	19,66 €	
G0.8-14	14	11,20	12,80	12,00	5	0,012	0,006	-	20,05 €	
G0.8-15	15	12,00	13,60	12,00	5	0,013	0,007	✓	20,54 €	
G0.8-16	16	12,80	14,40	12,00	5	0,014	0,008	✓	21,04 €	
G0.8-17	17	13,60	15,20	12,00	5	0,015	0,010	-	21,71 €	
G0.8-18	18	14,40	16,00	12,00	5	0,017	0,011	✓	22,14 €	
G0.8-19	19	15,20	16,80	12,00	5	0,018	0,012	-	22,55 €	
G0.8-20	20	16,00	17,60	12,00	5	0,020	0,014	✓	22,62 €	
G0.8-21	21	16,80	18,40	12,00	5	0,021	0,015	-	22,85 €	
G0.8-22	22	17,60	19,20	12,00	5	0,023	0,017	-	23,11 €	
G0.8-23	23	18,40	20,00	12,00	5	0,025	0,019	-	23,35 €	
G0.8-24	24	19,20	20,80	12,00	5	0,026	0,021	✓	23,53 €	
G0.8-25	25	20,00	21,60	12,00	5	0,028	0,023	✓	23,79 €	
G0.8-26	26	20,80	22,40	12,00	5	0,030	0,024	-	24,05 €	
G0.8-27	27	21,60	23,20	12,00	5	0,032	0,027	-	24,26 €	
G0.8-28	28	22,40	24,00	12,00	5	0,034	0,029	-	24,36 €	
G0.8-29	29	23,20	24,80	12,00	5	0,037	0,031	-	24,56 €	
G0.8-30	30	24,00	25,60	16,00	6	0,043	0,032	✓	24,75 €	
G0.8-31	31	24,80	26,40	16,00	6	0,045	0,035	-	24,77 €	
G0.8-32	32	25,60	27,20	16,00	6	0,048	0,037	✓	24,82 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) G	PG	Stock*	Price each 1 to 5 G	PG
G0.8-33	33	26,40	28,00	16,00	6	0,050	0,040	-	24,92 €	On request
G0.8-34	34	27,20	28,80	16,00	6	0,053	0,042	-	24,93 €	
G0.8-35	35	28,00	29,60	16,00	6	0,056	0,045	-	24,97 €	
G0.8-36	36	28,80	30,40	16,00	6	0,058	0,048	-	25,04 €	
G0.8-37	37	29,60	31,20	16,00	6	0,061	0,050	-	25,10 €	
G0.8-38	38	30,40	32,00	16,00	6	0,064	0,053	✓	25,18 €	
G0.8-39	39	31,20	32,80	16,00	6	0,067	0,056	-	25,18 €	
G0.8-40	40	32,00	33,60	16,00	6	0,070	0,059	✓	25,36 €	
G0.8-41	41	32,80	34,40	16,00	6	0,073	0,062	-	25,39 €	
G0.8-42	42	33,60	35,20	16,00	6	0,076	0,066	-	25,45 €	
G0.8-43	43	34,40	36,00	16,00	6	0,080	0,069	-	25,48 €	
G0.8-44	44	35,20	36,80	16,00	6	0,083	0,072	-	25,54 €	
G0.8-45	45	36,00	37,60	16,00	6	0,086	0,076	-	25,61 €	
G0.8-46	46	36,80	38,40	16,00	6	0,090	0,079	-	25,71 €	
G0.8-47	47	37,60	39,20	16,00	6	0,093	0,083	-	25,79 €	
G0.8-48	48	38,40	40,00	16,00	6	0,097	0,086	-	25,88 €	
G0.8-49	49	39,20	40,80	16,00	6	0,101	0,090	-	25,92 €	
G0.8-50	50	40,00	41,60	16,00	6	0,105	0,094	✓	25,97 €	
G0.8-51	51	40,80	42,40	16,00	6	0,108	0,098	-	26,17 €	
G0.8-52	52	41,60	43,20	16,00	6	0,112	0,102	-	26,30 €	
G0.8-53	53	42,40	44,00	16,00	6	0,116	0,106	✓	26,36 €	
G0.8-54	54	43,20	44,80	16,00	6	0,121	0,110	-	26,48 €	
G0.8-55	55	44,00	45,60	16,00	6	0,125	0,114	-	26,58 €	
G0.8-56	56	44,80	46,40	16,00	6	0,129	0,118	-	26,69 €	
G0.8-57	57	45,60	47,20	16,00	6	0,133	0,123	-	26,83 €	
G0.8-58	58	46,40	48,00	16,00	6	0,138	0,127	-	26,89 €	
G0.8-59	59	47,20	48,80	16,00	6	0,142	0,132	-	27,05 €	
G0.8-60	60	48,00	49,60	16,00	8	0,144	0,135	✓	27,19 €	
G0.8-61	61	48,80	50,40	16,00	8	0,149	0,139	-	27,28 €	
G0.8-62	62	49,60	51,20	16,00	8	0,153	0,144	-	27,42 €	
G0.8-63	63	50,40	52,00	16,00	8	0,158	0,149	✓	27,47 €	
G0.8-64	64	51,20	52,80	16,00	8	0,163	0,154	-	27,62 €	
G0.8-66	66	52,80	54,40	16,00	8	0,173	0,164	-	27,72 €	
G0.8-68	68	54,40	56,00	16,00	8	0,183	0,174	-	27,86 €	
G0.8-70	70	56,00	57,60	16,00	8	0,194	0,185	✓	28,07 €	
G0.8-75	75	60,00	61,60	16,00	8	0,222	0,213	-	28,41 €	
G0.8-76	76	60,80	62,40	16,00	8	0,228	0,218	-	29,13 €	
G0.8-80	80	64,00	65,60	16,00	8	0,252	0,242	-	29,92 €	
G0.8-86	86	68,80	70,40	16,00	8	0,290	0,281	-	30,42 €	
G0.8-88	88	70,40	72,00	16,00	8	0,303	0,294	-	30,85 €	
G0.8-90	90	72,00	73,60	20,00	8	0,324	0,308	✓	31,52 €	
G0.8-96	96	76,80	78,40	20,00	8	0,367	0,351	-	32,09 €	
G0.8-100	100	80,00	81,60	20,00	8	0,397	0,381	✓	35,14 €	
G0.8-112	112	89,60	91,20	20,00	8	0,495	0,479	-	40,73 €	
G0.8-120	120	96,00	97,60	20,00	8	0,566	0,550	-	46,38 €	
G0.8-127	127	101,60	103,20	25,00	10	0,633	0,617	-	55,70 €	
G0.8-128	128	102,40	104,00	25,00	10	0,653	0,626	-	57,47 €	
G0.8-140	140	112,00	113,60	25,00	10	0,777	0,750	-	60,68 €	
G0.8-150	150	120,00	121,60	25,00	12	0,889	0,862	-	70,22 €	
↓ 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

On request

Module

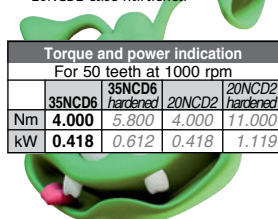
0.8



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

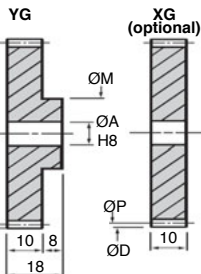
Options

- 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

Steel 35NCD6



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Stock*	Price each 1 to 5 YG	1 to 5 XG
YG0.8-9	9	8,00	9,60	9,60	5	0,008	0,002	✓	23,87 €	
YG0.8-10	10	8,80	10,40	10,40	5	0,010	0,003	✓	23,87 €	
YG0.8-11	11	9,60	11,20	11,20	5	0,011	0,004	-	23,87 €	
YG0.8-12	12	9,60	11,20	11,20	5	0,011	0,004	✓	23,87 €	
YG0.8-13	13	10,40	12,00	12,40	5	0,014	0,005	✓	24,50 €	
YG0.8-14	14	11,20	12,80	12,80	5	0,015	0,006	-	24,97 €	
YG0.8-15	15	12,00	13,60	13,60	5	0,017	0,007	✓	25,61 €	
YG0.8-16	16	12,80	14,40	14,00	5	0,019	0,008	✓	26,25 €	
YG0.8-17	17	13,60	15,20	14,00	5	0,020	0,010	-	27,05 €	
YG0.8-18	18	14,40	16,00	14,00	5	0,022	0,011	✓	27,62 €	
YG0.8-19	19	15,20	16,80	14,00	5	0,023	0,012	-	27,97 €	
YG0.8-20	20	16,00	17,60	14,00	5	0,025	0,014	✓	28,27 €	
YG0.8-21	21	16,80	18,40	14,00	5	0,026	0,015	-	28,44 €	
YG0.8-22	22	17,60	19,20	14,00	5	0,028	0,017	-	28,83 €	
YG0.8-23	23	18,40	20,00	14,00	5	0,030	0,019	-	29,13 €	
YG0.8-24	24	19,20	20,80	14,00	5	0,031	0,021	-	29,30 €	
YG0.8-25	25	20,00	21,60	14,00	5	0,033	0,023	✓	29,68 €	
YG0.8-26	26	20,80	22,40	14,00	5	0,035	0,024	-	29,97 €	
YG0.8-27	27	21,60	23,20	14,00	5	0,037	0,027	-	30,23 €	
YG0.8-28	28	22,40	24,00	14,00	5	0,039	0,029	-	30,42 €	
YG0.8-29	29	23,20	24,80	14,00	5	0,042	0,031	-	30,61 €	
YG0.8-30	30	24,00	25,60	20,00	6	0,054	0,032	✓	30,79 €	
YG0.8-31	31	24,80	26,40	20,00	6	0,056	0,035	-	30,85 €	
YG0.8-33	33	26,40	28,00	20,00	6	0,061	0,040	-	31,13 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Stock	Price each 1 to 5 YG	XG
YG0.8-34	34	27,20	28,80	20,00	6	0,063	0,042	-	31,15 €	
YG0.8-35	35	28,00	29,60	20,00	6	0,066	0,045	✓	31,23 €	
YG0.8-36	36	28,80	30,40	20,00	6	0,069	0,048	-	31,26 €	
YG0.8-37	37	29,60	31,20	20,00	6	0,072	0,050	-	31,33 €	
YG0.8-38	38	30,40	32,00	20,00	6	0,075	0,053	✓	31,42 €	
YG0.8-39	39	31,20	32,80	20,00	6	0,078	0,056	-	31,49 €	
YG0.8-40	40	32,00	33,60	20,00	6	0,081	0,059	✓	31,52 €	
YG0.8-41	41	32,80	34,40	20,00	6	0,084	0,062	-	31,58 €	
YG0.8-42	42	33,60	35,20	20,00	6	0,087	0,066	-	31,66 €	
YG0.8-43	43	34,40	36,00	20,00	6	0,090	0,069	-	31,68 €	
YG0.8-44	44	35,20	36,80	20,00	6	0,093	0,072	-	31,86 €	
YG0.8-45	45	36,00	37,60	20,00	6	0,097	0,076	-	32,00 €	
YG0.8-46	46	36,80	38,40	20,00	6	0,100	0,079	-	32,10 €	
YG0.8-47	47	37,60	39,20	20,00	6	0,104	0,083	-	32,16 €	
YG0.8-48	48	38,40	40,00	20,00	6	0,108	0,086	-	32,30 €	
YG0.8-49	49	39,20	40,80	20,00	6	0,111	0,090	-	32,33 €	
YG0.8-50	50	40,00	41,60	20,00	6	0,115	0,094	✓	32,35 €	
YG0.8-51	51	40,80	42,40	20,00	6	0,119	0,098	-	32,62 €	
YG0.8-52	52	41,60	43,20	20,00	6	0,123	0,102	✓	32,74 €	
YG0.8-53	53	42,40	44,00	20,00	6	0,127	0,106	-	32,84 €	
YG0.8-54	54	43,20	44,80	20,00	6	0,131	0,110	✓	32,99 €	
YG0.8-55	55	44,00	45,60	20,00	6	0,135	0,114	-	33,18 €	
YG0.8-56	56	44,80	46,40	20,00	6	0,140	0,118	-	33,27 €	
YG0.8-57	57	45,60	47,20	20,00	6	0,144	0,123	-	33,50 €	
YG0.8-58	58	46,40	48,00	20,00	6	0,148	0,127	-	33,60 €	
YG0.8-59	59	47,20	48,80	20,00	6	0,153	0,132	-	33,69 €	
YG0.8-60	60	48,00	49,60	20,00	6	0,157	0,136	-	33,85 €	
YG0.8-61	61	48,80	50,40	20,00	6	0,162	0,141	-	34,02 €	
YG0.8-62	62	49,60	51,20	20,00	6	0,167	0,146	-	34,17 €	
YG0.8-63	63	50,40	52,00	20,00	6	0,172	0,151	-	34,36 €	
YG0.8-64	64	51,20	52,80	20,00	6	0,177	0,155	-	34,48 €	
YG0.8-66	66	52,80	54,40	30,00	8	0,210	0,164	-	34,56 €	
YG0.8-68	68	54,40	56,00	40,00	8	0,254	0,174	-	34,73 €	
YG0.8-70	70	56,00	57,60	40,00	8	0,265	0,185	-	35,01 €	
YG0.8-75	75	60,00	61,60	40,00	8	0,293	0,213	-	35,44 €	
YG0.8-76	76	60,80	62,40	40,00	8	0,299	0,218	✓	36,25 €	
YG0.8-80	80	64,00	65,60	40,00	8	0,323	0,242	-	37,32 €	
YG0.8-86	86	68,80	70,40	40,00	8	0,361	0,281	-	37,84 €	
YG0.8-88	88	70,40	72,00	40,00	8	0,374	0,294	-	38,50 €	
YG0.8-90	90	72,00	73,60	40,00	8	0,388	0,308	✓	39,30 €	
YG0.8-96	96	76,80	78,40	40,00	8	0,431	0,351	-	39,95 €	
YG0.8-100	100	80,00	81,60	40,00	8	0,461	0,381	✓	43,85 €	
YG0.8-112	112	89,60	91,20	40,00	8	0,559	0,479	-	50,87 €	
YG0.8-120	120	96,00	97,60	40,00	8	0,630	0,550	-	57,79 €	
YG0.8-127	127	101,60	103,20	40,00	10	0,697	0,617	-	69,41 €	
YG0.8-128	128	102,40	104,00	50,00	10	0,750	0,624	-	71,65 €	
YG0.8-140	140	112,00	113,60	50,00	10	0,873	0,748	-	75,72 €	
YG0.8-150	150	120,00	121,60	50,00	12	0,985	0,859	-	87,52 €	
YG0.8-175	175	140,00	141,60	50,00	12	1,298	1,172	-	111,24 €	
YG0.8-200	200	160,00	161,60	50,00	15	1,658	1,533	-	124,72 €	

On request

↓ **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

Brass spur gear



Module

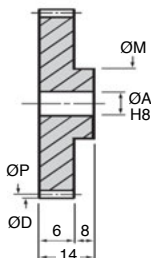
Brass CuZn40Pb3

0.8

- Quality standard 9
- Pressure angle 20°

Torque and power indication		
For 50 teeth at 1000 rpm		
	20NCD2	Brass
Nm	1.000	0.54
kW	0.104	0.06

GB



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Price each 1 to 5
GB0.8-10	10	8,80	10,40	10,40	5	-	13,45 €
GB0.8-12	12	9,60	11,20	11,20	5	✓	14,01 €
GB0.8-15	15	12,00	13,60	12,00	5	✓	15,12 €
GB0.8-18	18	14,40	16,00	12,00	5	-	16,27 €
GB0.8-20	20	16,00	17,60	12,00	5	✓	17,94 €
GB0.8-22	22	17,60	19,20	12,00	5	-	18,51 €
GB0.8-25	25	20,00	21,60	12,00	5	✓	19,64 €
GB0.8-28	28	22,40	24,00	12,00	5	-	20,74 €
GB0.8-30	30	24,00	25,60	16,00	6	✓	22,44 €
GB0.8-35	35	28,00	29,60	16,00	6	-	23,56 €
GB0.8-40	40	32,00	33,60	16,00	6	✓	25,82 €
GB0.8-45	45	36,00	37,60	16,00	6	-	28,07 €
GB0.8-50	50	40,00	41,60	16,00	6	✓	29,47 €
GB0.8-55	55	44,00	45,60	16,00	6	-	31,99 €
GB0.8-60	60	48,00	49,60	16,00	8	-	39,29 €
GB0.8-66	66	52,80	54,40	16,00	8	-	48,83 €
GB0.8-70	70	56,00	57,60	16,00	8	-	50,16 €
GB0.8-75	75	60,00	61,60	16,00	8	-	51,11 €
GB0.8-80	80	64,00	65,60	16,00	8	✓	54,68 €
GB0.8-86	86	68,80	70,40	16,00	8	-	56,16 €
GB0.8-90	90	72,00	73,60	20,00	8	-	57,27 €
GB0.8-100	100	80,00	81,60	20,00	8	-	103,93 €
GB0.8-120	120	96,00	97,60	20,00	8	-	127,46 €

↓				Gears available up to this size		↓	
GB0.8-173	173	138,40	140,00	Dimensions: contact us		On request	

*Depending on availability - Dimensions in mm

Request a quote for **MADE TO** **MEASURE GEARS**

- **Gears modified to order or manufactured to your drawings**



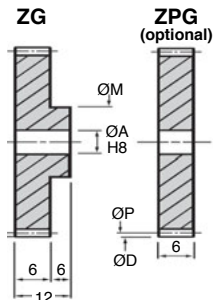
Tel. +33 (0)4 37 496 496

Fax. +33 (0)4 37 490 055



- 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	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						ZG	ZPG	ZG	ZPG
ZG0.8-9	9	8,00	9,60	9,60	3	0,0008	0,0003	9,56 €	
ZG0.8-10	10	8,80	10,40	10,40	3	0,0010	0,0004	9,56 €	
ZG0.8-11	11	9,60	11,20	11,20	3	0,0012	0,0005	9,56 €	
ZG0.8-12	12	9,60	11,20	11,20	3	0,0012	0,0005	9,56 €	
ZG0.8-13	13	10,40	12,00	12,00	3	0,0014	0,0006	9,88 €	
ZG0.8-14	14	11,20	12,80	12,80	3	0,0016	0,0007	10,01 €	
ZG0.8-15	15	12,00	13,60	13,60	3	0,0019	0,0008	10,33 €	
ZG0.8-16	16	12,80	14,40	14,40	3	0,0021	0,0009	10,53 €	
ZG0.8-17	17	13,60	15,20	15,20	3	0,0024	0,0011	10,79 €	
ZG0.8-18	18	14,40	16,00	14,00	4	0,0023	0,0012	11,14 €	
ZG0.8-19	19	15,20	16,80	14,00	4	0,0024	0,0013	11,21 €	
ZG0.8-20	20	16,00	17,60	14,00	4	0,0025	0,0015	11,33 €	
ZG0.8-21	21	16,80	18,40	14,00	4	0,0027	0,0016	11,43 €	
ZG0.8-22	22	17,60	19,20	14,00	4	0,0029	0,0018	11,59 €	
ZG0.8-23	23	18,40	20,00	14,00	4	0,0030	0,0020	11,70 €	
ZG0.8-24	24	19,20	20,80	14,00	4	0,0032	0,0021	11,75 €	
ZG0.8-25	25	20,00	21,60	14,00	4	0,0034	0,0023	11,86 €	
ZG0.8-26	26	20,80	22,40	14,00	4	0,0036	0,0025	12,05 €	
ZG0.8-27	27	21,60	23,20	14,00	4	0,0038	0,0027	12,19 €	
ZG0.8-28	28	22,40	24,00	14,00	4	0,0040	0,0029	12,22 €	
ZG0.8-29	29	23,20	24,80	14,00	4	0,0043	0,0032	12,30 €	
ZG0.8-30	30	24,00	25,60	15,00	5	0,0046	0,0033	12,39 €	
ZG0.8-31	31	24,80	26,40	15,00	5	0,0048	0,0036	12,39 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						ZG	ZPG	ZG	ZPG
ZG0.8-32	32	25,60	27,20	15,00	5	0,0050	0,0038	12,44 €	
ZG0.8-33	33	26,40	28,00	15,00	5	0,0053	0,0041	12,44 €	
ZG0.8-34	34	27,20	28,80	15,00	5	0,0055	0,0043	12,44 €	
ZG0.8-35	35	28,00	29,60	15,00	5	0,0058	0,0046	12,55 €	
ZG0.8-36	36	28,80	30,40	15,00	5	0,0061	0,0049	13,83 €	
ZG0.8-38	38	30,40	32,00	15,00	5	0,0067	0,0054	13,95 €	
ZG0.8-39	39	31,20	32,80	15,00	5	0,0070	0,0057	13,95 €	
ZG0.8-40	40	32,00	33,60	15,00	5	0,0073	0,0061	14,01 €	
ZG0.8-41	41	32,80	34,40	15,00	5	0,0076	0,0064	14,01 €	
ZG0.8-42	42	33,60	35,20	15,00	5	0,0079	0,0067	14,01 €	
ZG0.8-43	43	34,40	36,00	15,00	5	0,0082	0,0070	14,03 €	
ZG0.8-44	44	35,20	36,80	15,00	5	0,0086	0,0074	14,03 €	
ZG0.8-45	45	36,00	37,60	15,00	5	0,0089	0,0077	14,15 €	
ZG0.8-46	46	36,80	38,40	15,00	5	0,0093	0,0081	14,15 €	
ZG0.8-47	47	37,60	39,20	15,00	5	0,0096	0,0084	14,28 €	
ZG0.8-48	48	38,40	40,00	15,00	5	0,0100	0,0088	16,25 €	
ZG0.8-49	49	39,20	40,80	15,00	5	0,0104	0,0092	16,25 €	
ZG0.8-50	50	40,00	41,60	15,00	5	0,0108	0,0095	16,25 €	
ZG0.8-51	51	40,80	42,40	15,00	5	0,0111	0,0099	16,44 €	
ZG0.8-52	52	41,60	43,20	15,00	5	0,0115	0,0103	16,47 €	
ZG0.8-53	53	42,40	44,00	15,00	5	0,0120	0,0107	16,59 €	
ZG0.8-54	54	43,20	44,80	15,00	5	0,0124	0,0112	16,65 €	
ZG0.8-55	55	44,00	45,60	15,00	5	0,0128	0,0116	16,74 €	
ZG0.8-57	57	45,60	47,20	18,00	6	0,0141	0,0124	16,82 €	
ZG0.8-58	58	46,40	48,00	18,00	6	0,0146	0,0128	16,90 €	
ZG0.8-59	59	47,20	48,80	18,00	6	0,0150	0,0133	17,01 €	
ZG0.8-60	60	48,00	49,60	18,00	6	0,0155	0,0137	17,04 €	
ZG0.8-61	61	48,80	50,40	18,00	6	0,0160	0,0142	20,64 €	
ZG0.8-62	62	49,60	51,20	18,00	6	0,0164	0,0147	20,72 €	
ZG0.8-63	63	50,40	52,00	18,00	6	0,0169	0,0152	20,75 €	
ZG0.8-64	64	51,20	52,80	18,00	6	0,0174	0,0157	20,89 €	
ZG0.8-66	66	52,80	54,40	18,00	6	0,0184	0,0167	20,96 €	
ZG0.8-68	68	54,40	56,00	18,00	6	0,0195	0,0177	21,04 €	
ZG0.8-70	70	56,00	57,60	18,00	6	0,0205	0,0188	21,25 €	
ZG0.8-75	75	60,00	61,60	18,00	6	0,0233	0,0216	24,36 €	
ZG0.8-76	76	60,80	62,40	18,00	6	0,0239	0,0222	25,61 €	
ZG0.8-80	80	64,00	65,60	18,00	6	0,0263	0,0246	25,98 €	
ZG0.8-86	86	68,80	70,40	18,00	6	0,0302	0,0285	26,50 €	
ZG0.8-88	88	70,40	72,00	18,00	6	0,0316	0,0298	26,97 €	
ZG0.8-90	90	72,00	73,60	22,00	6	0,0339	0,0312	26,97 €	
ZG0.8-96	96	76,80	78,40	22,00	6	0,0382	0,0355	29,16 €	
ZG0.8-100	100	80,00	81,60	22,00	8	0,0413	0,0386	31,86 €	
ZG0.8-112	112	89,60	91,20	22,00	8	0,0511	0,0484	41,19 €	
ZG0.8-120	120	96,00	97,60	30,00	10	0,0583	0,0556	46,76 €	
ZG0.8-140	140	112,00	113,60	30,00	10	0,0785	0,0758	55,15 €	
ZG0.8-150	150	120,00	121,60	30,00	12	0,0898	0,0870	67,90 €	
↓ Gears available up to this size ↓									
ZG0.8-173	173	138,40	140,00	Dimensions: contact us				On request	

Dimensions in mm

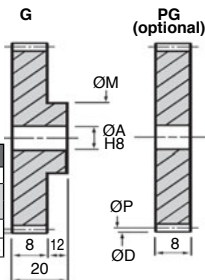
On request

Module 1.0



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

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2	brass	fibre
	Z10CNF18.09	hardened		
Nm	2.600	12	1.25	1
kW	0.254	1.261	0.134	0.104



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight G	Weight PG	Stock*	Price each. 1 to 5 PG
G1-9	9	10,00	12,00	12	6	0,011	0,003	✓	17,06 €
G1-10	10	11,00	13,00	13	6	0,014	0,004	✓	17,06 €
G1-11	11	12,00	14,00	14	6	0,017	0,005	-	17,06 €
G1-12	12	12,00	14,00	14	6	0,017	0,005	✓	8,80 €
G1-13	13	13,00	15,00	15	6	0,020	0,006	✓	17,31 €
G1-14	14	14,00	16,00	15	6	0,021	0,008	✓	17,65 €
G1-15	15	15,00	17,00	12	8	0,014	0,008	✓	9,26 €
G1-16	16	16,00	18,00	12	8	0,015	0,009	✓	9,38 €
G1-17	17	17,00	19,00	12	8	0,017	0,011	✓	18,59 €
G1-18	18	18,00	20,00	15	8	0,024	0,013	✓	9,81 €
G1-19	19	19,00	21,00	15	8	0,026	0,014	-	19,28 €
G1-20	20	20,00	22,00	15	8	0,028	0,016	✓	10,23 €
G1-21	21	21,00	23,00	15	8	0,030	0,018	✓	20,05 €
G1-22	22	22,00	24,00	15	8	0,032	0,020	✓	16,00 €
G1-23	23	23,00	25,00	15	8	0,034	0,022	✓	20,43 €
G1-24	24	24,00	26,00	15	8	0,036	0,025	✓	10,61 €
G1-25	25	25,00	27,00	15	8	0,039	0,027	✓	11,03 €
G1-26	26	26,00	28,00	15	8	0,041	0,029	✓	20,43 €
G1-27	27	27,00	29,00	15	8	0,044	0,032	✓	22,62 €
G1-28	28	28,00	30,00	15	8	0,046	0,035	✓	22,78 €
G1-29	29	29,00	31,00	15	8	0,049	0,037	✓	23,74 €
G1-30	30	30,00	32,00	20	8	0,064	0,040	✓	12,44 €
G1-31	31	31,00	33,00	20	8	0,067	0,043	-	24,43 €
G1-32	32	32,00	34,00	20	8	0,070	0,046	✓	12,77 €
G1-33	33	33,00	35,00	20	8	0,074	0,049	-	24,97 €
G1-34	34	34,00	36,00	20	8	0,077	0,053	✓	25,36 €

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside 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	-	25,61 €	Sur demande
G1-36	36	36,00	38,00	20	8	0,083	0,059	✓	13,33 €	
G1-37	37	37,00	39,00	20	8	0,087	0,063	✓	26,20 €	
G1-38	38	38,00	40,00	20	8	0,091	0,066	-	26,64 €	
G1-39	39	39,00	41,00	20	8	0,094	0,070	-	27,13 €	
G1-40	40	40,00	42,00	20	8	0,098	0,074	✓	14,27 €	
G1-41	41	41,00	43,00	20	8	0,102	0,078	-	27,68 €	
G1-42	42	42,00	44,00	20	8	0,106	0,082	✓	27,82 €	
G1-43	43	43,00	45,00	20	8	0,110	0,086	-	27,97 €	
G1-44	44	44,00	46,00	20	8	0,114	0,090	✓	27,97 €	
G1-45	45	45,00	47,00	20	8	0,119	0,094	✓	28,16 €	
G1-46	46	46,00	48,00	20	8	0,123	0,099	✓	28,27 €	
G1-47	47	47,00	49,00	20	8	0,127	0,103	-	28,37 €	
G1-48	48	48,00	50,00	20	8	0,132	0,108	✓	28,41 €	
G1-49	49	49,00	51,00	20	8	0,137	0,112	-	29,92 €	
G1-50	50	50,00	52,00	30	10	0,173	0,115	✓	16,20 €	
G1-51	51	51,00	53,00	30	10	0,178	0,120	-	31,84 €	
G1-52	52	52,00	54,00	30	10	0,183	0,125	✓	32,30 €	
G1-53	53	53,00	55,00	30	10	0,188	0,130	-	32,69 €	
G1-54	54	54,00	56,00	30	10	0,193	0,135	✓	33,14 €	
G1-55	55	55,00	57,00	30	10	0,198	0,141	✓	33,66 €	
G1-56	56	56,00	58,00	30	10	0,204	0,146	✓	33,69 €	
G1-57	57	57,00	59,00	30	10	0,209	0,151	-	34,26 €	
G1-58	58	58,00	60,00	30	10	0,215	0,157	-	34,67 €	
G1-59	59	59,00	61,00	30	10	0,220	0,163	-	35,07 €	
G1-60	60	60,00	62,00	30	10	0,226	0,168	✓	18,39 €	
G1-61	61	61,00	63,00	30	10	0,232	0,174	-	36,00 €	
G1-62	62	62,00	64,00	30	10	0,238	0,180	-	36,65 €	
G1-63	63	63,00	65,00	30	10	0,244	0,186	✓	37,66 €	
G1-64	64	64,00	66,00	30	10	0,250	0,192	✓	38,39 €	
G1-65	65	65,00	67,00	30	10	0,256	0,198	✓	39,28 €	
G1-66	66	66,00	68,00	30	10	0,262	0,205	-	40,09 €	
G1-68	68	68,00	70,00	30	10	0,275	0,218	✓	41,61 €	
G1-70	70	70,00	72,00	30	10	0,288	0,231	✓	42,19 €	
G1-72	72	72,00	74,00	30	10	0,302	0,244	✓	43,04 €	
G1-73	73	73,00	75,00	30	10	0,309	0,251	-	44,22 €	
G1-74	74	74,00	76,00	30	10	0,316	0,258	-	45,36 €	
G1-76	76	76,00	78,00	30	10	0,331	0,273	✓	45,94 €	
G1-78	78	78,00	80,00	30	10	0,345	0,288	-	46,67 €	
G1-80	80	80,00	82,00	30	10	0,361	0,303	✓	47,61 €	
G1-84	84	84,00	86,00	30	10	0,392	0,334	-	48,27 €	
G1-88	88	88,00	90,00	30	10	0,425	0,368	-	49,34 €	
G1-90	90	90,00	92,00	30	10	0,442	0,385	✓	50,87 €	
G1-96	96	96,00	98,00	30	10	0,496	0,438	✓	56,31 €	
G1-100	100	100,00	102,00	30	10	0,534	0,476	✓	57,11 €	
G1-112	112	112,00	114,00	30	10	0,656	0,598	-	71,45 €	
G1-120	120	120,00	122,00	30	12	0,745	0,688	✓	80,78 €	
G1-130	130	130,00	132,00	30	12	0,865	0,808	-	91,64 €	
G1-150	150	150,00	152,00	40	15	1,135	1,077	✓	107,53 €	
↓ Gears available up to this size ↓										
G1-590	590	590,00	592,00	Dimensions : contact us					on request	

*Depending on availability - Dimensions in mm

Sur demande

Module 1.0



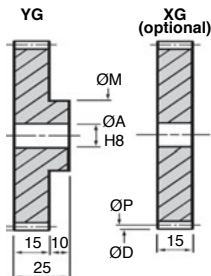
 **IN STOCK***
Otherwise contact us

- Greater 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	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%	-25%	On request

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg)		Stock*	Price each 1 to 5	
						YG	XG		YG	XG
YG1-9	9	10,00	12,00	12	6	0,017	0,006	-	21,25 €	
YG1-10	10	11,00	13,00	13	6	0,020	0,008	✓	21,25 €	
YG1-11	11	12,00	14,00	14	6	0,024	0,010	-	21,25 €	
YG1-12	12	12,00	14,00	14	6	0,024	0,010	✓	21,25 €	
YG1-13	13	13,00	15,00	15	6	0,028	0,012	-	21,59 €	
YG1-14	14	14,00	16,00	16	6	0,032	0,014	✓	22,07 €	
YG1-15	15	15,00	17,00	17	6	0,037	0,017	✓	22,38 €	
YG1-16	16	16,00	18,00	18	8	0,041	0,017	-	22,80 €	
YG1-17	17	17,00	19,00	18	8	0,044	0,020	✓	23,19 €	
YG1-18	18	18,00	20,00	18	8	0,047	0,023	-	23,69 €	
YG1-19	19	19,00	21,00	18	8	0,051	0,027	-	24,08 €	
YG1-20	20	20,00	22,00	20	8	0,059	0,030	✓	24,92 €	
YG1-21	21	21,00	23,00	20	8	0,063	0,034	-	25,10 €	
YG1-22	22	22,00	24,00	20	8	0,066	0,038	✓	25,36 €	
YG1-23	23	23,00	25,00	20	8	0,071	0,042	-	25,45 €	
YG1-24	24	24,00	26,00	20	8	0,075	0,046	✓	25,68 €	
YG1-25	25	25,00	27,00	20	8	0,079	0,051	✓	26,69 €	
YG1-26	26	26,00	28,00	25	8	0,097	0,055	-	27,62 €	
YG1-27	27	27,00	29,00	25	8	0,102	0,060	-	28,23 €	
YG1-28	28	28,00	30,00	25	8	0,107	0,065	✓	28,90 €	
YG1-29	29	29,00	31,00	25	8	0,112	0,070	-	29,58 €	
YG1-30	30	30,00	32,00	25	8	0,117	0,075	✓	30,11 €	
YG1-31	31	31,00	33,00	25	8	0,123	0,081	-	30,44 €	
YG1-32	32	32,00	34,00	25	8	0,129	0,087	✓	30,79 €	
YG1-33	33	33,00	35,00	25	8	0,135	0,092	-	31,23 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Stock*	Price each 1 to 5 YG	XG
YG1-34	34	34,00	36,00	25	8	0,141	0,098	✓	31,52 €	
YG1-35	35	35,00	37,00	25	8	0,147	0,105	-	32,00 €	
YG1-36	36	36,00	38,00	30	8	0,170	0,111	✓	32,30 €	
YG1-37	37	37,00	39,00	30	8	0,176	0,118	-	32,64 €	
YG1-38	38	38,00	40,00	30	8	0,183	0,124	-	33,25 €	
YG1-39	39	39,00	41,00	30	8	0,190	0,131	-	33,81 €	
YG1-40	40	40,00	42,00	30	8	0,197	0,138	✓	34,36 €	
YG1-41	41	41,00	43,00	30	8	0,204	0,146	-	34,52 €	
YG1-42	42	42,00	44,00	30	8	0,212	0,153	✓	34,67 €	
YG1-43	43	43,00	45,00	30	8	0,220	0,161	-	34,77 €	
YG1-44	44	44,00	46,00	30	8	0,227	0,169	-	35,01 €	
YG1-45	45	45,00	47,00	30	8	0,235	0,177	-	35,14 €	
YG1-46	46	46,00	48,00	30	8	0,244	0,185	-	35,22 €	
YG1-47	47	47,00	49,00	30	8	0,252	0,193	-	35,40 €	
YG1-48	48	48,00	50,00	30	8	0,261	0,202	✓	35,44 €	
YG1-49	49	49,00	51,00	30	8	0,269	0,211	-	37,32 €	
YG1-50	50	50,00	52,00	35	10	0,297	0,216	✓	39,10 €	
YG1-51	51	51,00	53,00	35	10	0,307	0,225	-	39,74 €	
YG1-52	52	52,00	54,00	35	10	0,316	0,235	✓	40,23 €	
YG1-53	53	53,00	55,00	35	10	0,325	0,244	-	40,81 €	
YG1-54	54	54,00	56,00	35	10	0,335	0,254	✓	41,31 €	
YG1-55	55	55,00	57,00	35	10	0,345	0,264	-	41,96 €	
YG1-56	56	56,00	58,00	35	10	0,355	0,274	✓	42,04 €	
YG1-57	57	57,00	59,00	35	10	0,365	0,284	-	42,63 €	
YG1-58	58	58,00	60,00	35	10	0,375	0,294	-	43,26 €	
YG1-59	59	59,00	61,00	35	10	0,386	0,305	-	43,78 €	
YG1-60	60	60,00	62,00	35	10	0,397	0,316	✓	44,27 €	
YG1-61	61	61,00	63,00	35	10	0,406	0,326	-	44,93 €	
YG1-62	62	62,00	64,00	35	10	0,419	0,338	-	45,69 €	
YG1-63	63	63,00	65,00	35	10	0,430	0,349	-	47,05 €	
YG1-64	64	64,00	66,00	35	10	0,441	0,360	-	47,91 €	
YG1-65	65	65,00	67,00	35	10	0,453	0,372	-	49,01 €	
YG1-66	66	66,00	68,00	35	10	0,465	0,384	-	50,02 €	
YG1-68	68	68,00	70,00	35	10	0,489	0,408	-	51,49 €	
YG1-70	70	70,00	72,00	35	10	0,514	0,433	✓	52,54 €	
YG1-72	72	72,00	74,00	35	10	0,539	0,458	-	53,67 €	
YG1-73	73	73,00	75,00	35	10	0,553	0,471	-	55,89 €	
YG1-74	74	74,00	76,00	45	10	0,614	0,485	-	56,47 €	
YG1-76	76	76,00	78,00	45	10	0,641	0,512	-	57,23 €	
YG1-78	78	78,00	80,00	45	10	0,669	0,539	-	58,13 €	
YG1-80	80	80,00	82,00	45	10	0,697	0,568	✓	59,31 €	
YG1-84	84	84,00	86,00	45	10	0,756	0,627	-	60,19 €	
YG1-88	88	88,00	90,00	45	10	0,818	0,689	-	61,60 €	
YG1-90	90	90,00	92,00	45	10	0,850	0,721	✓	63,36 €	
YG1-96	96	96,00	98,00	45	10	0,951	0,822	-	70,24 €	
YG1-100	100	100,00	102,00	45	10	1,022	0,892	✓	71,15 €	
YG1-112	112	112,00	114,00	45	10	1,251	1,122	-	81,84 €	
YG1-120	120	120,00	122,00	45	12	1,418	1,289	✓	100,75 €	
YG1-130	130	130,00	132,00	45	12	1,644	1,515	-	114,38 €	
YG1-150	150	150,00	152,00	45	15	2,149	2,019	-	134,02 €	

On request

↓ **Gears available up to this size** ↓
YG1-590 590 590,00 592,00 Dimensions: contact us on request

*Depending on availability - Dimensions in mm

Brass spur gear



Module

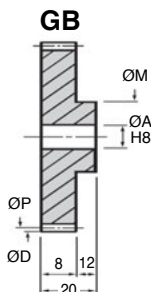
Brass CuZn40Pb3

1.0



- Quality standard 9
- Pressure angle 20°

Torque and power indication		
For 50 teeth at 1000 rpm		
	20NCD2	Brass
Nm	2.600	1.250
kW	0.254	0.134



DISCOUNTS

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

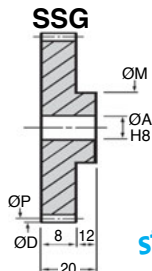
Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Price each 1 to 5
GB1-12	12	12,00	14,00	14	6	✓	15,12 €
GB1-15	15	15,00	17,00	12	8	✓	15,72 €
GB1-18	18	18,00	20,00	15	8	-	16,81 €
GB1-20	20	20,00	22,00	15	8	✓	17,38 €
GB1-22	22	22,00	24,00	15	8	-	19,08 €
GB1-25	25	25,00	27,00	15	8	✓	20,74 €
GB1-28	28	28,00	30,00	15	8	-	22,44 €
GB1-30	30	30,00	32,00	20	8	✓	24,70 €
GB1-32	32	32,00	34,00	20	8	-	26,37 €
GB1-36	36	36,00	38,00	20	8	-	28,07 €
GB1-40	40	40,00	42,00	20	8	✓	29,47 €
GB1-44	44	44,00	46,00	20	8	-	31,99 €
GB1-48	48	48,00	50,00	20	8	-	39,29 €
GB1-50	50	50,00	52,00	30	10	✓	40,99 €
GB1-54	54	54,00	56,00	30	10	-	48,29 €
GB1-56	56	56,00	58,00	30	10	-	50,00 €
GB1-60	60	60,00	62,00	30	10	-	51,95 €
GB1-64	64	64,00	66,00	30	10	-	55,07 €
GB1-66	66	66,00	68,00	30	10	-	56,16 €
GB1-70	70	70,00	72,00	30	10	-	61,79 €
GB1-80	80	80,00	82,00	30	10	-	109,55 €
GB1-90	90	90,00	92,00	30	10	-	140,49 €
GB1-100	100	100,00	102,00	30	10	-	213,54 €

↓ Gears available up to this size ↓			
GB1-590	590	590,00	592,00
Dimensions: contact us			On request

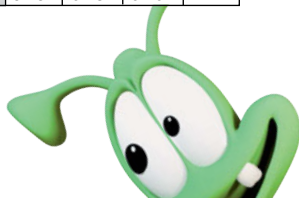
*Depending on availability - Dimensions in mm

- Quality standard 9
- Pressure angle 20°

Torque and power indication			
For 50 teeth at 1000 rpm			
	StS 304L	brass	fibre
Nm	2.600	1.250	1
kW	0.254	0.134	0.104



stainless steel



DISCOUNTS

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

Part number	Teeth Z	pcd ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG1-12-304L	12	12	14	14	6	25,99 €
SSG1-15-304L	15	15	17	12	8	26,66 €
SSG1-16-304L	16	16	18	12	8	28,08 €
SSG1-18-304L	18	18	20	15	8	28,96 €
SSG1-20-304L	20	20	22	15	8	29,04 €
SSG1-22-304L	22	22	24	15	8	30,18 €
SSG1-24-304L	24	24	26	15	8	30,30 €
SSG1-25-304L	25	25	27	15	8	30,97 €
SSG1-26-304L	26	26	28	15	8	32,30 €
SSG1-28-304L	28	28	30	15	8	33,58 €
SSG1-30-304L	30	30	32	20	8	31,41 €
SSG1-32-304L	32	32	34	20	8	37,17 €
SSG1-36-304L	36	36	38	20	8	41,95 €
SSG1-40-304L	40	40	42	20	8	45,52 €
SSG1-44-304L	44	44	46	20	8	48,88 €
SSG1-48-304L	48	48	50	20	8	52,05 €
SSG1-50-304L	50	50	52	30	10	55,70 €
SSG1-54-304L	54	54	56	30	10	60,61 €
SSG1-56-304L	56	56	58	30	10	61,68 €
SSG1-60-304L	60	60	62	30	10	69,60 €
SSG1-64-304L	64	64	66	30	10	76,93 €
SSG1-66-304L	66	66	68	30	10	88,38 €
SSG1-70-304L	70	70	72	30	10	93,05 €



Gears available up to this size



SSG1-590-304L	590	590	592	Dimensions: contact us	on request
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Dimensions in mm

Plastic spur gear



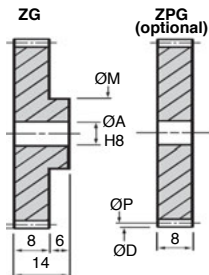
Module 1.0

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	outside 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	✓	8,48 €	
ZG1-10	10	11,00	13,00	12	4	0,0016	0,0008	✓	8,48 €	
ZG1-11	11	12,00	14,00	12	4	0,0018	0,0010	-	8,48 €	
ZG1-12	12	12,00	14,00	12	4	0,0018	0,0010	✓	8,48 €	
ZG1-13	13	13,00	15,00	12	4	0,0020	0,0012	-	8,71 €	
ZG1-14	14	14,00	16,00	12	4	0,0022	0,0015	✓	8,83 €	
ZG1-15	15	15,00	17,00	12	4	0,0025	0,0017	✓	8,97 €	
ZG1-16	16	16,00	18,00	15	6	0,0029	0,0018	✓	9,20 €	
ZG1-17	17	17,00	19,00	15	6	0,0032	0,0020	-	9,30 €	
ZG1-18	18	18,00	20,00	15	6	0,0035	0,0023	✓	9,53 €	
ZG1-19	19	19,00	21,00	15	6	0,0038	0,0026	-	9,56 €	
ZG1-20	20	20,00	22,00	15	6	0,0041	0,0029	✓	9,95 €	
ZG1-21	21	21,00	23,00	18	6	0,0050	0,0033	-	10,01 €	
ZG1-22	22	22,00	24,00	18	6	0,0054	0,0036	✓	10,18 €	
ZG1-23	23	23,00	25,00	18	6	0,0057	0,0040	-	10,18 €	
ZG1-24	24	24,00	26,00	18	6	0,0061	0,0044	✓	10,33 €	
ZG1-25	25	25,00	27,00	18	6	0,0065	0,0048	✓	10,72 €	
ZG1-26	26	26,00	28,00	18	6	0,0069	0,0052	✓	11,14 €	
ZG1-27	27	27,00	29,00	18	6	0,0073	0,0056	✓	11,33 €	
ZG1-28	28	28,00	30,00	18	6	0,0078	0,0060	-	11,59 €	
ZG1-29	29	29,00	31,00	18	6	0,0082	0,0065	-	11,86 €	
ZG1-30	30	30,00	32,00	18	6	0,0087	0,0070	✓	12,19 €	
ZG1-31	31	31,00	33,00	18	6	0,0092	0,0075	-	13,45 €	
ZG1-32	32	32,00	34,00	18	6	0,0097	0,0080	✓	13,69 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	ZPG	Stock*	Price each 1 to 5 ZG	ZPG
ZG1-33	33	33,00	35,00	18	6	0,0103	0,0085	-	13,83 €	
ZG1-34	34	34,00	36,00	18	6	0,0108	0,0090	✓	14,01 €	
ZG1-35	35	35,00	37,00	18	6	0,0114	0,0096	✓	14,15 €	
ZG1-36	36	36,00	38,00	18	6	0,0119	0,0102	✓	14,28 €	
ZG1-38	38	38,00	40,00	18	6	0,0131	0,0114	✓	14,67 €	
ZG1-39	39	39,00	41,00	18	6	0,0137	0,0120	-	17,04 €	
ZG1-40	40	40,00	42,00	18	6	0,0144	0,0126	✓	17,31 €	
ZG1-42	42	42,00	44,00	18	6	0,0157	0,0140	-	17,47 €	
ZG1-43	43	43,00	45,00	18	6	0,0164	0,0146	-	17,65 €	
ZG1-44	44	44,00	46,00	18	6	0,0171	0,0154	✓	17,81 €	
ZG1-45	45	45,00	47,00	18	6	0,0178	0,0161	✓	17,93 €	
ZG1-46	46	46,00	48,00	18	6	0,0186	0,0168	✓	18,40 €	
ZG1-47	47	47,00	49,00	18	6	0,0193	0,0176	-	19,14 €	
ZG1-48	48	48,00	50,00	18	6	0,0201	0,0183	✓	21,48 €	
ZG1-50	50	50,00	52,00	22	8	0,0222	0,0197	✓	23,69 €	
ZG1-51	51	51,00	53,00	22	8	0,0230	0,0205	-	23,97 €	
ZG1-52	52	52,00	54,00	22	8	0,0239	0,0213	-	24,47 €	
ZG1-53	53	53,00	55,00	22	8	0,0247	0,0222	✓	24,75 €	
ZG1-54	54	54,00	56,00	22	8	0,0256	0,0230	-	24,97 €	
ZG1-55	55	55,00	57,00	22	8	0,0265	0,0239	-	25,48 €	
ZG1-56	56	56,00	58,00	22	8	0,0274	0,0248	-	25,81 €	
ZG1-58	58	58,00	60,00	22	8	0,0292	0,0267	-	26,20 €	
ZG1-59	59	59,00	61,00	22	8	0,0302	0,0276	-	30,03 €	
ZG1-60	60	60,00	62,00	22	8	0,0311	0,0286	✓	30,44 €	
ZG1-61	61	61,00	63,00	22	8	0,0321	0,0295	✓	30,85 €	
ZG1-62	62	62,00	64,00	22	8	0,0331	0,0305	-	31,41 €	
ZG1-63	63	63,00	65,00	22	8	0,0341	0,0316	-	32,30 €	
ZG1-64	64	64,00	66,00	22	8	0,0351	0,0326	-	32,89 €	
ZG1-65	65	65,00	67,00	22	8	0,0362	0,0336	-	33,66 €	
ZG1-66	66	66,00	68,00	22	8	0,0372	0,0347	-	34,36 €	
ZG1-68	68	68,00	70,00	22	8	0,0394	0,0368	-	35,40 €	
ZG1-70	70	70,00	72,00	22	8	0,0416	0,0391	✓	36,13 €	
ZG1-72	72	72,00	74,00	22	8	0,0439	0,0414	✓	36,90 €	
ZG1-73	73	73,00	75,00	22	8	0,0451	0,0425	-	37,92 €	
ZG1-74	74	74,00	76,00	22	8	0,0463	0,0437	✓	41,19 €	
ZG1-76	76	76,00	78,00	22	8	0,0487	0,0462	-	41,76 €	
ZG1-78	78	78,00	80,00	22	8	0,0512	0,0486	-	42,34 €	
ZG1-80	80	80,00	82,00	22	8	0,0537	0,0512	✓	43,18 €	
ZG1-84	84	84,00	86,00	22	8	0,0590	0,0565	-	43,82 €	
ZG1-88	88	88,00	90,00	22	8	0,0646	0,0621	-	44,80 €	
ZG1-90	90	90,00	92,00	26	8	0,0686	0,0649	✓	51,31 €	
ZG1-96	96	96,00	98,00	26	8	0,0777	0,0739	-	56,85 €	
ZG1-100	100	100,00	102,00	30	10	0,0840	0,0803	-	56,13 €	
ZG1-112	112	112,00	114,00	30	10	0,1045	0,1008	-	61,31 €	
ZG1-120	120	120,00	122,00	40	12	0,1195	0,1158	-	75,46 €	
ZG1-130	130	130,00	132,00	40	12	0,1397	0,1360	-	89,62 €	
ZG1-140	140	140,00	142,00	40	12	0,1616	0,1579	✓	110,35 €	

On request

↓ **Gears available up to this size** ↓
ZG1-590 590 590,00 592,00 Dimensions : contact us on request

*Depending on availability - Dimensions in mm

Moulded plastic spur gear



Module 1.0



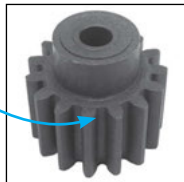
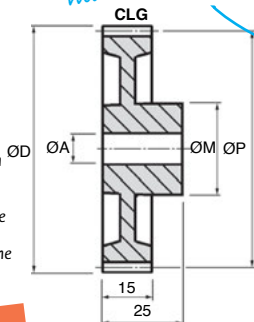
Nylon 6 moulded

- Moulded parts
- Pressure angle 20°
- Material:
Nylon 6, Reinforced with 30% glass fibres

Options

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format
- HPC are unable to modify these parts. For parts that can be modified to order, please see the ZG and ZPG ranges.

A: Pre-bored hole must be finished



Economy range

DISCOUNTS

Qty	1+	10+	10+	100+	1000+
Disc.	List	-10%	-25%	-35%	On request

Part number	No. of teeth	Outside ØD	PCD ØP	Boss ØM	Bore ØA	Stock*	Price each 1 to 9
CLG1-12	12	14	12	9	4	✓	3,73 €
CLG1-15	15	17	15	10	4	✓	3,73 €
CLG1-16	16	18	16	13	5	✓	3,91 €
CLG1-20	20	22	20	16	5	✓	3,91 €
CLG1-24	24	26	24	20	6	✓	4,11 €
CLG1-25	25	27	25	20	6	✓	4,11 €
CLG1-28	28	30	28	22	6	✓	5,11 €
CLG1-30	30	32	30	25	6	✓	5,11 €
CLG1-32	32	34	32	25	6	✓	5,31 €
CLG1-35	35	37	35	30	8	✓	5,31 €
CLG1-40	40	42	40	30	8	✓	6,29 €
CLG1-45	45	47	45	35	10	✓	6,71 €
CLG1-50	50	52	50	35	10	✓	7,50 €
CLG1-55	55	57	55	35	14	✓	8,10 €
CLG1-60	60	62	60	40	14	✓	9,12 €
CLG1-70	70	72	70	40	20	✓	10,52 €
CLG1-72	72	74	72	40	20	✓	10,52 €
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

Find our full range of

GEARS

on **HPCEUROPE.COM**



Economy range

- High modules
3-4-5-6
- C45 steel
- Pre-bored

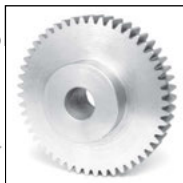
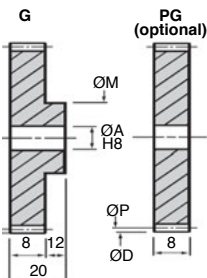


Module 1.25



- 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	3.80	18	1.90	1.52
kW	0.40	1.89	0.19	0.16



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G PG	Stock*	Price each 1 to 5 G PG
G1.25-9	9	12,50	15,00	15,00	6	0,019 0,006	-	72,05 €
G1.25-10	10	13,75	16,25	16,25	6	0,024 0,007	✓	22,07 €
G1.25-11	11	15,00	17,50	17,50	6	0,029 0,009	-	22,07 €
G1.25-12	12	15,00	17,50	17,50	6	0,029 0,009	✓	22,07 €
G1.25-13	13	16,25	18,75	18,25	6	0,032 0,011	-	23,11 €
G1.25-14	14	17,50	20,00	20,00	6	0,039 0,013	✓	23,53 €
G1.25-15	15	18,75	21,25	12,00	6	0,023 0,015	✓	23,93 €
G1.25-16	16	20,00	22,50	12,00	8	0,022 0,016	✓	24,75 €
G1.25-17	17	21,25	23,75	12,00	8	0,024 0,019	✓	25,39 €
G1.25-18	18	22,50	25,00	15,00	8	0,033 0,021	-	26,00 €
G1.25-19	19	23,75	26,25	15,00	8	0,036 0,024	-	27,05 €
G1.25-20	20	25,00	27,50	15,00	8	0,039 0,027	✓	27,42 €
G1.25-21	21	26,25	28,75	15,00	8	0,042 0,030	-	27,82 €
G1.25-22	22	27,50	30,00	15,00	8	0,045 0,033	✓	28,07 €
G1.25-23	23	28,75	31,25	15,00	8	0,048 0,037	-	28,41 €
G1.25-24	24	30,00	32,50	15,00	8	0,052 0,040	-	28,90 €
G1.25-25	25	31,25	33,75	15,00	8	0,055 0,044	-	29,52 €
G1.25-26	26	32,50	35,00	15,00	8	0,059 0,048	-	29,87 €
G1.25-27	27	33,75	36,25	15,00	8	0,063 0,052	-	30,54 €
G1.25-28	28	35,00	37,50	15,00	8	0,067 0,056	-	31,86 €
G1.25-29	29	36,25	38,75	15,00	8	0,072 0,060	-	32,69 €
G1.25-30	30	37,50	40,00	20,00	8	0,089 0,065	-	33,78 €
G1.25-31	31	38,75	41,25	20,00	8	0,093 0,069	-	34,48 €
G1.25-32	32	40,00	42,50	20,00	8	0,098 0,074	✓	35,17 €
G1.25-33	33	41,25	43,75	20,00	8	0,103 0,079	-	35,84 €

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G	PG	Stock*	Price each 1 to 5 G PG
G1.25-34	34	42,50	45,00	20,00	8	0,108	0,084	✓	36,31 €
G1.25-35	35	43,75	46,25	20,00	8	0,113	0,089	-	37,12 €
G1.25-36	36	45,00	47,50	20,00	8	0,119	0,094	✓	37,58 €
G1.25-37	37	46,25	48,75	20,00	8	0,124	0,100	-	37,95 €
G1.25-38	38	47,50	50,00	20,00	8	0,130	0,105	-	38,36 €
G1.25-39	39	48,75	51,25	20,00	8	0,135	0,111	-	38,87 €
G1.25-40	40	50,00	52,50	30,00	10	0,173	0,115	✓	39,13 €
G1.25-41	41	51,25	53,75	30,00	10	0,179	0,121	✓	39,30 €
G1.25-42	42	52,50	55,00	30,00	10	0,185	0,128	-	39,48 €
G1.25-43	43	53,75	56,25	30,00	10	0,192	0,134	-	39,74 €
G1.25-44	44	55,00	57,50	30,00	10	0,198	0,141	-	39,88 €
G1.25-45	45	56,25	58,75	30,00	10	0,205	0,147	✓	40,06 €
G1.25-46	46	57,50	60,00	30,00	10	0,212	0,154	-	40,18 €
G1.25-47	47	58,75	61,25	30,00	10	0,219	0,161	-	40,45 €
G1.25-48	48	60,00	62,50	30,00	10	0,226	0,168	-	40,58 €
G1.25-49	49	61,25	63,75	30,00	10	0,233	0,176	-	41,46 €
G1.25-50	50	62,50	65,00	30,00	10	0,241	0,183	✓	41,80 €
G1.25-51	51	63,75	66,25	30,00	10	0,248	0,191	-	42,23 €
G1.25-52	52	65,00	67,50	30,00	10	0,256	0,198	-	42,63 €
G1.25-53	53	66,25	68,75	30,00	10	0,264	0,206	-	43,03 €
G1.25-54	54	67,50	70,00	30,00	10	0,272	0,214	-	43,31 €
G1.25-55	55	68,75	71,25	30,00	10	0,280	0,222	-	43,61 €
G1.25-56	56	70,00	72,50	30,00	10	0,288	0,231	-	45,52 €
G1.25-57	57	71,25	73,75	30,00	10	0,297	0,239	-	47,66 €
G1.25-58	58	72,50	75,00	30,00	10	0,306	0,248	-	48,27 €
G1.25-59	59	73,75	76,25	30,00	10	0,314	0,257	-	49,34 €
G1.25-60	60	75,00	77,50	30,00	10	0,323	0,266	-	50,44 €
G1.25-61	61	76,25	78,75	30,00	10	0,332	0,275	-	50,89 €
G1.25-62	62	77,50	80,00	30,00	10	0,342	0,284	-	51,64 €
G1.25-63	63	78,75	81,25	30,00	10	0,351	0,293	-	52,14 €
G1.25-64	64	80,00	82,50	30,00	10	0,361	0,303	-	52,73 €
G1.25-65	65	81,25	83,75	30,00	10	0,370	0,313	-	53,44 €
G1.25-66	66	82,50	85,00	30,00	10	0,380	0,322	-	54,20 €
G1.25-68	68	85,00	87,50	30,00	10	0,400	0,343	-	55,45 €
G1.25-70	70	87,50	90,00	30,00	10	0,421	0,363	✓	56,46 €
G1.25-72	72	90,00	92,50	30,00	10	0,442	0,385	-	56,75 €
G1.25-73	73	91,25	93,75	30,00	10	0,453	0,396	-	57,01 €
G1.25-74	74	92,50	95,00	30,00	10	0,464	0,407	-	57,34 €
G1.25-76	76	95,00	97,50	30,00	10	0,487	0,429	-	58,36 €
G1.25-78	78	97,50	100,00	30,00	10	0,510	0,452	-	60,38 €
G1.25-80	80	100,00	102,50	30,00	10	0,534	0,476	-	64,39 €
G1.25-84	84	105,00	107,50	30,00	10	0,583	0,525	-	64,96 €
G1.25-88	88	110,00	112,50	30,00	10	0,635	0,577	-	71,40 €
G1.25-90	90	112,50	115,00	30,00	10	0,661	0,604	-	72,05 €
G1.25-96	96	120,00	122,50	30,00	12	0,745	0,688	-	82,91 €
G1.25-100	100	125,00	127,50	30,00	12	0,804	0,746	-	84,22 €
G1.25-112	112	140,00	142,50	30,00	12	0,995	0,938	-	93,19 €
G1.25-120	120	150,00	152,50	40,00	15	1,135	1,077	-	99,69 €
G1.25-130	130	162,50	165,00	40,00	15	1,323	1,265	-	111,10 €
G1.25-140	140	175,00	177,50	40,00	15	1,525	1,468	-	120,06 €

On request

↓ **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

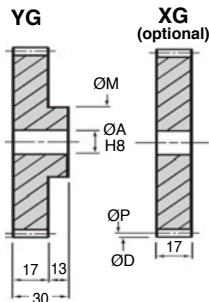
Steel 35NCD6



- Greater 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	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	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG1.25-9	9	12,50	15,00	15,00	6	0,027	0,012	27,47 €	On request
YG1.25-10	10	13,75	16,25	16,25	6	0,033	0,016	27,47 €	
YG1.25-11	11	15,00	17,50	17,50	6	0,040	0,019	27,47 €	
YG1.25-12	12	15,00	17,50	17,50	6	0,040	0,019	27,47 €	
YG1.25-13	13	16,25	18,75	18,75	6	0,048	0,023	28,83 €	
YG1.25-14	14	17,50	20,00	20,00	6	0,056	0,028	29,30 €	
YG1.25-15	15	18,75	21,25	20,00	6	0,061	0,032	29,92 €	
YG1.25-16	16	20,00	22,50	20,00	8	0,061	0,034	30,79 €	
YG1.25-17	17	21,25	23,75	20,00	8	0,066	0,040	31,58 €	
YG1.25-18	18	22,50	25,00	25,00	8	0,089	0,045	32,49 €	
YG1.25-19	19	23,75	26,25	25,00	8	0,095	0,051	33,69 €	
YG1.25-20	20	25,00	27,50	25,00	8	0,101	0,057	34,17 €	
YG1.25-21	21	26,25	28,75	25,00	8	0,108	0,064	34,67 €	
YG1.25-22	22	27,50	30,00	25,00	8	0,115	0,071	35,01 €	
YG1.25-23	23	28,75	31,25	25,00	8	0,122	0,078	35,44 €	
YG1.25-24	24	30,00	32,50	25,00	8	0,129	0,085	36,00 €	
YG1.25-25	25	31,25	33,75	25,00	8	0,137	0,093	36,76 €	
YG1.25-26	26	32,50	35,00	25,00	8	0,145	0,101	37,18 €	
YG1.25-27	27	33,75	36,25	25,00	8	0,154	0,110	38,08 €	
YG1.25-28	28	35,00	37,50	25,00	8	0,162	0,119	39,80 €	
YG1.25-29	29	36,25	38,75	25,00	8	0,172	0,128	40,81 €	
YG1.25-30	30	37,50	40,00	35,00	8	0,228	0,137	42,11 €	
YG1.25-31	31	38,75	41,25	35,00	8	0,238	0,147	43,03 €	
YG1.25-32	32	40,00	42,50	35,00	8	0,248	0,157	43,89 €	
YG1.25-33	33	41,25	43,75	35,00	8	0,258	0,167	44,71 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG1.25-34	34	42,50	45,00	35,00	8	0,269	0,178	45,30 €	
YG1.25-35	35	43,75	46,25	35,00	8	0,280	0,189	46,29 €	
YG1.25-36	36	45,00	47,50	35,00	8	0,291	0,200	46,94 €	
YG1.25-37	37	46,25	48,75	35,00	8	0,303	0,212	47,28 €	
YG1.25-38	38	47,50	50,00	35,00	8	0,315	0,224	47,83 €	
YG1.25-39	39	48,75	51,25	35,00	8	0,327	0,236	48,42 €	
YG1.25-40	40	50,00	52,50	45,00	10	0,396	0,245	48,83 €	
YG1.25-41	41	51,25	53,75	45,00	10	0,409	0,258	49,12 €	
YG1.25-42	42	52,50	55,00	45,00	10	0,422	0,271	49,31 €	
YG1.25-43	43	53,75	56,25	45,00	10	0,435	0,285	49,51 €	
YG1.25-44	44	55,00	57,50	45,00	10	0,449	0,299	49,76 €	
YG1.25-45	45	56,25	58,75	45,00	10	0,463	0,313	50,00 €	
YG1.25-46	46	57,50	60,00	45,00	10	0,478	0,328	50,15 €	
YG1.25-47	47	58,75	61,25	45,00	10	0,493	0,342	50,40 €	
YG1.25-48	48	60,00	62,50	45,00	10	0,508	0,358	50,60 €	
YG1.25-49	49	61,25	63,75	45,00	10	0,523	0,373	51,70 €	
YG1.25-50	50	62,50	65,00	45,00	10	0,539	0,389	52,18 €	
YG1.25-51	51	63,75	66,25	45,00	10	0,555	0,405	52,60 €	
YG1.25-52	52	65,00	67,50	45,00	10	0,572	0,421	53,26 €	
YG1.25-53	53	66,25	68,75	45,00	10	0,589	0,438	53,50 €	
YG1.25-54	54	67,50	70,00	45,00	10	0,606	0,455	53,98 €	
YG1.25-55	55	68,75	71,25	45,00	10	0,623	0,473	54,40 €	
YG1.25-56	56	70,00	72,50	45,00	10	0,641	0,490	56,78 €	
YG1.25-57	57	71,25	73,75	45,00	10	0,659	0,508	59,42 €	
YG1.25-58	58	72,50	75,00	45,00	10	0,677	0,527	60,19 €	
YG1.25-59	59	73,75	76,25	45,00	10	0,696	0,545	61,60 €	
YG1.25-60	60	75,00	77,50	45,00	10	0,715	0,564	62,84 €	
YG1.25-61	61	76,25	78,75	45,00	10	0,734	0,584	64,92 €	
YG1.25-62	62	77,50	80,00	60,00	10	0,877	0,603	64,39 €	
YG1.25-63	63	78,75	81,25	60,00	10	0,897	0,623	64,96 €	
YG1.25-64	64	80,00	82,50	60,00	10	0,917	0,644	65,72 €	
YG1.25-65	65	81,25	83,75	60,00	10	0,938	0,664	66,61 €	
YG1.25-66	66	82,50	85,00	60,00	10	0,959	0,685	67,49 €	
YG1.25-68	68	85,00	87,50	60,00	10	1,001	0,728	69,14 €	
YG1.25-70	70	87,50	90,00	60,00	10	1,045	0,772	70,33 €	
YG1.25-72	72	90,00	92,50	60,00	10	1,091	0,817	70,81 €	
YG1.25-73	73	91,25	93,75	60,00	10	1,114	0,841	71,07 €	
YG1.25-74	74	92,50	95,00	60,00	10	1,137	0,864	71,53 €	
YG1.25-76	76	95,00	97,50	60,00	10	1,185	0,912	72,72 €	
YG1.25-78	78	97,50	100,00	60,00	10	1,234	0,961	75,29 €	
YG1.25-80	80	100,00	102,50	60,00	10	1,285	1,011	80,33 €	
YG1.25-84	84	105,00	107,50	60,00	10	1,390	1,116	81,09 €	
YG1.25-88	88	110,00	112,50	60,00	10	1,499	1,226	89,01 €	
YG1.25-90	90	112,50	115,00	60,00	10	1,556	1,283	103,27 €	
YG1.25-96	96	120,00	122,50	60,00	12	1,734	1,461	103,99 €	
YG1.25-100	100	125,00	127,50	60,00	12	1,860	1,586	104,90 €	
YG1.25-112	112	140,00	142,50	60,00	12	2,266	1,992	133,41 €	
YG1.25-120	120	150,00	152,50	60,00	15	2,562	2,289	133,41 €	
YG1.25-130	130	162,50	165,00	60,00	15	2,961	2,688	145,03 €	
YG1.25-140	140	175,00	177,50	60,00	15	3,392	3,119	168,77 €	
↓ Gears available up to this size ↓									
YG1.25-142	142	177,50	180,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Plastic spur gear

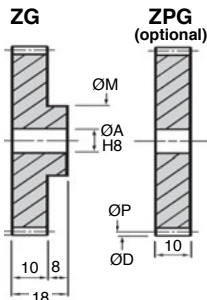
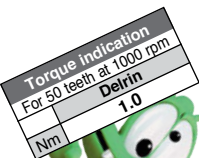


Module 1.25

Machined Delrin



- Machined parts
- Precision class 9
- Pressure angle 20°
- Working temp. -50°C to +80°C



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						ZG	ZPG	ZG	ZPG
ZG1.25-9	9	12,50	15,00	15	5	0,003	0,001	11,03 €	On request
ZG1.25-10	10	13,75	16,25	15	5	0,003	0,002	11,03 €	
ZG1.25-11	11	15,00	17,50	15	5	0,004	0,002	11,03 €	
ZG1.25-12	12	15,00	17,50	15	5	0,004	0,002	11,03 €	
ZG1.25-13	13	16,25	18,75	15	5	0,004	0,002	11,03 €	
ZG1.25-14	14	17,50	20,00	15	5	0,004	0,003	11,14 €	
ZG1.25-15	15	18,75	21,25	15	5	0,005	0,003	11,44 €	
ZG1.25-16	16	20,00	22,50	16	6	0,005	0,004	11,74 €	
ZG1.25-17	17	21,25	23,75	16	6	0,006	0,004	12,19 €	
ZG1.25-18	18	22,50	25,00	16	6	0,007	0,005	12,44 €	
ZG1.25-19	19	23,75	26,25	16	6	0,007	0,005	13,59 €	
ZG1.25-20	20	25,00	27,50	16	6	0,008	0,006	13,74 €	
ZG1.25-21	21	26,25	28,75	18	6	0,009	0,007	13,95 €	
ZG1.25-22	22	27,50	30,00	18	6	0,010	0,007	14,03 €	
ZG1.25-23	23	28,75	31,25	18	6	0,010	0,008	15,69 €	
ZG1.25-24	24	30,00	32,50	18	6	0,011	0,009	15,99 €	
ZG1.25-25	25	31,25	33,75	18	6	0,012	0,009	16,25 €	
ZG1.25-26	26	32,50	35,00	18	6	0,013	0,010	16,47 €	
ZG1.25-27	27	33,75	36,25	18	6	0,013	0,011	16,90 €	
ZG1.25-28	28	35,00	37,50	18	6	0,014	0,012	17,65 €	
ZG1.25-29	29	36,25	38,75	18	6	0,015	0,013	18,06 €	
ZG1.25-30	30	37,50	40,00	18	6	0,016	0,014	18,66 €	
ZG1.25-31	31	38,75	41,25	18	6	0,017	0,015	21,71 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside 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	22,11 €
ZG1.25-33	33	41,25	43,75	18	6	0,019	0,017	22,55 €
ZG1.25-34	34	42,50	45,00	18	6	0,020	0,018	22,85 €
ZG1.25-35	35	43,75	46,25	18	6	0,021	0,019	23,35 €
ZG1.25-36	36	45,00	47,50	18	6	0,022	0,020	23,69 €
ZG1.25-38	38	47,50	50,00	18	6	0,025	0,022	24,10 €
ZG1.25-39	39	48,75	51,25	18	6	0,026	0,024	29,37 €
ZG1.25-40	40	50,00	52,50	22	8	0,028	0,025	29,58 €
ZG1.25-41	41	51,25	53,75	22	8	0,029	0,026	29,68 €
ZG1.25-42	42	52,50	55,00	22	8	0,031	0,027	29,87 €
ZG1.25-44	44	55,00	57,50	22	8	0,033	0,030	30,14 €
ZG1.25-45	45	56,25	58,75	22	8	0,035	0,031	30,27 €
ZG1.25-46	46	57,50	60,00	22	8	0,036	0,033	30,38 €
ZG1.25-47	47	58,75	61,25	22	8	0,038	0,034	34,67 €
ZG1.25-48	48	60,00	62,50	22	8	0,039	0,036	34,77 €
ZG1.25-49	49	61,25	63,75	22	8	0,041	0,037	35,56 €
ZG1.25-50	50	62,50	65,00	22	8	0,042	0,039	35,83 €
ZG1.25-51	51	63,75	66,25	22	8	0,044	0,040	36,23 €
ZG1.25-52	52	65,00	67,50	22	8	0,045	0,042	36,57 €
ZG1.25-53	53	66,25	68,75	22	8	0,047	0,044	36,84 €
ZG1.25-54	54	67,50	70,00	22	8	0,049	0,045	37,05 €
ZG1.25-55	55	68,75	71,25	26	10	0,051	0,047	37,42 €
ZG1.25-56	56	70,00	72,50	26	10	0,053	0,048	39,06 €
ZG1.25-57	57	71,25	73,75	26	10	0,055	0,050	40,78 €
ZG1.25-58	58	72,50	75,00	26	10	0,057	0,052	41,36 €
ZG1.25-59	59	73,75	76,25	26	10	0,059	0,054	44,80 €
ZG1.25-60	60	75,00	77,50	26	10	0,060	0,056	45,79 €
ZG1.25-61	61	76,25	78,75	26	10	0,062	0,058	46,26 €
ZG1.25-62	62	77,50	80,00	26	10	0,064	0,060	46,94 €
ZG1.25-63	63	78,75	81,25	26	10	0,066	0,062	47,33 €
ZG1.25-64	64	80,00	82,50	26	10	0,068	0,064	47,83 €
ZG1.25-65	65	81,25	83,75	26	10	0,070	0,066	48,48 €
ZG1.25-66	66	82,50	85,00	26	10	0,072	0,068	49,07 €
ZG1.25-68	68	85,00	87,50	26	10	0,077	0,072	50,43 €
ZG1.25-70	70	87,50	90,00	26	10	0,081	0,076	51,24 €
ZG1.25-72	72	90,00	92,50	26	10	0,085	0,081	57,31 €
ZG1.25-73	73	91,25	93,75	26	10	0,088	0,083	57,59 €
ZG1.25-74	74	92,50	95,00	26	10	0,090	0,085	57,88 €
ZG1.25-76	76	95,00	97,50	26	10	0,095	0,090	58,88 €
ZG1.25-78	78	97,50	100,00	26	10	0,100	0,095	60,98 €
ZG1.25-80	80	100,00	102,50	30	10	0,106	0,100	71,47 €
ZG1.25-84	84	105,00	107,50	30	10	0,117	0,110	64,02 €
ZG1.25-88	88	110,00	112,50	30	10	0,128	0,121	70,41 €
ZG1.25-90	90	112,50	115,00	30	10	0,133	0,127	70,99 €
ZG1.25-96	96	120,00	122,50	30	12	0,151	0,144	89,09 €
ZG1.25-100	100	125,00	127,50	30	12	0,163	0,157	90,45 €
ZG1.25-112	112	140,00	142,50	30	12	0,203	0,197	116,86 €
ZG1.25-120	120	150,00	152,50	40	15	0,233	0,226	115,82 €
↓ Gears available up to this size ↓								
ZG1.25-142	142	177,50	180,00	Dimensions: contact us				On request

Dimensions in mm

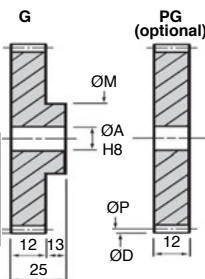
On request

Module 1.5



- 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	8.88	41.50	4.44	3.55
kW	0.93	4.23	0.46	0.37



IN STOCK*
Otherwise contact us

DISCOUNTS

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

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg)		Stock*	Price each 1 to 5	
						G	PG		G	PG
G1.5-9	9	15,00	18,00	18	8	0,032	0,012	✓	22,09 €	
G1.5-10	10	16,50	19,50	18	8	0,035	0,015	✓	22,09 €	
G1.5-11	11	18,00	21,00	18	8	0,039	0,019	-	22,09 €	
G1.5-12	12	18,00	21,00	14	8	0,029	0,019	✓	10,84 €	
G1.5-13	13	19,50	22,50	15	8	0,035	0,023	✓	21,71 €	
G1.5-14	14	21,00	24,00	15	8	0,040	0,027	✓	22,25 €	
G1.5-15	15	22,50	25,50	18	8	0,052	0,032	✓	11,75 €	
G1.5-16	16	24,00	27,00	20	10	0,058	0,034	✓	12,07 €	
G1.5-17	17	25,50	28,50	20	10	0,063	0,040	✓	24,13 €	
G1.5-18	18	27,00	30,00	20	10	0,069	0,045	✓	19,79 €	
G1.5-19	19	28,50	31,50	20	10	0,075	0,051	✓	25,81 €	
G1.5-20	20	30,00	33,00	20	10	0,081	0,058	✓	13,99 €	
G1.5-21	21	31,50	34,50	20	10	0,088	0,064	✓	13,99 €	
G1.5-22	22	33,00	36,00	20	10	0,095	0,071	✓	14,29 €	
G1.5-23	23	34,50	37,50	20	10	0,102	0,079	✓	28,13 €	
G1.5-24	24	36,00	39,00	25	10	0,127	0,086	✓	14,68 €	
G1.5-25	25	37,50	40,50	25	10	0,135	0,094	-	29,92 €	
G1.5-26	26	39,00	42,00	25	10	0,144	0,102	-	31,33 €	
G1.5-27	27	40,50	43,50	25	10	0,152	0,111	✓	32,30 €	
G1.5-28	28	42,00	45,00	25	10	0,161	0,120	✓	33,27 €	
G1.5-29	29	43,50	46,50	25	10	0,170	0,129	-	33,81 €	
G1.5-30	30	45,00	48,00	25	10	0,180	0,139	✓	17,98 €	
G1.5-31	31	46,50	49,50	25	10	0,190	0,149	✓	35,33 €	
G1.5-32	32	48,00	51,00	25	10	0,200	0,159	✓	18,59 €	
G1.5-33	33	49,50	52,50	25	10	0,211	0,170	✓	36,31 €	
G1.5-34	34	51,00	54,00	25	10	0,221	0,180	✓	36,65 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	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	-	37,07 €	
G1.5-36	36	54,00	57,00	30	15	0,247	0,194	✓	20,14 €	
G1.5-37	37	55,50	58,50	30	15	0,259	0,206	-	39,82 €	
G1.5-38	38	57,00	60,00	30	15	0,271	0,218	-	40,69 €	
G1.5-39	39	58,50	61,50	30	15	0,283	0,231	✓	41,55 €	
G1.5-40	40	60,00	63,00	40	15	0,351	0,243	✓	42,43 €	
G1.5-41	41	61,50	64,50	40	15	0,364	0,257	-	42,43 €	
G1.5-42	42	63,00	66,00	40	15	0,377	0,270	✓	42,47 €	
G1.5-43	43	64,50	67,50	40	15	0,391	0,284	-	42,54 €	
G1.5-44	44	66,00	69,00	40	15	0,405	0,298	-	42,54 €	
G1.5-45	45	67,50	70,50	40	15	0,420	0,312	-	43,40 €	
G1.5-46	46	69,00	72,00	40	15	0,435	0,327	✓	44,36 €	
G1.5-47	47	70,50	73,50	40	15	0,450	0,342	-	45,41 €	
G1.5-48	48	72,00	75,00	40	15	0,465	0,358	✓	46,38 €	
G1.5-49	49	73,50	76,50	40	15	0,481	0,373	✓	46,38 €	
G1.5-50	50	75,00	78,00	40	15	0,497	0,389	✓	51,83 €	
G1.5-51	51	76,50	79,50	40	15	0,513	0,406	-	53,41 €	
G1.5-52	52	78,00	81,00	40	15	0,530	0,423	✓	54,50 €	
G1.5-53	53	79,50	82,50	40	15	0,547	0,440	-	55,37 €	
G1.5-54	54	81,00	84,00	40	15	0,564	0,457	✓	55,56 €	
G1.5-55	55	82,50	85,50	40	15	0,582	0,475	-	55,80 €	
G1.5-56	56	84,00	87,00	40	15	0,600	0,493	-	56,26 €	
G1.5-57	57	85,50	88,50	40	15	0,618	0,511	-	56,78 €	
G1.5-58	58	87,00	90,00	40	15	0,637	0,530	-	56,78 €	
G1.5-59	59	88,50	91,50	40	15	0,656	0,549	-	57,34 €	
G1.5-60	60	90,00	93,00	40	15	0,675	0,568	✓	57,68 €	
G1.5-62	62	93,00	96,00	40	15	0,715	0,608	-	58,80 €	
G1.5-64	64	96,00	99,00	40	15	0,756	0,648	-	59,53 €	
G1.5-65	65	97,50	100,50	40	15	0,777	0,669	-	60,98 €	
G1.5-66	66	99,00	102,00	40	15	0,798	0,691	-	63,20 €	
G1.5-68	68	102,00	105,00	40	15	0,842	0,734	-	64,65 €	
G1.5-70	70	105,00	108,00	40	15	0,886	0,779	✓	66,96 €	
G1.5-71	71	106,50	109,50	50	15	0,980	0,802	-	68,81 €	
G1.5-72	72	108,00	111,00	50	15	1,003	0,825	-	70,81 €	
G1.5-73	73	109,50	112,50	50	15	1,026	0,849	-	72,52 €	
G1.5-74	74	111,00	114,00	50	15	1,050	0,872	-	75,02 €	
G1.5-75	75	112,50	115,50	50	15	1,074	0,897	-	75,46 €	
G1.5-76	76	114,00	117,00	50	15	1,099	0,921	-	75,77 €	
G1.5-78	78	117,00	120,00	50	15	1,149	0,971	-	79,59 €	
G1.5-80	80	120,00	123,00	50	15	1,200	1,022	✓	82,49 €	
G1.5-86	86	129,00	132,00	50	15	1,362	1,184	-	88,64 €	
G1.5-90	90	135,00	138,00	50	15	1,476	1,298	✓	94,96 €	
G1.5-96	96	144,00	147,00	50	15	1,657	1,479	-	101,24 €	
G1.5-98	98	147,00	150,00	50	15	1,720	1,542	-	107,53 €	
G1.5-100	100	150,00	153,00	50	15	1,784	1,606	✓	114,56 €	
G1.5-105	105	157,50	160,50	50	15	1,951	1,773	-	122,04 €	
G1.5-110	110	165,00	168,00	50	15	2,125	1,947	-	131,68 €	
G1.5-115	115	172,50	175,50	50	15	2,308	2,130	-	146,66 €	
G1.5-120	120	180,00	183,00	50	15	2,498	2,320	-	163,94 €	

On request

↓ **Gears available up to this size** ↓
G1.5-298 298 447,00 450,00 Dimensions : contact us on request

*Depending on availability

Module 1.5

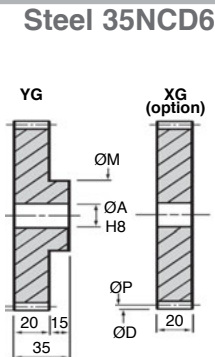


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material :
20NCD2 case-hardened

Torque and power indication			
For 50 teeth at 1000 rpm			
	35NCD6	35NCD6 hardened	20NCD2 hardened
Nm	32	46	32
kW	3.342	4.879	3.342



IN STOCK*
Otherwise contact us



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Stock*	Price each 1 to 5 YG	XG
YG1.5-9	9	15,00	18,00	18,00	8	0,043	0,019	✓	27,56 €	
YG1.5-10	10	16,50	19,50	19,50	8	0,054	0,025	✓	27,56 €	
YG1.5-11	11	18,00	21,00	21,00	8	0,065	0,031	✓	27,56 €	
YG1.5-12	12	18,00	21,00	21,00	8	0,065	0,031	✓	26,25 €	
YG1.5-13	13	19,50	22,50	20,00	8	0,068	0,038	✓	27,05 €	
YG1.5-14	14	21,00	24,00	20,00	8	0,076	0,045	-	27,72 €	
YG1.5-15	15	22,50	25,50	20,00	8	0,083	0,053	✓	28,44 €	
YG1.5-16	16	24,00	27,00	25,00	10	0,105	0,057	✓	29,23 €	
YG1.5-17	17	25,50	28,50	25,00	10	0,113	0,066	-	30,11 €	
YG1.5-18	18	27,00	30,00	25,00	10	0,123	0,076	-	31,13 €	
YG1.5-19	19	28,50	31,50	25,00	10	0,133	0,086	-	32,49 €	
YG1.5-20	20	30,00	33,00	25,00	10	0,143	0,096	✓	33,81 €	
YG1.5-21	21	31,50	34,50	25,00	10	0,155	0,107	-	34,17 €	
YG1.5-22	22	33,00	36,00	30,00	10	0,191	0,119	✓	34,52 €	
YG1.5-23	23	34,50	37,50	30,00	10	0,203	0,131	-	35,01 €	
YG1.5-24	24	36,00	39,00	30,00	10	0,216	0,144	✓	35,44 €	
YG1.5-25	25	37,50	40,50	30,00	10	0,229	0,157	-	37,32 €	
YG1.5-26	26	39,00	42,00	30,00	10	0,243	0,171	-	39,06 €	
YG1.5-27	27	40,50	43,50	30,00	10	0,257	0,185	✓	40,23 €	
YG1.5-28	28	42,00	45,00	30,00	10	0,272	0,200	✓	41,52 €	
YG1.5-29	29	43,50	46,50	30,00	10	0,288	0,215	-	42,19 €	
YG1.5-30	30	45,00	48,00	30,00	10	0,304	0,231	✓	43,40 €	
YG1.5-31	31	46,50	49,50	30,00	10	0,320	0,248	-	44,04 €	
YG1.5-32	32	48,00	51,00	30,00	10	0,337	0,265	-	44,93 €	
YG1.5-33	33	49,50	52,50	30,00	10	0,355	0,283	✓	45,30 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Stock*	Price each 1 to 5 YG	XG
YG1.5-34	34	51,00	54,00	30,00	10	0,373	0,301	-	45,69 €	
YG1.5-35	35	52,50	55,50	50,00	15	0,509	0,304	-	46,26 €	
YG1.5-36	36	54,00	57,00	50,00	15	0,529	0,323	-	48,58 €	
YG1.5-37	37	55,50	58,50	50,00	15	0,548	0,343	-	49,57 €	
YG1.5-38	38	57,00	60,00	50,00	15	0,569	0,363	✓	50,72 €	
YG1.5-39	39	58,50	61,50	50,00	15	0,589	0,384	-	51,77 €	
YG1.5-40	40	60,00	63,00	50,00	15	0,611	0,406	✓	52,89 €	
YG1.5-41	41	61,50	64,50	50,00	15	0,633	0,428	-	52,95 €	
YG1.5-42	42	63,00	66,00	50,00	15	0,655	0,450	-	53,04 €	
YG1.5-43	43	64,50	67,50	50,00	15	0,678	0,473	-	53,06 €	
YG1.5-44	44	66,00	69,00	50,00	15	0,702	0,497	-	53,50 €	
YG1.5-45	45	67,50	70,50	50,00	15	0,726	0,521	-	54,20 €	
YG1.5-46	46	69,00	72,00	50,00	15	0,750	0,545	-	55,37 €	
YG1.5-47	47	70,50	73,50	50,00	15	0,775	0,570	-	56,58 €	
YG1.5-48	48	72,00	75,00	50,00	15	0,801	0,596	-	57,79 €	
YG1.5-49	49	73,50	76,50	50,00	15	0,827	0,622	-	60,38 €	
YG1.5-50	50	75,00	78,00	50,00	15	0,854	0,649	-	65,70 €	
YG1.5-51	51	76,50	79,50	50,00	15	0,881	0,676	-	66,58 €	
YG1.5-52	52	78,00	81,00	50,00	15	0,909	0,704	-	67,90 €	
YG1.5-53	53	79,50	82,50	60,00	15	1,037	0,733	-	68,91 €	
YG1.5-54	54	81,00	84,00	60,00	15	1,066	0,762	✓	69,25 €	
YG1.5-55	55	82,50	85,50	60,00	15	1,095	0,791	-	69,64 €	
YG1.5-56	56	84,00	87,00	60,00	15	1,125	0,821	-	70,14 €	
YG1.5-57	57	85,50	88,50	60,00	15	1,156	0,852	-	70,81 €	
YG1.5-58	58	87,00	90,00	60,00	15	1,187	0,883	-	71,15 €	
YG1.5-59	59	88,50	91,50	60,00	15	1,219	0,914	-	71,53 €	
YG1.5-60	60	90,00	93,00	60,00	15	1,251	0,947	✓	71,86 €	
YG1.5-62	62	93,00	96,00	60,00	15	1,317	1,013	-	73,29 €	
YG1.5-64	64	96,00	99,00	60,00	15	1,385	1,081	-	74,20 €	
YG1.5-65	65	97,50	100,50	60,00	15	1,420	1,116	-	79,24 €	
YG1.5-66	66	99,00	102,00	60,00	15	1,455	1,151	✓	79,24 €	
YG1.5-68	68	102,00	105,00	60,00	15	1,528	1,224	-	80,52 €	
YG1.5-70	70	105,00	108,00	60,00	15	1,602	1,298	-	83,44 €	
YG1.5-71	71	106,50	109,50	60,00	15	1,641	1,336	-	85,76 €	
YG1.5-72	72	108,00	111,00	60,00	15	1,679	1,375	-	88,21 €	
YG1.5-73	73	109,50	112,50	60,00	15	1,718	1,414	-	90,42 €	
YG1.5-74	74	111,00	114,00	60,00	15	1,758	1,454	-	93,54 €	
YG1.5-75	75	112,50	115,50	60,00	15	1,798	1,494	-	99,68 €	
YG1.5-76	76	114,00	117,00	60,00	15	1,839	1,535	-	99,68 €	
YG1.5-78	78	117,00	120,00	75,00	15	2,105	1,618	-	99,68 €	
YG1.5-80	80	120,00	123,00	75,00	15	2,191	1,704	-	102,84 €	
YG1.5-86	86	129,00	132,00	75,00	15	2,460	1,973	-	116,52 €	
YG1.5-90	90	135,00	138,00	75,00	15	2,650	2,164	-	118,45 €	
YG1.5-96	96	144,00	147,00	75,00	15	2,952	2,465	-	151,96 €	
YG1.5-98	98	147,00	150,00	75,00	15	3,057	2,570	-	151,96 €	
YG1.5-100	100	150,00	153,00	75,00	15	3,164	2,677	-	151,96 €	
YG1.5-105	105	157,50	160,50	75,00	15	3,441	2,955	-	165,16 €	
YG1.5-110	110	165,00	168,00	75,00	15	3,732	3,245	-	192,20 €	
YG1.5-115	115	172,50	175,50	75,00	15	4,036	3,550	-	192,20 €	
YG1.5-120	120	180,00	183,00	75,00	15	4,354	3,867	-	240,26 €	

↓ **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

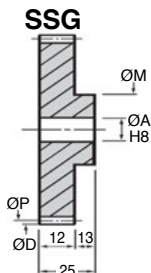
304L stainless steel

1.5



- Quality standard 9
- Pressure angle 20°

Torque and power indication				
For 50 teeth at 1000 rpm				
	StS 304L	brass	fibre	
Nm	8,88	4,44	3,55	
kW	0,93	0,46	0,37	



stainless steel

DISCOUNTS

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

Part number	Teeth Z	pcd ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG1.5-12-304L	12	18	21	14	8	28,18 €
SSG1.5-15-304L	15	22,5	25,5	18	8	30,97 €
SSG1.5-16-304L	16	24	27	20	10	32,30 €
SSG1.5-18-304L	18	27	30	20	10	36,36 €
SSG1.5-20-304L	20	30	33	20	10	38,63 €
SSG1.5-22-304L	22	33	36	20	10	42,74 €
SSG1.5-24-304L	24	36	39	25	10	44,73 €
SSG1.5-30-304L	30	45	48	25	10	56,51 €
SSG1.5-32-304L	32	48	51	25	10	60,71 €
SSG1.5-36-304L	36	54	57	30	15	69,79 €
SSG1.5-40-304L	40	60	63	40	15	74,12 €
SSG1.5-44-304L	44	66	69	40	15	74,28 €
SSG1.5-46-304L	46	69	72	40	15	77,50 €
SSG1.5-48-304L	48	72	75	40	15	80,97 €
SSG1.5-50-304L	50	75	78	40	15	112,40 €
SSG1.5-54-304L	54	81	84	40	15	112,40 €
SSG1.5-56-304L	56	84	87	40	15	112,40 €
SSG1.5-60-304L	60	90	93	40	15	154,48 €
SSG1.5-64-304L	64	96	99	40	15	154,48 €
SSG1.5-66-304L	66	99	102	40	15	177,20 €
SSG1.5-70-304L	70	105	108	40	15	177,20 €



Gears available up to this size



SSG1.5-298-304L	298	447	450	Dimensions: contact us	on request
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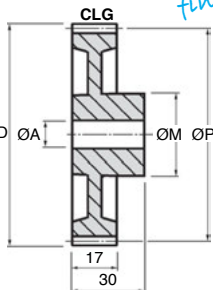
*Depending on availability - Dimensions in mm

- Moulded parts
- Pressure angle 20°
- Material:
Nylon 6 Reinforced with 30% glass fibres

Options

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format
- HPC are unable to modify these parts. For parts that can be modified to order, please see the ZG and ZPG ranges.

ØA: Pre-bored hole must be finished



Economy range

DISCOUNTS

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

Part number	Number of teeth	Outside ØD	PCD ØP	Hub ØM	Bore ØA	Stock*	Price each 1 to 9
CLG1.5-12	12	21,0	18,0	14	5	✓	3,91 €
CLG1.5-15	15	25,5	22,5	18	5	✓	3,91 €
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	✓	4,54 €
CLG1.5-24	24	39,0	36,0	28	8	✓	4,93 €
CLG1.5-25	25	40,0	37,5	30	8	-	4,93 €
CLG1.5-28	28	45,0	42,0	30	8	-	On request
CLG1.5-30	30	48,0	45,0	35	12	✓	6,12 €
CLG1.5-32	32	51,0	48,0	35	12	-	On request
CLG1.5-36	36	57,0	54,0	35	16	✓	8,90 €
CLG1.5-38	38	60,0	57,0	35	16	-	On request
CLG1.5-40	40	63,0	60,0	40	16	✓	8,90 €
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	✓	11,12 €
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	✓	14,50 €
CLG1.5-65	65	100,0	97,5	60	20	-	On request
CLG1.5-70	70	108,0	105,0	60	20	✓	20,69 €
↓ 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

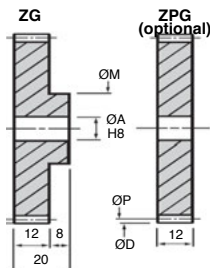


Module 1.5



- **Machined 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	On request

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Weight (kg) ZPG	Stock*	Price each 1 to 5
ZG1.5-9	9	15,00	18,00	18	6	0,005	0,002	✓	11,04 €
ZG1.5-10	10	16,50	19,50	18	6	0,005	0,003	✓	11,04 €
ZG1.5-11	11	18,00	21,00	18	6	0,006	0,003	-	11,04 €
ZG1.5-12	12	18,00	21,00	18	6	0,006	0,003	✓	11,04 €
ZG1.5-13	13	19,50	22,50	18	6	0,006	0,004	-	11,60 €
ZG1.5-14	14	21,00	24,00	20	8	0,007	0,005	-	11,84 €
ZG1.5-15	15	22,50	25,50	20	8	0,008	0,005	✓	12,00 €
ZG1.5-16	16	24,00	27,00	20	8	0,009	0,006	✓	12,39 €
ZG1.5-17	17	25,50	28,50	20	8	0,010	0,007	-	12,78 €
ZG1.5-18	18	27,00	30,00	24	8	0,012	0,008	✓	13,07 €
ZG1.5-19	19	28,50	31,50	25	8	0,014	0,009	-	14,27 €
ZG1.5-20	20	30,00	33,00	25	8	0,015	0,010	✓	15,01 €
ZG1.5-21	21	31,50	34,50	25	8	0,016	0,011	-	15,09 €
ZG1.5-22	22	33,00	36,00	25	8	0,017	0,012	-	15,26 €
ZG1.5-23	23	34,50	37,50	25	8	0,018	0,014	-	15,57 €
ZG1.5-24	24	36,00	39,00	25	8	0,019	0,015	✓	15,69 €
ZG1.5-25	25	37,50	40,50	25	8	0,021	0,016	✓	16,59 €
ZG1.5-26	26	39,00	42,00	25	8	0,022	0,017	-	17,31 €
ZG1.5-27	27	40,50	43,50	25	8	0,024	0,019	-	20,30 €
ZG1.5-28	28	42,00	45,00	25	8	0,025	0,020	✓	20,87 €
ZG1.5-29	29	43,50	46,50	25	8	0,027	0,022	-	21,33 €
ZG1.5-30	30	45,00	48,00	25	8	0,028	0,024	✓	21,90 €
ZG1.5-31	31	46,50	49,50	28	10	0,031	0,025	-	22,29 €
ZG1.5-32	32	48,00	51,00	28	10	0,032	0,026	-	22,69 €

On request

*Depending on availability - Dimensions in mm



Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	ZPG	Stock*	Price each 1 to 5 ZG	ZPG
ZG1.5-33	33	49,50	52,50	28	10	0,034	0,028	✓	22,85 €	
ZG1.5-34	34	51,00	54,00	28	10	0,036	0,030	✓	27,76 €	
ZG1.5-35	35	52,50	55,50	28	10	0,038	0,032	✓	27,99 €	
ZG1.5-36	36	54,00	57,00	28	10	0,040	0,034	✓	29,41 €	
ZG1.5-37	37	55,50	58,50	28	10	0,042	0,036	-	30,12 €	
ZG1.5-38	38	57,00	60,00	28	10	0,044	0,038	-	34,90 €	
ZG1.5-39	39	58,50	61,50	28	10	0,046	0,040	-	35,60 €	
ZG1.5-40	40	60,00	63,00	30	12	0,048	0,041	✓	36,40 €	
ZG1.5-41	41	61,50	64,50	30	12	0,050	0,044	-	36,46 €	
ZG1.5-42	42	63,00	66,00	30	12	0,052	0,046	-	36,57 €	
ZG1.5-43	43	64,50	67,50	30	12	0,055	0,048	-	36,64 €	
ZG1.5-44	44	66,00	69,00	30	12	0,057	0,051	-	36,87 €	
ZG1.5-45	45	67,50	70,50	30	12	0,060	0,053	-	37,12 €	
ZG1.5-46	46	69,00	72,00	30	12	0,062	0,055	-	37,84 €	
ZG1.5-47	47	70,50	73,50	30	12	0,065	0,058	-	38,95 €	
ZG1.5-48	48	72,00	75,00	30	12	0,067	0,060	-	39,72 €	
ZG1.5-49	49	73,50	76,50	30	12	0,070	0,063	-	43,96 €	
ZG1.5-50	50	75,00	78,00	30	12	0,073	0,066	✓	47,07 €	
ZG1.5-51	51	76,50	79,50	36	12	0,078	0,068	✓	48,42 €	
ZG1.5-52	52	78,00	81,00	36	12	0,081	0,071	-	49,44 €	
ZG1.5-53	53	79,50	82,50	36	12	0,084	0,074	-	50,16 €	
ZG1.5-54	54	81,00	84,00	36	12	0,087	0,077	-	50,60 €	
ZG1.5-55	55	82,50	85,50	36	12	0,090	0,080	-	51,04 €	
ZG1.5-56	56	84,00	87,00	36	12	0,093	0,083	-	51,39 €	
ZG1.5-57	57	85,50	88,50	36	12	0,096	0,086	-	51,62 €	
ZG1.5-58	58	87,00	90,00	36	12	0,099	0,089	-	51,83 €	
ZG1.5-59	59	88,50	91,50	36	12	0,102	0,092	-	57,88 €	
ZG1.5-60	60	90,00	93,00	36	12	0,106	0,095	✓	58,19 €	
ZG1.5-62	62	93,00	96,00	36	12	0,112	0,102	✓	59,29 €	
ZG1.5-64	64	96,00	99,00	36	12	0,119	0,109	-	59,99 €	
ZG1.5-65	65	97,50	100,50	36	12	0,123	0,112	-	67,67 €	
ZG1.5-66	66	99,00	102,00	48	12	0,134	0,116	-	70,14 €	
ZG1.5-68	68	102,00	105,00	48	12	0,142	0,123	-	71,74 €	
ZG1.5-70	70	105,00	108,00	48	12	0,149	0,131	✓	74,36 €	
ZG1.5-71	71	106,50	109,50	48	12	0,153	0,134	-	76,36 €	
ZG1.5-72	72	108,00	111,00	48	12	0,157	0,138	✓	69,70 €	
ZG1.5-73	73	109,50	112,50	48	12	0,161	0,142	-	71,40 €	
ZG1.5-74	74	111,00	114,00	48	12	0,165	0,146	-	73,95 €	
ZG1.5-75	75	112,50	115,50	48	12	0,169	0,150	-	83,81 €	
ZG1.5-76	76	114,00	117,00	48	12	0,173	0,154	-	88,22 €	
ZG1.5-78	78	117,00	120,00	48	12	0,182	0,163	-	88,27 €	
ZG1.5-80	80	120,00	123,00	48	12	0,190	0,171	✓	88,65 €	
ZG1.5-86	86	129,00	132,00	48	12	0,217	0,198	-	107,37 €	
ZG1.5-90	90	135,00	138,00	48	12	0,237	0,217	✓	102,15 €	
ZG1.5-96	96	144,00	147,00	48	12	0,267	0,247	-	132,90 €	
ZG1.5-100	100	150,00	153,00	48	15	0,288	0,268	-	136,16 €	

On request

↓ **Gears available up to this size** ↓
ZG1.5-298 298 447,00 450,00 Dimensions: contact us on request

*Depending on availability - Dimensions in mm

Module 1.75

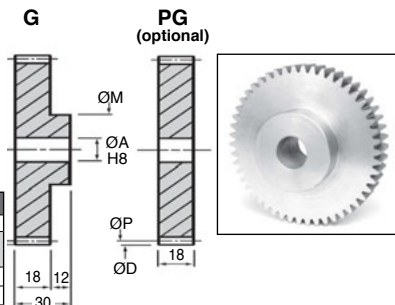


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2	20NCD2	20NCD2
	Z10CNF18.09	hardened	brass	fibre
Nm	16	75	8	6.40
kW	1.72	7.83	0.86	0.67



Steel 20NCD2



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G1.75-9	9	17,50	21,00	21,00	10	0,047	0,022	23,14 €	
G1.75-10	10	19,25	22,75	22,75	10	0,059	0,029	23,14 €	
G1.75-11	11	21,00	24,50	24,50	10	0,073	0,037	23,14 €	
G1.75-12	12	21,00	24,50	24,50	10	0,073	0,037	23,14 €	
G1.75-13	13	22,75	26,25	25,00	10	0,083	0,045	23,74 €	
G1.75-14	14	24,50	28,00	25,00	10	0,092	0,054	25,04 €	
G1.75-15	15	26,25	29,75	25,00	10	0,102	0,064	26,17 €	
G1.75-16	16	28,00	31,50	25,00	12	0,104	0,069	26,64 €	
G1.75-17	17	29,75	33,25	25,00	12	0,115	0,080	27,35 €	
G1.75-18	18	31,50	35,00	25,00	12	0,126	0,092	28,53 €	
G1.75-19	19	33,25	36,75	25,00	12	0,139	0,104	29,68 €	
G1.75-20	20	35,00	38,50	30,00	12	0,171	0,117	31,68 €	
G1.75-21	21	36,75	40,25	30,00	12	0,185	0,131	32,42 €	
G1.75-22	22	38,50	42,00	30,00	12	0,199	0,145	32,93 €	
G1.75-23	23	40,25	43,75	30,00	12	0,214	0,160	34,63 €	
G1.75-24	24	42,00	45,50	30,00	12	0,230	0,175	36,16 €	
G1.75-25	25	43,75	47,25	30,00	12	0,246	0,191	36,41 €	
G1.75-26	26	45,50	49,00	30,00	12	0,263	0,208	36,65 €	
G1.75-27	27	47,25	50,75	30,00	12	0,280	0,226	37,29 €	
G1.75-28	28	49,00	52,50	40,00	15	0,335	0,235	37,40 €	
G1.75-29	29	50,75	54,25	40,00	15	0,353	0,254	37,82 €	
G1.75-30	30	52,50	56,00	40,00	15	0,373	0,274	38,87 €	
G1.75-31	31	54,25	57,75	40,00	15	0,393	0,294	39,72 €	
G1.75-32	32	56,00	59,50	40,00	15	0,414	0,315	40,09 €	
G1.75-33	33	57,75	61,25	40,00	15	0,436	0,336	40,31 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside 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	40,96 €
G1.75-35	35	61,25	64,75	40,00	15	0,481	0,382	41,04 €
G1.75-36	36	63,00	66,50	50,00	15	0,569	0,405	42,43 €
G1.75-37	37	64,75	68,25	50,00	15	0,593	0,429	44,36 €
G1.75-38	38	66,50	70,00	50,00	15	0,618	0,454	45,36 €
G1.75-39	39	68,25	71,75	50,00	15	0,644	0,480	46,67 €
G1.75-40	40	70,00	73,50	50,00	15	0,670	0,506	47,69 €
G1.75-41	41	71,75	75,25	50,00	15	0,697	0,533	48,37 €
G1.75-42	42	73,50	77,00	50,00	15	0,724	0,560	49,44 €
G1.75-43	43	75,25	78,75	50,00	15	0,752	0,588	51,31 €
G1.75-44	44	77,00	80,50	50,00	15	0,781	0,617	52,01 €
G1.75-45	45	78,75	82,25	60,00	20	0,858	0,628	52,75 €
G1.75-46	46	80,50	84,00	60,00	20	0,889	0,658	53,79 €
G1.75-47	47	82,25	85,75	60,00	20	0,919	0,689	54,76 €
G1.75-48	48	84,00	87,50	60,00	20	0,951	0,720	56,20 €
G1.75-49	49	85,75	89,25	60,00	20	0,983	0,752	58,32 €
G1.75-50	50	87,50	91,00	60,00	20	1,016	0,785	58,98 €
G1.75-51	51	89,25	92,75	60,00	20	1,049	0,818	60,46 €
G1.75-52	52	91,00	94,50	60,00	20	1,083	0,853	61,96 €
G1.75-53	53	92,75	96,25	60,00	20	1,118	0,887	63,54 €
G1.75-54	54	94,50	98,00	80,00	20	1,356	0,923	68,58 €
G1.75-55	55	96,25	99,75	80,00	20	1,392	0,959	70,61 €
G1.75-56	56	98,00	101,50	80,00	20	1,428	0,996	73,64 €
G1.75-57	57	99,75	103,25	80,00	20	1,466	1,033	76,01 €
G1.75-58	58	101,50	105,00	80,00	20	1,504	1,071	78,35 €
G1.75-59	59	103,25	106,75	80,00	20	1,543	1,110	80,87 €
G1.75-60	60	105,00	108,50	80,00	20	1,582	1,149	84,14 €
G1.75-62	62	108,50	112,00	80,00	20	1,663	0,230	86,21 €
G1.75-64	64	112,00	115,50	80,00	20	1,746	1,314	88,74 €
G1.75-65	65	113,75	117,25	80,00	20	1,789	1,356	91,52 €
G1.75-66	66	115,50	119,00	80,00	20	1,833	1,400	94,34 €
G1.75-68	68	119,00	122,50	80,00	20	1,921	1,489	97,09 €
G1.75-70	70	122,50	126,00	100,00	20	2,272	1,580	99,75 €
G1.75-71	71	124,25	127,75	100,00	20	2,319	1,627	101,16 €
G1.75-72	72	126,00	129,50	100,00	20	2,367	1,674	103,05 €
G1.75-73	73	127,75	131,25	100,00	20	2,415	1,722	104,56 €
G1.75-74	74	129,50	133,00	100,00	20	2,463	1,771	106,13 €
G1.75-75	75	131,25	134,75	100,00	20	2,513	1,820	107,70 €
G1.75-76	76	133,00	136,50	100,00	20	2,563	1,870	109,26 €
G1.75-78	78	136,50	140,00	100,00	20	2,665	1,972	117,78 €
G1.75-80	80	140,00	143,50	100,00	20	2,769	2,077	124,72 €
G1.75-86	86	150,50	154,00	100,00	20	3,099	2,407	140,26 €
G1.75-90	90	157,50	161,00	100,00	20	3,333	2,640	153,55 €
G1.75-96	96	168,00	171,50	100,00	20	3,702	3,010	169,89 €
G1.75-98	98	171,50	175,00	100,00	20	3,831	3,139	176,75 €
G1.75-100	100	175,00	178,50	100,00	20	3,962	3,270	184,54 €
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				On request

Dimensions in mm

On request

Module 1.75

Steel 35NCD6

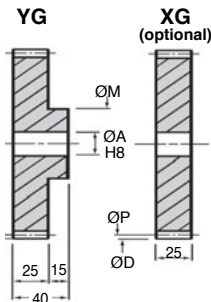


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

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	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG1.75-9	9	17,50	21,00	21,00	10	0,062	0,031	29,02 €	
YG1.75-10	10	19,25	22,75	22,75	10	0,078	0,041	29,02 €	
YG1.75-11	11	21,00	24,50	24,50	10	0,096	0,051	29,02 €	
YG1.75-12	12	21,00	24,50	24,50	10	0,096	0,051	29,02 €	
YG1.75-13	13	22,75	26,25	25,00	10	0,110	0,063	29,75 €	
YG1.75-14	14	24,50	28,00	25,00	10	0,122	0,075	31,41 €	
YG1.75-15	15	26,25	29,75	25,00	10	0,136	0,089	32,74 €	
YG1.75-16	16	28,00	31,50	25,00	12	0,140	0,096	33,32 €	
YG1.75-17	17	29,75	33,25	25,00	12	0,155	0,111	34,26 €	
YG1.75-18	18	31,50	35,00	25,00	12	0,171	0,127	35,76 €	
YG1.75-19	19	33,25	36,75	25,00	12	0,188	0,144	37,18 €	
YG1.75-20	20	35,00	38,50	30,00	12	0,231	0,162	39,74 €	
YG1.75-21	21	36,75	40,25	30,00	12	0,249	0,181	40,63 €	
YG1.75-22	22	38,50	42,00	30,00	12	0,269	0,201	41,26 €	
YG1.75-23	23	40,25	43,75	30,00	12	0,290	0,222	43,35 €	
YG1.75-24	24	42,00	45,50	30,00	12	0,312	0,243	45,30 €	
YG1.75-25	25	43,75	47,25	30,00	12	0,334	0,266	45,60 €	
YG1.75-26	26	45,50	49,00	30,00	12	0,358	0,289	45,86 €	
YG1.75-27	27	47,25	50,75	30,00	12	0,382	0,314	46,67 €	
YG1.75-28	28	49,00	52,50	40,00	15	0,451	0,327	46,84 €	
YG1.75-29	29	50,75	54,25	40,00	15	0,477	0,353	47,25 €	
YG1.75-30	30	52,50	56,00	40,00	15	0,504	0,380	48,59 €	
YG1.75-31	31	54,25	57,75	40,00	15	0,532	0,408	49,57 €	
YG1.75-32	32	56,00	59,50	40,00	15	0,561	0,437	50,15 €	
YG1.75-33	33	57,75	61,25	40,00	15	0,591	0,467	50,44 €	

Dimensions in mm

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG XG		Price each 1 to 5 YG XG	
YG1.75-34	34	59,50	63,00	40,00	15	0,622	0,498	51,31 €	
YG1.75-35	35	61,25	64,75	40,00	15	0,654	0,530	51,40 €	
YG1.75-36	36	63,00	66,50	50,00	15	0,768	0,563	53,06 €	
YG1.75-37	37	64,75	68,25	50,00	15	0,801	0,596	55,45 €	
YG1.75-38	38	66,50	70,00	50,00	15	0,836	0,631	56,75 €	
YG1.75-39	39	68,25	71,75	50,00	15	0,871	0,666	58,36 €	
YG1.75-40	40	70,00	73,50	50,00	15	0,908	0,702	59,62 €	
YG1.75-41	41	71,75	75,25	50,00	15	0,945	0,740	60,53 €	
YG1.75-42	42	73,50	77,00	50,00	15	0,983	0,778	61,94 €	
YG1.75-43	43	75,25	78,75	50,00	15	1,022	0,817	64,21 €	
YG1.75-44	44	77,00	80,50	50,00	15	1,062	0,857	65,08 €	
YG1.75-45	45	78,75	82,25	60,00	20	1,160	0,872	66,01 €	
YG1.75-46	46	80,50	84,00	60,00	20	1,202	0,914	67,25 €	
YG1.75-47	47	82,25	85,75	60,00	20	1,245	0,956	68,49 €	
YG1.75-48	48	84,00	87,50	60,00	20	1,289	1,000	70,33 €	
YG1.75-49	49	85,75	89,25	60,00	20	1,333	1,045	72,89 €	
YG1.75-50	50	87,50	91,00	60,00	20	1,379	1,090	73,76 €	
YG1.75-51	51	89,25	92,75	60,00	20	1,425	1,137	75,64 €	
YG1.75-52	52	91,00	94,50	60,00	20	1,473	0,184	77,50 €	
YG1.75-53	53	92,75	96,25	60,00	20	1,521	1,232	79,48 €	
YG1.75-54	54	94,50	98,00	80,00	20	1,823	1,282	85,72 €	
YG1.75-55	55	96,25	99,75	80,00	20	1,873	1,332	88,38 €	
YG1.75-56	56	98,00	101,50	80,00	20	1,924	1,383	92,16 €	
YG1.75-57	57	99,75	103,25	80,00	20	1,976	1,435	95,07 €	
YG1.75-58	58	101,50	105,00	80,00	20	2,029	1,488	98,02 €	
YG1.75-59	59	103,25	106,75	80,00	20	2,083	1,542	101,16 €	
YG1.75-60	60	105,00	108,50	80,00	20	2,137	1,596	105,23 €	
YG1.75-62	62	108,50	112,00	80,00	20	2,250	1,709	107,77 €	
YG1.75-64	64	112,00	115,50	80,00	20	2,366	1,825	111,84 €	
YG1.75-65	65	113,75	117,25	80,00	20	2,425	1,884	114,51 €	
YG1.75-66	66	115,50	119,00	80,00	20	2,485	1,944	117,88 €	
YG1.75-68	68	119,00	122,50	80,00	20	2,608	2,068	121,42 €	
YG1.75-70	70	122,50	126,00	100,00	20	3,060	2,195	124,65 €	
YG1.75-71	71	124,25	127,75	100,00	20	3,125	2,259	126,45 €	
YG1.75-72	72	126,00	129,50	100,00	20	3,191	2,325	128,83 €	
YG1.75-73	73	127,75	131,25	100,00	20	3,257	2,392	130,76 €	
YG1.75-74	74	129,50	133,00	100,00	20	3,325	2,460	132,75 €	
YG1.75-75	75	131,25	134,75	100,00	20	3,394	2,528	134,64 €	
YG1.75-76	76	133,00	136,50	100,00	20	3,463	2,598	136,65 €	
YG1.75-78	78	136,50	140,00	100,00	20	3,605	2,739	147,23 €	
YG1.75-80	80	140,00	143,50	100,00	20	3,750	2,885	170,49 €	
YG1.75-86	86	150,50	154,00	100,00	20	4,209	3,343	215,66 €	
YG1.75-90	90	157,50	161,00	100,00	20	4,532	3,667	191,97 €	
YG1.75-96	96	168,00	171,50	100,00	20	5,046	4,181	212,92 €	
YG1.75-98	98	171,50	175,00	100,00	20	5,225	4,359	221,04 €	
YG1.75-100	100	175,00	178,50	100,00	20	5,407	4,541	230,69 €	
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

On request

Steel spur gear



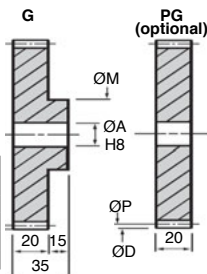
Module 2.0

Steel 20NCD2



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

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2 Z10CNF18.09	hardened	brass
Nm	25	119	12.50	10
kW	2.61	12.51	1.32	1.04



IN STOCK*
Otherwise contact us



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	Bore ØA	Weight (kg)		Stock*	Price each 1 to 5	
						G	PG		G	PG
G2-9	9	20,00	24,00	24	12	0,070	0,031	✓	28,78 €	
G2-10	10	22,00	26,00	26	12	0,089	0,041	✓	28,78 €	
G2-11	11	24,00	28,00	28	12	0,110	0,052	-	28,78 €	
G2-12	12	24,00	28,00	28	12	0,110	0,052	✓	14,85 €	
G2-13	13	26,00	30,00	20	12	0,087	0,064	✓	30,44 €	
G2-14	14	28,00	32,00	20	12	0,100	0,077	✓	32,17 €	
G2-15	15	30,00	34,00	25	15	0,117	0,081	✓	17,49 €	
G2-16	16	32,00	36,00	25	15	0,132	0,096	✓	18,39 €	
G2-17	17	34,00	38,00	25	15	0,148	0,112	✓	36,31 €	
G2-18	18	36,00	40,00	30	15	0,190	0,129	✓	19,28 €	
G2-19	19	38,00	42,00	30	15	0,207	0,147	-	38,25 €	
G2-20	20	40,00	44,00	30	15	0,226	0,165	✓	20,16 €	
G2-21	21	42,00	46,00	30	15	0,246	0,185	-	40,06 €	
G2-22	22	44,00	48,00	35	15	0,296	0,206	✓	41,55 €	
G2-23	23	46,00	50,00	35	15	0,317	0,227	✓	41,55 €	
G2-24	24	48,00	52,00	35	15	0,340	0,250	✓	21,96 €	
G2-25	25	50,00	54,00	35	15	0,364	0,273	✓	44,85 €	
G2-26	26	52,00	56,00	35	15	0,388	0,298	✓	46,26 €	
G2-27	27	54,00	58,00	40	20	0,411	0,302	✓	47,91 €	
G2-28	28	56,00	60,00	40	20	0,437	0,329	✓	48,94 €	
G2-29	29	58,00	62,00	40	20	0,464	0,356	-	50,15 €	
G2-30	30	60,00	64,00	40	20	0,493	0,385	✓	26,50 €	
G2-31	31	62,00	66,00	40	20	0,522	0,414	✓	53,28 €	
G2-32	32	64,00	68,00	40	20	0,552	0,444	✓	28,81 €	
G2-33	33	66,00	70,00	40	20	0,584	0,476	-	56,75 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Stock	Price each 1 to 5	
						G	PG		G	PG
G2-34	34	68,00	72,00	40	20	0,616	0,508	✓	59,53 €	
G2-35	35	70,00	74,00	50	20	0,730	0,541	✓	61,43 €	
G2-36	36	72,00	76,00	50	20	0,764	0,575	✓	33,60 €	
G2-37	37	74,00	78,00	50	20	0,799	0,610	-	65,72 €	
G2-38	38	76,00	80,00	50	20	0,836	0,646	-	67,47 €	
G2-39	39	78,00	82,00	50	20	0,873	0,683	✓	69,07 €	
G2-40	40	80,00	84,00	50	20	0,911	0,721	✓	70,33 €	
G2-41	41	82,00	86,00	50	20	0,949	0,760	-	71,65 €	
G2-42	42	84,00	88,00	50	20	0,989	0,800	-	72,47 €	
G2-43	43	86,00	90,00	50	20	1,030	0,841	-	73,35 €	
G2-44	44	88,00	92,00	50	20	1,072	0,883	✓	74,49 €	
G2-45	45	90,00	94,00	50	20	1,115	0,926	✓	75,64 €	
G2-46	46	92,00	96,00	50	20	1,159	0,969	-	77,37 €	
G2-47	47	94,00	98,00	50	20	1,203	1,014	-	79,10 €	
G2-48	48	96,00	100,00	50	20	1,249	1,060	✓	81,44 €	
G2-49	49	98,00	102,00	50	20	1,296	1,106	-	84,00 €	
G2-50	50	100,00	104,00	50	20	1,343	1,154	✓	87,19 €	
G2-51	51	102,00	106,00	50	20	1,392	1,202	-	88,88 €	
G2-52	52	104,00	108,00	50	20	1,441	1,252	-	90,42 €	
G2-53	53	106,00	110,00	50	20	1,492	1,302	-	91,46 €	
G2-54	54	108,00	112,00	50	20	1,543	1,354	✓	93,00 €	
G2-55	55	110,00	114,00	50	20	1,596	1,406	-	102,12 €	
G2-56	56	112,00	116,00	50	20	1,649	1,460	-	104,28 €	
G2-57	57	114,00	118,00	50	20	1,703	1,514	-	106,37 €	
G2-58	58	116,00	120,00	50	20	1,759	1,569	-	108,24 €	
G2-59	59	118,00	122,00	50	20	1,815	1,626	-	109,50 €	
G2-60	60	120,00	124,00	50	20	1,872	1,683	✓	111,01 €	
G2-62	62	124,00	128,00	50	20	1,989	1,800	-	113,74 €	
G2-64	64	128,00	132,00	50	20	2,211	1,921	-	116,50 €	
G2-65	65	130,00	134,00	50	20	2,173	1,983	✓	122,04 €	
G2-66	66	132,00	136,00	50	20	2,236	2,046	-	124,11 €	
G2-68	68	136,00	140,00	50	20	2,364	2,175	-	125,95 €	
G2-70	70	140,00	144,00	50	20	2,497	2,308	✓	129,13 €	
G2-71	71	142,00	146,00	70	20	2,781	2,376	-	136,30 €	
G2-72	72	144,00	148,00	70	20	2,850	2,444	-	144,58 €	
G2-73	73	146,00	150,00	70	20	2,920	2,514	-	150,43 €	
G2-74	74	148,00	152,00	70	20	2,990	2,585	-	154,66 €	
G2-75	75	150,00	154,00	70	20	3,062	2,656	-	159,84 €	
G2-76	76	152,00	156,00	70	20	3,135	2,729	-	167,63 €	
G2-78	78	156,00	160,00	70	20	3,283	2,877	-	176,33 €	
G2-80	80	160,00	164,00	70	20	3,435	3,029	✓	193,45 €	
G2-86	86	172,00	176,00	70	20	3,914	3,508	-	208,12 €	
G2-90	90	180,00	184,00	70	20	4,252	3,846	✓	230,98 €	
G2-96	96	192,00	196,00	70	20	4,789	4,383	-	247,28 €	
G2-98	98	196,00	200,00	70	20	4,975	4,570	-	269,15 €	
G2-100	100	200,00	204,00	70	20	5,166	4,760	-	287,21 €	
G2-105	105	210,00	214,00	70	20	5,658	5,253	-	297,88 €	
G2-110	110	220,00	224,00	70	20	6,175	5,770	-	318,27 €	
G2-115	115	230,00	234,00	70	20	6,716	6,311	-	340,41 €	
G2-120	120	240,00	244,00	70	20	7,281	6,875	-	369,87 €	

On request

↓ **Gears available up to this size** ↓
G2-290 290 580,00 584,00 Dimensions : contact us on request

*Depending on availability - Dimensions in mm

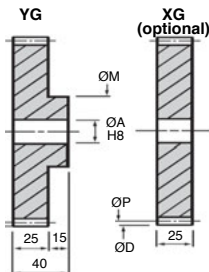
Module 2.0



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

Steel 35NCD6

✓ IN STOCK*
Otherwise contact us



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	outside ØD	Boss ØM	Bore ØA	Weight (kg) YG XG	Stock*	Price each 1 to 5	
								YG	XG
YG2-9	9	20,00	24,00	24	12	0,077 0,038	-	35,84 €	
YG2-10	10	22,00	26,00	26	12	0,099 0,051	-	35,84 €	
YG2-11	11	24,00	28,00	28	12	0,123 0,065	-	35,84 €	
YG2-12	12	24,00	28,00	28	12	0,123 0,065	✓	35,84 €	
YG2-13	13	26,00	30,00	30	12	0,148 0,080	-	37,95 €	
YG2-14	14	28,00	32,00	30	12	0,164 0,096	-	40,13 €	
YG2-15	15	30,00	34,00	30	15	0,162 0,101	✓	42,23 €	
YG2-16	16	32,00	36,00	30	15	0,181 0,120	-	44,27 €	
YG2-17	17	34,00	38,00	35	15	0,230 0,140	-	45,30 €	
YG2-18	18	36,00	40,00	35	15	0,251 0,161	✓	46,49 €	
YG2-19	19	38,00	42,00	35	15	0,273 0,183	-	47,69 €	
YG2-20	20	40,00	44,00	35	15	0,297 0,207	✓	48,67 €	
YG2-21	21	42,00	46,00	35	15	0,321 0,231	✓	50,00 €	
YG2-22	22	44,00	48,00	35	15	0,347 0,257	-	50,87 €	
YG2-23	23	46,00	50,00	35	15	0,374 0,284	✓	51,77 €	
YG2-24	24	48,00	52,00	35	15	0,403 0,312	✓	52,89 €	
YG2-25	25	50,00	54,00	35	15	0,432 0,342	✓	55,98 €	
YG2-26	26	52,00	56,00	35	15	0,463 0,372	-	57,68 €	
YG2-27	27	54,00	58,00	50	20	0,567 0,378	-	59,66 €	
YG2-28	28	56,00	60,00	50	20	0,600 0,411	-	60,98 €	
YG2-29	29	58,00	62,00	50	20	0,635 0,445	-	62,57 €	
YG2-30	30	60,00	64,00	50	20	0,670 0,481	✓	63,91 €	
YG2-31	31	62,00	66,00	50	20	0,707 0,517	-	66,42 €	
YG2-32	32	64,00	68,00	50	20	0,745 0,555	-	69,41 €	
YG2-33	33	66,00	70,00	50	20	0,784 0,594	-	70,81 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside 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	-	74,20 €	
YG2-35	35	70,00	74,00	50	20	0,865	0,676	✓	76,61 €	
YG2-36	36	72,00	76,00	50	20	0,908	0,719	-	80,98 €	
YG2-37	37	74,00	78,00	50	20	0,952	0,763	-	82,00 €	
YG2-38	38	76,00	80,00	50	20	0,997	0,808	-	84,08 €	
YG2-39	39	78,00	82,00	50	20	1,043	0,854	-	86,10 €	
YG2-40	40	80,00	84,00	50	20	1,091	0,902	✓	87,65 €	
YG2-41	41	82,00	86,00	50	20	1,139	0,950	-	89,24 €	
YG2-42	42	84,00	88,00	50	20	1,189	1,000	-	90,33 €	
YG2-43	43	86,00	90,00	60	20	1,340	1,051	-	91,44 €	
YG2-44	44	88,00	92,00	60	20	1,392	1,103	-	92,93 €	
YG2-45	45	90,00	94,00	60	20	1,445	1,157	✓	94,29 €	
YG2-46	46	92,00	96,00	60	20	1,500	1,212	-	96,47 €	
YG2-47	47	94,00	98,00	60	20	1,556	1,268	-	98,65 €	
YG2-48	48	96,00	100,00	60	20	1,613	1,325	✓	101,48 €	
YG2-49	49	98,00	102,00	60	20	1,671	1,383	-	104,70 €	
YG2-50	50	100,00	104,00	60	20	1,731	1,442	✓	108,63 €	
YG2-51	51	102,00	106,00	60	20	1,792	1,503	-	110,84 €	
YG2-52	52	104,00	108,00	60	20	1,853	1,565	-	112,73 €	
YG2-53	53	106,00	110,00	60	20	1,917	1,628	-	114,05 €	
YG2-54	54	108,00	112,00	60	20	1,981	1,692	-	115,92 €	
YG2-55	55	110,00	114,00	60	20	2,046	1,758	-	127,23 €	
YG2-56	56	112,00	116,00	60	20	2,113	1,825	-	129,94 €	
YG2-57	57	114,00	118,00	60	20	2,181	1,893	-	132,55 €	
YG2-58	58	116,00	120,00	60	20	2,250	1,962	-	134,97 €	
YG2-59	59	118,00	122,00	60	20	2,320	2,032	-	136,46 €	
YG2-60	60	120,00	124,00	60	20	2,392	2,104	✓	138,53 €	
YG2-62	62	124,00	128,00	75	20	2,721	2,250	-	141,76 €	
YG2-64	64	128,00	132,00	75	20	2,873	2,402	-	145,25 €	
YG2-65	65	130,00	134,00	75	20	2,950	2,479	-	152,09 €	
YG2-66	66	132,00	136,00	75	20	3,029	2,558	-	154,66 €	
YG2-68	68	136,00	140,00	75	20	3,190	2,719	-	157,06 €	
YG2-70	70	140,00	144,00	75	20	3,356	2,885	-	170,49 €	
YG2-71	71	142,00	146,00	75	20	3,441	2,970	-	170,49 €	
YG2-72	72	144,00	148,00	75	20	3,527	3,055	-	180,19 €	
YG2-73	73	146,00	150,00	75	20	3,614	3,143	-	187,40 €	
YG2-74	74	148,00	152,00	75	20	3,702	3,231	-	192,73 €	
YG2-75	75	150,00	154,00	75	20	3,792	3,321	-	199,14 €	
YG2-76	76	152,00	156,00	75	20	3,882	3,411	-	208,92 €	
YG2-78	78	156,00	160,00	100	20	4,462	3,596	-	219,80 €	
YG2-80	80	160,00	164,00	100	20	4,652	3,786	-	241,15 €	
YG2-86	86	172,00	176,00	100	20	5,250	4,385	-	259,44 €	
YG2-90	90	180,00	184,00	100	20	5,673	4,808	-	287,87 €	
YG2-96	96	192,00	196,00	100	20	6,344	5,479	-	308,17 €	
YG2-98	98	196,00	200,00	100	20	6,577	5,712	-	308,17 €	
YG2-100	100	200,00	204,00	100	20	6,815	5,950	-	357,89 €	
YG2-105	105	210,00	214,00	100	20	7,431	6,566	-	371,15 €	
YG2-110	110	220,00	224,00	100	20	8,077	7,212	-	396,60 €	
YG2-115	115	230,00	234,00	100	20	8,754	7,888	-	424,15 €	
YG2-120	120	240,00	244,00	100	20	9,460	8,594	-	460,94 €	

On request

↓ **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

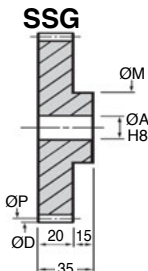
304L stainless steel



- Quality standard 9

- Pressure angle 20°

Torque and power indication				
For 50 teeth at 1000 rpm				
	StS 304L	brass	fibre	
Nm	25	12,50	10	
kW	2,61	1,32	1,04	



stainless steel

DISCOUNTS

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

Part number	Teeth Z	pcd ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5
SSG2-12-304L	12	24	28	28	12	42,73 €
SSG2-15-304L	15	30	34	25	15	37,01 €
SSG2-16-304L	16	32	36	25	15	39,40 €
SSG2-18-304L	18	36	40	30	15	44,70 €
SSG2-20-304L	20	40	44	30	15	47,77 €
SSG2-22-304L	22	44	48	35	15	53,72 €
SSG2-24-304L	24	48	52	35	15	59,15 €
SSG2-30-304L	30	60	64	40	20	77,10 €
SSG2-32-304L	32	64	68	40	20	79,66 €
SSG2-36-304L	36	72	76	50	20	92,60 €
SSG2-40-304L	40	80	84	50	20	148,67 €
SSG2-44-304L	44	88	92	50	20	204,32 €
SSG2-46-304L	46	92	96	50	20	204,32 €
SSG2-48-304L	48	96	100	50	20	204,32 €
SSG2-50-304L	50	100	104	50	20	234,38 €
SSG2-54-304L	54	108	112	50	20	234,38 €
SSG2-56-304L	56	112	116	50	20	267,43 €
SSG2-60-304L	60	120	124	50	20	267,43 €
SSG2-64-304L	64	128	132	50	20	304,14 €
SSG2-66-304L	66	132	136	50	20	322,97 €
SSG2-70-304L	70	140	144	50	20	336,13 €

Gears available up to this size

SSG2-290-304L	290	580	584	Dimensions: contact us	on request
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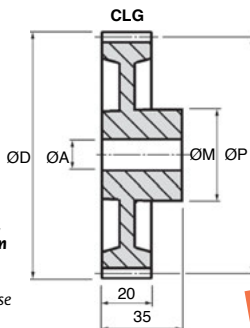
*Depending on availability - Dimensions in mm



- Moulded parts
- Pressure angle 20°
- Material:
Nylon 6 Reinforced with 30% glass fibres

Options

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format
- HPC are unable to modify these parts. For parts that can be modified to order, please see the ZG and ZPG ranges.



A: Pre-bored hole must be finished

Economy range

DISCOUNTS

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

Part number	No. of teeth Outside	ØD PCD	ØP Boss	ØM Bore	ØA	Stock*	Price each 1 to 9
CLG2-12	12	28	24	18	8	✓	4,54 €
CLG2-15	15	35	30	22	8	✓	4,54 €
CLG2-16	16	36	32	25	8	✓	5,89 €
CLG2-20	20	44	40	30	10	✓	5,89 €
CLG2-24	24	52	48	35	10	✓	8,10 €
CLG2-25	25	54	50	35	10	✓	8,10 €
CLG2-26	26	56	52	40	14	-	On request
CLG2-30	30	64	60	40	14	✓	10,31 €
CLG2-32	32	68	64	45	16	✓	12,29 €
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	✓	14,68 €
CLG2-40	40	84	80	50	16	✓	14,68 €
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	✓	19,10 €
CLG2-60	60	124	120	60	20	✓	24,50 €
CLG2-65	65	134	130	60	20	✓	27,11 €
CLG2-70	70	144	140	60	20	✓	27,11 €
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

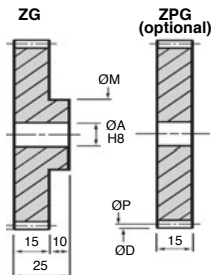


Module 2.0



- Machined 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	outside 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	✓	14,43 €	
ZG2-10	10	22,00	26,00	24	10	0,011	0,006	-	14,43 €	
ZG2-11	11	24,00	28,00	24	10	0,012	0,007	-	14,43 €	
ZG2-12	12	24,00	28,00	24	10	0,012	0,007	✓	14,43 €	
ZG2-13	13	26,00	30,00	24	10	0,014	0,009	-	15,25 €	
ZG2-14	14	28,00	32,00	24	10	0,015	0,010	✓	16,11 €	
ZG2-15	15	30,00	34,00	25	12	0,016	0,011	✓	17,01 €	
ZG2-16	16	32,00	36,00	27	12	0,019	0,013	✓	18,30 €	
ZG2-17	17	34,00	38,00	30	12	0,023	0,015	-	18,89 €	
ZG2-18	18	36,00	40,00	30	12	0,025	0,017	✓	19,74 €	
ZG2-19	19	38,00	42,00	30	12	0,027	0,020	✓	20,46 €	
ZG2-20	20	40,00	44,00	30	12	0,030	0,022	✓	21,04 €	
ZG2-21	21	42,00	46,00	30	12	0,032	0,025	✓	25,18 €	
ZG2-22	22	44,00	48,00	35	12	0,038	0,027	✓	25,61 €	
ZG2-23	23	46,00	50,00	35	12	0,041	0,030	-	26,17 €	
ZG2-24	24	48,00	52,00	35	12	0,044	0,033	✓	26,70 €	
ZG2-25	25	50,00	54,00	35	12	0,047	0,036	✓	33,88 €	
ZG2-26	26	52,00	56,00	35	12	0,050	0,039	-	34,93 €	
ZG2-27	27	54,00	58,00	35	12	0,053	0,042	✓	36,23 €	
ZG2-28	28	56,00	60,00	35	12	0,056	0,045	-	37,01 €	
ZG2-29	29	58,00	62,00	35	12	0,060	0,049	-	37,92 €	
ZG2-30	30	60,00	64,00	35	12	0,063	0,052	✓	43,94 €	
ZG2-31	31	62,00	66,00	35	12	0,067	0,056	-	45,64 €	
ZG2-32	32	64,00	68,00	35	12	0,071	0,060	-	47,78 €	
ZG2-33	33	66,00	70,00	35	12	0,075	0,064	✓	48,65 €	

On request

*Depending on availability - Dimensions in mm

Part number	Teeth Z	PCD ØP	outside ØD	Boss ØM	ØA Alésage	Weight (kg) ZG	ZPG	Stock*	Price each 1 to 5 ZG	ZPG
ZG2-34	34	68,00	72,00	35	12	0,079	0,068	✓	51,04 €	
ZG2-35	35	70,00	74,00	35	12	0,083	0,072	✓	52,68 €	
ZG2-36	36	72,00	76,00	45	15	0,093	0,075	✓	55,65 €	
ZG2-37	37	74,00	78,00	45	15	0,098	0,080	-	59,75 €	
ZG2-38	38	76,00	80,00	45	15	0,102	0,084	✓	61,25 €	
ZG2-39	39	78,00	82,00	45	15	0,107	0,089	✓	62,62 €	
ZG2-40	40	80,00	84,00	45	15	0,112	0,094	✓	63,83 €	
ZG2-41	41	82,00	86,00	45	15	0,117	0,098	-	65,08 €	
ZG2-42	42	84,00	88,00	45	15	0,122	0,103	-	65,77 €	
ZG2-43	43	86,00	90,00	45	15	0,127	0,109	-	66,61 €	
ZG2-44	44	88,00	92,00	45	15	0,132	0,114	-	75,14 €	
ZG2-45	45	90,00	94,00	45	15	0,137	0,119	✓	76,36 €	
ZG2-46	46	92,00	96,00	45	15	0,143	0,125	-	77,99 €	
ZG2-47	47	94,00	98,00	45	15	0,149	0,130	-	79,92 €	
ZG2-48	48	96,00	100,00	45	15	0,154	0,136	✓	80,19 €	
ZG2-49	49	98,00	102,00	45	15	0,160	0,142	-	82,72 €	
ZG2-50	50	100,00	104,00	45	15	0,166	0,148	✓	85,96 €	
ZG2-51	51	102,00	106,00	45	15	0,172	0,154	-	87,69 €	
ZG2-52	52	104,00	108,00	45	15	0,179	0,160	-	89,13 €	
ZG2-53	53	106,00	110,00	45	15	0,185	0,167	-	90,12 €	
ZG2-54	54	108,00	112,00	45	15	0,191	0,173	✓	91,64 €	
ZG2-55	55	110,00	114,00	45	15	0,198	0,180	-	95,04 €	
ZG2-56	56	112,00	116,00	45	15	0,205	0,187	-	102,84 €	
ZG2-57	57	114,00	118,00	45	15	0,212	0,193	✓	104,80 €	
ZG2-58	58	116,00	120,00	45	15	0,219	0,200	-	116,57 €	
ZG2-59	59	118,00	122,00	60	15	0,242	0,208	-	116,97 €	
ZG2-60	60	120,00	124,00	60	15	0,249	0,215	✓	116,97 €	
ZG2-62	62	124,00	128,00	60	15	0,264	0,230	-	116,97 €	
ZG2-64	64	128,00	132,00	60	15	0,279	0,245	-	125,26 €	
ZG2-65	65	130,00	134,00	60	15	0,287	0,253	-	131,20 €	
ZG2-66	66	132,00	136,00	60	15	0,295	0,261	✓	133,49 €	
ZG2-68	68	136,00	140,00	60	15	0,311	0,277	-	138,92 €	
ZG2-70	70	140,00	144,00	60	15	0,328	0,294	✓	150,48 €	
ZG2-71	71	142,00	146,00	60	15	0,336	0,302	-	158,95 €	
ZG2-72	72	144,00	148,00	60	15	0,345	0,311	✓	168,60 €	
ZG2-73	73	146,00	150,00	60	15	0,354	0,320	-	171,09 €	
ZG2-74	74	148,00	152,00	60	15	0,363	0,328	-	171,09 €	
ZG2-75	75	150,00	154,00	60	15	0,372	0,337	✓	171,09 €	
ZG2-76	76	152,00	156,00	60	15	0,381	0,347	-	195,42 €	
ZG2-78	78	156,00	160,00	60	15	0,399	0,365	-	207,66 €	
ZG2-80	80	160,00	164,00	60	15	0,419	0,384	-	207,66 €	
ZG2-86	86	172,00	176,00	60	15	0,479	0,445	-	241,31 €	
ZG2-90	90	180,00	184,00	60	15	0,522	0,487	-	299,82 €	
ZG2-96	96	192,00	196,00	60	15	0,589	0,555	-	299,82 €	

On request

↓ **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



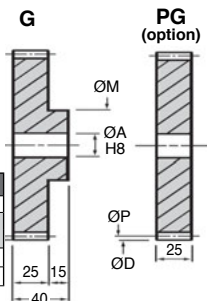
Module 2.5

Steel 20NCD2



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

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2		
	Z10CNF18.09	hardened	brass	fibre
Nm	48	228	24	19
kW	5	23.87	2.54	2.02



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G2.5-9	9	25,00	30,00	20	12	0,095	0,072	39,85 €	On request
G2.5-10	10	27,50	32,50	20	12	0,115	0,092	39,85 €	
G2.5-11	11	30,00	35,00	20	12	0,137	0,114	39,85 €	
G2.5-12	12	30,00	35,00	22	15	0,125	0,101	39,85 €	
G2.5-13	13	32,50	37,50	22	15	0,148	0,125	40,81 €	
G2.5-14	14	35,00	40,00	25	15	0,186	0,150	42,70 €	
G2.5-15	15	37,50	42,50	30	15	0,238	0,177	45,38 €	
G2.5-16	16	40,00	45,00	30	15	0,267	0,207	48,04 €	
G2.5-17	17	42,50	47,50	30	15	0,298	0,238	49,01 €	
G2.5-18	18	45,00	50,00	30	15	0,331	0,270	50,80 €	
G2.5-19	19	47,50	52,50	30	15	0,366	0,305	52,14 €	
G2.5-20	20	50,00	55,00	40	20	0,424	0,316	54,03 €	
G2.5-21	21	52,50	57,50	40	20	0,462	0,354	55,37 €	
G2.5-22	22	55,00	60,00	40	20	0,503	0,394	57,33 €	
G2.5-23	23	57,50	62,50	40	20	0,545	0,437	58,75 €	
G2.5-24	24	60,00	65,00	40	20	0,589	0,481	60,56 €	
G2.5-25	25	62,50	67,50	40	20	0,635	0,527	63,76 €	
G2.5-26	26	65,00	70,00	45	20	0,721	0,575	67,01 €	
G2.5-27	27	67,50	72,50	45	20	0,771	0,624	68,41 €	
G2.5-28	28	70,00	75,00	45	20	0,823	0,676	70,24 €	
G2.5-29	29	72,50	77,50	45	20	0,876	0,730	72,52 €	
G2.5-30	30	75,00	80,00	45	20	0,932	0,785	74,99 €	
G2.5-31	31	77,50	82,50	45	20	0,989	0,842	76,92 €	
G2.5-32	32	80,00	85,00	45	20	1,048	0,902	79,57 €	
G2.5-33	33	82,50	87,50	45	20	1,109	0,963	80,50 €	

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G2.5-34	34	85,00	90,00	45	20	1,172	1,025	82,42 €	
G2.5-35	35	87,50	92,50	45	20	1,237	1,090	84,25 €	
G2.5-36	36	90,00	95,00	45	20	1,303	1,157	88,83 €	
G2.5-37	37	92,50	97,50	45	20	1,372	1,225	90,07 €	
G2.5-38	38	95,00	100,00	45	20	1,442	1,296	92,65 €	
G2.5-39	39	97,50	102,50	45	20	1,515	1,368	93,94 €	
G2.5-40	40	100,00	105,00	50	20	1,632	1,442	96,23 €	
G2.5-41	41	102,50	107,50	50	20	1,708	1,518	98,59 €	
G2.5-42	42	105,00	110,00	50	20	1,786	1,596	100,09 €	
G2.5-43	43	107,50	112,50	50	20	1,866	1,676	101,14 €	
G2.5-44	44	110,00	115,00	50	20	1,964	1,774	102,35 €	
G2.5-45	45	112,50	117,50	50	20	2,031	1,842	103,70 €	
G2.5-46	46	115,00	120,00	50	20	2,116	1,927	106,11 €	
G2.5-47	47	117,50	122,50	50	20	2,204	2,014	108,11 €	
G2.5-48	48	120,00	125,00	50	20	2,293	2,104	111,07 €	
G2.5-49	49	122,50	127,50	50	20	2,384	2,195	114,07 €	
G2.5-50	50	125,00	130,00	50	20	2,477	2,288	117,22 €	
G2.5-51	51	127,50	132,50	50	20	2,572	2,382	118,11 €	
G2.5-52	52	130,00	135,00	50	20	2,668	2,479	120,06 €	
G2.5-53	53	132,50	137,50	50	20	2,767	2,578	121,04 €	
G2.5-54	54	135,00	140,00	50	20	2,868	2,678	122,26 €	
G2.5-55	55	137,50	142,50	50	20	2,970	2,781	134,16 €	
G2.5-56	56	140,00	145,00	50	20	3,074	2,885	136,47 €	
G2.5-57	57	142,50	147,50	50	20	3,180	2,991	138,99 €	
G2.5-58	58	145,00	150,00	50	20	3,288	3,099	141,06 €	
G2.5-59	59	147,50	152,50	50	20	3,398	3,209	143,09 €	
G2.5-60	60	150,00	155,00	50	20	3,510	3,321	145,47 €	
G2.5-62	62	155,00	160,00	50	20	3,739	3,550	164,63 €	
G2.5-64	64	160,00	165,00	50	20	3,976	3,786	185,90 €	
G2.5-65	65	162,50	167,50	50	20	4,097	3,907	199,19 €	
G2.5-66	66	165,00	170,00	50	20	4,220	4,030	219,05 €	
G2.5-68	68	170,00	175,00	50	20	4,471	4,282	228,69 €	
G2.5-70	70	175,00	180,00	50	20	4,731	4,541	242,52 €	
G2.5-71	71	177,50	182,50	100	25	5,485	4,640	257,37 €	
G2.5-72	72	180,00	185,00	100	25	5,619	4,774	273,02 €	
G2.5-73	73	182,50	187,50	100	25	5,756	4,910	283,07 €	
G2.5-74	74	185,00	190,00	100	25	5,894	5,048	294,22 €	
G2.5-75	75	187,50	192,50	100	25	6,033	5,188	305,51 €	
G2.5-76	76	190,00	195,00	100	25	6,175	5,330	314,95 €	
G2.5-78	78	195,00	200,00	100	25	6,465	5,619	322,48 €	
G2.5-80	80	200,00	205,00	100	25	6,761	5,916	328,20 €	
G2.5-86	86	215,00	220,00	100	25	7,697	6,851	334,52 €	
G2.5-90	90	225,00	230,00	100	25	8,358	7,513	365,85 €	
G2.5-96	96	240,00	245,00	100	25	9,406	8,560	393,88 €	
G2.5-98	98	245,00	250,00	100	25	9,770	8,925	416,50 €	
G2.5-100	100	250,00	255,00	100	25	10,142	9,297	467,35 €	
G2.5-105	105	262,50	267,50	100	25	11,104	10,259	506,98 €	
G2.5-110	110	275,00	280,00	100	25	12,114	11,269	538,12 €	
G2.5-115	115	287,50	292,50	100	25	13,170	12,325	586,22 €	
↓ Gears available up to this size ↓									
G2.5-235	235	587,50	592,50	Dimensions: contact us				On request	

Dimensions in mm

On request

Module 2.5

Steel 35NCD6

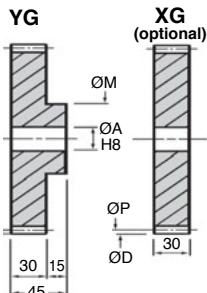


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material :
20NCD2 case-hardened

Torque and power indication For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	122	178	122	337
kW	12.65	18.65	12.68	35.06



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG2.5-9	9	25,00	30,00	30,00	12	0,155	0,087	53,28 €	
YG2.5-10	10	27,50	32,50	32,50	12	0,193	0,110	53,28 €	
YG2.5-11	11	30,00	35,00	35,00	12	0,234	0,136	53,28 €	
YG2.5-12	12	30,00	35,00	35,00	15	0,212	0,122	53,28 €	
YG2.5-13	13	32,50	37,50	35,00	15	0,240	0,150	54,40 €	
YG2.5-14	14	35,00	40,00	35,00	15	0,270	0,180	56,89 €	
YG2.5-15	15	37,50	42,50	35,00	15	0,303	0,213	60,58 €	
YG2.5-16	16	40,00	45,00	35,00	15	0,338	0,248	64,09 €	
YG2.5-17	17	42,50	47,50	35,00	15	0,375	0,285	65,42 €	
YG2.5-18	18	45,00	50,00	35,00	15	0,415	0,325	67,78 €	
YG2.5-19	19	47,50	52,50	35,00	15	0,456	0,366	69,63 €	
YG2.5-20	20	50,00	55,00	45,00	20	0,525	0,379	72,06 €	
YG2.5-21	21	52,50	57,50	45,00	20	0,571	0,425	73,89 €	
YG2.5-22	22	55,00	60,00	45,00	20	0,620	0,473	76,42 €	
YG2.5-23	23	57,50	62,50	45,00	20	0,670	0,524	78,35 €	
YG2.5-24	24	60,00	65,00	45,00	20	0,723	0,577	80,77 €	
YG2.5-25	25	62,50	67,50	45,00	20	0,779	0,632	85,08 €	
YG2.5-26	26	65,00	70,00	45,00	20	0,836	0,690	89,38 €	
YG2.5-27	27	67,50	72,50	45,00	20	0,896	0,749	91,25 €	
YG2.5-28	28	70,00	75,00	45,00	20	0,958	0,811	94,35 €	
YG2.5-29	29	72,50	77,50	60,00	20	1,164	0,876	96,70 €	
YG2.5-30	30	75,00	80,00	60,00	20	1,231	0,942	100,02 €	
YG2.5-31	31	77,50	82,50	60,00	20	1,299	1,011	102,54 €	
YG2.5-32	32	80,00	85,00	60,00	20	1,370	1,082	106,12 €	
YG2.5-33	33	82,50	87,50	60,00	20	1,444	1,155	107,32 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG2.5-34	34	85,00	90,00	60,00	20	1,519	1,231	109,93 €	
YG2.5-35	35	87,50	92,50	60,00	20	1,597	1,308	112,33 €	
YG2.5-36	36	90,00	95,00	60,00	20	1,677	1,388	118,49 €	
YG2.5-37	37	92,50	97,50	60,00	20	1,759	1,471	120,22 €	
YG2.5-38	38	95,00	100,00	60,00	20	1,844	1,555	123,57 €	
YG2.5-39	39	97,50	102,50	60,00	20	1,930	1,642	125,32 €	
YG2.5-40	40	100,00	105,00	75,00	20	2,202	1,731	144,27 €	
YG2.5-41	41	102,50	107,50	75,00	20	2,293	1,822	131,47 €	
YG2.5-42	42	105,00	110,00	75,00	20	2,387	1,916	133,53 €	
YG2.5-43	43	107,50	112,50	75,00	20	2,483	2,011	134,90 €	
YG2.5-44	44	110,50	115,00	75,00	20	2,600	2,129	136,55 €	
YG2.5-45	45	112,50	117,50	75,00	20	2,681	2,210	138,30 €	
YG2.5-46	46	115,00	120,00	75,00	20	2,783	2,312	141,46 €	
YG2.5-47	47	117,50	122,50	75,00	20	2,888	2,417	144,20 €	
YG2.5-48	48	120,00	125,00	75,00	20	2,995	2,524	148,13 €	
YG2.5-49	49	122,50	127,50	75,00	20	3,105	2,634	152,11 €	
YG2.5-50	50	125,00	130,00	75,00	20	3,216	2,745	156,34 €	
YG2.5-51	51	127,50	132,50	75,00	20	3,330	2,859	157,60 €	
YG2.5-52	52	130,00	135,00	75,00	20	3,446	2,975	159,71 €	
YG2.5-53	53	132,50	137,50	75,00	20	3,564	3,093	161,41 €	
YG2.5-54	54	135,00	140,00	75,00	20	3,685	3,214	163,11 €	
YG2.5-55	55	137,50	142,50	75,00	20	3,808	3,337	189,03 €	
YG2.5-56	56	140,00	145,00	75,00	20	3,933	3,462	189,03 €	
YG2.5-57	57	142,50	147,50	75,00	20	4,060	3,589	189,03 €	
YG2.5-58	58	145,00	150,00	75,00	20	4,190	3,719	189,03 €	
YG2.5-59	59	147,50	152,50	75,00	20	4,322	3,851	190,79 €	
YG2.5-60	60	150,00	155,00	100,00	20	4,850	3,985	193,93 €	
YG2.5-62	62	155,00	160,00	100,00	20	5,125	4,260	219,61 €	
YG2.5-64	64	160,00	165,00	100,00	20	5,409	4,544	247,92 €	
YG2.5-65	65	162,50	167,50	100,00	20	5,554	4,689	265,71 €	
YG2.5-66	66	165,00	170,00	100,00	20	5,702	4,837	292,14 €	
YG2.5-68	68	170,00	175,00	100,00	20	6,004	5,139	304,97 €	
YG2.5-70	70	175,00	180,00	100,00	20	6,315	5,450	323,41 €	
YG2.5-71	71	177,50	182,50	100,00	20	6,474	5,608	343,21 €	
YG2.5-72	72	180,00	185,00	100,00	20	6,635	5,770	364,08 €	
YG2.5-73	73	182,50	187,50	100,00	20	6,798	5,933	377,42 €	
YG2.5-74	74	185,00	190,00	100,00	20	6,964	6,099	392,38 €	
YG2.5-75	75	187,50	192,50	100,00	20	7,132	6,267	407,34 €	
YG2.5-76	76	190,00	195,00	100,00	20	7,302	6,437	422,35 €	
YG2.5-78	78	195,00	200,00	127,00	25	8,141	6,743	430,01 €	
YG2.5-80	80	200,00	205,00	127,00	25	8,497	7,099	437,63 €	
YG2.5-86	86	215,00	220,00	127,00	25	9,619	8,222	446,05 €	
YG2.5-90	90	225,00	230,00	127,00	25	10,413	9,015	487,82 €	
YG2.5-96	96	240,00	245,00	127,00	25	11,670	10,273	525,24 €	
YG2.5-98	98	245,00	250,00	127,00	25	12,108	10,710	555,38 €	
YG2.5-100	100	250,00	255,00	127,00	25	12,554	11,156	623,28 €	
YG2.5-105	105	262,50	267,50	127,00	25	13,709	12,311	676,05 €	
YG2.5-110	110	275,00	280,00	127,00	25	14,920	13,523	717,59 €	
YG2.5-115	115	287,50	292,50	127,00	25	16,188	14,790	781,72 €	
↓ Gears available up to this size ↓									
YG2.5-235	235	587,50	592,50	Dimensions: contact us				On request	

Dimensions in mm

On request

Plastic spur gear



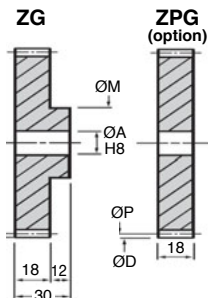
Module 2.5

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	On request

Part number	Teeth Z	PCD ØP	Outside 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	17,34 €	
ZG2.5-10	10	27,50	32,50	30	10	0,022	0,012	17,68 €	
ZG2.5-11	11	30,00	35,00	30	10	0,024	0,015	18,07 €	
ZG2.5-12	12	30,00	35,00	30	12	0,023	0,014	18,43 €	
ZG2.5-13	13	32,50	37,50	30	12	0,026	0,017	18,74 €	
ZG2.5-14	14	35,00	40,00	30	12	0,029	0,020	18,91 €	
ZG2.5-15	15	37,50	42,50	30	12	0,032	0,023	19,08 €	
ZG2.5-16	16	40,00	45,00	30	12	0,036	0,026	19,67 €	
ZG2.5-17	17	42,50	47,50	30	12	0,039	0,030	23,05 €	
ZG2.5-18	18	45,00	50,00	36	12	0,048	0,034	23,56 €	
ZG2.5-19	19	47,50	52,50	36	12	0,052	0,038	24,33 €	
ZG2.5-20	20	50,00	55,00	36	12	0,057	0,043	24,97 €	
ZG2.5-21	21	52,50	57,50	36	12	0,061	0,047	29,44 €	
ZG2.5-22	22	55,00	60,00	36	12	0,066	0,052	30,14 €	
ZG2.5-23	23	57,50	62,50	36	12	0,071	0,057	32,74 €	
ZG2.5-24	24	60,00	65,00	36	12	0,077	0,063	35,76 €	
ZG2.5-25	25	62,50	67,50	36	12	0,082	0,068	39,72 €	
ZG2.5-26	26	65,00	70,00	36	12	0,088	0,074	41,80 €	
ZG2.5-27	27	67,50	72,50	36	12	0,094	0,080	43,89 €	
ZG2.5-28	28	70,00	75,00	45	15	0,107	0,085	44,82 €	
ZG2.5-29	29	72,50	77,50	45	15	0,113	0,091	46,00 €	
ZG2.5-30	30	75,00	80,00	45	15	0,120	0,098	47,50 €	

On request

Dimensions in mm

DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						ZG	ZPG	ZG	ZPG
ZG2.5-31	31	77,50	82,50	45	15	0,127	0,105	55,65 €	
ZG2.5-32	32	80,00	85,00	45	15	0,134	0,112	57,11 €	
ZG2.5-33	33	82,50	87,50	45	15	0,141	0,120	59,06 €	
ZG2.5-34	34	85,00	90,00	45	15	0,149	0,127	59,84 €	
ZG2.5-35	35	87,50	92,50	45	15	0,157	0,135	61,14 €	
ZG2.5-36	36	90,00	95,00	50	17	0,169	0,142	69,89 €	
ZG2.5-37	37	92,50	97,50	50	17	0,177	0,150	70,85 €	
ZG2.5-38	38	95,00	100,00	50	17	0,186	0,159	80,76 €	
ZG2.5-39	39	97,50	102,50	50	17	0,194	0,168	82,14 €	
ZG2.5-40	40	100,00	105,00	50	17	0,203	0,177	84,14 €	
ZG2.5-41	41	102,50	107,50	50	17	0,213	0,186	86,21 €	
ZG2.5-42	42	105,00	110,00	50	17	0,222	0,195	87,52 €	
ZG2.5-43	43	107,50	112,50	50	17	0,232	0,205	88,44 €	
ZG2.5-44	44	110,50	115,00	50	17	0,244	0,217	89,43 €	
ZG2.5-45	45	112,50	117,50	50	17	0,252	0,225	90,87 €	
ZG2.5-46	46	115,00	120,00	50	17	0,262	0,235	102,00 €	
ZG2.5-47	47	117,50	122,50	50	17	0,273	0,246	104,02 €	
ZG2.5-48	48	120,00	125,00	50	17	0,283	0,257	106,82 €	
ZG2.5-49	49	122,50	127,50	50	17	0,294	0,268	109,69 €	
ZG2.5-50	50	125,00	130,00	50	17	0,306	0,279	112,64 €	
ZG2.5-51	51	127,50	132,50	50	17	0,317	0,290	113,69 €	
ZG2.5-52	52	130,00	135,00	50	17	0,329	0,302	115,22 €	
ZG2.5-53	53	132,50	137,50	50	17	0,341	0,314	116,38 €	
ZG2.5-54	54	135,00	140,00	50	17	0,353	0,326	128,37 €	
ZG2.5-55	55	137,50	142,50	50	17	0,365	0,338	133,39 €	
ZG2.5-56	56	140,00	145,00	50	17	0,378	0,351	143,18 €	
ZG2.5-57	57	142,50	147,50	65	20	0,408	0,362	145,95 €	
ZG2.5-58	58	145,00	150,00	65	20	0,421	0,375	148,23 €	
ZG2.5-59	59	147,50	152,50	65	20	0,435	0,388	150,14 €	
ZG2.5-60	60	150,00	155,00	65	20	0,448	0,402	152,69 €	
ZG2.5-62	62	155,00	160,00	65	20	0,476	0,430	172,80 €	
ZG2.5-64	64	160,00	165,00	65	20	0,504	0,458	211,35 €	
ZG2.5-65	65	162,50	167,50	65	20	0,519	0,473	226,50 €	
ZG2.5-66	66	165,00	170,00	65	20	0,534	0,488	249,10 €	
ZG2.5-68	68	170,00	175,00	65	20	0,564	0,518	260,08 €	
ZG2.5-70	70	175,00	180,00	65	20	0,596	0,549	244,57 €	
ZG2.5-71	71	177,50	182,50	65	20	0,612	0,566	292,63 €	
ZG2.5-72	72	180,00	185,00	65	20	0,628	0,582	310,34 €	
ZG2.5-73	73	182,50	187,50	65	20	0,645	0,598	321,85 €	
ZG2.5-74	74	185,00	190,00	65	20	0,661	0,615	329,46 €	
ZG2.5-75	75	187,50	192,50	65	20	0,678	0,632	308,22 €	
ZG2.5-76	76	190,00	195,00	65	20	0,695	0,649	319,57 €	
ZG2.5-78	78	195,00	200,00	65	20	0,730	0,684	348,18 €	
ZG2.5-80	80	200,00	205,00	65	20	0,766	0,720	552,02 €	

On request

↓ Gears available up to this size ↓				
ZG2.5-235	235	587,50	592,50	Dimensions: contact us
↓				On request

Dimensions in mm

Moulded plastic spur gear



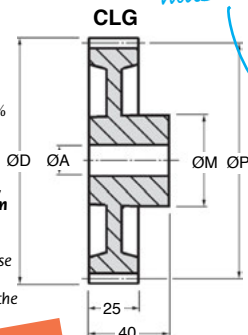
Module 2.5

Nylon 6 **moulded**

- Moulded parts
- Pressure angle 20°
- Material:
Nylon 6, Reinforced with 30% glass fibres

Options

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format
- HPC are unable to modify these parts. For parts that can be modified to order, please see the ZG and ZPG ranges.



A: Pre-bored hole must be finished



Economy range

DISCOUNTS

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

Part number	No. of teeth	Outside ØD	PCD ØP	Boss ØM	Bore ØA	Stock*	Price each 1 to 9
CLG2.5-12	12	35,00	30,00	22	8	✓	6,29 €
CLG2.5-14	14	40,00	35,00	22	8	-	On request
CLG2.5-15	15	42,50	37,50	30	10	✓	6,29 €
CLG2.5-16	16	45,00	40,00	30	10	✓	9,12 €
CLG2.5-18	18	50,00	45,00	35	10	✓	9,12 €
CLG2.5-20	20	55,00	50,00	35	10	✓	9,12 €
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	✓	12,50 €
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	-	15,87 €
CLG2.5-32	32	85,00	80,00	50	16	-	On request
CLG2.5-35	35	92,50	87,50	50	16	-	18,90 €
CLG2.5-40	40	105,00	100,00	60	20	-	On request
CLG2.5-45	45	117,50	112,50	60	20	-	28,29 €
CLG2.5-50	50	130,00	125,00	60	20	✓	31,31 €
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

C45 steel

Module 3,0

Economy range

- Economy range of gears

- Pressure angle 20°

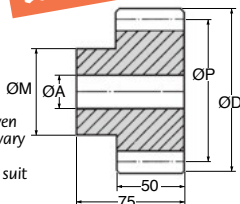
- Material:

C45 steel UNI7845

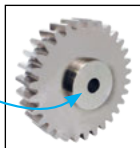
Info

- 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 offer this service**



Supplied pre-bored



DISCOUNTS

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

Part number	Z Teeth	OP PCD	OD Exterior	OM Bore	OA Pre-bore	Price each 1 to 3
G3-12/ECO	12	36	42	25	12	6.03 €
G3-13/ECO	13	39	45	25	12	7.20 €
G3-14/ECO	14	42	48	30	12	7.46 €
G3-15/ECO	15	45	51	35	12	8.40 €
G3-16/ECO	16	48	54	38	15	9.76 €
G3-17/ECO	17	51	57	42	15	10.38 €
G3-18/ECO	18	54	60	45	15	11.10 €
G3-19/ECO	19	57	63	45	15	11.43 €
G3-20/ECO	20	60	66	45	15	12.78 €
G3-21/ECO	21	63	69	45	15	14.91 €
G3-22/ECO	22	66	72	50	15	15.37 €
G3-23/ECO	23	69	75	50	15	16.87 €
G3-24/ECO	24	72	78	50	16	18.65 €
G3-25/ECO	25	75	81	60	16	19.16 €
G3-26/ECO	26	78	84	60	16	20.50 €
G3-27/ECO	27	81	87	60	16	21.93 €
G3-28/ECO	28	84	90	60	16	24.37 €
G3-29/ECO	29	87	93	60	16	25.20 €
G3-30/ECO	30	90	96	60	16	26.17 €
G3-31/ECO	31	93	99	70	20	27.11 €
G3-32/ECO	32	96	102	70	20	28.53 €
G3-33/ECO	33	99	105	70	20	28.65 €
G3-34/ECO	34	102	108	70	20	29.77 €
G3-35/ECO	35	105	111	70	20	31.53 €
G3-36/ECO	36	108	114	70	20	33.90 €
G3-37/ECO	37	111	117	80	20	35.21 €
G3-38/ECO	38	114	120	80	20	35.77 €
G3-39/ECO	39	117	123	80	20	36.78 €
G3-40/ECO	40	120	126	80	20	36.98 €
G3-41/ECO	41	123	129	90	20	43.16 €
G3-42/ECO	42	126	132	90	20	48.45 €
G3-43/ECO	43	129	135	90	20	51.30 €
G3-44/ECO	44	132	138	90	20	52.68 €
G3-45/ECO	45	135	141	90	20	55.65 €
G3-46/ECO	46	138	144	90	20	59.21 €
G3-47/ECO	47	141	147	90	20	61.87 €
G3-48/ECO	48	144	150	100	20	63.07 €

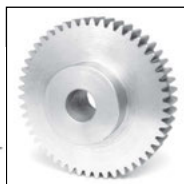
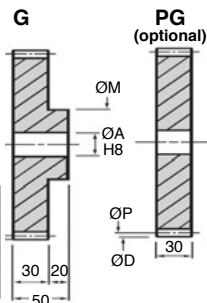
Dimensions in mm

Module 3.0



- 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	88	421	44	35
kW	8.95	44.01	4.66	3.73



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G3-9	9	30,00	36,00	28	15	0,189	0,122	26,88 €	
G3-10	10	33,00	39,00	28	15	0,223	0,156	26,88 €	
G3-11	11	36,00	42,00	28	15	0,260	0,193	26,88 €	
G3-12	12	36,00	42,00	28	20	0,208	0,162	26,88 €	
G3-13	13	39,00	45,00	28	20	0,248	0,202	27,84 €	
G3-14	14	42,00	48,00	30	20	0,306	0,246	29,05 €	
G3-15	15	45,00	51,00	30	20	0,353	0,293	29,94 €	
G3-16	16	48,00	54,00	40	20	0,488	0,343	31,82 €	
G3-17	17	51,00	57,00	40	20	0,541	0,397	33,60 €	
G3-18	18	54,00	60,00	40	20	0,598	0,454	35,33 €	
G3-19	19	57,00	63,00	40	20	0,658	0,514	36,76 €	
G3-20	20	60,00	66,00	50	25	0,762	0,536	37,89 €	
G3-21	21	63,00	69,00	50	25	0,828	0,603	39,17 €	
G3-22	22	66,00	72,00	50	25	0,898	0,673	40,49 €	
G3-23	23	69,00	75,00	50	25	0,971	0,746	41,76 €	
G3-24	24	72,00	78,00	50	25	1,047	0,822	43,01 €	
G3-25	25	75,00	81,00	50	25	1,127	0,902	45,59 €	
G3-26	26	78,00	84,00	50	25	1,210	0,984	48,15 €	
G3-27	27	81,00	87,00	50	25	1,296	1,070	49,31 €	
G3-28	28	84,00	90,00	50	25	1,385	1,160	50,74 €	
G3-29	29	87,00	93,00	50	25	1,477	1,252	52,79 €	
G3-30	30	90,00	96,00	50	25	1,573	1,348	54,65 €	
G3-31	31	93,00	99,00	50	25	1,672	1,447	56,58 €	
G3-32	32	96,00	102,00	50	25	1,774	1,549	58,64 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G3-33	33	99,00	105,00	50	25	1,880	1,654	61,85 €	
G3-34	34	102,00	108,00	50	25	1,989	1,763	63,13 €	
G3-35	35	105,00	111,00	60	25	2,233	1,875	68,00 €	
G3-36	36	108,00	114,00	60	25	2,348	1,990	70,58 €	
G3-37	37	111,00	117,00	60	25	2,466	2,109	71,99 €	
G3-38	38	114,00	120,00	60	25	2,588	2,230	73,02 €	
G3-39	39	117,00	123,00	60	25	2,713	2,355	73,97 €	
G3-40	40	120,00	126,00	60	25	2,841	2,484	75,04 €	
G3-41	41	123,00	129,00	60	25	2,973	2,615	76,34 €	
G3-42	42	126,00	132,00	60	25	3,107	2,750	77,31 €	
G3-43	43	129,00	135,00	60	25	3,245	2,888	84,28 €	
G3-44	44	132,00	138,00	60	25	3,386	3,029	94,55 €	
G3-45	45	135,00	141,00	60	25	3,531	3,173	110,92 €	
G3-46	46	138,00	144,00	60	25	3,679	3,321	111,93 €	
G3-47	47	141,00	147,00	60	25	3,829	3,472	112,71 €	
G3-48	48	144,00	150,00	60	25	3,984	3,626	119,61 €	
G3-49	49	147,00	153,00	60	25	4,141	3,783	122,07 €	
G3-50	50	150,00	156,00	60	25	4,302	3,944	119,37 €	
G3-51	51	153,00	159,00	60	25	4,466	4,108	127,24 €	
G3-52	52	156,00	162,00	60	25	4,633	4,275	131,55 €	
G3-53	53	159,00	165,00	60	25	4,803	4,445	136,03 €	
G3-54	54	162,00	168,00	60	25	4,977	4,619	140,08 €	
G3-55	55	165,00	171,00	60	25	5,154	4,796	146,75 €	
G3-56	56	168,00	174,00	60	25	5,334	4,976	149,09 €	
G3-57	57	171,00	177,00	60	25	5,517	5,159	151,46 €	
G3-58	58	174,00	180,00	60	25	5,704	5,346	153,85 €	
G3-59	59	177,00	183,00	60	25	5,894	5,536	158,30 €	
G3-60	60	180,00	186,00	60	25	6,087	5,729	162,60 €	
G3-61	61	183,00	189,00	60	25	6,283	5,925	167,05 €	
G3-62	62	186,00	192,00	60	25	6,483	6,125	171,48 €	
G3-63	63	189,00	195,00	60	25	6,685	6,328	175,99 €	
G3-64	64	192,00	198,00	120	30	8,107	6,484	179,95 €	
G3-65	65	195,00	201,00	120	30	8,316	6,694	181,00 €	
G3-68	68	204,00	210,00	120	30	8,964	7,341	193,80 €	
G3-70	70	210,00	216,00	120	30	9,412	7,789	209,37 €	
G3-72	72	216,00	222,00	120	30	9,873	8,250	216,08 €	
G3-75	75	225,00	231,00	120	30	10,588	8,965	232,79 €	
G3-76	76	228,00	234,00	120	30	10,833	9,210	234,62 €	
G3-78	78	234,00	240,00	120	30	11,333	9,710	247,08 €	
G3-80	80	240,00	246,00	120	20	11,846	10,223	259,66 €	
G3-82	82	246,00	252,00	120	30	12,371	10,749	274,06 €	
G3-84	84	252,00	258,00	120	30	12,910	11,288	287,25 €	
G3-86	86	258,00	264,00	120	30	13,462	11,839	310,38 €	
G3-88	88	264,00	270,00	120	30	14,027	12,404	329,59 €	
G3-90	90	270,00	276,00	120	30	14,604	12,982	341,85 €	
G3-92	92	276,00	282,00	120	30	15,195	13,572	352,51 €	
G3-94	94	282,00	288,00	120	30	15,799	14,176	375,58 €	
G3-95	95	285,00	291,00	120	30	16,105	14,483	390,76 €	
G3-96	96	288,00	294,00	120	30	16,415	14,793	404,54 €	
↓ Gears available up to this size ↓									
G3-195	195	585,00	591,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Module 3.0

Steel 35NCD6



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

Torque and power indication

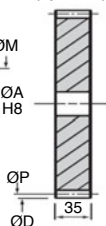
For 50 teeth at 1000 rpm

	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	223	325	223	615
kW	23,12	33,57	23,12	64,15

YG



XG (optional)



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Price each 1 to 5 YG	XG
YG3-9	9	30,00	36,00	36	15	0,27	0,14	36,09 €	
YG3-10	10	33,00	39,00	39	15	0,34	0,18	36,09 €	
YG3-11	11	36,00	42,00	42	15	0,41	0,23	36,09 €	
YG3-12	12	36,00	42,00	42	20	0,35	0,19	36,09 €	
YG3-13	13	39,00	45,00	45	20	0,43	0,24	37,34 €	
YG3-14	14	42,00	48,00	45	20	0,48	0,29	38,98 €	
YG3-15	15	45,00	51,00	45	20	0,54	0,34	40,13 €	
YG3-16	16	48,00	54,00	45	20	0,60	0,40	42,70 €	
YG3-17	17	51,00	57,00	45	20	0,66	0,46	45,08 €	
YG3-18	18	54,00	60,00	45	20	0,72	0,53	47,53 €	
YG3-19	19	57,00	63,00	45	20	0,79	0,60	49,31 €	
YG3-20	20	60,00	66,00	60	25	0,98	0,63	50,81 €	
YG3-21	21	63,00	69,00	60	25	1,06	0,70	52,60 €	
YG3-22	22	66,00	72,00	60	25	1,14	0,78	54,35 €	
YG3-23	23	69,00	75,00	60	25	1,23	0,87	56,03 €	
YG3-24	24	72,00	78,00	60	25	1,32	0,96	57,69 €	
YG3-25	25	75,00	81,00	60	25	1,41	1,05	61,13 €	
YG3-26	26	78,00	84,00	60	25	1,51	1,15	64,61 €	
YG3-27	27	81,00	87,00	60	25	1,61	1,25	66,11 €	
YG3-28	28	84,00	90,00	60	25	1,71	1,35	68,09 €	
YG3-29	29	87,00	93,00	60	25	1,82	1,46	70,81 €	
YG3-30	30	90,00	96,00	60	25	1,93	1,57	73,38 €	
YG3-31	31	93,00	99,00	60	25	2,05	1,69	75,97 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	XG	Price each 1 to 5 YG	XG
YG3-32	32	96,00	102,00	60	25	2,16	1,81	82,17 €	
YG3-33	33	99,00	105,00	60	25	2,29	1,93	82,99 €	
YG3-34	34	102,00	108,00	75	25	2,66	2,06	84,66 €	
YG3-35	35	105,00	111,00	75	25	2,79	2,19	91,21 €	
YG3-36	36	108,00	114,00	75	25	2,92	2,32	94,70 €	
YG3-37	37	111,00	117,00	75	25	3,06	2,46	103,35 €	
YG3-38	38	114,00	120,00	75	25	3,20	2,60	103,35 €	
YG3-39	39	117,00	123,00	75	25	3,35	2,75	103,35 €	
YG3-40	40	120,00	126,00	75	25	3,50	2,90	100,68 €	
YG3-41	41	123,00	129,00	75	25	3,65	3,05	102,46 €	
YG3-42	42	126,00	132,00	75	25	3,81	3,21	120,77 €	
YG3-43	43	129,00	135,00	75	25	3,97	3,37	120,77 €	
YG3-44	44	132,00	138,00	100	25	4,66	3,53	126,87 €	
YG3-45	45	135,00	141,00	100	25	4,83	3,70	157,52 €	
YG3-46	46	138,00	144,00	100	25	5,00	3,87	157,52 €	
YG3-47	47	141,00	147,00	100	25	5,18	4,05	157,52 €	
YG3-48	48	144,00	150,00	100	25	5,36	4,23	152,85 €	
YG3-49	49	147,00	153,00	100	25	5,54	4,41	158,89 €	
YG3-50	50	150,00	156,00	100	25	5,73	4,60	171,25 €	
YG3-51	51	153,00	159,00	100	25	5,92	4,79	170,56 €	
YG3-52	52	156,00	162,00	100	25	6,11	4,99	176,49 €	
YG3-53	53	159,00	165,00	100	25	6,31	5,19	182,42 €	
YG3-54	54	162,00	168,00	100	25	6,52	5,39	199,26 €	
YG3-55	55	165,00	171,00	100	25	6,72	5,60	196,85 €	
YG3-56	56	168,00	174,00	100	25	6,93	5,81	199,97 €	
YG3-57	57	171,00	177,00	127	25	7,88	6,02	203,07 €	
YG3-58	58	174,00	180,00	127	25	8,10	6,24	206,34 €	
YG3-59	59	177,00	183,00	127	25	8,32	6,46	249,07 €	
YG3-60	60	180,00	186,00	127	25	8,55	6,68	249,07 €	
YG3-61	61	183,00	189,00	127	25	8,78	6,91	249,07 €	
YG3-62	62	186,00	192,00	127	25	9,01	7,15	249,07 €	
YG3-63	63	189,00	195,00	127	25	9,25	7,38	249,07 €	
YG3-64	64	192,00	198,00	127	25	9,49	7,62	249,07 €	
YG3-65	65	195,00	201,00	127	25	9,73	7,87	326,94 €	
YG3-68	68	204,00	210,00	127	25	10,49	8,62	326,94 €	
YG3-70	70	210,00	216,00	150	30	11,68	9,09	326,94 €	
YG3-72	72	216,00	222,00	150	30	12,22	9,62	326,94 €	
YG3-75	75	225,00	231,00	150	30	13,06	10,46	386,10 €	
YG3-76	76	228,00	234,00	150	30	13,34	10,75	386,10 €	
YG3-78	78	234,00	240,00	150	30	13,92	11,33	386,10 €	
YG3-80	80	240,00	246,00	150	30	14,52	11,93	386,10 €	
YG3-82	82	246,00	252,00	150	30	15,14	12,54	423,47 €	
YG3-84	84	252,00	258,00	150	30	15,77	13,17	423,47 €	
YG3-86	86	259,00	264,00	150	30	16,41	13,81	485,74 €	
YG3-88	88	264,00	270,00	150	30	17,07	14,47	485,74 €	
YG3-90	90	270,00	276,00	150	30	17,74	15,15	529,36 €	
YG3-92	92	276,00	282,00	150	30	18,43	15,83	566,72 €	
YG3-94	94	282,00	288,00	150	30	19,13	16,54	566,72 €	
YG3-95	95	285,00	291,00	150	30	19,49	16,90	643,96 €	
YG3-96	96	288,00	294,00	150	30	19,85	17,26	643,96 €	
↓ Gears available up to this size ↓									
YG3-195	195	585,00	591,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Plastic spur gear



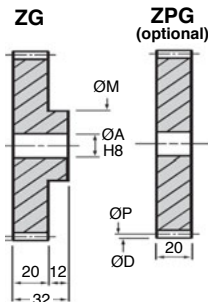
Module 3.0



- **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

Machined Delrin



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD $\varnothing P$	Outside $\varnothing D$	Boss $\varnothing M$	Bore $\varnothing A$	Weight (kg)		Price each 1 to 5	
						ZG	ZPG	ZG	ZPG
ZG3-9	9	30,00	36,00	36	12	0,029	0,015	15,45 €	
ZG3-10	10	33,00	39,00	36	12	0,033	0,019	15,45 €	
ZG3-11	11	36,00	42,00	36	12	0,037	0,023	15,45 €	
ZG3-12	12	36,00	42,00	36	15	0,035	0,022	15,45 €	
ZG3-13	13	39,00	45,00	36	15	0,039	0,026	16,02 €	
ZG3-14	14	42,00	48,00	36	15	0,044	0,031	19,02 €	
ZG3-15	15	45,00	51,00	40	15	0,053	0,036	19,65 €	
ZG3-16	16	48,00	54,00	40	15	0,059	0,042	20,83 €	
ZG3-17	17	51,00	57,00	40	15	0,065	0,048	21,98 €	
ZG3-18	18	54,00	60,00	48	15	0,080	0,054	23,19 €	
ZG3-19	19	57,00	63,00	48	15	0,086	0,061	24,07 €	
ZG3-20	20	60,00	66,00	48	15	0,093	0,068	25,02 €	
ZG3-21	21	63,00	69,00	48	15	0,101	0,076	34,97 €	
ZG3-22	22	66,00	72,00	48	15	0,109	0,083	36,14 €	
ZG3-23	23	69,00	75,00	48	15	0,117	0,092	37,32 €	
ZG3-24	24	72,00	78,00	48	15	0,125	0,100	38,45 €	
ZG3-25	25	75,00	81,00	48	15	0,134	0,109	40,71 €	
ZG3-26	26	78,00	84,00	60	20	0,154	0,115	45,58 €	
ZG3-27	27	81,00	87,00	60	20	0,163	0,124	46,69 €	
ZG3-28	28	84,00	90,00	60	20	0,173	0,134	47,99 €	
ZG3-29	29	87,00	93,00	60	20	0,184	0,145	49,89 €	
ZG3-30	30	90,00	96,00	60	20	0,194	0,156	51,70 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						ZG	ZPG	ZG	ZPG
ZG3-31	31	93,00	99,00	60	20	0,205	0,167	59,62 €	
ZG3-32	32	96,00	102,00	60	20	0,217	0,178	61,73 €	
ZG3-33	33	99,00	105,00	60	20	0,229	0,190	65,13 €	
ZG3-34	34	102,00	108,00	60	20	0,241	0,202	72,06 €	
ZG3-35	35	105,00	111,00	60	20	0,253	0,215	77,56 €	
ZG3-36	36	108,00	114,00	60	20	0,266	0,228	80,56 €	
ZG3-37	37	111,00	117,00	60	20	0,280	0,241	83,26 €	
ZG3-38	38	114,00	120,00	60	20	0,293	0,254	84,47 €	
ZG3-39	39	117,00	123,00	60	20	0,307	0,268	92,08 €	
ZG3-40	40	120,00	126,00	60	20	0,322	0,283	93,43 €	
ZG3-41	41	123,00	129,00	60	20	0,336	0,298	95,10 €	
ZG3-42	42	126,00	132,00	60	20	0,351	0,313	97,51 €	
ZG3-43	43	129,00	135,00	60	20	0,367	0,328	104,95 €	
ZG3-44	44	132,00	138,00	60	20	0,383	0,344	117,75 €	
ZG3-45	45	135,00	141,00	60	20	0,399	0,360	146,11 €	
ZG3-46	46	138,00	144,00	60	20	0,415	0,377	146,11 €	
ZG3-47	47	141,00	147,00	60	20	0,432	0,394	146,11 €	
ZG3-48	48	144,00	150,00	60	20	0,450	0,411	146,11 €	
ZG3-49	49	147,00	153,00	60	20	0,467	0,428	146,11 €	
ZG3-50	50	150,00	156,00	60	20	0,485	0,446	165,76 €	
ZG3-51	51	153,00	159,00	60	20	0,504	0,465	171,54 €	
ZG3-52	52	156,00	162,00	60	20	0,522	0,484	177,36 €	
ZG3-53	53	159,00	165,00	60	20	0,541	0,503	177,36 €	
ZG3-54	54	162,00	168,00	80	20	0,595	0,522	206,10 €	
ZG3-55	55	165,00	171,00	80	20	0,615	0,542	206,10 €	
ZG3-56	56	168,00	174,00	80	20	0,635	0,562	206,10 €	
ZG3-57	57	171,00	177,00	80	20	0,655	0,583	206,10 €	
ZG3-58	58	174,00	180,00	80	20	0,676	0,603	206,10 €	
ZG3-59	59	177,00	183,00	80	20	0,697	0,625	246,29 €	
ZG3-60	60	180,00	186,00	80	20	0,719	0,646	253,23 €	
ZG3-61	61	183,00	189,00	80	20	0,741	0,668	256,09 €	
ZG3-62	62	186,00	192,00	80	20	0,763	0,691	256,09 €	
ZG3-63	63	189,00	195,00	80	20	0,786	0,713	256,09 €	
ZG3-64	64	192,00	198,00	80	20	0,809	0,737	256,09 €	
ZG3-65	65	195,00	201,00	80	20	0,833	0,760	406,00 €	
ZG3-68	68	204,00	210,00	80	20	0,905	0,833	406,00 €	
ZG3-70	70	210,00	216,00	80	20	0,955	0,883	406,00 €	
ZG3-72	72	216,00	222,00	80	20	1,007	0,934	406,00 €	
↓ Gears available up to this size ↓									
ZG3-195	195	585,00	591,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Moulded plastic spur gear



Module 3.0

Nylon 6 moulded

Economy range

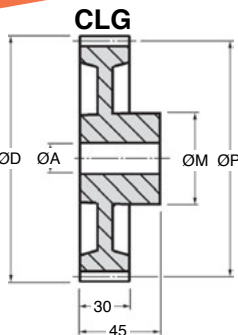


- Moulded parts
- Pressure angle 20°
- Material:

Nylon 6, Reinforced with 30% glass fibres

Options

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format
- HPC are unable to modify these parts. For parts that can be modified to order, please see the ZG and ZPG ranges.



A: Pre-bored hole must be finished

DISCOUNTS

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

Part number	No. of teeth	Outside ØD	PCD ØP	Boss ØM	Bore ØA	Stock*	Price each 1 to 9
CLG3-12	12	42	36	25	12	✓	8,52 €
CLG3-14	14	48	42	30	12	-	On request
CLG3-15	15	51	45	35	12	✓	8,52 €
CLG3-16	16	54	48	40	12	✓	16,30 €
CLG3-18	18	60	54	45	12	✓	16,30 €
CLG3-20	20	66	60	45	12	✓	16,30 €
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	✓	22,28 €
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	✓	27,71 €
CLG3-32	32	102	96	50	16	-	On request
CLG3-35	35	111	105	50	20	✓	33,47 €
CLG3-40	40	126	120	60	20	✓	40,29 €
CLG3-45	45	141	135	60	20	-	45,26 €
CLG3-50	50	156	150	60	20	-	47,27 €
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

- Economy range of gears
- Pressure angle 20°
- Material:
C45 steel UNI7845

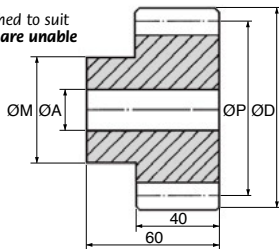
Info

- 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 offer this service**

Supplied pre-bored



Economy range



DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Exterior	ØM Bore	ØA Pre-bore	Price each 1 to 3
G4-12/ECO	12	48	56	35	14	10,87 €
G4-13/ECO	13	52	60	40	14	12,67 €
G4-14/ECO	14	56	64	45	14	14,40 €
G4-15/ECO	15	60	68	45	14	16,31 €
G4-16/ECO	16	64	72	50	15	18,78 €
G4-17/ECO	17	68	76	50	15	21,00 €
G4-18/ECO	18	72	80	50	15	22,35 €
G4-19/ECO	19	76	84	60	15	22,95 €
G4-20/ECO	20	80	88	60	15	24,63 €
G4-21/ECO	21	84	92	70	20	25,72 €
G4-22/ECO	22	88	96	70	20	28,08 €
G4-23/ECO	23	92	100	75	20	31,27 €
G4-24/ECO	24	96	104	75	20	33,18 €
G4-25/ECO	25	100	108	75	20	35,02 €
G4-26/ECO	26	104	112	75	20	37,27 €
G4-27/ECO	27	108	116	75	20	41,13 €
G4-28/ECO	28	112	120	75	20	43,56 €
G4-29/ECO	29	116	124	75	20	45,00 €
G4-30/ECO	30	120	128	75	20	47,81 €
G4-31/ECO	31	124	132	80	20	48,82 €
G4-32/ECO	32	128	136	80	20	50,51 €
G4-33/ECO	33	132	140	80	20	52,98 €
G4-34/ECO	34	136	144	80	20	55,38 €
G4-35/ECO	35	140	148	80	20	57,75 €
G4-36/ECO	36	144	152	80	20	65,25 €

Dimensions in mm

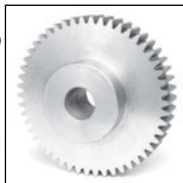
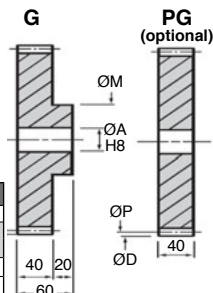
Module 4.0

Steel 20NCD2



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

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2 Z10CNF18.09	20NCD2 hardened	brass	fibre
Nm	200	953	100	80
kW	20.88	99.96	10.44	8.20



DISCOUNTS

Qty	1+	4+	20+
Disc. List	-5%	-5%	On request

Part number	Teeth Z	PCD ØP	Outside 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	31,65 €	
G4-10	10	44,00	52,00	34	20	0,460	0,369	31,65 €	
G4-11	11	48,00	56,00	38	25	0,502	0,404	31,65 €	
G4-12	12	48,00	56,00	38	25	0,502	0,404	32,35 €	
G4-13	13	52,00	60,00	38	25	0,598	0,500	34,15 €	
G4-14	14	56,00	64,00	40	25	0,721	0,604	36,62 €	
G4-15	15	60,00	68,00	40	25	0,832	0,715	41,57 €	
G4-16	16	64,00	72,00	50	25	1,060	0,834	46,09 €	
G4-17	17	68,00	76,00	50	25	1,187	0,961	48,59 €	
G4-18	18	72,00	80,00	50	25	1,321	1,096	51,04 €	
G4-19	19	76,00	84,00	50	25	1,464	1,238	52,95 €	
G4-20	20	80,00	88,00	50	25	1,614	1,388	55,48 €	
G4-21	21	84,00	92,00	50	25	1,771	1,546	57,48 €	
G4-22	22	88,00	96,00	50	25	1,937	1,711	60,50 €	
G4-23	23	92,00	100,00	50	25	2,110	1,884	61,68 €	
G4-24	24	96,00	104,00	50	25	2,291	2,065	62,88 €	
G4-25	25	100,00	108,00	80	30	2,849	2,188	65,39 €	
G4-26	26	104,00	112,00	80	30	3,045	2,384	68,12 €	
G4-27	27	108,00	116,00	80	30	3,249	2,588	71,11 €	
G4-28	28	112,00	120,00	80	30	3,460	2,799	73,84 €	
G4-29	29	116,00	124,00	80	30	3,680	3,018	76,38 €	
G4-30	30	120,00	128,00	80	30	3,907	3,245	79,14 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						G	PG	G	PG
G4-31	31	124,00	132,00	80	30	4,141	3,480	84,39 €	
G4-32	32	128,00	136,00	80	30	4,383	3,722	89,35 €	
G4-33	33	132,00	140,00	80	30	4,633	3,972	99,14 €	
G4-34	34	136,00	144,00	80	30	4,891	4,230	102,24 €	
G4-35	35	140,00	148,00	80	30	5,157	4,495	112,34 €	
G4-36	36	144,00	152,00	80	30	5,430	4,769	117,42 €	
G4-37	37	148,00	156,00	80	30	5,710	5,049	124,46 €	
G4-38	38	152,00	160,00	80	30	5,999	5,338	126,36 €	
G4-39	39	156,00	164,00	80	30	6,295	5,634	133,42 €	
G4-40	40	160,00	168,00	80	30	6,599	5,938	137,88 €	
G4-41	41	164,00	172,00	80	30	6,911	6,249	143,11 €	
G4-42	42	168,00	176,00	80	30	7,230	6,569	156,12 €	
G4-43	43	172,00	180,00	80	30	7,557	6,896	158,72 €	
G4-44	44	176,00	184,00	80	30	7,891	7,230	161,42 €	
G4-45	45	180,00	188,00	80	30	8,234	7,573	164,07 €	
G4-46	46	184,00	192,00	80	30	8,584	7,923	165,98 €	
G4-47	47	188,00	196,00	80	30	8,941	8,280	167,86 €	
G4-48	48	192,00	200,00	80	30	9,307	8,646	169,74 €	
G4-49	49	196,00	204,00	80	30	9,680	9,019	208,84 €	
G4-50	50	200,00	208,00	80	30	10,061	9,400	208,84 €	
G4-51	51	204,00	212,00	120	30	11,411	9,788	208,84 €	
G4-52	52	208,00	216,00	120	30	11,807	10,184	208,84 €	
G4-53	53	212,00	220,00	120	30	12,211	10,588	208,84 €	
G4-54	54	216,00	224,00	120	30	12,622	11,000	208,84 €	
G4-55	55	220,00	228,00	120	30	13,042	11,419	245,92 €	
G4-56	56	224,00	232,00	120	30	13,469	11,846	245,92 €	
G4-57	57	228,00	236,00	120	30	13,903	12,281	245,92 €	
G4-58	58	232,00	240,00	120	30	14,346	12,723	237,19 €	
G4-59	59	236,00	244,00	120	30	14,796	13,173	246,93 €	
G4-60	60	240,00	248,00	120	30	15,253	13,631	253,15 €	
G4-61	61	244,00	252,00	120	30	15,719	14,096	306,62 €	
G4-62	62	248,00	256,00	120	30	16,192	14,569	309,45 €	
G4-63	63	252,00	260,00	120	30	16,673	15,050	315,07 €	
G4-64	64	256,00	264,00	120	30	17,161	15,538	321,65 €	
G4-65	65	260,00	268,00	150	38	18,435	15,904	335,23 €	
G4-66	66	264,00	272,00	150	38	18,939	16,408	346,65 €	
G4-67	67	268,00	276,00	150	38	19,450	16,919	358,93 €	
G4-68	68	272,00	280,00	150	38	19,970	17,439	369,55 €	
G4-69	69	276,00	284,00	150	38	20,497	17,966	379,30 €	
G4-70	70	280,00	288,00	150	38	21,031	18,500	387,24 €	
G4-71	71	284,00	292,00	150	38	21,573	19,043	464,95 €	
G4-72	72	288,00	296,00	150	38	22,124	19,593	464,95 €	
↓ Gears available up to this size ↓									
G4-145	145	580,00	588,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Module 4.0

Steel 35NCD6

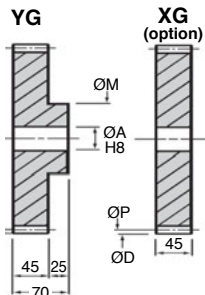


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material :
20NCD2 case-hardened

Torque and power indication				
For 50 teeth at 1000 rpm				
	35NCD6	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	420	665	510	1256
kW	44	69	52.96	131



DISCOUNTS

Qty	1+	4+	20+
Disc.	List -5%	On request	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG4-9	9	40,00	48,00	48	20	0,61	0,32	42,30 €	
YG4-10	10	44,00	52,00	52	20	0,76	0,42	42,30 €	
YG4-11	11	48,00	56,00	56	25	0,83	0,45	42,30 €	
YG4-12	12	48,00	56,00	56	25	0,83	0,45	42,36 €	
YG4-13	13	52,00	60,00	60	25	1,01	0,56	45,60 €	
YG4-14	14	56,00	64,00	60	25	1,13	0,68	48,91 €	
YG4-15	15	60,00	68,00	60	25	1,25	0,80	55,45 €	
YG4-16	16	64,00	72,00	60	25	1,39	0,94	61,47 €	
YG4-17	17	68,00	76,00	60	25	1,53	1,08	64,79 €	
YG4-18	18	72,00	80,00	60	25	1,68	1,23	68,12 €	
YG4-19	19	76,00	84,00	60	25	1,84	1,39	70,61 €	
YG4-20	20	80,00	88,00	60	25	2,01	1,56	73,21 €	
YG4-21	21	84,00	92,00	60	25	2,19	1,74	76,70 €	
YG4-22	22	88,00	96,00	75	25	2,68	1,93	80,76 €	
YG4-23	23	92,00	100,00	75	25	2,87	2,12	82,39 €	
YG4-24	24	96,00	104,00	75	25	3,07	2,32	102,40 €	
YG4-25	25	100,00	108,00	75	30	3,17	2,46	102,40 €	
YG4-26	26	104,00	112,00	75	30	3,39	2,68	102,40 €	
YG4-27	27	108,00	116,00	75	30	3,62	2,91	128,78 €	
YG4-28	28	112,00	120,00	75	30	3,86	3,15	128,78 €	
YG4-29	29	116,00	124,00	100	30	4,76	3,40	128,78 €	
YG4-30	30	120,00	128,00	100	30	5,02	3,65	128,78 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg)		Price each 1 to 5	
						YG	XG	YG	XG
YG4-31	31	124,00	132,00	100	30	5,28	3,92	150,49 €	
YG4-32	32	128,00	136,00	100	30	5,55	4,19	150,49 €	
YG4-33	33	132,00	140,00	100	30	5,84	4,47	150,49 €	
YG4-34	34	136,00	144,00	100	30	6,13	4,76	196,28 €	
YG4-35	35	140,00	148,00	100	30	6,42	5,06	196,28 €	
YG4-36	36	144,00	152,00	100	30	6,73	5,36	196,28 €	
YG4-37	37	148,00	156,00	100	30	7,05	5,68	213,33 €	
YG4-38	38	152,00	160,00	100	30	7,37	6,01	213,33 €	
YG4-39	39	156,00	164,00	100	30	7,71	6,34	213,33 €	
YG4-40	40	160,00	168,00	100	30	8,05	6,68	248,26 €	
YG4-41	41	164,00	172,00	100	30	8,40	7,03	248,26 €	
YG4-42	42	168,00	176,00	127	30	9,68	7,39	248,26 €	
YG4-43	43	172,00	180,00	127	30	10,05	7,76	248,26 €	
YG4-44	44	176,00	184,00	127	30	10,42	8,13	310,34 €	
YG4-45	45	180,00	188,00	127	30	10,81	8,52	310,34 €	
YG4-46	46	184,00	192,00	127	30	11,20	8,91	310,34 €	
YG4-47	47	188,00	196,00	127	30	11,60	9,32	310,34 €	
YG4-48	48	192,00	200,00	127	30	12,01	9,73	310,34 €	
YG4-49	49	196,00	204,00	127	30	12,43	10,15	407,34 €	
YG4-50	50	200,00	208,00	127	30	12,86	10,57	407,34 €	
YG4-51	51	204,00	212,00	127	30	13,30	11,01	407,34 €	
YG4-52	52	208,00	216,00	127	30	13,75	11,46	407,34 €	
YG4-53	53	212,00	220,00	127	30	14,20	11,91	407,34 €	
YG4-54	54	216,00	224,00	127	30	14,66	12,37	407,34 €	
YG4-55	55	220,00	228,00	127	30	15,13	12,85	481,05 €	
YG4-56	56	224,00	232,00	127	30	15,61	13,33	481,05 €	
YG4-57	57	228,00	236,00	127	30	16,10	13,82	481,05 €	
YG4-58	58	232,00	240,00	127	30	16,60	14,31	481,05 €	
YG4-59	59	236,00	244,00	127	30	17,11	14,82	481,05 €	
YG4-60	60	240,00	248,00	127	30	17,62	15,33	481,05 €	
YG4-61	61	244,00	252,00	127	30	18,15	15,86	527,63 €	
YG4-62	62	248,00	256,00	127	30	18,68	16,39	527,63 €	
YG4-63	63	252,00	260,00	127	30	19,22	16,93	527,63 €	
YG4-64	64	256,00	264,00	127	38	19,54	17,33	605,23 €	
YG4-65	65	260,00	268,00	150	38	21,06	17,89	605,23 €	
YG4-66	66	264,00	272,00	150	38	21,62	18,46	659,54 €	
YG4-67	67	268,00	276,00	150	38	22,20	19,03	659,54 €	
YG4-68	68	272,00	280,00	150	38	22,78	19,62	659,54 €	
YG4-69	69	276,00	284,00	150	38	23,37	20,21	706,09 €	
YG4-70	70	280,00	288,00	150	38	23,98	20,81	706,09 €	
YG4-71	71	284,00	292,00	150	38	24,59	21,42	802,33 €	
YG4-72	72	288,00	296,00	150	38	25,21	22,04	802,33 €	
↓ Gears available up to this size ↓									
G4-145	145	580,00	588,00	Dimensions: contact us				On request	

Dimensions in mm

On request

Plastic spur gear



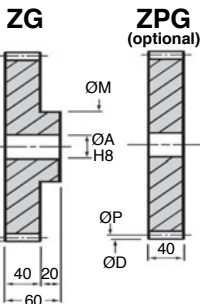
Module 4.0

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	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG4-9	9	40,00	48,00	30	20	21,56 €	
ZG4-10	10	44,00	52,00	34	20	21,56 €	
ZG4-11	11	48,00	56,00	38	25	21,56 €	
ZG4-12	12	48,00	56,00	38	25	21,56 €	
ZG4-13	13	52,00	60,00	38	25	23,31 €	
ZG4-14	14	56,00	64,00	40	25	24,94 €	
ZG4-15	15	60,00	68,00	40	25	28,35 €	
ZG4-16	16	64,00	72,00	50	25	31,45 €	
ZG4-17	17	68,00	76,00	50	25	33,18 €	
ZG4-18	18	72,00	80,00	50	25	34,77 €	
ZG4-19	19	76,00	84,00	50	25	36,14 €	
ZG4-20	20	80,00	88,00	50	25	37,26 €	
ZG4-21	21	84,00	92,00	50	25	39,24 €	
ZG4-22	22	88,00	96,00	50	25	41,32 €	
ZG4-23	23	92,00	100,00	50	25	42,60 €	
ZG4-24	24	96,00	104,00	50	25	50,32 €	
ZG4-25	25	100,00	108,00	80	30	50,32 €	
ZG4-26	26	104,00	112,00	80	30	50,32 €	
ZG4-27	27	108,00	116,00	80	30	61,96 €	
ZG4-28	28	112,00	120,00	80	30	61,96 €	
ZG4-29	29	116,00	124,00	80	30	52,20 €	
ZG4-30	30	120,00	128,00	80	30	61,96 €	

On request

Dimensions in mm

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5 ZG	1 to 5 ZPG
ZG4-31	31	124,00	132,00	80	30	73,56 €	On request
ZG4-32	32	128,00	136,00	80	30	115,64 €	
ZG4-33	33	132,00	140,00	80	30	123,91 €	
ZG4-34	34	136,00	144,00	80	30	132,38 €	
ZG4-35	35	140,00	148,00	80	30	143,58 €	
ZG4-36	36	144,00	152,00	80	30	152,00 €	
ZG4-37	37	148,00	156,00	80	30	161,20 €	
ZG4-38	38	152,00	160,00	80	30	163,65 €	
ZG4-39	39	156,00	164,00	80	30	172,83 €	
ZG4-40	40	160,00	168,00	80	30	178,55 €	
ZG4-41	41	164,00	172,00	80	30	185,31 €	
ZG4-42	42	168,00	176,00	80	30	202,14 €	
ZG4-43	43	172,00	180,00	80	30	205,60 €	
ZG4-44	44	176,00	184,00	80	30	209,09 €	
ZG4-45	45	180,00	188,00	80	30	212,47 €	
ZG4-46	46	184,00	192,00	80	30	214,92 €	
ZG4-47	47	188,00	196,00	80	30	217,39 €	
ZG4-48	48	192,00	200,00	80	30	444,80 €	
ZG4-49	49	196,00	204,00	80	30	476,55 €	
ZG4-50	50	200,00	208,00	80	30	486,92 €	
ZG4-51	51	204,00	212,00	120	30	498,87 €	
ZG4-52	52	208,00	216,00	120	30	510,21 €	
ZG4-53	53	212,00	220,00	120	30	524,87 €	
ZG4-54	54	216,00	224,00	120	30	546,58 €	
ZG4-55	55	220,00	228,00	120	30	593,45 €	
ZG4-56	56	224,00	232,00	120	30	628,44 €	
ZG4-57	57	228,00	236,00	120	30	642,94 €	
ZG4-58	58	232,00	240,00	120	30	651,27 €	
ZG4-59	59	236,00	244,00	120	30	677,86 €	
ZG4-60	60	240,00	248,00	120	30	695,01 €	
ZG4-61	61	244,00	252,00	120	30	795,34 €	
ZG4-62	62	248,00	256,00	120	30	795,34 €	
ZG4-63	63	252,00	260,00	120	30	795,34 €	
ZG4-64	64	256,00	264,00	120	30	795,34 €	
ZG4-65	65	260,00	268,00	150	38	795,34 €	
ZG4-66	66	264,00	272,00	150	38	795,34 €	
ZG4-67	67	268,00	276,00	150	38	946,55 €	
ZG4-68	68	272,00	280,00	150	38	946,55 €	
ZG4-69	69	276,00	284,00	150	38	946,55 €	
ZG4-70	70	280,00	288,00	150	38	946,55 €	
ZG4-71	71	284,00	292,00	150	38	946,55 €	
ZG4-72	72	288,00	296,00	150	38	946,55 €	
↓ Gears available up to this size ↓							
ZG4-145	145	580,00	588,00	Dimensions: contact us			On request

Dimensions in mm

Module 5,0

C45 steel

Economy range

- Economy range of gears

- Pressure angle 20°

- Material:

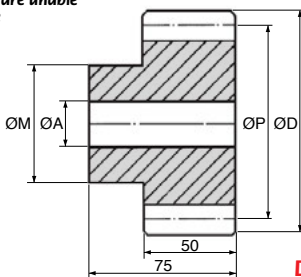
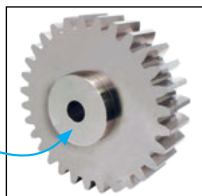
C45 steel UNI7845

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 offer this service**

Supplied pre-bored



DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Exterior	ØM Bore	ØA Pre-bore	Price each 1 to 3
HG5-12/ECO	12	60	70	45	16	19,11 €
HG5-13/ECO	13	65	75	50	16	21,00 €
HG5-14/ECO	14	70	80	55	20	24,52 €
HG5-15/ECO	15	75	85	60	20	25,23 €
HG5-16/ECO	16	80	90	65	20	29,10 €
HG5-17/ECO	17	85	95	70	20	31,05 €
HG5-18/ECO	18	90	100	70	20	35,21 €
HG5-19/ECO	19	95	105	70	20	37,91 €
HG5-20/ECO	20	100	110	80	20	42,90 €
HG5-21/ECO	21	105	115	80	20	44,85 €
HG5-22/ECO	22	110	120	80	25	50,21 €
HG5-23/ECO	23	115	125	90	25	52,65 €
HG5-24/ECO	24	120	130	90	25	59,40 €
HG5-25/ECO	25	125	135	90	25	61,16 €
HG5-26/ECO	26	130	140	100	25	66,03 €
HG5-27/ECO	27	135	145	100	25	69,97 €
HG5-28/ECO	28	140	150	100	25	75,00 €
HG5-29/ECO	29	145	155	100	25	86,88 €
HG5-30/ECO	30	150	160	100	25	97,91 €

Dimensions in mm

Steel 20NCD2

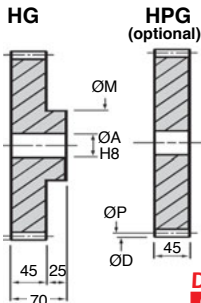
Module 5.0

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

Option

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2 Z10CNF18.09	hardened brass	fibre
Nm	294	1570	80	120
kW	30.80	165	8.30	12.60



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 HG	1 to 3 HPG
HG5-12	12	60,00	70,00	40	20	On request	
HG5-14	14	70,00	80,00	50	25	76,14 €	
HG5-15	15	75,00	85,00	50	25	On request	
HG5-18	18	90,00	100,00	70	30	91,98 €	
HG5-19	19	95,00	105,00	70	30	On request	
HG5-20	20	100,00	110,00	80	30	152,85 €	
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	114,00 €	
HG5-24	24	120,00	130,00	85	30	On request	
HG5-25	25	125,00	135,00	85	30	125,76 €	
HG5-30	30	150,00	160,00	100	30	190,62 €	
HG5-35	35	175,00	185,00	100	30	240,50 €	
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		On request	

Dimensions in mm

On request

Plastic spur gear

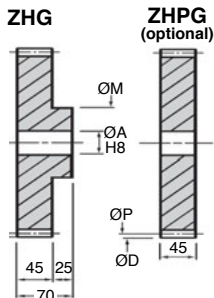


Module 5.0

Machined Delrin



- Machined parts
- Precision class 9
- Pressure angle 20°
- Working temp. -50°C to +80°C



Option

- Different number of teeth: a datasheet is available in PDF on www.hpceurope.com

Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	90



DISCOUNTS

Qty	1+	4+	20+
Disc.	List -5%	On request	On request

Part number	Teeth Z	PCD $\varnothing P$	Outside $\varnothing D$	Boss $\varnothing M$	Bore $\varnothing A$	Price each 1 to 3	
						ZHG	ZHPG
ZHG5-12	12	60,00	70,00	40	20	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	92,30 €	
ZHG5-19	19	95,00	105,00	70	30	On request	
ZHG5-20	20	100,00	110,00	80	30	102,24 €	
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	113,49 €	
ZHG5-24	24	120,00	130,00	85	30	On request	
ZHG5-25	25	125,00	135,00	85	30	126,13 €	
ZHG5-30	30	150,00	160,00	100	30	191,17 €	
ZHG5-35	35	175,00	185,00	100	30	241,28 €	
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		On request	

Dimensions in mm

On request

- Economy range of gears

- Pressure angle 20°

- Material:

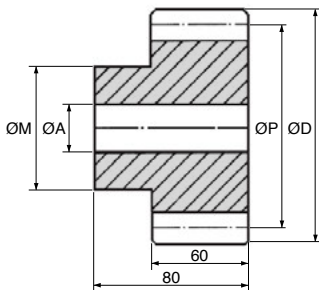
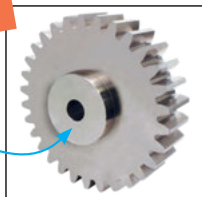
C45 steel UNI7845

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 offer this service**

Economy range

Supplied
pre-bored



DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Exterior	ØM Bore	ØA Pre-bore	Price each 1 to 3
HG6-12/ECO	12	72	84	54	16	38,85 €
HG6-13/ECO	13	78	90	60	16	47,58 €
HG6-15/ECO	15	90	102	70	20	55,23 €
HG6-16/ECO	16	96	108	75	20	58,72 €
HG6-18/ECO	18	108	120	80	20	76,98 €
HG6-20/ECO	20	120	132	90	20	89,25 €
HG6-24/ECO	24	144	156	110	25	131,25 €
HG6-25/ECO	25	150	162	110	25	140,47 €

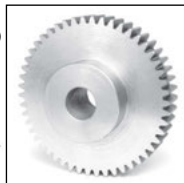
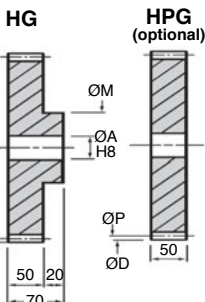
Dimensions in mm

Module 6.0

Steel 20NCD2



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



Option

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format

Torque and power indication				
For 50 teeth at 1000 rpm				
	20NCD2	20NCD2	brass	fibre
	Z10CNF18.09	hardened		
Nm	441	2350	120	180
kW	46	246	12.60	18.80

DISCOUNTS

Qty	1+	4+	20+
Disc.	List -5%	On request	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3	
						HG	HPG
HG6-12	12	72,00	84,00	50	25	On request	
HG6-14	14	84,00	96,00	60	25	83,80 €	
HG6-15	15	90,00	102,00	65	25	89,79 €	
HG6-18	18	108,00	120,00	80	30	107,74 €	
HG6-19	19	114,00	126,00	80	30	113,74 €	
HG6-20	20	120,00	132,00	90	30	119,71 €	
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	137,69 €	
HG6-24	24	144,00	156,00	90	30	On request	
HG6-25	25	150,00	162,00	90	30	149,67 €	
HG6-30	30	180,00	192,00	100	30	214,75 €	
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	309,76 €	
HG6-38	38	228,00	240,00	120	38	On request	
HG6-40	40	240,00	252,00	150	38	354,01 €	
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		On request	

Dimensions in mm

On request

- **Machined parts**
- Precision class 9
- Pressure angle 20°
- Working temp. -50°C to +80°C

Option

- Different number of teeth: a datasheet is available in PDF on www.hpceurope.com

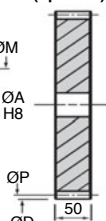
Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	140



ZHG



ZHPG (optional)



DISCOUNTS

Qty	1+	4+	20+
Disc.	List	-5%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3	
						ZHG	ZHPG
ZHG6-12	12	72,00	84,00	50	25	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	96,96 €	
ZHG6-19	19	114,00	126,00	80	30	On request	
ZHG6-20	20	120,00	132,00	90	30	107,74 €	
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	123,93 €	
ZHG6-24	24	144,00	156,00	90	30	On request	
ZHG6-25	25	150,00	162,00	90	30	134,69 €	
ZHG6-30	30	180,00	192,00	100	30	193,27 €	
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	300,64 €	
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		On request	

Dimensions in mm

On request

Module 8.0

Steel 20NCD2



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

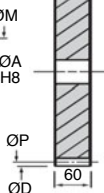
Option

- Alternative number of teeth, a datasheet is available from www.hpceurope.com in PDF format

HG



HPG (optional)



Torque and power indication

For 50 teeth at 1000 rpm

	20NCD2	20NCD2 Z10CNF18.09	hardened	brass	fibre
Nm	918	5360	460	364	
kW	96	560	48	38	

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 HG	Price each 1 to 3 HPG
HG8-12	12	96,00	112,00	50	25	On request	On request
HG8-14	14	112,00	128,00	50	25		
HG8-15	15	120,00	136,00	50	25		
HG8-16	16	128,00	144,00	75	25		
HG8-18	18	144,00	160,00	75	25		
HG8-19	19	152,00	168,00	75	25		
HG8-20	20	160,00	176,00	75	25		
HG8-21	21	168,00	184,00	75	30		
HG8-22	22	176,00	192,00	75	30		
HG8-23	23	184,00	200,00	100	30		
HG8-24	24	192,00	208,00	100	30		
HG8-25	25	200,00	216,00	100	30		
HG8-30	30	240,00	256,00	100	30		
HG8-35	35	280,00	296,00	100	30		
HG8-40	40	320,00	336,00	100	30		
↓ Gears available up to this size						↓	↓
HG8-70	70	560,00	576,00	Dimensions: contact us			

Dimensions in mm

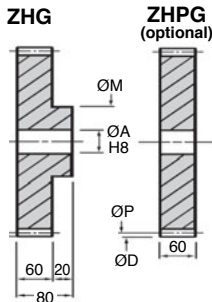


- **Machined parts**
- Precision class 9
- Pressure angle 20°
- Working temp. -50°C to +80°C

Option

- Different number of teeth: a datasheet is available in PDF on www.hpceurope.com

Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	179



Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 ZHG	Price each 1 to 3 ZHPG
ZHG8-12	12	96,00	112,00	50	25	On request	On request
ZHG8-14	14	112,00	128,00	50	25		
ZHG8-15	15	120,00	136,00	50	25		
ZHG8-16	16	128,00	144,00	75	25		
ZHG8-18	18	144,00	160,00	75	25		
ZHG8-20	20	160,00	176,00	75	25		
ZHG8-21	21	168,00	184,00	75	30		
ZHG8-22	22	176,00	192,00	75	30		
ZHG8-23	23	184,00	200,00	100	30		
ZHG8-24	24	192,00	208,00	100	30		
ZHG8-25	25	200,00	216,00	100	30		
ZHG8-30	30	240,00	256,00	100	30		
ZHG8-35	35	280,00	296,00	100	30		
ZHG8-40	40	320,00	336,00	100	30		
↓ Gears available up to this size						↓	↓
ZHG8-70	70	560,00	576,00	Dimensions: contact us			

Dimensions in mm

PARALLEL AXIS HELICAL GEARS

p.308 - 356

PARALLEL AXIS HELICAL GEARS



p.308

CROSSED AXIS HELICAL GEARS

p.308 - 356

CROSSED AXIS HELICAL GEARS



p.319

Parallel axis helical gear



Module

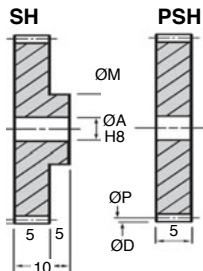
Steel

0.4

- 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 Outside	ØM Boss	ØA Bore	Price each 1 to 5	SH	PSH
SH0.4-10	10	4,62	5,42	5,42	2	17,20 €		
SH0.4-15	15	6,30	7,10	7,10	2	17,32 €		
SH0.4-20	20	8,40	9,20	8,00	3	17,32 €		
SH0.4-25	25	10,50	11,30	8,00	3	17,29 €		
SH0.4-30	30	12,60	13,40	8,00	3	17,50 €		
SH0.4-35	35	14,70	15,50	8,00	3	17,95 €		
SH0.4-40	40	16,80	17,60	12,00	4	18,38 €		
SH0.4-45	45	18,90	19,70	12,00	4	19,04 €		
SH0.4-50	50	21,00	21,80	12,00	4	19,62 €		
SH0.4-55	55	23,10	23,90	12,00	4	20,18 €		
SH0.4-60	60	25,20	26,00	12,00	4	21,06 €		
SH0.4-65	65	27,30	28,10	12,00	4	22,09 €		
SH0.4-70	70	29,40	30,20	12,00	4	22,39 €		
SH0.4-75	75	31,50	32,30	12,00	4	22,67 €		
SH0.4-80	80	33,60	34,40	12,00	5	23,07 €		
SH0.4-86	86	36,12	36,92	12,00	5	23,92 €		
SH0.4-90	90	37,80	38,60	12,00	5	24,80 €		
SH0.4-100	100	42,00	42,80	12,00	5	25,70 €		
SH0.4-120	120	50,40	51,20	12,00	5	26,05 €		
SH0.4-140	140	58,80	59,60	12,00	5	28,37 €		
SH0.4-150	150	63,00	63,80	12,00	5	29,25 €		
SH0.4-180	180	75,60	76,40	15,00	6	41,24 €		
SH0.4-200	200	84,00	84,80	15,00	8	46,32 €		
SH0.4-220	220	92,40	93,20	15,00	8	On request		
SH0.4-250	250	105,00	105,80	20,00	10	60,59 €		
↓ Gears available up to this size ↓								
SH0.4-330	330	Dimensions: contact us				On request		

Dimensions in mm

On request

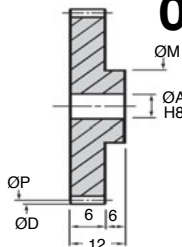
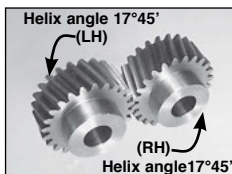
Steel or **machined plastic**

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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH0.5-10	-	10	5,78	6,78	6,78	-	3	-	17,95 €	-
SH0.5-15	ZSH0.5-15	15	7,88	8,88	8,50	7	4	2	18,61 €	9,34 €
SH0.5-20	ZSH0.5-20	20	10,50	11,50	8,50	9	4	3	19,69 €	9,83 €
SH0.5-25	ZSH0.5-25	25	13,13	14,13	10,00	10	4	3	20,97 €	10,46 €
SH0.5-30	ZSH0.5-30	30	15,75	16,75	10,00	12	5	4	21,87 €	10,98 €
SH0.5-35	ZSH0.5-35	35	18,38	19,38	10,00	12	5	4	23,16 €	11,60 €
SH0.5-40	ZSH0.5-40	40	21,00	22,00	10,00	12	5	4	24,38 €	11,76 €
SH0.5-45	ZSH0.5-45	45	23,63	24,63	10,00	12	5	4	25,65 €	12,46 €
SH0.5-50	ZSH0.5-50	50	26,25	27,25	12,00	12	6	4	26,87 €	13,07 €
SH0.5-55	ZSH0.5-55	55	28,88	29,88	12,00	14	6	4	27,84 €	13,70 €
SH0.5-60	ZSH0.5-60	60	31,50	32,50	12,00	14	6	4	28,80 €	15,58 €
SH0.5-65	ZSH0.5-65	65	34,13	35,13	12,00	14	6	4	29,71 €	16,05 €
SH0.5-70	ZSH0.5-70	70	36,75	37,75	12,00	14	6	4	30,17 €	16,22 €
SH0.5-75	ZSH0.5-75	75	39,38	40,38	12,00	14	6	4	30,78 €	16,62 €
SH0.5-80	ZSH0.5-80	80	42,00	43,00	12,00	16	6	5	31,44 €	16,91 €
SH0.5-86	ZSH0.5-86	86	45,15	46,15	12,00	16	6	5	32,11 €	19,64 €
SH0.5-90	ZSH0.5-90	90	47,25	48,25	12,00	16	6	5	32,66 €	19,93 €
SH0.5-100	ZSH0.5-100	100	52,50	53,50	12,00	16	6	5	33,16 €	20,32 €
SH0.5-120	ZSH0.5-120	120	63,00	64,00	12,00	16	6	6	40,08 €	20,55 €
SH0.5-140	ZSH0.5-140	140	73,50	74,50	12,00	16	6	6	47,95 €	20,74 €
SH0.5-150	ZSH0.5-150	150	78,75	79,75	15,00	16	8	8	52,92 €	20,77 €
SH0.5-180	ZSH0.5-180	180	94,50	95,50	15,00	16	8	8	58,92 €	30,29 €
SH0.5-200	-	200	105,00	106,00	20,00	-	10	-	64,34 €	-
SH0.5-220	-	220	115,50	116,50	20,00	-	10	-	70,17 €	-
SH0.5-250	-	250	131,25	132,25	25,00	-	12	-	77,21 €	-
↓	↓	Gears available up to this size							↓	↓
SH0.5-264	ZSH0.5-264	264	Dimensions: contact us						On request	On request

Dimensions in mm

Parallel axis helical gear



Module

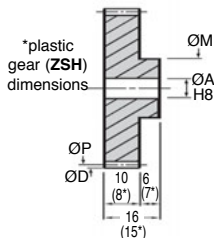
Steel or **machined** plastic

0.7

- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH0.7-10	-	10	7,35	8,75	8,75	-	4	-	20,18 €	-
SH0.7-11	-	11	8,09	9,49	9,49	-	5	-	20,18 €	-
SH0.7-15	ZSH0.7-15	15	11,03	12,43	11,90	12,43	5	3	21,55 €	10,79 €
SH0.7-20	ZSH0.7-20	20	14,70	16,10	12,00	12,00	5	3	23,81 €	11,89 €
SH0.7-22	ZSH0.7-22	22	16,17	17,57	12,00	12,00	5	3	24,27 €	12,19 €
SH0.7-25	ZSH0.7-25	25	18,38	19,78	12,00	14,00	5	4	25,01 €	12,57 €
SH0.7-30	ZSH0.7-30	30	22,05	23,45	12,00	14,00	5	4	25,93 €	12,98 €
SH0.7-34	ZSH0.7-34	34	24,99	26,39	16,00	14,00	6	4	26,27 €	13,19 €
SH0.7-35	ZSH0.7-35	35	25,73	27,13	16,00	14,00	6	4	26,33 €	13,19 €
SH0.7-40	ZSH0.7-40	40	29,40	30,80	16,00	16,00	6	5	26,60 €	14,69 €
SH0.7-45	ZSH0.7-45	45	33,08	34,48	16,00	16,00	6	5	26,87 €	14,87 €
SH0.7-50	ZSH0.7-50	50	36,75	38,15	16,00	16,00	6	5	27,47 €	15,22 €
SH0.7-51	ZSH0.7-51	51	37,49	38,89	16,00	16,00	6	5	27,58 €	15,22 €
SH0.7-55	ZSH0.7-55	55	40,43	41,83	16,00	16,00	6	5	28,10 €	17,66 €
SH0.7-60	ZSH0.7-60	60	44,10	45,50	16,00	16,00	6	5	28,77 €	18,07 €
SH0.7-70	ZSH0.7-70	70	51,45	52,85	16,00	18,00	8	6	29,94 €	22,57 €
SH0.7-75	ZSH0.7-75	75	55,13	56,53	16,00	18,00	8	6	30,57 €	23,13 €
SH0.7-80	ZSH0.7-80	80	58,80	60,20	16,00	18,00	8	6	31,88 €	27,33 €
SH0.7-90	ZSH0.7-90	90	66,15	67,55	16,00	18,00	8	6	33,69 €	28,85 €
SH0.7-100	ZSH0.7-100	100	73,50	74,90	16,00	18,00	8	6	42,84 €	36,72 €
SH0.7-120	ZSH0.7-120	120	88,20	89,60	20,00	18,00	8	8	58,49 €	53,11 €
SH0.7-140	-	140	102,63	104,30	20,00	-	10	-	66,65 €	-
SH0.7-150	-	150	110,25	111,65	25,00	-	10	-	72,27 €	-
SH0.7-175	-	175	128,63	130,03	30,00	-	15	-	83,30 €	-
↓	↓	Gears available up to this size							↓	↓
SH0.7-188	ZSH0.7-188	188	Dimensions: contact us						On request	On request

Dimensions in mm

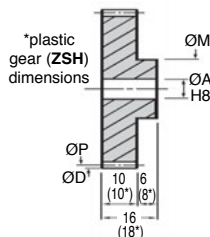
Steel or **machined** plastic

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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH0.8-10	-	10	8,40	10,00	10	-	5	-	20,18 €	-
SH0.8-15	ZSH0.8-15	15	12,60	14,20	12	14,20	5	3	21,55 €	10,79 €
SH0.8-16	ZSH0.8-16	16	13,44	15,04	12	15,04	5	3	22,11 €	11,04 €
SH0.8-19	ZSH0.8-19	19	15,96	17,56	12	14,00	5	4	23,52 €	11,76 €
SH0.8-20	ZSH0.8-20	20	16,80	18,40	12	14,00	5	4	23,81 €	11,89 €
SH0.8-25	ZSH0.8-25	25	21,00	22,60	12	14,00	5	4	25,01 €	12,57 €
SH0.8-28	ZSH0.8-28	28	23,52	25,12	12	14,00	5	4	25,65 €	12,85 €
SH0.8-30	ZSH0.8-30	30	25,20	26,80	16	16,00	6	5	25,93 €	12,98 €
SH0.8-35	ZSH0.8-35	35	29,40	31,00	16	16,00	6	5	26,33 €	14,52 €
SH0.8-40	ZSH0.8-40	40	33,60	35,20	16	16,00	6	5	26,60 €	14,69 €
SH0.8-45	ZSH0.8-45	45	37,80	39,40	16	16,00	6	5	26,87 €	14,87 €
SH0.8-50	ZSH0.8-50	50	42,00	43,60	16	16,00	6	5	27,30 €	17,13 €
SH0.8-55	ZSH0.8-55	55	46,20	47,80	16	18,00	6	6	27,99 €	17,62 €
SH0.8-60	ZSH0.8-60	60	50,40	52,00	16	18,00	8	6	28,46 €	21,51 €
SH0.8-66	ZSH0.8-66	66	55,44	57,04	16	18,00	8	6	29,17 €	21,97 €
SH0.8-70	ZSH0.8-70	70	58,80	60,40	16	18,00	8	6	29,42 €	25,20 €
SH0.8-75	ZSH0.8-75	75	63,00	64,60	16	18,00	8	6	29,94 €	25,65 €
SH0.8-80	ZSH0.8-80	80	67,20	68,80	16	18,00	8	6	31,44 €	26,92 €
SH0.8-90	ZSH0.8-90	90	75,60	77,20	20	22,00	8	6	33,16 €	30,05 €
SH0.8-100	ZSH0.8-100	100	84,00	85,60	20	22,00	8	8	36,89 €	33,52 €
SH0.8-120	ZSH0.8-120	120	100,80	102,40	20	30,00	10	10	48,72 €	54,09 €
SH0.8-140	ZSH0.8-140	140	117,60	119,20	20	30,00	10	10	63,81 €	67,79 €
SH0.8-150	-	150	126,00	127,60	30	-	12	-	73,76 €	-

Gears available up to this size

SH0.8-164	ZSH0.8-164	164	Dimensions: contact us	On request	On request
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Dimensions in mm

Parallel axis helical gear



Module

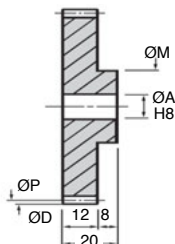
Steel or **machined** plastic

1.0

- 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	4.23	16.74	2.12	1.0
kW	0.44	1.75	0.22	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH1-10	-	10	10,50	12,50	12	-	6	-	17,95 €	-
SH1-12	ZSH1-12	12	12,60	14,60	12	14	6	4	17,95 €	8,99 €
SH1-15	ZSH1-15	15	15,75	17,75	12	15	6	6	18,93 €	9,40 €
SH1-16	ZSH1-16	16	16,80	18,80	15	15	8	6	19,24 €	9,59 €
SH1-20	ZSH1-20	20	21,00	23,00	15	15	8	6	20,97 €	10,46 €
SH1-25	ZSH1-25	25	26,25	28,25	15	18	8	6	22,43 €	11,24 €
SH1-28	ZSH1-28	28	29,40	31,40	15	18	8	6	24,32 €	13,43 €
SH1-29	ZSH1-29	29	30,45	32,45	15	18	8	6	24,94 €	13,75 €
SH1-30	ZSH1-30	30	31,50	33,50	20	18	8	6	25,41 €	14,02 €
SH1-33	ZSH1-33	33	34,65	36,65	20	18	8	6	26,33 €	14,52 €
SH1-35	ZSH1-35	35	36,75	38,75	20	18	8	6	26,87 €	14,87 €
SH1-40	ZSH1-40	40	42,00	44,00	20	18	8	6	29,04 €	18,29 €
SH1-45	ZSH1-45	45	47,25	49,25	20	18	8	6	29,60 €	18,65 €
SH1-50	ZSH1-50	50	52,50	54,50	30	22	10	8	32,95 €	20,74 €
SH1-55	ZSH1-55	55	57,75	59,75	30	22	10	8	35,37 €	22,31 €
SH1-60	ZSH1-60	60	63,00	65,00	30	22	10	8	37,34 €	28,26 €
SH1-65	ZSH1-65	65	68,25	70,25	30	22	10	8	41,34 €	31,25 €
SH1-66	ZSH1-66	66	69,30	71,30	30	22	10	8	42,21 €	31,88 €
SH1-70	ZSH1-70	70	73,50	75,50	30	22	10	8	44,25 €	37,92 €
SH1-80	ZSH1-80	80	84,00	86,00	30	26	10	8	50,03 €	38,49 €
SH1-90	ZSH1-90	90	94,50	96,50	30	26	10	8	53,44 €	53,91 €
SH1-100	ZSH1-100	100	105,00	107,00	30	26	10	10	59,96 €	80,25 €
SH1-120	ZSH1-120	120	126,00	128,00	40	30	12	12	84,89 €	112,19 €
SH1-130	-	130	136,50	138,50	40	-	12	-	91,11 €	-

Gears available up to this size

SH1-550	ZSH1-550	550	Dimensions: contact us	On request	On request
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Dimensions in mm

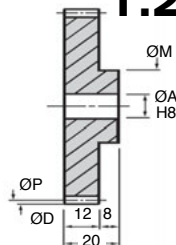
Steel or **machined plastic**

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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH1.25-10	-	10	13,13	15,63	12	-	6	-	23,16 €	-
SH1.25-15	ZSH1.25-15	15	19,69	22,19	12	15	6	5	25,19 €	12,65 €
SH1.25-18	ZSH1.25-18	18	23,63	26,13	15	16	8	6	27,39 €	13,75 €
SH1.25-20	ZSH1.25-20	20	26,25	28,75	15	16	8	6	28,85 €	14,45 €
SH1.25-21	ZSH1.25-21	21	27,56	30,06	15	18	8	6	29,23 €	16,13 €
SH1.25-25	ZSH1.25-25	25	32,81	35,31	15	18	8	6	30,97 €	17,05 €
SH1.25-30	ZSH1.25-30	30	39,38	41,88	25	18	8	6	35,49 €	19,64 €
SH1.25-35	ZSH1.25-35	35	45,94	48,44	25	18	8	6	39,07 €	24,56 €
SH1.25-37	ZSH1.25-37	37	45,56	51,06	25	18	8	6	39,95 €	30,14 €
SH1.25-40	ZSH1.25-40	40	52,50	55,00	30	22	10	8	41,24 €	31,19 €
SH1.25-45	ZSH1.25-45	45	59,06	61,56	30	22	10	8	42,11 €	36,10 €
SH1.25-50	ZSH1.25-50	50	65,63	68,13	30	22	10	8	43,99 €	37,68 €
SH1.25-55	ZSH1.25-55	55	72,19	74,69	30	26	10	10	45,86 €	39,30 €
SH1.25-60	ZSH1.25-60	60	78,75	81,25	30	26	10	10	53,00 €	48,09 €
SH1.25-65	ZSH1.25-65	65	85,31	87,81	30	26	10	10	56,22 €	51,04 €
SH1.25-70	ZSH1.25-70	70	91,88	94,38	30	26	10	10	59,29 €	59,81 €
SH1.25-76	ZSH1.25-76	76	99,75	102,25	30	30	10	10	61,30 €	67,94 €
SH1.25-80	ZSH1.25-80	80	105,00	107,50	30	30	10	10	67,72 €	75,24 €
SH1.25-88	ZSH1.25-88	88	115,50	118,00	30	30	10	10	75,02 €	83,25 €
SH1.25-90	ZSH1.25-90	90	118,13	120,63	40	30	12	12	75,69 €	91,79 €
SH1.25-96	ZSH1.25-96	96	126,00	128,50	30	30	10	12	87,02 €	104,86 €
SH1.25-100	ZSH1.25-100	100	131,25	133,75	40	30	12	12	88,46 €	120,39 €
SH1.25-120	-	120	157,50	160,00	50	-	15	-	104,74 €	-
SH1.25-130	-	130	170,63	173,13	50	-	15	-	116,73 €	-
↓ ↓		Gears available up to this size								↓ ↓
SH1.25-135	ZSH1.25-135	135	Dimensions: contact us						On request	On request

Dimensions in mm

Parallel axis helical gear



Module

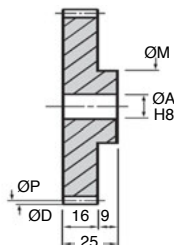
Steel or **machined** plastic

1.5

- 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	12.71	50.29	6.36	3.0
kW	1.34	5.27	0.66	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH1.5-10	ZSH1.5-10	10	15,75	18,75	18	18	8	6	23,21 €	11,65 €
SH1.5-15	ZSH1.5-15	15	23,63	26,63	18	20	8	8	24,07 €	12,07 €
SH1.5-16	ZSH1.5-16	16	25,20	28,20	20	20	10	8	24,65 €	12,32 €
SH1.5-20	ZSH1.5-20	20	31,50	34,50	20	25	10	8	28,43 €	15,71 €
SH1.5-23	ZSH1.5-23	23	36,23	39,23	20	25	10	8	29,54 €	17,56 €
SH1.5-25	ZSH1.5-25	25	39,38	42,38	25	25	12	8	31,44 €	19,78 €
SH1.5-26	ZSH1.5-26	26	40,95	43,95	25	25	12	8	32,93 €	20,97 €
SH1.5-30	ZSH1.5-30	30	47,25	50,25	25	25	12	8	36,60 €	22,99 €
SH1.5-31	ZSH1.5-31	31	48,83	51,83	25	28	12	10	37,10 €	23,39 €
SH1.5-32	ZSH1.5-32	32	50,40	53,40	25	28	12	10	37,88 €	23,90 €
SH1.5-38	ZSH1.5-38	38	59,85	62,85	30	28	15	10	42,75 €	32,86 €
SH1.5-40	ZSH1.5-40	40	63,00	66,00	40	30	15	12	44,70 €	33,83 €
SH1.5-45	ZSH1.5-45	45	70,88	73,88	40	30	15	12	45,64 €	34,49 €
SH1.5-50	ZSH1.5-50	50	78,75	81,75	40	30	15	12	54,58 €	46,78 €
SH1.5-56	ZSH1.5-56	56	88,20	91,20	40	30	15	12	59,10 €	53,69 €
SH1.5-60	ZSH1.5-60	60	94,50	97,50	40	30	15	12	60,59 €	61,10 €
SH1.5-66	ZSH1.5-66	66	103,95	106,95	40	40	15	12	66,41 €	67,04 €
SH1.5-70	ZSH1.5-70	70	110,25	113,25	40	40	15	12	70,38 €	71,08 €
SH1.5-75	ZSH1.5-75	75	118,13	121,13	40	40	15	12	79,21 €	92,75 €
SH1.5-80	ZSH1.5-80	80	126,00	129,00	40	40	15	12	86,70 €	102,64 €
SH1.5-90	ZSH1.5-90	90	141,75	144,75	40	40	15	12	99,83 €	136,88 €
SH1.5-100	ZSH1.5-100	100	157,50	160,50	40	50	15	15	120,25 €	175,77 €
SH1.5-110	-	110	173,25	176,25	40	-	15	-	138,36 €	-
SH1.5-115	-	115	181,13	184,13	40	-	15	-	154,18 €	-
SH1.5-120	-	120	189,00	192,00	40	-	15	-	172,23 €	-
↓ ↓		Gears available up to this size							↓ ↓	
SH1.5-280	ZSH1.5-280	280	dimensions: contact us						On request	On request

Dimensions in mm

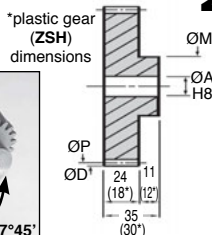
Steel or machined plastic

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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Part number	Z	ØP	ØD	ØM	Bore	ØA	Bore	Price each 1 to 5
Steel	Plastic	Teeth	PCD	Outside	SH	ZSH	SH	ZSH
SH2-10	ZSH2-10	10	21,00	25,00	25	24	12	10
SH2-15	ZSH2-15	15	31,50	35,50	25	25	15	12
SH2-18	ZSH2-18	18	37,80	41,80	30	30	15	12
SH2-20	ZSH2-20	20	42,00	46,00	30	30	15	12
SH2-22	ZSH2-22	22	46,20	50,20	35	30	15	12
SH2-24	ZSH2-24	24	50,40	54,40	35	30	15	12
SH2-25	ZSH2-25	25	52,50	56,50	35	30	15	12
SH2-30	ZSH2-30	30	63,00	67,00	40	30	20	12
SH2-32	ZSH2-32	32	67,20	71,20	40	30	20	12
SH2-35	ZSH2-35	35	73,50	77,50	50	30	20	12
SH2-40	ZSH2-40	40	84,00	88,00	50	35	20	12
SH2-45	ZSH2-45	45	94,50	98,50	50	35	20	15
SH2-48	ZSH2-48	48	100,80	104,80	50	35	20	15
SH2-50	ZSH2-50	50	105,00	109,00	50	35	20	15
SH2-55	ZSH2-55	55	115,50	119,50	50	35	20	15
SH2-56	ZSH2-56	56	117,60	121,60	50	35	20	15
SH2-60	ZSH2-60	60	126,00	130,00	50	35	20	15
SH2-65	ZSH2-65	65	136,50	140,50	50	40	20	15
SH2-70	ZSH2-70	70	147,00	151,00	50	40	20	15
SH2-75	ZSH2-75	75	157,50	161,50	50	50	20	15
SH2-80	-	80	168,00	172,00	50	-	20	-
SH2-90	-	90	189,00	193,00	50	-	20	-
SH2-100	-	100	210,00	214,00	50	-	20	-
SH2-110	-	110	231,00	235,00	50	-	20	-
SH2-120	-	120	252,00	256,00	50	-	20	-

Gears available up to this size

SH2-280	ZSH2-280	280	dimensions: contact us	On request	On request
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Dimensions in mm

Parallel axis helical gear



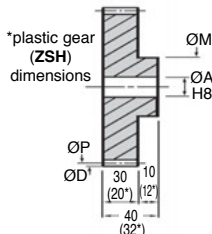
Module 2.5

Steel or **machined plastic**

- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Part number		Z	ØP	ØD	ØM	Boss	ØA	Bore	Price each 1 to 5	
Steel	Plastic	Teeth	PCD	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH2.5-10	ZSH2.5-10	10	26,25	31,25	30	30	12	10	41,54 €	23,17 €
SH2.5-15	ZSH2.5-15	15	39,38	44,38	30	30	15	12	47,22 €	28,04 €
SH2.5-20	ZSH2.5-20	20	52,50	57,50	40	30	20	12	56,23 €	42,54 €
SH2.5-22	ZSH2.5-22	22	57,75	62,75	40	30	20	12	59,65 €	51,07 €
SH2.5-25	ZSH2.5-25	25	65,63	70,63	40	30	20	12	66,35 €	56,88 €
SH2.5-26	ZSH2.5-26	26	68,25	73,25	45	30	20	12	69,72 €	59,77 €
SH2.5-30	ZSH2.5-30	30	78,75	83,75	45	45	20	15	78,03 €	70,90 €
SH2.5-35	ZSH2.5-35	35	91,88	96,88	45	45	20	15	87,70 €	88,52 €
SH2.5-36	ZSH2.5-36	36	94,50	99,50	45	45	20	17	92,43 €	93,23 €
SH2.5-40	ZSH2.5-40	40	105,00	110,00	50	45	20	17	100,19 €	101,06 €
SH2.5-45	ZSH2.5-45	45	118,13	123,13	50	45	20	17	107,89 €	119,71 €
SH2.5-46	ZSH2.5-46	46	120,75	125,75	50	45	20	17	110,35 €	122,51 €
SH2.5-50	ZSH2.5-50	50	131,25	136,25	50	45	20	17	121,95 €	135,33 €
SH2.5-53	ZSH2.5-53	53	139,13	144,13	50	45	20	17	125,87 €	152,48 €
SH2.5-55	ZSH2.5-55	55	144,38	149,38	50	45	20	17	139,60 €	168,76 €
SH2.5-57	ZSH2.5-57	57	149,63	154,63	50	60	20	20	144,65 €	175,12 €
SH2.5-60	ZSH2.5-60	60	157,50	162,50	50	60	20	20	151,36 €	225,32 €
SH2.5-65	ZSH2.5-65	65	170,63	175,63	50	60	20	20	207,31 €	300,00 €
SH2.5-70	ZSH2.5-70	70	183,75	188,75	50	60	20	20	252,43 €	352,27 €
SH2.5-75	ZSH2.5-75	75	196,88	201,88	50	60	20	20	317,93 €	666,22 €
SH2.5-80	-	80	210,00	215,00	50	-	20	-	341,52 €	-
SH2.5-90	-	90	236,25	241,25	50	-	20	-	380,70 €	-
SH2.5-100	-	100	262,50	267,50	50	-	20	-	486,36 €	-
SH2.5-110	-	110	288,75	293,75	50	-	20	-	559,93 €	-

Gears available up to this size

SH2.5-220	ZSH2.5-220	220	Dimensions: contact us	On request	On request
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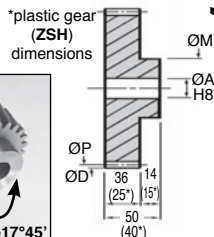
Steel or machined plastic

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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	SH	ZSH	SH	ZSH	SH	ZSH
SH3-10	ZSH3-10	10	31,50	37,50	30	36	15	12	51,36 €	28,43 €
SH3-15	ZSH3-15	15	47,25	53,25	30	40	20	15	57,14 €	35,93 €
SH3-18	ZSH3-18	18	56,70	62,70	40	40	20	15	67,51 €	51,04 €
SH3-20	ZSH3-20	20	63,00	69,00	50	40	25	15	72,20 €	61,99 €
SH3-22	ZSH3-22	22	69,30	75,30	50	40	25	15	77,28 €	66,29 €
SH3-25	ZSH3-25	25	78,75	84,75	50	40	25	15	86,87 €	78,86 €
SH3-27	ZSH3-27	27	85,05	91,05	50	50	25	20	93,99 €	85,30 €
SH3-30	ZSH3-30	30	94,50	100,50	50	50	25	20	104,22 €	105,12 €
SH3-35	ZSH3-35	35	110,25	116,25	60	50	25	20	129,47 €	143,76 €
SH3-40	ZSH3-40	40	126,00	132,00	60	50	25	20	142,95 €	173,09 €
SH3-45	ZSH3-45	45	141,75	147,75	60	60	25	20	211,22 €	256,45 €
SH3-50	ZSH3-50	50	157,50	163,50	60	60	25	20	233,84 €	352,36 €
SH3-54	ZSH3-54	54	170,10	176,10	60	70	25	20	266,62 €	404,82 €
SH3-55	ZSH3-55	55	173,25	179,25	60	70	25	20	279,30 €	409,43 €
SH3-60	ZSH3-60	60	189,00	195,00	60	70	25	20	309,59 €	470,01 €
SH3-61	-	61	192,15	198,15	60	-	25	-	318,02 €	-
SH3-62	-	62	195,30	201,30	60	-	25	-	326,37 €	-
SH3-65	-	65	204,75	210,75	60	-	25	-	344,38 €	-
SH3-70	-	70	220,50	226,50	60	-	25	-	398,34 €	-
SH3-75	-	75	236,25	242,25	60	-	25	-	442,85 €	-
SH3-80	-	80	252,00	258,00	60	-	25	-	494,14 €	-
SH3-90	-	90	283,50	289,50	60	-	25	-	650,32 €	-
SH3-92	-	92	289,80	295,80	60	-	25	-	670,58 €	-
SH3-95	-	95	299,25	305,25	60	-	25	-	743,39 €	-

Gears available up to this size

SH3-180 ZSH3-180 180

Dimensions: contact us

On request

On request

Dimensions in mm

Parallel axis helical gear

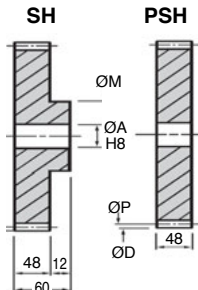
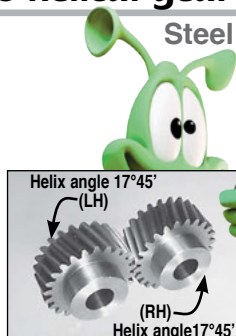


Module 4.0

- 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 Outside	ØM Boss	ØA Bore	Price each 1 to 5
SH4-10	10	42,00	50,00	40	20	70,55 €
SH4-12	12	50,40	58,40	40	20	70,55 €
SH4-14	14	58,80	66,80	40	20	81,48 €
SH4-15	15	63,00	71,00	40	25	92,43 €
SH4-18	18	75,60	83,60	50	25	113,48 €
SH4-20	20	84,00	92,00	50	25	121,95 €
SH4-24	24	100,80	108,80	50	25	139,88 €
SH4-25	25	105,00	113,00	80	30	145,41 €
SH4-28	28	117,60	125,60	80	30	164,02 €
SH4-30	30	126,00	134,00	80	30	176,06 €
SH4-34	34	142,80	150,80	80	30	227,06 €
SH4-35	35	147,00	155,00	80	30	243,94 €
SH4-36	36	151,20	159,20	80	30	260,71 €
SH4-40	40	168,00	176,00	80	30	307,46 €
SH4-45	45	189,00	197,00	80	30	364,30 €
SH4-46	46	193,20	201,20	80	30	368,51 €
SH4-50	50	210,00	218,00	80	30	393,75 €
SH4-55	55	231,00	239,00	80	30	479,88 €
SH4-56	56	235,20	243,20	80	30	508,12 €
SH4-60	60	252,00	260,00	80	30	561,94 €
SH4-65	65	273,00	281,00	80	30	744,02 €
SH4-68	68	285,60	293,60	80	30	820,38 €
SH4-70	70	294,00	302,00	80	30	859,46 €
SH4-72	72	302,40	310,40	80	30	930,60 €

On request

Gears available up to this size

SH4-135 135

Dimensions: contact us

On request On request

Dimensions in mm

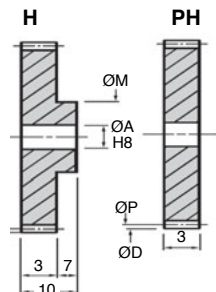
Steel

Module 0.4

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Price each 1 to 5 H PH
H0.4-10	10	5,66	6,46	6,46	2	16,56 €
H0.4-12	12	6,79	7,59	7,59	2	16,56 €
H0.4-15	15	8,49	9,29	9,29	2	16,30 €
H0.4-16	16	9,05	9,85	9,85	2	16,35 €
H0.4-20	20	11,31	12,11	8,00	3	16,66 €
H0.4-25	25	14,14	14,94	8,00	3	17,10 €
H0.4-26	26	14,71	15,51	8,00	3	17,20 €
H0.4-30	30	16,97	17,77	12,00	3	17,90 €
H0.4-35	35	19,80	20,60	12,00	3	18,73 €
H0.4-36	36	20,36	21,16	12,00	3	18,85 €
H0.4-40	40	22,63	23,43	12,00	4	19,60 €
H0.4-46	46	26,02	26,82	12,00	4	21,22 €
H0.4-50	50	28,28	29,08	12,00	4	21,47 €
H0.4-55	55	31,11	31,91	12,00	4	21,76 €
H0.4-56	56	31,68	32,48	12,00	4	21,76 €
H0.4-60	60	33,94	34,74	12,00	4	22,31 €
H0.4-65	65	36,77	37,57	12,00	4	23,43 €
H0.4-68	68	38,47	39,27	12,00	4	23,81 €
H0.4-70	70	39,60	40,40	12,00	4	24,32 €
H0.4-75	75	42,43	43,23	12,00	4	25,47 €
H0.4-80	80	45,25	46,05	12,00	5	25,65 €
H0.4-86	86	48,65	49,45	12,00	5	26,60 €
H0.4-90	90	50,91	51,71	12,00	5	30,07 €
H0.4-100	100	56,57	57,37	12,00	5	32,76 €
H0.4-120	120	67,88	68,68	12,00	5	38,28 €

On request



Gears available up to this size

H0.4-246 246

Dimensions: contact us

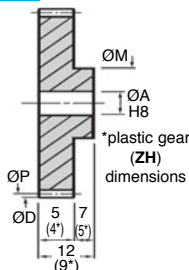
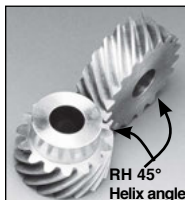
on request

Dimensions in mm

Crossed helical gear crossed axis à 90° Del Ste 90°

Module 0.5 Steel or machined plastic

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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
Nm	0.127	0.705
kW	0.011	0.074

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	H	ZH	H	ZH
H0.5-10	-	10	7,07	8,07	8,07	-	3	-
H0.5-12	-	12	8,49	9,49	8,50	-	3	-
H0.5-14	ZH0.5-14	14	9,90	10,90	8,50	10	4	3
H0.5-15	ZH0.5-15	15	10,61	11,61	8,50	10	4	3
H0.5-20	ZH0.5-20	20	14,14	15,14	10,00	10	5	3
H0.5-25	ZH0.5-25	25	17,68	18,68	10,00	14	5	4
H0.5-26	ZH0.5-26	26	18,38	19,38	10,00	14	5	4
H0.5-30	ZH0.5-30	30	21,21	22,21	10,00	14	5	4
H0.5-35	ZH0.5-35	35	24,75	25,75	10,00	14	5	4
H0.5-36	ZH0.5-36	36	25,46	26,46	10,00	14	5	4
H0.5-40	ZH0.5-40	40	28,28	29,28	10,00	14	5	4
H0.5-46	ZH0.5-46	46	35,53	36,53	10,00	16	5	4
H0.5-50	ZH0.5-50	50	35,36	36,36	12,00	16	6	5
H0.5-56	ZH0.5-56	56	39,60	40,60	12,00	16	6	5
H0.5-60	ZH0.5-60	60	42,43	43,43	12,00	16	6	5
H0.5-64	ZH0.5-64	64	45,25	46,25	12,00	16	6	5
H0.5-70	ZH0.5-70	70	49,50	50,50	12,00	16	6	5
H0.5-75	ZH0.5-75	75	53,03	54,03	12,00	16	6	5
H0.5-80	ZH0.5-80	80	56,57	57,57	12,00	16	6	5
H0.5-90	ZH0.5-90	90	63,64	64,64	12,00	18	6	6
H0.5-100	ZH0.5-100	100	70,71	71,71	16,00	18	6	6
H0.5-120	ZH0.5-120	120	84,85	85,85	20,00	18	8	8
H0.5-140	-	140	98,99	99,99	20,00	-	8	-
H0.5-150	-	150	106,07	107,07	20,00	-	10	-
H0.5-180	-	180	127,26	128,28	20,00	-	10	-
↓ ↓		Gears available up to this size						↓ ↓
H0.5-196	ZH0.5-196	196	Dimensions: contact us				on request	on request

Dimensions in mm

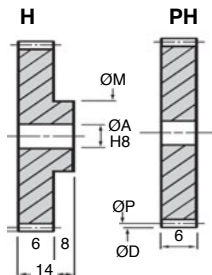
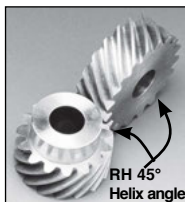
Steel

Module
0.7

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	0.272	1.791
kW	0.028	0.188

DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Price each 1 to 5 H PH
H0.7-9	9	8,91	10,31	10,31	4	19,68 €
H0.7-10	10	9,90	11,30	11,30	4	20,55 €
H0.7-15	15	14,85	16,25	12,00	5	23,13 €
H0.7-16	16	15,84	17,24	12,00	5	23,39 €
H0.7-18	18	17,82	19,22	12,00	5	24,07 €
H0.7-20	20	19,80	21,20	12,00	5	24,58 €
H0.7-25	25	24,75	26,15	12,00	5	25,06 €
H0.7-26	26	25,74	27,14	12,00	5	25,11 €
H0.7-30	30	29,70	31,10	16,00	6	25,50 €
H0.7-35	35	34,65	36,05	16,00	6	26,19 €
H0.7-36	36	35,64	37,04	16,00	6	26,27 €
H0.7-40	40	39,60	41,00	16,00	6	26,92 €
H0.7-46	46	45,54	46,94	16,00	6	28,10 €
H0.7-50	50	49,50	50,90	16,00	6	29,42 €
H0.7-55	55	54,45	55,85	16,00	6	30,44 €
H0.7-56	56	55,44	56,84	16,00	6	30,44 €
H0.7-60	60	59,40	60,80	16,00	6	32,40 €
H0.7-66	66	65,34	66,74	16,00	6	38,45 €
H0.7-70	70	69,30	70,70	20,00	8	40,76 €
H0.7-75	75	74,25	75,65	20,00	8	46,41 €
H0.7-80	80	79,20	80,60	20,00	8	55,72 €
H0.7-90	90	89,10	90,50	20,00	8	58,27 €
H0.7-100	100	98,99	100,39	20,00	10	68,85 €
H0.7-120	120	118,97	120,19	20,00	10	79,27 €
Gears available up to this size						
H0.7-140	140	138,59	139,99	30,00	12	On request

Dimensions in mm

On request

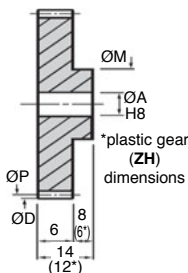
Crossed helical gear crossed axis à 90° Del Ste 90°

Module 0.8 Steel or machined plastic

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Part number		Z Teeth	ØP PCD	ØD Outside	ØM Boss H	ØA Bore H	ØA Bore ZH	Price each 1 to 5	
Steel	Plastic							H	ZH
H0.8-9	-	9	11,31	12,91	9	-	5	19,68 €	-
H0.8-10	-	10	11,31	12,91	9	-	5	20,55 €	-
H0.8-15	ZH0.8-15	15	16,97	18,57	12	14	5	23,13 €	11,36 €
H0.8-16	ZH0.8-16	16	18,10	19,70	12	14	5	23,39 €	11,36 €
H0.8-20	ZH0.8-20	20	22,63	24,23	12	14	5	24,58 €	11,89 €
H0.8-25	ZH0.8-25	25	28,28	29,88	16	16	6	25,06 €	12,46 €
H0.8-26	ZH0.8-26	26	29,42	31,02	16	16	6	25,11 €	12,46 €
H0.8-30	ZH0.8-30	30	33,94	35,44	16	16	6	25,50 €	14,02 €
H0.8-35	ZH0.8-35	35	39,60	41,20	16	16	6	25,99 €	14,30 €
H0.8-36	ZH0.8-36	36	40,73	42,33	16	16	6	26,19 €	14,39 €
H0.8-40	ZH0.8-40	40	45,25	46,85	16	16	6	26,85 €	16,66 €
H0.8-45	ZH0.8-45	45	50,91	52,51	16	16	6	27,64 €	20,65 €
H0.8-50	ZH0.8-50	50	56,57	58,17	16	16	6	29,78 €	21,07 €
H0.8-56	ZH0.8-56	56	63,36	64,96	16	16	6	32,68 €	25,65 €
H0.8-60	ZH0.8-60	60	67,88	69,48	20	18	8	33,91 €	26,00 €
H0.8-66	ZH0.8-66	66	74,67	76,27	20	18	8	36,46 €	27,49 €
H0.8-70	ZH0.8-70	70	79,20	80,80	20	18	8	38,10 €	30,57 €
H0.8-76	ZH0.8-76	76	75,24	76,64	20	18	8	40,76 €	43,15 €
H0.8-80	ZH0.8-80	80	90,51	92,11	20	18	8	46,41 €	47,47 €
H0.8-86	ZH0.8-86	86	97,30	98,90	20	18	8	55,72 €	37,04 €
H0.8-90	ZH0.8-90	90	101,82	103,42	20	20	10	57,50 €	63,09 €
H0.8-100	ZH0.8-100	100	113,14	114,74	20	20	10	70,25 €	63,09 €
H0.8-112	-	112	126,71	128,31	30	-	12	89,23 €	-
H0.8-120	-	120	135,76	137,36	30	-	12	89,23 €	-
↓ ↓		Gears available up to this size						↓ ↓	↓ ↓
H0.8-122	ZH0.8-122	122	Dimensions: contact us					On request	On request

Dimensions in mm

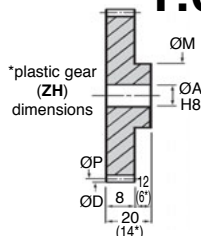
Steel or **machined** plastic

Module
1.0

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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

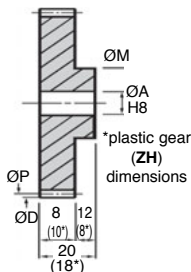
Part number		Z	OP	OD	OM	Bore	OA	Bore	Price each 1 to 5	
Steel	Plastic	Teeth	PCD	Outside	H	ZH	H	ZH	H	ZH
H1-9	ZH1-9	9	14,14	16,14	11	12	6	4	91,70 €	8,72 €
H1-10	ZH1-10	10	14,14	16,14	11	12	6	4	18,00 €	8,99 €
H1-15	ZH1-15	15	21,21	23,21	15	18	6	6	20,33 €	10,19 €
H1-16	ZH1-16	16	22,63	24,63	15	18	6	6	20,45 €	10,19 €
H1-20	ZH1-20	20	28,28	30,28	15	18	6	6	23,76 €	13,07 €
H1-25	ZH1-25	25	35,36	37,36	20	18	8	6	25,90 €	14,30 €
H1-26	ZH1-26	26	36,77	38,77	20	18	8	6	26,22 €	14,45 €
H1-30	ZH1-30	30	42,43	44,43	20	18	8	6	27,99 €	17,66 €
H1-35	ZH1-35	35	49,50	51,50	20	18	8	6	31,43 €	23,70 €
H1-36	ZH1-36	36	50,91	52,91	20	22	8	8	31,86 €	23,99 €
H1-40	ZH1-40	40	56,57	58,57	20	22	8	8	34,29 €	25,92 €
H1-46	ZH1-46	46	65,05	67,05	20	22	8	8	40,11 €	34,39 €
H1-50	ZH1-50	50	70,71	72,71	25	22	10	8	43,07 €	36,95 €
H1-56	ZH1-56	56	79,20	81,20	25	22	10	8	47,65 €	43,21 €
H1-60	ZH1-60	60	84,85	86,85	25	22	10	8	49,39 €	44,83 €
H1-66	ZH1-66	66	93,34	95,34	25	26	10	8	56,35 €	56,88 €
H1-70	ZH1-70	70	98,99	100,99	25	26	10	10	57,14 €	63,52 €
H1-76	ZH1-76	76	107,48	109,48	25	26	10	10	71,48 €	70,09 €
H1-80	ZH1-80	80	113,14	115,14	25	26	10	10	80,82 €	86,29 €
H1-84	ZH1-84	84	118,79	120,79	25	26	10	12	80,82 €	86,29 €
H1-90	ZH1-90	90	127,28	129,28	30	30	12	12	91,70 €	86,29 €
H1-100	ZH1-100	100	141,42	143,42	30	30	12	12	107,58 €	126,20 €
H1-120	-	120	169,71	171,71	40	-	15	-	123,42 €	-
H1-130	-	130	183,85	185,85	50	-	20	-	135,34 €	-
H1-150	-	150	212,13	214,13	50	-	20	-	155,31 €	-

↓ ↓ **Gears available up to this size** ↓ ↓
H1-420 ZH1-420 420 Dimensions: contact us on request on request
 Dimensions in mm

Crossed helical gear crossed axis à 90° Del Ste 90°

Module 1.25 Steel or machined plastic

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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

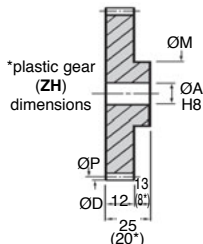
Part number		Z	ØP	ØD	ØM	Boss	ØA	Bore	Price each 1 to 5	
Steel	Plastic	Teeth	PCD	Outside	H	ZH	H	ZH	H	ZH
H1.25-10	ZH1.25-10	10	17,68	20,18	15	15	6	5	23,97 €	12,00 €
H1.25-16	ZH1.25-16	16	28,28	30,78	20	18	8	6	28,43 €	15,71 €
H1.25-17	ZH1.25-17	17	30,05	32,55	20	18	8	6	29,54 €	16,28 €
H1.25-20	ZH1.25-20	20	35,36	37,86	20	18	8	9	32,73 €	18,07 €
H1.25-22	ZH1.25-22	22	38,89	41,39	20	18	8	9	35,22 €	22,13 €
H1.25-25	ZH1.25-25	25	44,19	46,69	20	18	8	9	37,84 €	30,42 €
H1.25-28	ZH1.25-28	28	49,50	52,00	20	22	8	8	39,17 €	29,60 €
H1.25-30	ZH1.25-30	30	53,03	55,53	20	22	8	8	39,78 €	30,05 €
H1.25-32	ZH1.25-32	32	56,57	59,07	20	22	8	8	40,22 €	30,42 €
H1.25-33	ZH1.25-33	33	58,34	60,84	20	22	8	8	40,47 €	34,71 €
H1.25-36	ZH1.25-36	36	63,64	66,14	20	22	8	8	42,26 €	36,25 €
H1.25-40	ZH1.25-40	40	70,71	73,21	25	26	10	10	47,68 €	40,81 €
H1.25-45	ZH1.25-45	45	79,55	82,05	25	26	10	10	52,76 €	47,87 €
H1.25-50	ZH1.25-50	50	88,39	90,89	25	26	10	10	56,79 €	57,34 €
H1.25-56	ZH1.25-56	56	98,99	101,49	25	26	10	10	64,42 €	72,19 €
H1.25-60	ZH1.25-60	60	106,07	108,57	25	30	10	10	71,44 €	79,56 €
H1.25-66	ZH1.25-66	66	116,67	119,17	25	30	10	10	86,80 €	102,17 €
H1.25-70	ZH1.25-70	70	123,74	126,24	25	30	12	10	90,47 €	103,55 €
H1.25-76	-	76	134,35	136,85	25	-	12	-	98,36 €	-
H1.25-80	-	80	141,42	143,92	25	-	12	-	101,36 €	-
H1.25-84	ZH1.25-84	84	148,49	150,99	30	30	15	15	107,18 €	151,45 €
H1.25-90	ZH1.25-90	90	159,10	161,60	30	30	15	15	111,65 €	183,81 €
H1.25-96	-	96	169,71	172,21	30	-	15	-	120,12 €	-
↓ ↓		Gears available up to this size							↓ ↓	↓ ↓
H1.25-100	-	100	176,78	179,28	30	-	15	-	on request	-

Dimensions in mm

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	H	ZH	H	ZH
H1.5-10	ZH1.5-10	10	21.21	24.21	17	20	8	8
H1.5-14	ZH1.5-14	14	29.70	32.70	20	25	10	8
H1.5-15	ZH1.5-15	15	31.82	34.82	20	25	10	8
H1.5-16	ZH1.5-16	16	33.94	36.94	25	25	12	8
H1.5-20	ZH1.5-20	20	42.43	45.43	30	25	15	8
H1.5-22	ZH1.5-22	22	46.67	49.67	30	28	15	10
H1.5-25	ZH1.5-25	25	53.03	56.03	40	28	15	10
H1.5-26	ZH1.5-26	26	55.15	58.15	40	28	15	10
H1.5-28	ZH1.5-28	28	59.40	62.40	40	30	15	12
H1.5-30	ZH1.5-30	30	63.64	66.64	40	30	15	12
H1.5-32	ZH1.5-32	32	67.88	70.88	40	30	15	12
H1.5-35	ZH1.5-35	35	74.25	77.25	40	30	15	12
H1.5-36	ZH1.5-36	36	76.37	79.37	40	36	15	12
H1.5-40	ZH1.5-40	40	84.85	87.85	40	36	15	12
H1.5-46	ZH1.5-46	46	97.58	100.58	40	36	15	12
H1.5-50	ZH1.5-50	50	106.07	109.07	40	48	15	12
H1.5-56	ZH1.5-56	56	118.79	121.79	40	48	15	12
H1.5-60	ZH1.5-60	60	127.28	130.28	40	48	15	12
H1.5-65	ZH1.5-65	65	137.89	140.89	40	48	15	12
H1.5-70	ZH1.5-70	70	148.49	151.49	40	48	15	15
H1.5-80	-	80	169.71	172.71	40	-	15	-
↓ ↓		Gears available up to this size						↓ ↓
H1.5-83	ZH1.5-83	83	Dimensions: contact us				on request	on request

Dimensions in mm

Crossed helical gear crossed axis à 90° Del Ste 90°

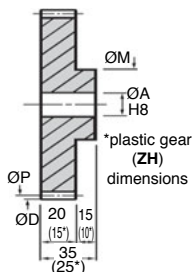
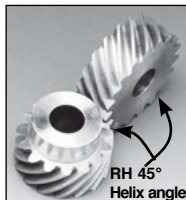
Module 2.0

Steel or **machined plastic**

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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

Part number		Z	OP	OD	OM Boss	OA Bore	Price each 1 to 5	
Steel	Plastic	Teeth	PCD	Outside	H	ZH	H	ZH
H2-10	ZH2-10	10	28,28	32,28	22	25	12	12
H2-15	ZH2-15	15	42,43	46,43	30	30	15	12
H2-16	ZH2-16	16	45,25	49,25	30	30	15	12
H2-20	ZH2-20	20	56,57	59,57	40	35	20	12
H2-25	ZH2-25	25	70,71	74,71	50	35	20	12
H2-26	ZH2-26	26	73,54	77,54	50	45	20	15
H2-30	ZH2-30	30	84,85	88,85	50	45	20	15
H2-35	ZH2-35	35	98,99	102,99	50	45	20	15
H2-36	ZH2-36	36	101,82	105,82	50	45	20	15
H2-40	ZH2-40	40	113,14	117,14	50	45	20	15
H2-45	ZH2-45	45	127,28	131,28	50	60	20	15
H2-46	ZH2-46	46	130,11	134,11	50	60	20	15
H2-50	ZH2-50	50	141,42	145,42	50	60	20	15
H2-55	ZH2-55	55	155,56	159,56	50	60	20	15
H2-60	ZH2-60	60	169,71	173,71	50	60	20	15
H2-65	ZH2-65	65	183,85	187,85	50	60	20	15
H2-70	ZH2-70	70	197,99	201,99	50	60	20	15
H2-76	-	76	214,96	218,96	50	-	20	-
H2-86	-	86	243,24	247,24	50	-	20	-
H2-90	-	90	254,56	258,56	50	-	20	-
H2-96	-	96	271,53	275,53	50	-	20	-
H2-100	-	100	282,84	286,84	50	-	20	-
H2-110	-	110	311,13	315,13	50	-	20	-
H2-120	-	120	339,41	343,41	50	-	20	-

Gears available up to this size

H2-210	ZH2-210	210	Dimensions: contact us	on request	on request
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Dimensions in mm

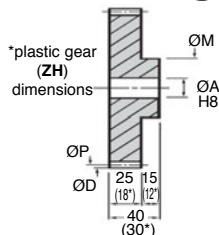
Steel or **machined plastic**

Module 2.5

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	H	ZH	H	ZH	H	ZH
H2.5-10	ZH2.5-10	10	35,36	40,36	28	30	15	12	45,00 €	24,90 €
H2.5-12	ZH2.5-12	12	42,43	47,43	30	30	15	12	48,62 €	30,57 €
H2.5-15	ZH2.5-15	15	53,03	58,03	40	36	20	12	56,82 €	43,01 €
H2.5-17	ZH2.5-17	17	60,10	65,10	40	45	20	12	63,21 €	54,15 €
H2.5-20	ZH2.5-20	20	70,71	75,71	50	45	20	15	71,86 €	61,58 €
H2.5-22	ZH2.5-22	22	77,78	82,78	50	45	20	15	78,84 €	71,52 €
H2.5-25	ZH2.5-25	25	88,39	93,39	50	50	20	15	88,05 €	79,96 €
H2.5-30	ZH2.5-30	30	106,07	111,07	50	50	20	17	102,81 €	114,32 €
H2.5-32	ZH2.5-32	32	113,14	118,14	50	50	20	17	110,10 €	122,18 €
H2.5-35	ZH2.5-35	35	123,74	128,74	50	65	20	17	118,71 €	144,21 €
H2.5-40	ZH2.5-40	40	141,42	146,42	50	65	20	20	141,83 €	186,07 €
H2.5-42	ZH2.5-42	42	148,49	153,49	50	65	20	20	144,19 €	189,17 €
H2.5-45	ZH2.5-45	45	159,10	164,10	50	65	20	20	184,20 €	275,75 €
H2.5-46	ZH2.5-46	46	162,63	167,63	50	65	20	20	184,20 €	320,42 €
H2.5-50	ZH2.5-50	50	176,78	181,78	50	65	20	20	255,04 €	387,22 €
H2.5-55	ZH2.5-55	55	194,45	199,45	50	65	20	20	319,54 €	398,11 €
H2.5-56	-	56	197,99	202,99	50	-	20	-	325,24 €	-
H2.5-60	-	60	212,13	217,13	50	-	20	-	331,46 €	-
H2.5-66	-	66	233,35	238,35	50	-	20	-	390,30 €	-
H2.5-70	-	70	247,49	252,49	50	-	20	-	463,14 €	-
H2.5-76	-	76	268,70	273,70	50	-	20	-	533,27 €	-
H2.5-80	-	80	282,84	287,84	50	-	20	-	580,87 €	-
H2.5-90	-	90	318,20	323,20	50	-	20	-	664,32 €	-
H2.5-96	-	96	339,41	344,41	50	-	20	-	707,45 €	-
H2.5-100	-	100	353,55	358,55	50	-	20	-	755,08 €	-

↓	↓	Gears available up to this size	↓	↓
H2.5-165	ZH2.5-165	165	Dimensions: contact us	on request on request
Dimensions in mm				

Crossed helical gear crossed axis à 90° Del Ste 90°

Module

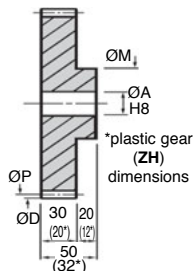
Steel or machined plastic

3.0

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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	-

Steel DISCOUNTS

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

Plastic DISCOUNTS

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	Outside	H	ZH	H	ZH	H	ZH
H3-9	ZH3-9	9	42.43	48.43	34	36	20	15	50.60 €	28.43 €
H3-10	ZH3-10	10	42.43	48.43	34	40	20	15	54.44 €	34.34 €
H3-15	ZH3-15	15	63.64	69.64	50	48	25	15	73.54 €	63.09 €
H3-16	ZH3-16	16	67.88	73.88	50	48	25	15	75.84 €	65.04 €
H3-20	ZH3-20	20	84.85	90.85	60	60	25	20	95.79 €	86.97 €
H3-25	ZH3-25	25	106.07	112.07	60	60	25	20	128.12 €	133.21 €
H3-26	ZH3-26	26	110.31	116.31	60	60	25	20	130.58 €	145.29 €
H3-30	ZH3-30	30	127.28	133.28	60	60	25	20	153.81 €	185.52 €
H3-34	ZH3-34	34	144.25	150.25	60	60	25	20	214.67 €	239.83 €
H3-35	ZH3-35	35	148.49	154.49	60	60	25	20	222.78 €	239.83 €
H3-36	ZH3-36	36	152.74	158.74	60	60	25	20	230.52 €	291.08 €
H3-40	ZH3-40	40	169.71	175.71	60	80	25	20	274.52 €	338.22 €
H3-45	ZH3-45	45	190.92	196.92	60	80	25	20	326.13 €	420.23 €
H3-46	ZH3-46	46	195.16	201.16	60	80	25	20	351.25 €	666.22 €
H3-50	ZH3-50	50	212.13	218.13	60	80	25	20	391.58 €	666.22 €
H3-55	-	55	233.35	239.35	60	-	25	-	447.82 €	-
H3-56	-	56	237.59	243.59	60	-	25	-	470.60 €	-
H3-60	-	60	254.56	260.56	60	-	25	-	562.38 €	-
H3-65	-	65	275.77	281.77	60	-	25	-	638.60 €	-
H3-68	-	68	288.50	294.50	60	-	25	-	669.54 €	-
H3-70	-	70	296.98	302.98	60	-	25	-	689.79 €	-
H3-76	-	76	322.44	328.44	60	-	25	-	754.25 €	-
H3-80	-	80	339.41	345.41	60	-	25	-	815.52 €	-
H3-86	-	86	364.87	370.87	60	-	25	-	921.32 €	-
H3-90	-	90	381.84	387.84	60	-	25	-	986.78 €	-

↓ ↓		Gears available up to this size		↓ ↓	
H3-140	ZH3-140	140	Dimensions: contact us	on request	on request
Dimensions in mm					

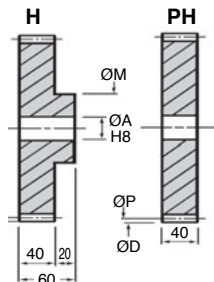
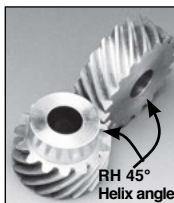
Steel

Module 4.0

- Power transferred through 90°
- Teeth are angled at 45° to the right
- 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 Outside	ØM Boss	ØA Bore	Price each 1 to 5
						H PH
H4-10	10	56,57	64,57	45	25	91,32 €
H4-12	12	67,88	75,88	50	25	102,89 €
H4-15	15	84,85	92,85	50	25	128,12 €
H4-16	16	90,51	98,51	80	30	130,65 €
H4-18	18	101,82	109,82	80	30	144,19 €
H4-20	20	113,14	121,14	80	30	161,74 €
H4-22	22	124,45	132,45	80	30	189,00 €
H4-25	25	141,42	149,42	80	30	248,32 €
H4-26	26	147,08	155,08	80	30	263,28 €
H4-28	28	158,39	166,39	80	30	291,61 €
H4-30	30	169,71	177,71	80	30	335,76 €
H4-32	32	181,02	189,02	80	30	350,95 €
H4-35	35	197,99	205,99	80	30	374,99 €
H4-36	36	203,65	211,65	80	30	384,19 €
H4-38	38	214,96	222,96	80	30	420,87 €
H4-40	40	226,27	234,27	80	30	495,09 €
H4-42	42	237,59	245,59	80	30	540,95 €
H4-45	45	254,56	262,56	80	30	679,88 €
H4-46	46	260,22	268,22	80	30	732,69 €
H4-48	48	271,53	279,53	80	30	781,23 €
H4-50	50	282,84	290,84	80	30	865,30 €
H4-55	55	311,13	319,13	80	30	1 128,50 €
H4-56	56	316,78	324,78	80	30	1 193,95 €
H4-58	58	328,10	336,10	80	30	1 308,45 €
H4-60	60	339,41	347,41	80	30	1 362,92 €

On request

Gears available up to this size

H4-100 100

Dimensions: contact us

on request

Dimensions in mm

Custom-made gears

Standard parts adapted to your needs

Modifications		Steel	Plastic
Bore-size (mm) Free for 20 on more	< Ø25	10,70 €	2,50 €
	Ø25 à Ø50	19,25 €	4,60 €
	Ø50	61,00 €	13,50 €
Keyway (mm)	< 8	8,70 €	2,40 €
	8 to 18	15,40 €	6,40 €
	≥ 20	28,00 €	11,90 €
Tapped hole	< M8	5,40 €	1,80 €
	≥ M8 and more	6,70 €	2,80 €
Pinhole (mm)	< Ø8	2,80 €	1,25 €
	≥ Ø8 and more	4,50 €	1,80 €



**Contact us
for a quote**

- Ask us about **different materials**
Steels, stainless, delrin, nylon, brass, bronze, cast iron, TUFNOL and more...
- Parts can be heat treated on request, prices will depend on process used.

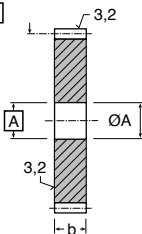
Free guide !


If you require gears manufactured from a drawing

Gear characteristics	
Module	
Pressure angle	
Number of teeth	
Helical angle	
Pitch diameter	
Precision class	9
Entraxe	
Gear	Drawing n°
Material	
Other information	

© Ø204 A

- Gearing width
- General tolerance
- Attachment method
 - Keyway
 - Pin
 - Screw



Custom-made gears

Maximum sizes of made to measure parts

Types		Module / Pitch	Max sizes (mm)
Spur gear		Module 0,25 to module 6	Ø600
Helical gears			
Internal gears		Module 0,25 to module 4	External Ø300
Worms		Module 0,25 to module 4	Longueur 300
		de Ø10 x length 10mm	
		à Ø60 x length 500mm	
Worm wheels		Module 0,25 to module 4	Ø140
Racks		Module 0,25 to module 6	Length 3000
Bevel gears		Module 0,8 to module 6	Ø300
Pulleys	T	Pitch 2,5mm to 20mm	Ø400
	AT	Pitch 2,5mm to 20mm	
	HTD	Pitch 3mm to 8mm	
Chain pinions	Simple	Pitch 4mm to 19,05mm	Ø400
	Double		
	Triple		

*Only given as an indication
Please contact us for more information.*



Heat treatments

Principles

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 in all the surfaces of a material. This process is immediately followed by an oil through hardening. 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.

Steel 34C10 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. The costs associated with using a treatment bath are fixed regardless of the number of parts to be treated. This cost is therefore divided between the number of parts to be treated. The size and dimension of the parts determine how many can be treated at the same time.

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
Trough-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					
34C10 < Ø100	Maintain at 900-930°C for 1h depth of case-hardening 0.2mm	770/790°C	Maintain at 150-200°C in oil bath 1h/25 mm	55-60 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
34C10 > Ø100	Maintain at 900-930°C for 1h depth of case-hardening 0.2mm	900/930°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
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 CuZn40P63 Tufnol Z10 CNF 18,09 (303) Z6 CND 17,12 (316)		
Wormwheels	Bronze CuAl10NiFe4	Delrin	Tufnol	Cast iron
Worms	20NCD2	Delrin	Laiton	
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	60 C40 S/steel Z10 CNF 18,09 (303)	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
Phosphor bronze	
Brass	
Tufnol	Maximum working temperature: 130°C

Material information

Materials	Properties	Tensile strength N/mm ²	Elongation after fracture %	Proof stress 0,2 % N/mm ²	Surface stress Sc	Bending stress Sb
Nylon 66		0,62 - 0,82	20% - 200%	-	500	3900
Delrin (polyoxymethylene)		69	60%	-	500	3900
Tufnlon	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 production 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 in vickers	Degree of hardness in brinell	N/mm ²	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 through-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»	Properties	Verification ASTM	Homo- polymer «Delrin»
Density	D 792	1.42g/cm ³	Izod impact strength	D 256	
Tensile strength	D 638		Unnotched		no break
At -55°C		101 N/mm ²	Notched à -40°C		96 J/m
At +23°C		69 N/mm ²	Notched à +23°C		23 J/m
At +70°C		48 N/mm ²	Tensile impact strength	D 1822	350 kJ/m ²
At +100°C		36 N/mm ²	Deformation under load (14Nmm ² to 50°C)	D 621	0,5%
At +122°C		26 N/mm ²	Hardness (Rockwell)	D 785	M94 - R120
Elongation at break	D 638		Water absorption	D 570	
At -55°C		0,38%	24H immersion		0,25%
At +23°C		75%	Equilibrium 50%RH		0,22%
At +70°C		230%	Equilibrium continuous immersion		0,90%
At +100°C		< 260%	Coefficient of dynamic		
At +122°C		> 260%	Friction against steel - dry	D 1894 -61 T	0,10 - 0,30
Tensile E modulus	D 638	3100 N/mm ²	Water lubricated		0,10 - 0,20
Shear strength	D 732	66 N/mm ²	Oil lubricated		0,05 - 0,10
Flexural modulus	D 790		Against brass		0,15
At -55°C		3650 N/mm ²	Against aluminium		0,15
At +23°C		2620 N/mm ²	Against polyacetal		0,35
At +70°C		1550 N/mm ²	Flammability	UL 94	HB
At +100°C		895 N/mm ²	Thermal conductivity		0,37W/mK
At +122°C		620 N/mm ²	Specific conductivity		1,47kJ/kgK
Flexural fatigue endurance limit	D 671	32 N/mm ²	Maximum continuous use temperature		
Melting point	D 2133	175°C	In air		+90°C
Deflection temperature under flexural load	D 648		In water		+65°C
1,8 N/mm ²		136°C	Maximum intermittent use temperature		
0,5 N/mm ²		172°C	In air		+150°C
Coefficient of linear thermal expansion	D 696		In water		+80°C
From -40°C to +30°C		10,4 1x10 ⁻⁵ °C	Minimum continuous use temperature		-40°C
From -30°C to +60°C		12,2 1x10 ⁻⁵ °C	Dielectric strength short-time (2.3mm sheet)	D149	20kV/mm
From +60°C to +105°C		13,7 1x10 ⁻⁵ °C	Dielectric constant	D150	3,7 10 ² -10 ⁶ Hz
From +105°C to +150°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	D 695				
At 1% de deformation		36 N/mm ²			
At 10% de deformation		124 N/mm ²			

Cross reference for International standards

French afnor standards	DIN Symbols	German werkstoff standards	British standards New	British standards Old	American standards	% 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

Mechanical characteristics

		WERKSTÖFF	Elastic	Tensile	Elongation	Break lateral	
Materials		classification	limit Re (N/mm²)	strength Rm (N/mm²)	Lo = 5do A%	contraction Z%	J Resilience
Case-hardening steel (Ø30mm)	34C10	1.0301	295	490-640	16	45	69
	20NCD2	1.6523	590	780-1080	10	40	41
Improved steel (Ø40mm)	60C40	1.1186	400	630-780	18	35	50
	35NCD6	1.6582	900	1100-1300	10	45	50

Materials (Values for cross-section of small dimensions)	WERKSTÖFF classification	Elastic limit R _{p0.2} to 0,2% and R _{p0.1} to 0,1% (N/mm ²)	Tensile strength Rm (N/mm ²)	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

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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.

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: $\frac{\pi}{6}$ 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.**

$$\text{Nominal distance between centres} = \frac{\text{PCD } \emptyset \text{ gear A} + \text{PCD } \emptyset \text{ gear B}}{2}$$

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 β) has to mesh with a left handed gear with the same angle β .
- 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, the lubrication system and other factors.

Gears with intersecting axes

- **Bevel gears:** These allow 90° angular transmission in the same 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

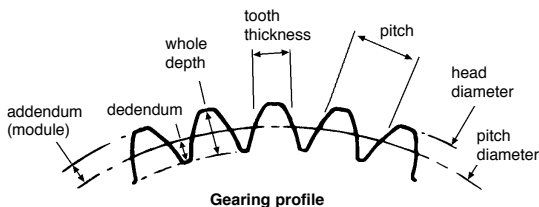
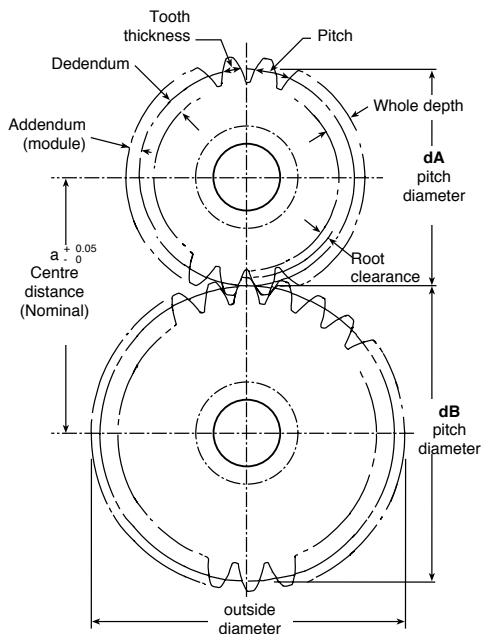
Reduction ratios

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

Cylindrical gears



Spur gears: some 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	$p \div \pi$	mm
Number of teeth	Z	$d \div m$	
Pitch	p	$m \times \pi$	mm
Pitch diameter	d	$Z \times m$	mm
External diameter	D	$(Z + 2) \times m$	mm
Addendum	ha	m	mm
Dedendum module 0,25 to 1,25	hf	$1,40 \times m$	mm
Dedendum module 1,50 to 8	hf	$1,25 \times m$	mm
Teeth height module 0,25 to 1,25	h	$2,40 \times m$	mm
Teeth height module 1,50 to 8	h	$2,25 \times m$	mm
Tooth thickness	e	$\pi \div 2 \times m$	mm

Teeth with correction

- **Gearing correction for gears with 18 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: some formulae

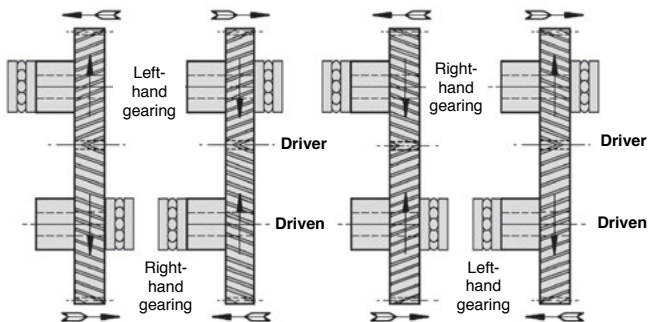
Standard gearing	Symbols	Formulae	Units
Module	m	$p \div \pi$	mm
Pitch	p	$m \times \pi$	mm
PCD	d	$Z \cdot m \times \cos\beta$	mm
Outside diameter	D	$d + (2 \times m)$	mm
Number of teeth	Z	$\frac{d \times \cos\beta}{m}$	
Addendum	ha	m	mm
Lead	Pz	$d \times \pi \div \tan\beta$	mm

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

General direction of force



Helical gears: some formulae



Parallel axis

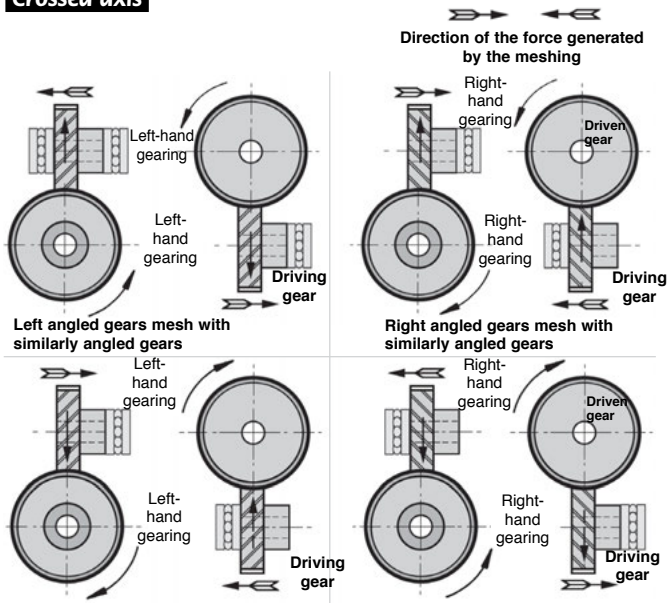


Crossed axis

Crossed helical gears

- The 45° angle of the teeth on crossed helical gears allows movement to be transmitted at 90°
- Right angled gears mesh with similarly angled gears
- Helical gears generate a thrust along the axis of the gear

Crossed axis



Worms and wheels: some formulae



- **Worms and wheels offer 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	$p \div \pi$	mm
Pitch	p	$m \times \pi$	mm
PCD	d	$Z \times m$	mm
Number of teeth	Z	$d \div m$	
Outside diameter	dc	$(Z + 2) \times m$	mm

Worms	Symbols	Formulae	Units
Outside diameter	D	$(2 \times m) + d$	mm
Helix angle tangent	β	$(m \times Z) \div d$	
PCD	d	$\frac{p \times Z}{\pi \tan \beta}$	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.**

$$\text{Nominal distance between centres} = \frac{d(\text{wheel}) + d(\text{worm})}{2}$$

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	1,50	6,60	11,50	23	34	55	105	180	440	840	2800	6600
	35000 kN/mm²												
	60 C40												
	Z10CNF18.09	1,90	8,50	15	28	43	70	135	230	550	1000	3600	8500
	45000 kN/mm²												
	42CD4												
	20NCD2	2,50	12,00	20	39	56	95	180	310	750	1500	4800	12000
	60000 kN/mm²												

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.

- Firstly, 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.

$$\frac{\text{Torque to be transmitted}}{A \times B \times C \times D} < \text{Indicative torque}$$

- 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
Roue et vis sans fin										
M/PM et W/SW (Bronze/steel)	-	-	0,57	1,01	-	-	-	2,82	-	5,87
M/PM et WH/SWH (Bronze/treated steel)	-	-	1	1,86	-	-	-	5,26	-	10,06
ZM/ZPM et ZW/ZSW (Delrin)	-	-	0,14	0,25	-	-	-	0,7	-	1,32
ZM/ZPM et 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 work 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 driving 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 driving gear

Teeth/driven gear	Real torque (Nm)
100	Reference torque x 1,27
50	Reference torque 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 work 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 $C_0 = 0,395 \text{ Nm}$

Variables

- 30 tooth driving gear
- 100 tooth driven gear
- Speed in rotation of driving gear: 500 rpm
- Hours of work per day: 6 h
- So for 30 teeth:

$$\{ [(0,395 \times 0,50) \times 1,27] \times 1,15 \} \times 1,1 = 0,317 \text{ Nm}$$

$\underset{C_0}{0,395} \quad \underset{A}{0,50} \quad \underset{B}{1,27} \quad \underset{C}{1,15} \quad \underset{D}{1,1}$



Spur gear calculations

Pitch factor		Use factor		
Module	«K»	Hours of work per day	Factor X	
			Wear	Resistance
0,5	23,00	24	0,80	0,90
0,6	20,00			
0,75	16,70	12	1,00	1,00
0,9	14,60			
1	13,40	6	1,25	1,10
1,25	11,20			
1,5	9,87	3	1,65	1,20
1,75	8,60			
2	8,00	1	2,20	1,40
2,5	6,50			
3	5,60	0,5	2,90	1,60
4	4,40			
5	3,70			

Speed coefficient										
rpm	3000	2000	1000	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

Spur gear calculations

- 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
$(1) F_U = \frac{X \times Z \times S_c \times L}{5,71 \times K}$	$(2) F_E = \frac{X \times S_b \times \text{Mod} \times L}{242}$

With :

- F_U : Resistance to wear (N)
- F_E : Resistance to force (N)
- X = Use factor x Speed factor
- S_c : Surface tension (material data)
- S_b : 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.

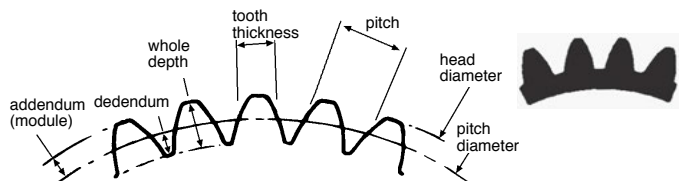
$$(3) C_A = F_U \times R \quad \text{ou} \quad (4) C_A = F_E \times R$$

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.

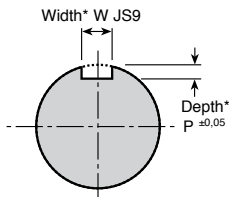
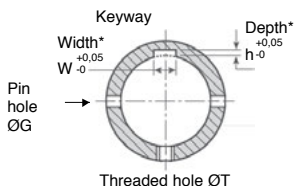
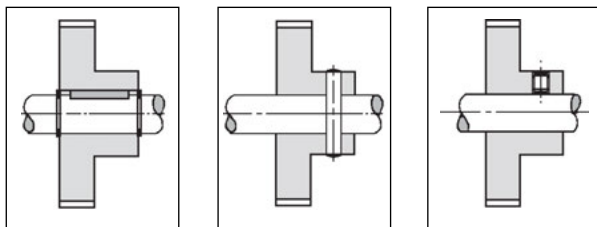
Tooth sizes



*MODULE 1,25 to 6

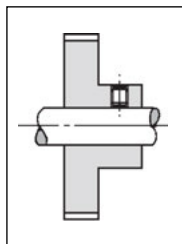
Module (m)	Pitch (p)	Tooth thickness	Addendum	Dedendum	Whole depth
	$\pi \times m$	$\pi \times m$ 2	= m (module)	1,40 x m or 1,25 x m*	2,40 x m or 2,25 x m*
0,20	0,628	0,314	0,20	0,280	0,48
0,25	0,785	0,392	0,25	0,350	0,60
0,30	0,942	0,471	0,30	0,420	0,72
0,40	1,256	0,628	0,40	0,560	0,93
0,50	1,570	0,785	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	1,30	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

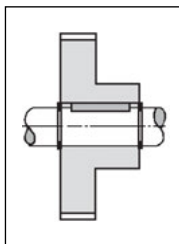


Shaft or bore diameter		Keyway			Pin hole diameter	Tapped hole
From Ø	up to Ø (inclus)	W (mm)	h (mm)	P (mm)	ØG	ØT
Ø4	Ø6	-	-	-	1,50	M3
Ø6	Ø8	2	1,07	1,25	2,00	M3
Ø8	Ø10	3	1,50	1,85	3,00	M3
Ø10	Ø12	4	1,86	2,55	4,00	M4
Ø12	Ø17	5	2,35	3,05	5,00	M5
Ø17	Ø22	6	2,83	3,55	6,00	M6
Ø22	Ø30	8	3,34	4,10	8,00	M8
Ø30	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

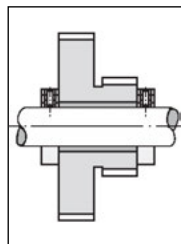
Various fixing systems



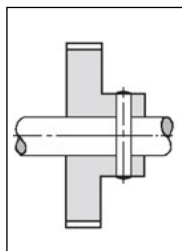
Set screw



Key, circlip

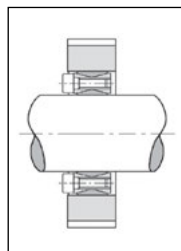


Self-lubricating bushing

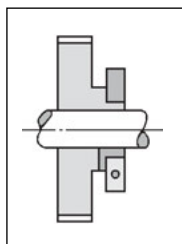


Gear & pinion pinned

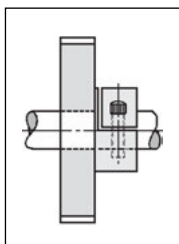
Contact us:
+33 (0)4 37 496 496



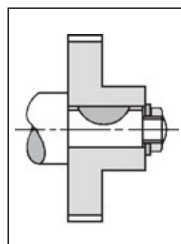
Internal clamp



Gear clamp



Integral gearclamp



Woodruff key and lock nut fixing

BEVEL GEARS



p.358

PRECISION BEVEL GEAR AND WORMS AND WHEELS p.358 - 383

WORM AND WHEEL SET



p.360

WORM AND WHEEL SET



p.372

Ratio
1:1Bevel gears
Pre-treated or stainless steel

- **Quality grade 7f24 DIN3985**
- Pressure angle : 20°
- Materials :
 - Pre-treated 35NCD6 steel 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN3967
- Efficiency approx 88%

Options

- Alternative bores (H7)
- Keyway conforming to DIN6885 (JS9)
- Tapped hole
- Hole for dowel pin
- 20NCD2 case hardened steel and 2:1 ratio on request

Info.

- Torque figures are for 100 rpm and are given as a guide only
- A pair requires 2 gears

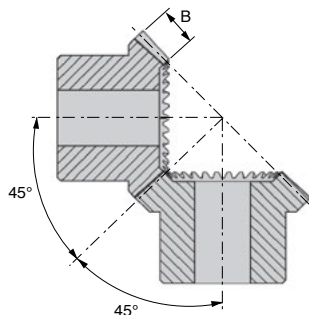
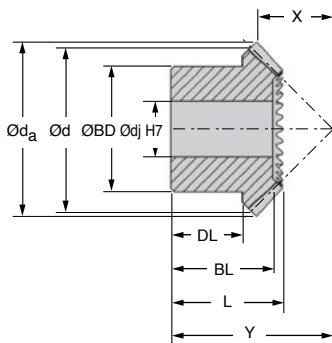


Quality grade 7f24

Part number Steel	Part number Stainless steel	Ratio	Module	No of teeth	Ød	Øda	ØY	ØB
PBG0.6-30	PBG0.6-30S	1:1	0,6	30	18	18,85	20	4,0
PBG0.8-30	PBG0.8-30S	1:1	0,8	30	24	25,13	25	5,5
PBG1.0-30	PBG1.0-30S	1:1	1,0	30	30	31,41	30	7,0
PBG1.5-30	PBG1.5-30S	1:1	1,5	30	45	47,12	40	10,0
PBG2.0-30	PBG2.0-30S	1:1	2,0	30	60	62,83	50	13,5
PBG4.0-17	PBG4.0-17S	1:1	4,0	17	68	73,66	60	16,0

Dimensions in mm

Ratio 1:1



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Ødj (H7)	BL	L	BD	DL	X	Torque (Nm)		Weight (kg)	Price each 1 to 5	
						Steel	Stainless steel		Steel	Stainless steel
6	13,0	14,0	12	9	8,58	0,69	0,41	0,012	48,81 €	70,81 €
8	16,0	17,0	18	10	11,43	1,56	0,94	0,031	58,43 €	84,78 €
8	18,5	20,0	22	12	14,29	2,95	1,77	0,059	67,77 €	98,31 €
10	23,0	25,0	35	14	21,44	8,94	5,36	0,186	80,71 €	117,03 €
12	28,0	30,5	40	15	28,59	20,14	12,08	0,363	100,26 €	145,41 €
25	34,5	39,0	50	20	31,17	24,62	14,77	0,430	133,16 €	193,16 €

Dimensions in mm

PW PSW Module 0,5

Worm and wheel set

Worm available in pre-treated or **stainless steel**

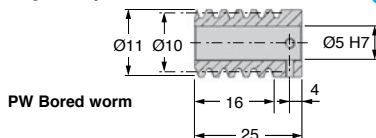
- **Quality grade 7e DIN 58405**
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 58405

Info.

- Torque figures are for 100 rpm and are given as a guide only.



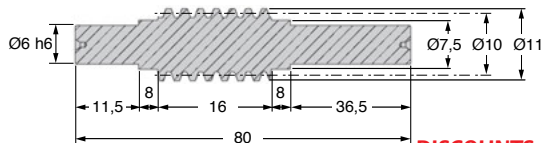
Quality grade 7e



PW Bored worm



2 x M3 to 90°



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		No of starts	Price each 1 to 5	
Steel	Stainless steel		Steel	Stainless steel
Bored worm				
PW0.5-1	PW0.5-1S	1	42,41 €	53,53 €
PW0.5-2	PW0.5-2S	2	44,64 €	53,53 €
PW0.5-3	PW0.5-3S	3	44,64 €	53,53 €
PW0.5-4	PW0.5-4S	4	44,64 €	53,53 €
Shaft worm				
PSW0.5-1	PSW0.5-1S	1	79,03 €	94,89 €
PSW0.5-2	PSW0.5-2S	2	79,03 €	94,89 €
PSW0.5-3	PSW0.5-3S	3	79,03 €	94,89 €
PSW0.5-4	PSW0.5-4S	4	79,03 €	94,89 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module
0,5

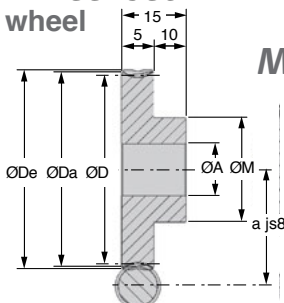
- Quality grade 7e DIN 58405
- Pressure angle: 20°
- Material: Bronze CA104 (CuAl10Ni5Fe4)
- Tooth thickness conforms to DIN 3967

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 to the 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	ØM	Theoretical backlash (mm)		Torque (Nm)	Price each 1 to 5
								Max.	Min.		
PWG0,5-18-1	18	9,50	9,00	10,00	10,50	3	7,50	0,073	- 0,031	1,47	41,05 €
PWG0,5-19-1	19	9,75	9,50	10,50	11,00	4	8,00	0,073	- 0,031	1,55	42,19 €
PWG0,5-20-1	20	10,00	10,00	11,00	11,50	4	8,00	0,073	- 0,031	1,63	43,14 €
PWG0,5-21-1	21	10,25	10,50	11,50	12,00	4	8,00	0,075	- 0,030	1,71	43,73 €
PWG0,5-22-1	22	10,50	11,00	12,00	12,50	4	8,00	0,075	- 0,030	1,80	44,10 €
PWG0,5-23-1	23	10,75	11,50	12,50	13,00	4	8,00	0,075	- 0,030	1,88	40,99 €
PWG0,5-24-1	24	11,00	12,00	13,00	13,50	5	10,00	0,075	- 0,030	1,96	41,75 €
PWG0,5-25-1	25	11,25	12,50	13,50	14,00	5	10,00	0,080	- 0,033	2,04	46,26 €
PWG0,5-26-1	26	11,50	13,00	14,00	14,50	5	10,00	0,080	- 0,033	2,12	46,46 €
PWG0,5-27-1	27	11,75	13,50	14,50	15,00	5	10,00	0,080	- 0,033	2,20	46,68 €
PWG0,5-28-1	28	12,00	14,00	15,00	15,50	5	10,00	0,080	- 0,033	2,28	46,94 €
PWG0,5-29-1	29	12,25	14,50	15,50	16,00	6	12,50	0,080	- 0,033	2,37	47,00 €
PWG0,5-30-1	30	12,50	15,00	16,00	16,50	6	12,50	0,080	- 0,033	2,45	47,12 €
PWG0,5-32-1	32	13,00	16,00	17,00	17,50	6	12,50	0,080	- 0,033	2,61	49,12 €
PWG0,5-35-1	35	13,75	17,50	18,50	19,00	6	12,50	0,080	- 0,033	2,86	51,21 €
PWG0,5-40-1	40	15,00	20,00	21,00	21,50	6	15,00	0,080	- 0,033	3,26	57,31 €
PWG0,5-45-1	45	16,25	22,50	23,50	24,00	6	15,00	0,080	- 0,033	3,67	59,18 €
PWG0,5-48-1	48	17,00	24,00	25,00	25,50	6	15,00	0,080	- 0,033	3,92	61,20 €
PWG0,5-50-1	50	17,50	25,00	26,00	26,50	6	15,00	0,080	- 0,033	4,08	62,06 €
PWG0,5-55-1	55	18,75	27,50	28,50	29,00	6	15,00	0,087	- 0,033	4,53	66,65 €
PWG0,5-60-1	60	20,00	30,00	31,00	31,50	8	20,00	0,087	- 0,033	4,98	73,08 €
PWG0,5-65-1	65	21,25	32,50	33,50	34,00	8	20,00	0,087	- 0,033	5,43	78,66 €
PWG0,5-68-1	68	22,00	34,00	35,00	35,50	8	20,00	0,087	- 0,033	5,70	81,48 €
PWG0,5-70-1	70	22,50	35,00	36,00	36,50	8	20,00	0,087	- 0,033	5,89	84,35 €
PWG0,5-72-1	72	23,00	36,00	37,00	37,50	8	20,00	0,087	- 0,033	6,07	87,16 €
PWG0,5-75-1	75	23,75	37,50	38,50	39,00	8	20,00	0,087	- 0,033	6,35	89,99 €
PWG0,5-78-1	78	24,50	39,00	40,00	40,50	8	30,00	0,087	- 0,033	6,62	92,98 €
PWG0,5-80-1	80	25,00	40,00	41,00	41,50	8	30,00	0,087	- 0,033	6,81	96,03 €

Wheels available with 18 to 80 teeth

Dimensions in mm

PW
PSW

Worm and wheel set

Worm available in pre-treated or **stainless steel**

Module
1,0

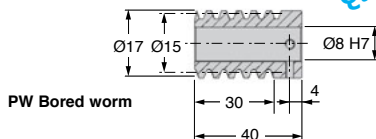
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

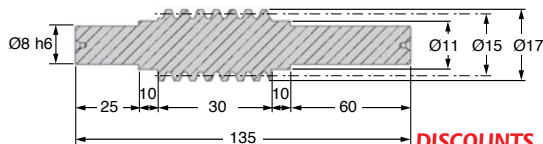
- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



PW Bored worm



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		No of starts	Price each 1 to 5	
Steel	Stainless steel		Steel	Stainless steel
PW1.0-1	PW1.0-1S	1	58,91 €	70,70 €
PW1.0-2	PW1.0-2S	2	58,91 €	70,70 €
PW1.0-3	PW1.0-3S	3	58,91 €	70,70 €
PW1.0-4	PW1.0-4S	4	58,91 €	70,70 €
Shaft worm				
PSW1.0-1	PSW1.0-1S	1	95,29 €	114,37 €
PSW1.0-2	PSW1.0-2S	2	95,29 €	114,37 €
PSW1.0-3	PSW1.0-3S	3	95,29 €	114,37 €
PSW1.0-4	PSW1.0-4S	4	95,29 €	114,37 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

**Module
1,0**

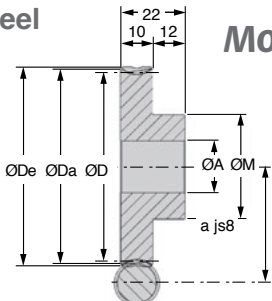
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material: Bronze CA104 (CuAl10Ni5Fe4)
- Tooth thickness conforms to DIN 3967

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 to the 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	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	63,07 €
PWG1.0-16-1	16	15,50	16	18	19	5	12	0,112 - 0,042	2,31	64,59 €
PWG1.0-17-1	17	16,00	17	19	20	5	12	0,112 - 0,042	2,57	65,01 €
PWG1.0-18-1	18	16,50	18	20	21	5	12	0,112 - 0,042	2,85	65,76 €
PWG1.0-19-1	19	17,00	19	21	22	5	12	0,112 - 0,042	3,14	65,98 €
PWG1.0-20-1	20	17,50	20	22	23	5	12	0,112 - 0,042	3,45	66,37 €
PWG1.0-21-1	21	18,00	21	23	24	5	12	0,112 - 0,042	3,76	66,74 €
PWG1.0-22-1	22	18,50	22	24	25	5	12	0,114 - 0,040	4,09	67,43 €
PWG1.0-23-1	23	19,00	23	25	26	5	12	0,114 - 0,040	4,43	68,06 €
PWG1.0-24-1	24	19,50	24	26	27	6	20	0,114 - 0,040	4,79	69,98 €
PWG1.0-25-1	25	20,00	25	27	28	6	20	0,114 - 0,040	5,15	72,95 €
PWG1.0-26-1	26	20,50	26	28	29	6	20	0,114 - 0,040	5,53	73,84 €
PWG1.0-27-1	27	21,00	27	29	30	6	20	0,114 - 0,040	5,92	75,24 €
PWG1.0-28-1	28	21,50	28	30	31	6	20	0,114 - 0,040	6,32	75,75 €
PWG1.0-29-1	29	22,00	29	31	32	8	25	0,114 - 0,040	6,73	77,02 €
PWG1.0-30-1	30	22,50	30	32	33	8	25	0,114 - 0,040	7,15	78,14 €
PWG1.0-35-1	35	25,00	35	37	38	8	25	0,114 - 0,040	9,44	94,45 €
PWG1.0-40-1	40	27,50	40	42	43	10	35	0,114 - 0,040	12,00	110,91 €
PWG1.0-45-1	45	30,00	45	47	48	10	35	0,114 - 0,040	14,84	128,64 €
PWG1.0-48-1	48	31,50	48	50	51	10	35	0,116 - 0,038	16,67	137,63 €
PWG1.0-50-1	50	32,50	50	52	53	10	35	0,116 - 0,038	17,94	148,07 €
PWG1.0-52-1	52	33,50	52	54	55	10	35	0,136 - 0,048	19,25	150,47 €
PWG1.0-55-1	55	35,00	55	57	58	10	35	0,136 - 0,048	21,29	155,66 €
PWG1.0-60-1	60	37,50	60	62	63	10	40	0,136 - 0,048	24,90	163,08 €
PWG1.0-65-1	65	40,00	65	67	68	10	40	0,136 - 0,048	28,76	176,43 €
PWG1.0-70-1	70	42,50	70	72	73	10	40	0,136 - 0,048	32,87	190,44 €
PWG1.0-75-1	75	45,00	75	77	78	10	40	0,136 - 0,048	37,21	199,69 €
PWG1.0-80-1	80	47,50	80	82	83	10	50	0,136 - 0,048	41,80	242,19 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated or **stainless steel**

Module
1,5

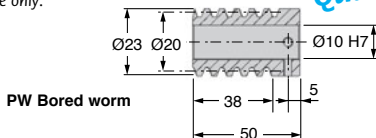
- **Quality grade 7e25 DIN 3974**
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



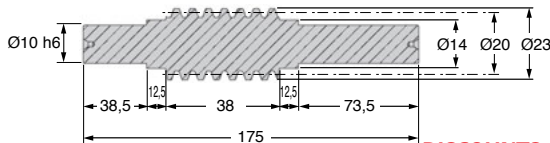
Quality grade 7e25



PW Bored worm



2 x M5 to 90°



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		No of starts	Price each 1 to 5	
Steel	Stainless steel		Steel	Stainless steel
Bored worm				
PW1.5-1	PW1.5-1S	1	65,38 €	85,01 €
PW1.5-2	PW1.5-2S	2	65,38 €	85,01 €
PW1.5-3	PW1.5-3S	3	65,38 €	85,01 €
PW1.5-4	PW1.5-4S	4	65,38 €	85,01 €
Shaft worm				
PSW1.5-1	PSW1.5-1S	1	111,16 €	144,53 €
PSW1.5-2	PSW1.5-2S	2	111,16 €	144,53 €
PSW1.5-3	PSW1.5-3S	3	111,16 €	144,53 €
PSW1.5-4	PSW1.5-4S	4	111,16 €	144,53 €

Dimensions in mm

Worm and wheel set
Bronze wheel

PWG

Module 1,5

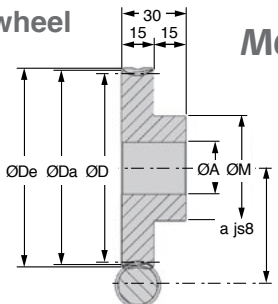
- **Quality grade 7e25 DIN 3974**
- **Pressure angle: 20°**
- **Material: Bronze CA104 (CuAl10Ni5Fe4)**
- **Tooth thickness conforms to DIN 3967**

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 to the 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						Bore		Theoretical backlash (mm)	Torque (Nm)	Price each 1 to 5
		a	ØD	ØDa	ØDe	ØA	ØM	Max. - Min.			
PWG1.5-15-1	15	21,25	22,50	25,50	27,00	6	20	0,114 - 0,040	5,29	89,50 €	
PWG1.5-16-1	16	22,00	24,00	27,00	28,50	6	20	0,114 - 0,040	5,95	92,54 €	
PWG1.5-17-1	17	22,75	25,50	28,50	30,00	6	20	0,114 - 0,040	6,63	94,36 €	
PWG1.5-18-1	18	23,50	27,00	30,00	31,50	6	20	0,114 - 0,040	7,35	95,60 €	
PWG1.5-19-1	19	24,25	28,50	31,50	33,00	6	20	0,114 - 0,040	8,10	97,27 €	
PWG1.5-20-1	20	25,00	30,00	33,00	34,50	6	20	0,114 - 0,040	8,89	98,61 €	
PWG1.5-21-1	21	25,75	31,50	34,50	36,00	8	25	0,114 - 0,040	9,70	100,15 €	
PWG1.5-22-1	22	26,50	33,00	36,00	37,50	8	25	0,114 - 0,040	10,72	101,80 €	
PWG1.5-23-1	23	27,25	34,50	37,50	39,00	8	25	0,114 - 0,040	11,62	103,19 €	
PWG1.5-24-1	24	28,00	36,00	39,00	40,50	8	25	0,114 - 0,040	12,54	105,28 €	
PWG1.5-25-1	25	28,75	37,50	40,50	42,00	8	25	0,114 - 0,040	13,72	108,34 €	
PWG1.5-26-1	26	29,50	39,00	42,00	43,50	8	25	0,114 - 0,040	14,72	110,05 €	
PWG1.5-27-1	27	30,25	40,50	43,50	45,00	8	25	0,117 - 0,038	15,89	112,25 €	
PWG1.5-28-1	28	31,00	42,00	45,00	46,50	8	25	0,117 - 0,038	16,96	113,83 €	
PWG1.5-29-1	29	31,75	43,50	46,50	48,00	10	35	0,117 - 0,038	18,07	116,25 €	
PWG1.5-30-1	30	32,50	45,00	48,00	49,50	10	35	0,117 - 0,038	19,36	119,34 €	
PWG1.5-35-1	35	36,25	52,50	55,50	57,00	10	35	0,137 - 0,048	25,55	148,30 €	
PWG1.5-40-1	40	40,00	60,00	63,00	64,50	12	45	0,137 - 0,048	32,49	181,26 €	
PWG1.5-45-1	45	43,75	67,50	70,50	72,00	12	45	0,137 - 0,048	40,80	226,63 €	
PWG1.5-48-1	48	46,00	72,00	75,00	76,50	12	45	0,137 - 0,048	45,83	254,53 €	
PWG1.5-50-1	50	47,50	75,00	78,00	79,50	14	55	0,137 - 0,048	50,09	273,94 €	
PWG1.5-55-1	55	51,25	82,50	85,50	87,00	14	55	0,139 - 0,045	59,47	325,86 €	
PWG1.5-60-1	60	55,00	90,00	93,00	94,50	14	55	0,139 - 0,045	69,55	382,10 €	
PWG1.5-65-1	65	58,75	97,50	100,50	102,00	14	55	0,139 - 0,045	83,42	436,57 €	
PWG1.5-70-1	70	62,50	105,00	108,00	109,50	16	65	0,139 - 0,045	95,32	500,87 €	
PWG1.5-75-1	75	66,25	112,50	115,50	117,00	16	65	0,139 - 0,045	107,92	569,42 €	
PWG1.5-78-1	78	68,50	117,00	120,00	121,50	16	65	0,139 - 0,045	115,82	612,92 €	
PWG1.5-80-1	80	70,00	120,00	123,00	124,50	16	65	0,139 - 0,045	121,32	642,63 €	

Wheels available with 15 to 80 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated or **stainless steel**

Module 2,0

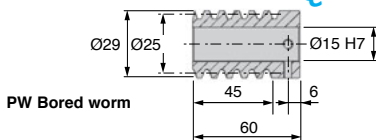
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967



Info.

- Torque figures are for 100 rpm and are given as a guide only.

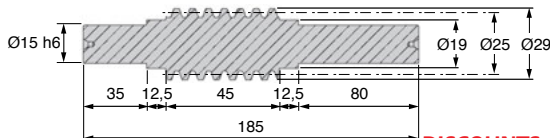
Quality grade 7e25



PW Bored worm



2 x M6 to 90°



PSW Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		No of starts	Price each 1 to 5	
Steel	Stainless steel		Steel	Stainless steel
Bored worm				
PW2.0-1	PW2.0-1S	1	99,63 €	134,53 €
PW2.0-2	PW2.0-2S	2	99,63 €	134,53 €
PW2.0-3	PW2.0-3S	3	99,63 €	134,53 €
PW2.0-4	PW2.0-4S	4	99,63 €	134,53 €
Shaft worm				
PSW2.0-1	PSW2.0-1S	1	151,11 €	204,01 €
PSW2.0-2	PSW2.0-2S	2	151,11 €	204,01 €
PSW2.0-3	PSW2.0-3S	3	151,11 €	204,01 €
PSW2.0-4	PSW2.0-4S	4	151,11 €	204,01 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG
Module
2,0

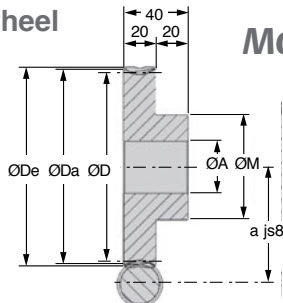
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material: Bronze CA104 (CuAl10Ni5Fe4)
- Tooth thickness conforms to DIN 3967

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 to the 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	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	175,59 €
PWG2,0-16-1	16	28,50	32	36	38	10	25	0,117 - 0,038	12,69	185,62 €
PWG2,0-17-1	17	29,50	34	38	40	10	25	0,117 - 0,038	14,16	189,13 €
PWG2,0-18-1	18	30,50	36	40	42	10	25	0,117 - 0,038	15,69	192,68 €
PWG2,0-19-1	19	31,50	38	42	44	10	25	0,117 - 0,038	17,30	196,32 €
PWG2,0-20-1	20	32,50	40	44	46	10	25	0,117 - 0,038	19,29	199,86 €
PWG2,0-21-1	21	33,50	42	46	48	12	35	0,117 - 0,038	21,06	211,10 €
PWG2,0-22-1	22	34,50	44	48	50	12	35	0,117 - 0,038	23,27	223,76 €
PWG2,0-23-1	23	35,50	46	50	52	12	35	0,117 - 0,038	25,62	230,01 €
PWG2,0-24-1	24	36,50	48	52	54	12	35	0,117 - 0,038	28,09	235,82 €
PWG2,0-25-1	25	37,50	50	54	56	12	35	0,117 - 0,038	30,24	241,98 €
PWG2,0-26-1	26	38,50	52	56	58	12	35	0,137 - 0,048	32,45	247,89 €
PWG2,0-27-1	27	39,50	54	58	60	12	35	0,137 - 0,048	34,73	249,82 €
PWG2,0-28-1	28	40,50	56	60	62	12	35	0,137 - 0,048	37,08	253,86 €
PWG2,0-29-1	29	41,50	58	62	64	14	50	0,137 - 0,048	39,50	257,87 €
PWG2,0-30-1	30	42,50	60	64	66	14	50	0,137 - 0,048	41,98	259,87 €
PWG2,0-32-1	32	44,50	64	68	70	14	50	0,137 - 0,048	47,15	269,86 €
PWG2,0-35-1	35	47,50	70	74	76	14	50	0,137 - 0,048	55,41	316,77 €
PWG2,0-38-1	38	50,50	76	80	82	14	50	0,139 - 0,045	64,25	367,39 €
PWG2,0-40-1	40	52,50	80	84	86	14	50	0,139 - 0,045	70,46	403,23 €
PWG2,0-42-1	42	54,50	84	88	90	14	50	0,139 - 0,045	76,93	440,79 €
PWG2,0-45-1	45	57,50	90	94	96	14	50	0,139 - 0,045	88,46	500,08 €
PWG2,0-48-1	48	60,50	96	100	102	14	50	0,139 - 0,045	99,36	559,87 €
PWG2,0-50-1	50	62,50	100	104	106	16	65	0,139 - 0,045	106,94	603,63 €
PWG2,0-52-1	52	64,50	104	108	110	16	65	0,139 - 0,045	114,76	649,28 €
PWG2,0-55-1	55	67,50	110	114	116	16	65	0,139 - 0,045	126,95	713,80 €
PWG2,0-58-1	58	70,50	116	120	122	16	65	0,139 - 0,045	139,68	788,30 €
PWG2,0-60-1	60	72,50	120	124	126	16	65	0,139 - 0,045	153,04	839,98 €

Wheels available with 15 to 60 teeth

Dimensions in mm

PW PSW Worm and wheel set

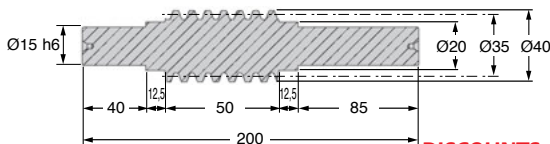
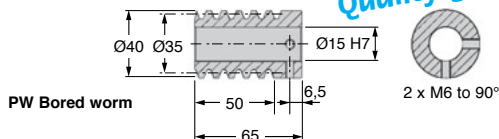
Worm available in pre-treated or **stainless steel**

Module 2,5

- **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.



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		No of starts	Price each 1 to 5	
Steel	Stainless steel		Steel	Stainless steel
Bored worm				
PW2.5-1	PW2.5-1S	1	154,22 €	208,26 €
PW2.5-2	PW2.5-2S	2	154,22 €	208,26 €
PW2.5-3	PW2.5-3S	3	154,22 €	208,26 €
PW2.5-4	PW2.5-4S	4	154,22 €	208,26 €
Shaft worm				
PSW2.5-1	PSW2.5-1S	1	226,72 €	306,10 €
PSW2.5-2	PSW2.5-2S	2	226,72 €	306,10 €
PSW2.5-3	PSW2.5-3S	3	226,72 €	306,10 €
PSW2.5-4	PSW2.5-4S	4	226,72 €	306,10 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module
2,5

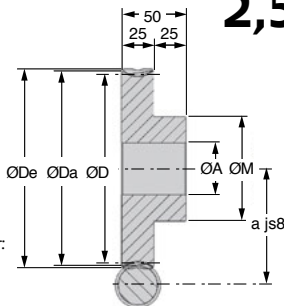
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material: Bronze CA104 (CuAl10Ni5Fe4)
- Tooth thickness conforms to DIN 3967

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 to the 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	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	197,26 €
PWG2.5-16-1	16	37,50	40,00	45,00	47,50	10	30	0,116 - 0,038	25,13	201,57 €
PWG2.5-17-1	17	38,75	42,50	47,50	50,00	10	30	0,116 - 0,038	28,52	205,72 €
PWG2.5-18-1	18	40,00	45,00	50,00	52,50	10	30	0,116 - 0,038	31,61	217,87 €
PWG2.5-19-1	19	41,25	47,50	52,50	55,00	10	30	0,116 - 0,038	34,84	229,97 €
PWG2.5-20-1	20	42,50	50,00	55,00	57,50	10	30	0,116 - 0,038	38,85	242,07 €
PWG2.5-21-1	21	43,75	52,50	57,50	60,00	12	45	0,137 - 0,048	42,42	248,05 €
PWG2.5-22-1	22	45,00	55,00	60,00	62,50	12	45	0,137 - 0,048	46,12	253,00 €
PWG2.5-23-1	23	46,25	57,50	62,50	65,00	12	45	0,137 - 0,048	49,97	262,89 €
PWG2.5-24-1	24	47,50	60,00	65,00	67,50	12	45	0,137 - 0,048	53,95	266,30 €
PWG2.5-25-1	25	48,75	62,50	67,50	70,00	12	45	0,137 - 0,048	58,06	269,13 €
PWG2.5-26-1	26	50,00	65,00	70,00	72,50	12	45	0,137 - 0,048	63,34	272,09 €
PWG2.5-27-1	27	51,25	67,50	72,50	75,00	12	45	0,139 - 0,045	67,80	274,27 €
PWG2.5-28-1	28	52,50	70,00	75,00	77,50	12	45	0,139 - 0,045	72,38	275,93 €
PWG2.5-29-1	29	53,75	72,50	77,50	80,00	14	55	0,139 - 0,045	77,10	278,74 €
PWG2.5-30-1	30	55,00	75,00	80,00	82,50	14	55	0,139 - 0,045	83,97	280,98 €
PWG2.5-32-1	32	57,50	80,00	85,00	87,50	14	55	0,139 - 0,045	94,31	344,07 €
PWG2.5-35-1	35	61,25	87,50	92,50	95,00	14	55	0,139 - 0,045	110,82	382,59 €
PWG2.5-38-1	38	65,00	95,00	100,00	102,50	14	55	0,139 - 0,045	129,53	447,21 €
PWG2.5-40-1	40	67,50	100,00	105,00	107,50	14	55	0,139 - 0,045	142,06	499,82 €
PWG2.5-42-1	42	70,00	105,00	110,00	112,50	16	65	0,139 - 0,045	157,56	559,21 €
PWG2.5-45-1	45	73,75	112,50	117,50	120,00	16	65	0,139 - 0,045	178,40	618,55 €
PWG2.5-48-1	48	77,50	120,00	125,00	127,50	16	65	0,139 - 0,045	200,93	685,17 €

Wheels available with 15 to 48 teeth

Dimensions in mm

PW PSW Worm and wheel set

Worm available in pre-treated or **stainless steel**

Module 3,0

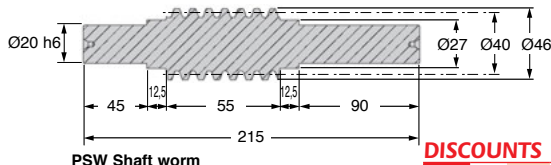
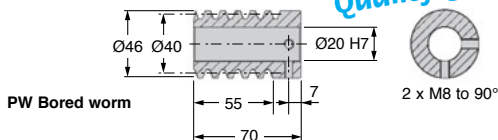
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967



Info.

- Torque figures are for 100 rpm and are given as a guide only.

Quality grade 7e25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		No of starts	Price each 1 to 5	
Steel	Stainless steel		Steel	Stainless steel
Bored worm				
PW3.0-1	PW3.0-1S	1	180,83 €	244,18 €
PW3.0-2	PW3.0-2S	2	180,83 €	244,18 €
PW3.0-3	PW3.0-3S	3	180,83 €	244,18 €
PW3.0-4	PW3.0-4S	4	180,83 €	244,18 €
Shaft worm				
PSW3.0-1	PSW3.0-1S	1	258,76 €	349,38 €
PSW3.0-2	PSW3.0-2S	2	258,76 €	349,38 €
PSW3.0-3	PSW3.0-3S	3	258,76 €	349,38 €
PSW3.0-4	PSW3.0-4S	4	258,76 €	349,38 €

Dimensions in mm

Worm and wheel set

Bronze wheel

PWG

Module
3,0

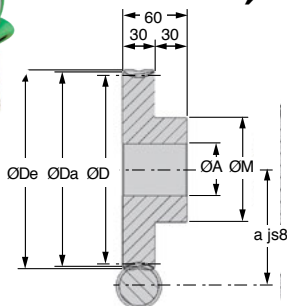
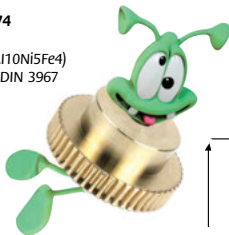
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material: Bronze CA104 (CuAl10Ni5Fe4)
- Tooth thickness conforms to DIN 3967

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 to the 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	208,60 €
PWG3.0-16-1	16	44,00	48	54	57	12	35	0,117 - 0,038	37,27	216,55 €
PWG3.0-17-1	17	45,50	51	57	60	12	35	0,137 - 0,048	41,57	230,10 €
PWG3.0-18-1	18	47,00	54	60	63	12	35	0,137 - 0,048	46,08	243,60 €
PWG3.0-19-1	19	48,50	57	63	66	12	35	0,137 - 0,048	51,73	257,15 €
PWG3.0-20-1	20	50,00	60	66	69	12	35	0,137 - 0,048	56,73	263,59 €
PWG3.0-21-1	21	51,50	63	69	72	14	50	0,139 - 0,045	63,06	284,24 €
PWG3.0-22-1	22	53,00	66	72	75	14	50	0,139 - 0,045	68,57	297,80 €
PWG3.0-23-1	23	54,50	69	75	78	14	50	0,139 - 0,045	74,28	307,62 €
PWG3.0-24-1	24	56,00	72	78	81	14	50	0,139 - 0,045	81,63	312,00 €
PWG3.0-25-1	25	57,50	75	81	84	14	50	0,139 - 0,045	87,85	317,43 €
PWG3.0-26-1	26	59,00	78	84	87	14	50	0,139 - 0,045	94,28	362,56 €
PWG3.0-27-1	27	60,50	81	87	90	14	50	0,139 - 0,045	101,79	388,59 €
PWG3.0-28-1	28	62,00	84	90	93	14	50	0,139 - 0,045	108,68	418,74 €
PWG3.0-29-1	29	63,50	87	93	96	16	65	0,139 - 0,045	116,77	438,25 €
PWG3.0-30-1	30	65,00	90	96	99	16	65	0,139 - 0,045	124,12	456,95 €
PWG3.0-32-1	32	68,00	96	102	105	16	65	0,139 - 0,045	139,41	540,36 €
PWG3.0-35-1	35	72,50	105	111	114	16	65	0,139 - 0,045	163,81	622,15 €
PWG3.0-38-1	38	77,00	114	120	123	16	65	0,139 - 0,045	196,49	701,85 €
PWG3.0-40-1	40	80,00	120	126	129	16	65	0,139 - 0,045	215,50	812,64 €

Wheels available with 15 to 40 teeth

Dimensions in mm

PW_{DL}
PSW_{DL}

Worm and wheel set

Worm: Delrin or Peek

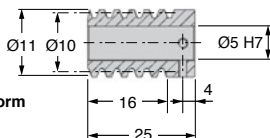
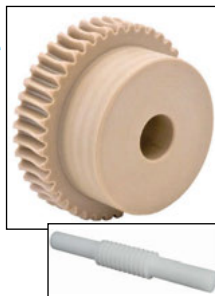
Module
0,5

plastic

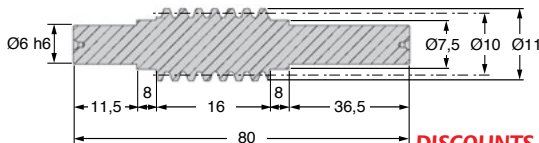
- **Quality grade 8e DIN 58405**
- Pressure angle : 20°
- Material :
Delrin POM (White)
PEEK GF30® (Light brown)
- Tooth thickness conforms to DIN 58405

Info.

- Torque figures are for 100 rpm and are given as a guide only.



PWDL Bored worm



PSWDL Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		N° of starts	Price each 1 to 5	
Delrin	Peek		Delrin	Peek
Bored worm				
PW0.5-1DL	PW0.5-1PK	1	35,70 €	On request
PW0.5-2DL	PW0.5-2PK	2	37,47 €	On request
PW0.5-3DL	PW0.5-3PK	3	39,39 €	On request
PW0.5-4DL	PW0.5-4PK	4	41,73 €	On request
Shaft worm				
PSW0.5-1DL	PSW0.5-1PK	1	63,25 €	On request
PSW0.5-2DL	PSW0.5-2PK	2	66,12 €	On request
PSW0.5-3DL	PSW0.5-3PK	3	68,98 €	On request
PSW0.5-4DL	PSW0.5-4PK	4	71,89 €	On request

Dimensions in mm

Worm and wheel set

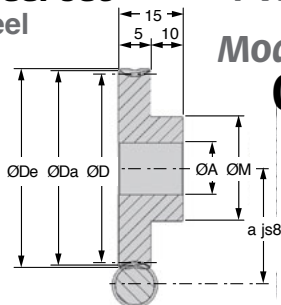
PWG_{DL}

Module 0,5

- **Quality grade 8e DIN 3974**
- **Pressure angle: 20°**
- **Material: Delrin POM (White)**
- **Tooth thickness conforms to DIN 3967**

Options

- Also available in PEEK GF30® (Light brown), ask for details.
- 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 to the part number: e.g. worm PW0.5-4DL, wheel PWG0.5-15-4DL

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	N° of teeth	a	ØD	ØDa	ØDe	Bore ØA	Theoretical backlash (mm)		Torque (Nm)	Price each 1 to 5
							ØM	Max. - Min.		
PWG0.5-18-1DL	18	9,50	9,00	10,00	10,50	3	7,50	0,073 - 0,031	0,74	21,09 €
PWG0.5-19-1DL	19	9,75	9,50	10,50	11,00	4	8,00	0,073 - 0,031	0,78	21,69 €
PWG0.5-20-1DL	20	10,00	10,00	11,00	11,50	4	8,00	0,073 - 0,031	0,82	22,13 €
PWG0.5-21-1DL	21	10,25	10,50	11,50	12,00	4	8,00	0,075 - 0,030	0,86	22,45 €
PWG0.5-22-1DL	22	10,50	11,00	12,00	12,50	4	8,00	0,075 - 0,030	0,90	22,67 €
PWG0.5-23-1DL	23	10,75	11,50	12,50	13,00	4	8,00	0,075 - 0,030	0,94	21,09 €
PWG0.5-24-1DL	24	11,00	12,00	13,00	13,50	5	10,00	0,075 - 0,030	0,98	21,43 €
PWG0.5-25-1DL	25	11,25	12,50	13,50	14,00	5	10,00	0,080 - 0,033	1,02	23,75 €
PWG0.5-26-1DL	26	11,50	13,00	14,00	14,50	5	10,00	0,080 - 0,033	1,06	23,87 €
PWG0.5-27-1DL	27	11,75	13,50	14,50	15,00	5	10,00	0,080 - 0,033	1,10	24,01 €
PWG0.5-28-1DL	28	12,00	14,00	15,00	15,50	5	10,00	0,080 - 0,033	1,14	24,10 €
PWG0.5-29-1DL	29	12,25	14,50	15,50	16,00	6	12,50	0,080 - 0,033	1,19	24,13 €
PWG0.5-30-1DL	30	12,50	15,00	16,00	16,50	6	12,50	0,080 - 0,033	1,23	24,18 €
PWG0.5-32-1DL	32	13,00	16,00	17,00	17,50	6	12,50	0,080 - 0,033	1,31	25,22 €
PWG0.5-35-1DL	35	13,75	17,50	18,50	19,00	6	12,50	0,080 - 0,033	1,43	26,35 €
PWG0.5-40-1DL	40	15,00	20,00	21,00	21,50	6	15,00	0,080 - 0,033	1,63	29,43 €
PWG0.5-45-1DL	45	16,25	22,50	23,50	24,00	6	15,00	0,080 - 0,033	1,84	30,39 €
PWG0.5-48-1DL	48	17,00	24,00	25,00	25,50	6	15,00	0,080 - 0,033	1,96	31,45 €
PWG0.5-50-1DL	50	17,50	25,00	26,00	26,50	6	15,00	0,080 - 0,033	2,04	31,87 €
PWG0.5-55-1DL	55	18,75	27,50	28,50	29,00	6	15,00	0,087 - 0,033	2,27	34,27 €
PWG0.5-60-1DL	60	20,00	30,00	31,00	31,50	8	20,00	0,087 - 0,033	2,49	37,56 €
PWG0.5-65-1DL	65	21,25	32,50	33,50	34,00	8	20,00	0,087 - 0,033	2,72	40,42 €
PWG0.5-68-1DL	68	22,00	34,00	35,00	35,50	8	20,00	0,087 - 0,033	2,85	41,91 €
PWG0.5-70-1DL	70	22,50	35,00	36,00	36,50	8	20,00	0,087 - 0,033	2,95	43,35 €
PWG0.5-72-1DL	72	23,00	36,00	37,00	37,50	8	20,00	0,087 - 0,033	3,04	44,79 €
PWG0.5-75-1DL	75	23,75	37,50	38,50	39,00	8	20,00	0,087 - 0,033	3,18	46,26 €
PWG0.5-78-1DL	78	24,50	39,00	40,00	40,50	8	30,00	0,087 - 0,033	3,31	47,79 €
PWG0.5-80-1DL	80	25,00	40,00	41,00	41,50	8	30,00	0,087 - 0,033	3,41	49,36 €

Wheels available with 18 to 80 teeth

Dimensions in mm

PW_{DL}
PSW_{DL}

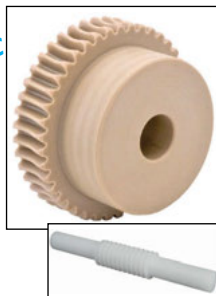
Worm and wheel set

Worm: Delrin or Peek

Module
1,0

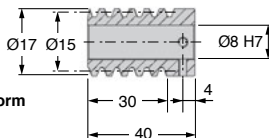
- Quality grade 8e25 DIN 3974
- Pressure angle : 20°
- Material :
Delrin POM (White)
PEEK GF30® (Light brown)
- Tooth thickness conforms to DIN 3967

Plastic

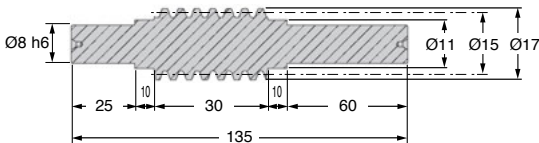


Info.

- Torque figures are for 100 rpm and are given as a guide only.



PWDL Bored worm



PSWDL Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		N° of starts	Price each 1 to 5	
Delrin	Peek		Delrin	Peek
Bored worm				
PW1.0-1DL	PW1.0-1PK	1	47,12 €	On request
PW1.0-2DL	PW1.0-2PK	2	49,68 €	On request
PW1.0-3DL	PW1.0-3PK	3	54,82 €	On request
PW1.0-4DL	PW1.0-4PK	4	56,47 €	On request
Shaft worm				
PSW1.0-1DL	PSW1.0-1PK	1	76,23 €	On request
PSW1.0-2DL	PSW1.0-2PK	2	78,16 €	On request
PSW1.0-3DL	PSW1.0-3PK	3	83,69 €	On request
PSW1.0-4DL	PSW1.0-4PK	4	84,90 €	On request

Dimensions in mm

Worm and wheel set

Delrin wheel

PWGDL

Module
1,0

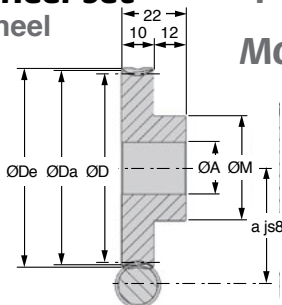
- Quality grade 8e DIN 3974
- Pressure angle: 20°
- Material: Delrin POM (White)
- Tooth thickness conforms to DIN 3967

Options

- Also available in PEEK GF30® (Light brown), ask for details
- 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 to the part number:
e.g. worm PW1,0-4DL, wheel PWG1,0-15-4DL



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	N° of teeth	a	ØD	ØDa	ØDe	Bore ØA	ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG1,0-15-1DL	15	15,00	15	17	18	5	12	0,112 - 0,042	1,03	32,41 €
PWG1,0-16-1DL	16	15,50	16	18	19	5	12	0,112 - 0,042	1,16	33,18 €
PWG1,0-17-1DL	17	16,00	17	19	20	5	12	0,112 - 0,042	1,29	33,40 €
PWG1,0-18-1DL	18	16,50	18	20	21	5	12	0,112 - 0,042	1,43	33,81 €
PWG1,0-19-1DL	19	17,00	19	21	22	5	12	0,112 - 0,042	1,57	33,90 €
PWG1,0-20-1DL	20	17,50	20	22	23	5	12	0,112 - 0,042	1,73	34,09 €
PWG1,0-21-1DL	21	18,00	21	23	24	5	12	0,112 - 0,042	1,88	34,29 €
PWG1,0-22-1DL	22	18,50	22	24	25	5	12	0,114 - 0,040	2,05	34,66 €
PWG1,0-23-1DL	23	19,00	23	25	26	5	12	0,114 - 0,040	2,22	34,99 €
PWG1,0-24-1DL	24	19,50	24	26	27	6	20	0,114 - 0,040	2,40	35,98 €
PWG1,0-25-1DL	25	20,00	25	27	28	6	20	0,114 - 0,040	2,58	37,50 €
PWG1,0-26-1DL	26	20,50	26	28	29	6	20	0,114 - 0,040	2,77	37,96 €
PWG1,0-27-1DL	27	21,00	27	29	30	6	20	0,114 - 0,040	2,96	38,68 €
PWG1,0-28-1DL	28	21,50	28	30	31	6	20	0,114 - 0,040	3,16	38,94 €
PWG1,0-29-1DL	29	22,00	29	31	32	8	25	0,114 - 0,040	3,37	39,61 €
PWG1,0-30-1DL	30	22,50	30	32	33	8	25	0,114 - 0,040	3,58	40,17 €
PWG1,0-35-1DL	35	25,00	35	37	38	8	25	0,114 - 0,040	4,72	48,55 €
PWG1,0-40-1DL	40	27,50	40	42	43	10	35	0,114 - 0,040	6,00	56,99 €
PWG1,0-45-1DL	45	30,00	45	47	48	10	35	0,114 - 0,040	7,42	66,12 €
PWG1,0-48-1DL	48	31,50	48	50	51	10	35	0,116 - 0,038	8,34	70,75 €
PWG1,0-50-1DL	50	32,50	50	52	53	10	35	0,116 - 0,038	8,97	76,16 €
PWG1,0-52-1DL	52	33,50	52	54	55	10	35	0,136 - 0,048	9,63	77,35 €
PWG1,0-55-1DL	55	35,00	55	57	58	10	35	0,136 - 0,048	10,65	80,01 €
PWG1,0-60-1DL	60	37,50	60	62	63	10	40	0,136 - 0,048	12,45	83,84 €
PWG1,0-65-1DL	65	40,00	65	67	68	10	40	0,136 - 0,048	14,38	90,72 €
PWG1,0-70-1DL	70	42,50	70	72	73	10	40	0,136 - 0,048	16,44	97,93 €
PWG1,0-75-1DL	75	45,00	75	77	78	10	40	0,136 - 0,048	18,61	102,67 €
PWG1,0-80-1DL	80	47,50	80	82	83	10	50	0,136 - 0,048	20,90	124,55 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PW_{DL}
PSW_{DL}

Worm and wheel set

Worm: Delrin or Peek

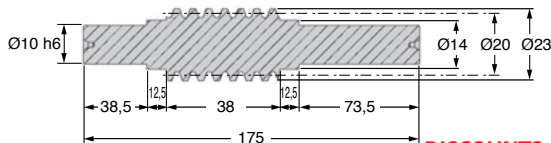
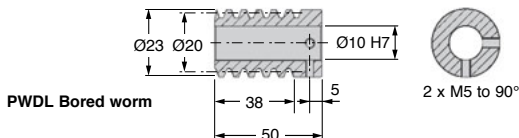
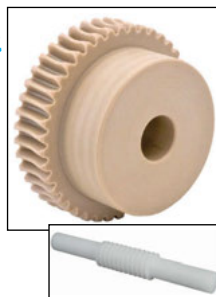
Module
1,5

plastic

- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		N° of starts	Price each 1 to 5	
Delrin	Peek		Delrin	Peek
Bored worm				
PW1.5-1DL	PW1.5-1PK	1	52,33 €	On request
PW1.5-2DL	PW1.5-2PK	2	59,92 €	On request
PW1.5-3DL	PW1.5-3PK	3	62,68 €	On request
PW1.5-4DL	PW1.5-4PK	4	66,98 €	On request
Shaft worm				
PSW1.5-1DL	PSW1.5-1PK	1	88,93 €	On request
PSW1.5-2DL	PSW1.5-2PK	2	93,80 €	On request
PSW1.5-3DL	PSW1.5-3PK	3	96,57 €	On request
PSW1.5-4DL	PSW1.5-4PK	4	97,70 €	On request

Dimensions in mm

Worm and wheel set

Delrin wheel

PWGDL

Module
1,5

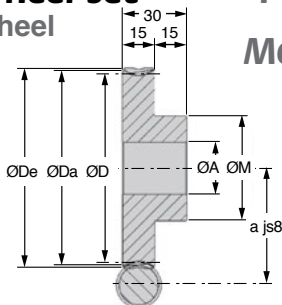
- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material: Delrin POM (White)
- Tooth thickness conforms to DIN 3967

Options

- Also available in PEEK GF30® (Light brown), ask for details
- 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 to the part number:
e.g. worm PW1,5-4DL, wheel PWG1,5-15-4DL



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	N° of teeth	a	ØD	ØDa	ØDe	Bore ØA	Theoretical backlash (mm)		Torque (Nm)	Price each 1 to 5
							ØM	Max. - Min.		
PWG1.5-15-1DL	15	21,25	22,50	25,50	27,00	6	20	0,114 - 0,040	2,65	46,02 €
PWG1.5-16-1DL	16	22,00	24,00	27,00	28,50	6	20	0,114 - 0,040	2,98	47,54 €
PWG1.5-17-1DL	17	22,75	25,50	28,50	30,00	6	20	0,114 - 0,040	3,32	48,52 €
PWG1.5-18-1DL	18	23,50	27,00	30,00	31,50	6	20	0,114 - 0,040	3,68	49,14 €
PWG1.5-19-1DL	19	24,25	28,50	31,50	33,00	6	20	0,114 - 0,040	4,05	50,04 €
PWG1.5-20-1DL	20	25,00	30,00	33,00	34,50	6	20	0,114 - 0,040	4,45	50,68 €
PWG1.5-21-1DL	21	25,75	31,50	34,50	36,00	8	25	0,114 - 0,040	4,85	51,49 €
PWG1.5-22-1DL	22	26,50	33,00	36,00	37,50	8	25	0,114 - 0,040	5,36	52,33 €
PWG1.5-23-1DL	23	27,25	34,50	37,50	39,00	8	25	0,114 - 0,040	5,81	53,04 €
PWG1.5-24-1DL	24	28,00	36,00	39,00	40,50	8	25	0,114 - 0,040	6,27	54,09 €
PWG1.5-25-1DL	25	28,75	37,50	40,50	42,00	8	25	0,114 - 0,040	6,86	55,68 €
PWG1.5-26-1DL	26	29,50	39,00	42,00	43,50	8	25	0,114 - 0,040	7,36	56,58 €
PWG1.5-27-1DL	27	30,25	40,50	43,50	45,00	8	25	0,117 - 0,038	7,95	57,69 €
PWG1.5-28-1DL	28	31,00	42,00	45,00	46,50	8	25	0,117 - 0,038	8,48	58,53 €
PWG1.5-29-1DL	29	31,75	43,50	46,50	48,00	10	35	0,117 - 0,038	9,04	59,79 €
PWG1.5-30-1DL	30	32,50	45,00	48,00	49,50	10	35	0,117 - 0,038	9,68	61,33 €
PWG1.5-35-1DL	35	36,25	52,50	55,50	57,00	10	35	0,137 - 0,048	12,78	76,26 €
PWG1.5-40-1DL	40	40,00	60,00	63,00	64,50	12	45	0,137 - 0,048	16,25	93,21 €
PWG1.5-45-1DL	45	43,75	67,50	70,50	72,00	12	45	0,137 - 0,048	20,40	116,55 €
PWG1.5-48-1DL	48	46,00	72,00	75,00	76,50	12	45	0,137 - 0,048	22,92	130,87 €
PWG1.5-50-1DL	50	47,50	75,00	78,00	79,50	14	55	0,137 - 0,048	25,05	140,82 €
PWG1.5-55-1DL	55	51,25	82,50	85,50	87,00	14	55	0,139 - 0,045	29,74	167,57 €
PWG1.5-60-1DL	60	55,00	90,00	93,00	94,50	14	55	0,139 - 0,045	34,78	196,46 €
PWG1.5-65-1DL	65	58,75	97,50	100,50	102,00	14	55	0,139 - 0,045	41,71	224,48 €
PWG1.5-70-1DL	70	62,50	105,00	108,00	109,50	16	65	0,139 - 0,045	47,66	257,60 €
PWG1.5-75-1DL	75	66,25	112,50	115,50	117,00	16	65	0,139 - 0,045	53,96	292,82 €
PWG1.5-78-1DL	78	68,50	117,00	120,00	121,50	16	65	0,139 - 0,045	57,91	315,19 €
PWG1.5-80-1DL	80	70,00	120,00	123,00	124,50	16	65	0,139 - 0,045	60,66	330,44 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PW_{DL}
PSW_{DL}

Worm and wheel set

Worm: Delrin or Peek

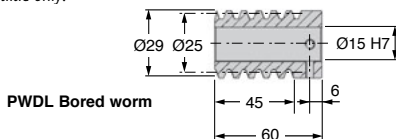
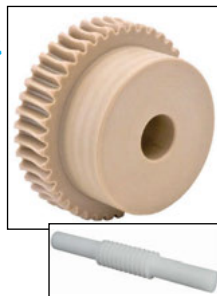
Module
2,0

- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Tooth thickness conforms to DIN 3967

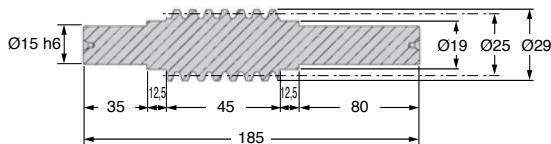
Info.

- Torque figures are for 100 rpm and are given as a guide only.

plastic



PWDL Bored worm



PSWDL Shaft worm

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		N° of starts	Price each 1 to 5	
Delrin	Peek		Delrin	Peek
Bored worm				
PW2.0-1DL	PW2.0-1PK	1	79,71 €	On request
PW2.0-2DL	PW2.0-2PK	2	85,61 €	On request
PW2.0-3DL	PW2.0-3PK	3	91,98 €	On request
PW2.0-4DL	PW2.0-4PK	4	101,12 €	On request
Shaft worm				
PSW2.0-1DL	PSW2.0-1PK	1	120,89 €	On request
PSW2.0-2DL	PSW2.0-2PK	2	128,32 €	On request
PSW2.0-3DL	PSW2.0-3PK	3	131,09 €	On request
PSW2.0-4DL	PSW2.0-4PK	4	139,02 €	On request

Dimensions in mm

Worm and wheel set

Delrin wheel

PWGDL

Module
2,0

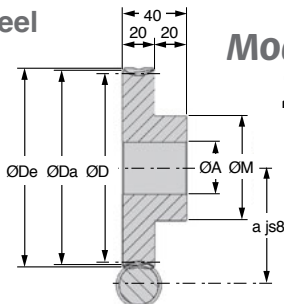
- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material: Delrin POM (White)
- Tooth thickness conforms to DIN 3967

Options

- Also available in PEEK GF30® (Light brown), ask for details
- 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 to the part number:
e.g. worm PW2,0-4DL, wheel PWG2,0-15-4DL



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	N° of teeth	a	ϕD	ϕD_a	ϕD_e	Bore ϕA	ϕM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG2.0-15-1DL	15	27,50	30	34	36	10	25	0,114 - 0,040	5,65	90,26 €
PWG2.0-16-1DL	16	28,50	32	36	38	10	25	0,114 - 0,040	6,35	95,44 €
PWG2.0-17-1DL	17	29,50	34	38	40	10	25	0,114 - 0,040	7,08	97,25 €
PWG2.0-18-1DL	18	30,50	36	40	42	10	25	0,117 - 0,038	7,85	99,07 €
PWG2.0-19-1DL	19	31,50	38	42	44	10	25	0,117 - 0,038	8,65	100,93 €
PWG2.0-20-1DL	20	32,50	40	44	46	10	25	0,117 - 0,038	9,65	102,77 €
PWG2.0-21-1DL	21	33,50	42	46	48	12	35	0,117 - 0,038	10,53	108,57 €
PWG2.0-22-1DL	22	34,50	44	48	50	12	35	0,117 - 0,038	11,64	115,07 €
PWG2.0-23-1DL	23	35,50	46	50	52	12	35	0,117 - 0,038	12,81	118,24 €
PWG2.0-24-1DL	24	36,50	48	52	54	12	35	0,117 - 0,038	14,05	121,26 €
PWG2.0-25-1DL	25	37,50	50	54	56	12	35	0,117 - 0,038	15,12	124,44 €
PWG2.0-26-1DL	26	38,50	52	56	58	12	35	0,137 - 0,048	16,23	127,46 €
PWG2.0-27-1DL	27	39,50	54	58	60	12	35	0,137 - 0,048	17,37	128,46 €
PWG2.0-28-1DL	28	40,50	56	60	62	12	35	0,137 - 0,048	18,54	130,52 €
PWG2.0-29-1DL	29	41,50	58	62	64	14	50	0,137 - 0,048	19,75	132,58 €
PWG2.0-30-1DL	30	42,50	60	64	66	14	50	0,137 - 0,048	20,99	133,62 €
PWG2.0-32-1DL	32	44,50	64	68	70	14	50	0,137 - 0,048	23,58	162,88 €
PWG2.0-35-1DL	35	47,50	70	74	76	14	50	0,137 - 0,048	27,71	188,94 €
PWG2.0-38-1DL	38	50,50	76	80	82	14	50	0,139 - 0,045	32,13	188,94 €
PWG2.0-40-1DL	40	52,50	80	84	86	14	50	0,139 - 0,045	35,23	207,33 €
PWG2.0-42-1DL	42	54,50	84	88	90	14	50	0,139 - 0,045	38,47	226,66 €
PWG2.0-45-1DL	45	57,50	90	94	96	14	50	0,139 - 0,045	44,23	257,15 €
PWG2.0-48-1DL	48	60,50	96	100	102	14	50	0,139 - 0,045	49,68	287,89 €
PWG2.0-50-1DL	50	62,50	100	104	106	16	65	0,139 - 0,045	53,47	310,44 €
PWG2.0-52-1DL	52	64,50	104	108	110	16	65	0,139 - 0,045	57,38	333,88 €
PWG2.0-55-1DL	55	67,50	110	114	116	16	65	0,139 - 0,045	63,48	367,06 €
PWG2.0-58-1DL	58	70,50	116	120	122	16	65	0,139 - 0,045	69,84	405,39 €
PWG2.0-60-1DL	60	72,50	120	124	126	16	65	0,139 - 0,045	76,52	431,94 €

Wheels available with 15 to 60 teeth

Dimensions in mm

PW_{DL}
PSW_{DL}

Worm and wheel set

Worm: Delrin or Peek

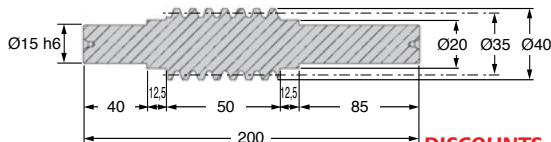
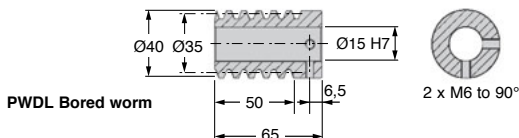
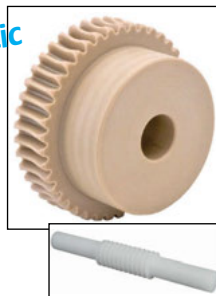
Module
2,5

- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.

plastic



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		N° of starts	Price each 1 to 5	
Delrin	Peek		Delrin	Peek
Bored worm				
PW2.5-1DL	PW2.5-1PK	1	123,39 €	On request
PW2.5-2DL	PW2.5-2PK	2	131,67 €	On request
PW2.5-3DL	PW2.5-3PK	3	136,98 €	On request
PW2.5-4DL	PW2.5-4PK	4	141,67 €	On request
Shaft worm				
PSW2.5-1DL	PSW2.5-1PK	1	181,38 €	On request
PSW2.5-2DL	PSW2.5-2PK	2	188,82 €	On request
PSW2.5-3DL	PSW2.5-3PK	3	196,39 €	On request
PSW2.5-4DL	PSW2.5-4PK	4	205,40 €	On request

Dimensions in mm

Worm and wheel set

Delrin wheel

PWGDL

Module
2,5

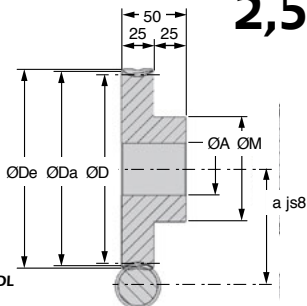
- Quality grade 8e DIN 3974
- Pressure angle: 20°
- Material: Delrin POM (White)
- Tooth thickness conforms to DIN 3967

Options

- Also available in PEEK GF30® (Light brown), ask for details
- 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 to the part number: e.g. worm PW2,5-4DL, wheel PWG2,5-15-4DL



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	N° of teeth	a	ØD	ØDa	ØDe	Bore ØA	ØM	Theoretical backlash (mm) Max. - Min.	Torque (Nm)	Price each 1 to 5
PWG2,5-15-1DL	15	36,25	37,50	42,50	45,00	10	30	0,116 - 0,038	11,19	101,41 €
PWG2,5-16-1DL	16	37,50	40,00	45,00	47,50	10	30	0,116 - 0,038	12,57	103,63 €
PWG2,5-17-1DL	17	38,75	42,50	47,50	50,00	10	30	0,116 - 0,038	14,26	105,80 €
PWG2,5-18-1DL	18	40,00	45,00	50,00	52,50	10	30	0,116 - 0,038	15,81	112,03 €
PWG2,5-19-1DL	19	41,25	47,50	52,50	55,00	10	30	0,116 - 0,038	17,42	118,21 €
PWG2,5-20-1DL	20	42,50	50,00	55,00	57,50	10	30	0,116 - 0,038	19,43	124,47 €
PWG2,5-21-1DL	21	43,75	52,50	57,50	60,00	12	45	0,137 - 0,048	21,21	127,54 €
PWG2,5-22-1DL	22	45,00	55,00	60,00	62,50	12	45	0,137 - 0,048	23,06	130,08 €
PWG2,5-23-1DL	23	46,25	57,50	62,50	65,00	12	45	0,137 - 0,048	24,99	135,17 €
PWG2,5-24-1DL	24	47,50	60,00	65,00	67,50	12	45	0,137 - 0,048	26,98	136,89 €
PWG2,5-25-1DL	25	48,75	62,50	67,50	70,00	12	45	0,137 - 0,048	29,03	138,36 €
PWG2,5-26-1DL	26	50,00	65,00	70,00	72,50	12	45	0,137 - 0,048	31,67	139,89 €
PWG2,5-27-1DL	27	51,25	67,50	72,50	75,00	12	45	0,139 - 0,045	33,90	141,06 €
PWG2,5-28-1DL	28	52,50	70,00	75,00	77,50	12	45	0,139 - 0,045	36,19	141,87 €
PWG2,5-29-1DL	29	53,75	72,50	77,50	80,00	14	55	0,139 - 0,045	38,55	143,34 €
PWG2,5-30-1DL	30	55,00	75,00	80,00	82,50	14	55	0,139 - 0,045	41,99	144,49 €
PWG2,5-32-1DL	32	57,50	80,00	85,00	87,50	14	55	0,139 - 0,045	47,16	176,94 €
PWG2,5-35-1DL	35	61,25	87,50	92,50	95,00	14	55	0,139 - 0,045	55,41	196,72 €
PWG2,5-38-1DL	38	65,00	95,00	100,00	102,50	14	55	0,139 - 0,045	64,77	229,97 €
PWG2,5-40-1DL	40	67,50	100,00	105,00	107,50	14	55	0,139 - 0,045	71,03	257,02 €
PWG2,5-42-1DL	42	70,00	105,00	110,00	112,50	16	65	0,139 - 0,045	78,78	287,58 €
PWG2,5-45-1DL	45	73,75	112,50	117,50	120,00	16	65	0,139 - 0,045	89,20	318,11 €
PWG2,5-48-1DL	48	77,50	120,00	125,00	127,50	16	65	0,139 - 0,045	100,47	352,36 €

Wheels available with 15 to 48 teeth

Dimensions in mm

PW_{DL}
PSW_{DL}

Worm and wheel set

Worm: Delrin or Peek

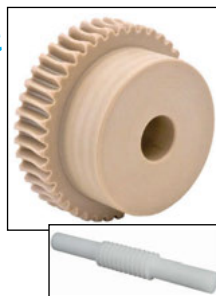
Module
3,0

- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Tooth thickness conforms to DIN 3967

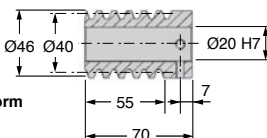
Info.

- Torque figures are for 100 rpm and are given as a guide only.

plastic

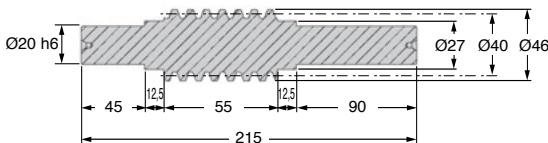


PWDL Bored worm



2 x M8 to 90°

PSWDL Shaft worm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		N° of starts	Price each 1 to 5	
Delrin	Peek		Delrin	Peek
Bored worm				
PW3.0-1DL	PW3.0-1PK	1	144,67 €	On request
PW3.0-2DL	PW3.0-2PK	2	149,62 €	On request
PW3.0-3DL	PW3.0-3PK	3	153,95 €	On request
PW3.0-4DL	PW3.0-4PK	4	159,96 €	On request
Shaft worm				
PSW3.0-1DL	PSW3.0-1PK	1	207,02 €	On request
PSW3.0-2DL	PSW3.0-2PK	2	219,64 €	On request
PSW3.0-3DL	PSW3.0-3PK	3	229,02 €	On request
PSW3.0-4DL	PSW3.0-4PK	4	238,01 €	On request

Dimensions in mm

Worm and wheel set

Delrin wheel

PWGDL

Module
3,0

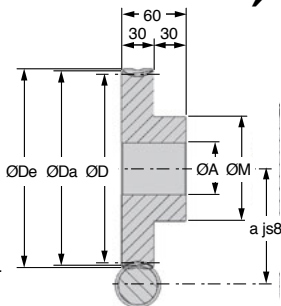
- Quality grade 8e25 DIN 3974
- Pressure angle: 20°
- Material: Delrin POM (White)
- Tooth thickness conforms to DIN 3967

Options

- Also available in PEEK GF30® (Light brown), ask for details
- Alternative bores (H7)
- Keyway conforming to DIN6885 (J59)
- 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 to the part number: e.g. worm PW3,0-4DL, wheel PWG3,0-15-4DL



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	N° of teeth	a	ØD	ØDa	ØDe	Bore ØA	ØM	Theoretical backlash (mm)	Torque (Nm)	Price each 1 to 5
PWG3.0-15-1DL	15	42,50	45	51	54	12	35	0,117 - 0,038	16,60	107,25 €
PWG3.0-16-1DL	16	44,00	48	54	57	12	35	0,117 - 0,038	18,64	111,35 €
PWG3.0-17-1DL	17	45,50	51	57	60	12	35	0,137 - 0,048	20,79	118,31 €
PWG3.0-18-1DL	18	47,00	54	60	63	12	35	0,137 - 0,048	23,04	125,29 €
PWG3.0-19-1DL	19	48,50	57	63	66	12	35	0,137 - 0,048	25,87	132,20 €
PWG3.0-20-1DL	20	50,00	60	66	69	12	35	0,137 - 0,048	28,37	135,53 €
PWG3.0-21-1DL	21	51,50	63	69	72	14	50	0,139 - 0,045	31,53	146,16 €
PWG3.0-22-1DL	22	53,00	66	72	75	14	50	0,139 - 0,045	34,29	153,14 €
PWG3.0-23-1DL	23	54,50	69	75	78	14	50	0,139 - 0,045	37,14	158,16 €
PWG3.0-24-1DL	24	56,00	72	78	81	14	50	0,139 - 0,045	40,82	160,44 €
PWG3.0-25-1DL	25	57,50	75	81	84	14	50	0,139 - 0,045	43,93	163,20 €
PWG3.0-26-1DL	26	59,00	78	84	87	14	50	0,139 - 0,045	47,14	186,42 €
PWG3.0-27-1DL	27	60,50	81	87	90	14	50	0,139 - 0,045	50,90	199,82 €
PWG3.0-28-1DL	28	62,00	84	90	93	14	50	0,139 - 0,045	54,34	215,33 €
PWG3.0-29-1DL	29	63,50	87	93	96	16	65	0,139 - 0,045	58,39	225,36 €
PWG3.0-30-1DL	30	65,00	90	96	99	16	65	0,139 - 0,045	62,06	234,98 €
PWG3.0-32-1DL	32	68,00	96	102	105	16	65	0,139 - 0,045	69,71	277,86 €
PWG3.0-35-1DL	35	72,50	105	111	114	16	65	0,139 - 0,045	81,91	319,97 €
PWG3.0-38-1DL	38	77,00	114	120	123	16	65	0,139 - 0,045	98,25	360,92 €
PWG3.0-40-1DL	40	80,00	120	126	129	16	65	0,139 - 0,045	107,75	417,93 €

Wheels available with 15 to 40 teeth

Dimensions in mm

PINION SHAFT



p.386

**STEEL OR STAINLESS
STEEL SPUR GEAR**



GRADE 7 E

p.392

**PRECISION
SPUR GEARS**
p.386 - 452

**DELFIN OR PEEK
SPUR GEAR**



GRADE 8 E

p.420

**SKIVE HOBBED
SPUR GEAR**



GRADE 6 E

p.434

GROUND SPUR GEAR



p.442

Module
0,5

Pinion shaft
Pre-treated or **stainless steel**

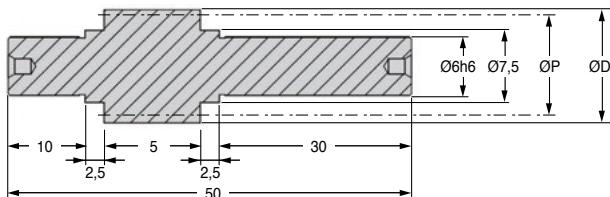
- **Quality grade 7e DIN 58405 (AGMA Q10)**
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCF6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z		ØP Pitch	ØD External	Torque (Nm)		Weight (kg)	Price each 1 to 5	
	Steel	Stainless steel			Steel	Stainless steel		Steel	Stainless steel
PPS0.5-18	PPS0.5-18S	18	9,0	10,0	0,25	0,15	0,013	73,30 €	158,30 €
PPS0.5-19	PPS0.5-19S	19	9,5	10,5	0,27	0,16	0,013	74,16 €	160,10 €
PPS0.5-20	PPS0.5-20S	20	10,0	11,0	0,36	0,21	0,014	75,55 €	163,15 €
PPS0.5-21	PPS0.5-21S	21	10,5	11,5	0,37	0,22	0,014	76,31 €	164,76 €
PPS0.5-22	PPS0.5-22S	22	11,0	12,0	0,39	0,23	0,014	77,30 €	166,94 €
PPS0.5-23	PPS0.5-23S	23	11,5	12,5	0,41	0,25	0,015	78,26 €	168,90 €
PPS0.5-24	PPS0.5-24S	24	12,0	13,0	0,43	0,26	0,015	79,14 €	170,91 €
PPS0.5-25	PPS0.5-25S	25	12,5	13,5	0,44	0,27	0,015	79,96 €	172,68 €
PPS0.5-26	PPS0.5-26S	26	13,0	14,0	0,54	0,33	0,016	81,18 €	175,19 €
PPS0.5-27	PPS0.5-27S	27	13,5	14,5	0,57	0,34	0,016	81,98 €	177,00 €
PPS0.5-28	PPS0.5-28S	28	14,0	15,0	0,59	0,35	0,017	82,87 €	178,82 €
PPS0.5-29	PPS0.5-29S	29	14,5	15,5	0,61	0,36	0,017	83,30 €	179,91 €
PPS0.5-30	PPS0.5-30S	30	15,0	16,0	0,69	0,41	0,017	83,62 €	180,58 €

Dimensions in mm

Pinion shaft

Pre-treated or **stainless steel**

Module

1,0

- **Quality grade 7e25 DIN 3961 (AGMA Q10)**

- Pressure angle: 20°

- Material:

Pre-treated steel 35NCD6, 28 HRC

Stainless steel 303

- Tooth thickness conforms to DIN 3967

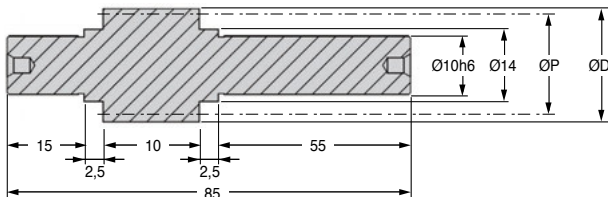
- Efficiency approx 98%

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z Teeth	OP Pitch	ØD External	Torque (Nm)	Weight (kg)	Price each 1 to 5		
Steel	Stainless steel						Steel	Stainless steel	
PPS1.0-18	PPS1.0-18S	18	18	20	1,8	1,1	0,069	78,40 €	169,22 €
PPS1.0-19	PPS1.0-19S	19	19	21	1,9	1,1	0,071	79,59 €	171,82 €
PPS1.0-20	PPS1.0-20S	20	20	22	2,5	1,5	0,074	82,13 €	177,36 €
PPS1.0-21	PPS1.0-21S	21	21	23	2,6	1,6	0,076	82,66 €	178,48 €
PPS1.0-22	PPS1.0-22S	22	22	24	2,7	1,6	0,079	83,86 €	181,07 €
PPS1.0-23	PPS1.0-23S	23	23	25	2,8	1,7	0,081	84,23 €	181,80 €
PPS1.0-24	PPS1.0-24S	24	24	26	3,0	1,8	0,084	84,74 €	182,92 €
PPS1.0-25	PPS1.0-25S	25	25	27	3,1	1,9	0,087	88,27 €	190,49 €
PPS1.0-26	PPS1.0-26S	26	26	28	3,8	2,3	0,090	91,42 €	197,33 €
PPS1.0-27	PPS1.0-27S	27	27	29	3,9	2,4	0,094	93,31 €	201,42 €
PPS1.0-28	PPS1.0-28S	28	28	30	4,1	2,4	0,097	95,35 €	205,87 €
PPS1.0-29	PPS1.0-29S	29	29	31	4,2	2,5	0,100	97,86 €	211,24 €
PPS1.0-30	PPS1.0-30S	30	30	32	4,8	2,9	0,104	99,48 €	214,76 €

Dimensions in mm

Module 1,5

Pinion shaft Pre-treated or stainless steel

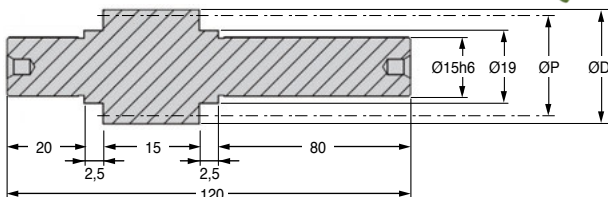
- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z Teeth	ØP Pitch	ØD External	Steel	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Steel	Stainless steel					Steel	Stainless steel		Steel	Stainless steel
PPS1.5-16	PPS1.5-16S	16	24,0	27,0	4,9	2,7	0,203	90,01	€ 175,43	€
PPS1.5-18	PPS1.5-18S	18	27,0	30,0	5,5	3,3	0,216	94,42	€ 181,80	€
PPS1.5-19	PPS1.5-19S	19	28,5	31,5	5,8	3,5	0,224	97,95	€ 188,65	€
PPS1.5-20	PPS1.5-20S	20	30,0	33,0	7,7	4,6	0,232	102,91	€ 198,22	€
PPS1.5-21	PPS1.5-21S	21	31,5	34,5	8,1	4,9	0,240	103,82	€ 199,86	€
PPS1.5-22	PPS1.5-22S	22	33,0	36,0	8,5	5,1	0,249	105,01	€ 202,15	€
PPS1.5-23	PPS1.5-23S	23	34,5	37,5	8,9	5,3	0,259	106,88	€ 205,75	€
PPS1.5-24	PPS1.5-24S	24	36,0	39,0	9,3	5,6	0,268	107,92	€ 207,80	€
PPS1.5-25	PPS1.5-25S	25	37,5	40,5	9,6	5,8	0,278	113,52	€ 218,52	€
PPS1.5-26	PPS1.5-26S	26	39,0	42,0	11,8	7,1	0,289	118,96	€ 229,02	€
PPS1.5-27	PPS1.5-27S	27	40,5	43,5	12,2	7,3	0,300	122,64	€ 236,14	€
PPS1.5-28	PPS1.5-28S	28	42,0	45,0	12,7	7,6	0,311	126,12	€ 242,85	€
PPS1.5-29	PPS1.5-29S	29	43,5	46,5	13,2	7,9	0,323	128,11	€ 246,59	€
PPS1.5-30	PPS1.5-30S	30	45,0	48,0	15,0	9,0	0,335	131,95	€ 254,04	€

Dimensions in mm

Pinion shaft

Pre-treated or **stainless steel**

Module 2,0

- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Pressure angle: 20°

- Material:

Pre-treated steel 35NCD6, 28 HRC

Stainless steel 303

- Tooth thickness conforms to DIN 3967

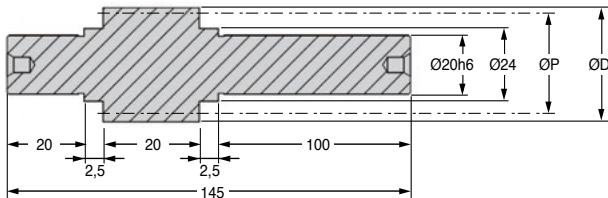
- Efficiency approx 98%

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z		Teeth	ØP	Pitch	ØD	External	Steel	Torque (Nm)	Stainless steel	Weight (kg)	Price each 1 to 5	
	Steel	Stainless steel										Steel	Stainless steel
PPS2.0-16	PPS2.0-16S		16	32	36	11,4	6,9	0,439	108,19	€	233,57	€	
PPS2.0-18	PPS2.0-18S		18	36	40	12,3	7,4	0,472	114,12	€	219,72	€	
PPS2.0-19	PPS2.0-19S		19	38	42	13,0	7,8	0,490	116,72	€	224,73	€	
PPS2.0-20	PPS2.0-20S		20	40	44	17,3	10,4	0,509	119,14	€	229,38	€	
PPS2.0-21	PPS2.0-21S		21	42	46	18,1	10,9	0,529	122,31	€	235,50	€	
PPS2.0-22	PPS2.0-22S		22	44	48	19,0	11,4	0,550	124,18	€	239,14	€	
PPS2.0-23	PPS2.0-23S		23	46	50	19,8	11,9	0,571	126,83	€	244,16	€	
PPS2.0-24	PPS2.0-24S		24	48	52	20,7	12,4	0,594	129,60	€	249,52	€	
PPS2.0-25	PPS2.0-25S		25	50	54	21,6	12,9	0,618	136,82	€	263,45	€	
PPS2.0-26	PPS2.0-26S		26	52	56	26,4	15,8	0,643	141,20	€	271,91	€	
PPS2.0-27	PPS2.0-27S		27	54	58	27,4	16,4	0,669	146,20	€	281,53	€	
PPS2.0-28	PPS2.0-28S		28	56	60	28,4	17,1	0,696	149,42	€	287,60	€	
PPS2.0-29	PPS2.0-29S		29	58	62	29,4	17,7	0,724	153,14	€	294,85	€	
PPS2.0-30	PPS2.0-30S		30	60	64	33,5	20,1	0,753	156,50	€	301,29	€	

Dimensions in mm

Module 2,5

Pinion shaft Pre-treated or stainless steel

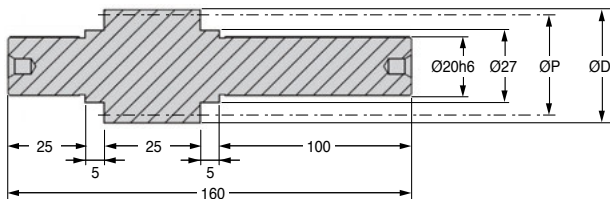
- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Info.

- Torque figures are for 100 rpm and are given as a guide only.



quality grade 7e25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Steel	Stainless steel	Z Teeth	ØP Pitch	ØD External	Torque (Nm)		Weight (kg)	Price each 1 to 5	
						Steel	Stainless steel		Steel	Stainless steel
PPS2.5-14	PPS2.5-14S		14	35,0	40,0	17,6	9,4	0,540	135,58 €	292,72 €
PPS2.5-16	PPS2.5-16S		16	40,0	45,0	19,8	11,7	0,597	141,18 €	304,70 €
PPS2.5-18	PPS2.5-18S		18	45,0	50,0	22,9	13,8	0,662	145,27 €	313,59 €
PPS2.5-19	PPS2.5-19S		19	47,5	52,5	24,2	14,5	0,697	149,17 €	322,01 €
PPS2.5-20	PPS2.5-20S		20	50,0	55,0	32,2	19,3	0,734	154,63 €	333,79 €
PPS2.5-21	PPS2.5-21S		21	52,5	57,5	33,8	20,3	0,773	158,38 €	341,82 €
PPS2.5-22	PPS2.5-22S		22	55,0	60,0	35,5	21,3	0,814	164,06 €	354,12 €
PPS2.5-23	PPS2.5-23S		23	57,5	62,5	37,1	22,2	0,857	168,17 €	363,06 €
PPS2.5-24	PPS2.5-24S		24	60,0	65,0	38,7	23,2	0,901	173,12 €	373,71 €
PPS2.5-25	PPS2.5-25S		25	62,5	67,5	40,3	24,2	0,948	182,54 €	394,01 €

Dimensions in mm

Pinion shaft

Pre-treated or **stainless steel**

Module 3,0

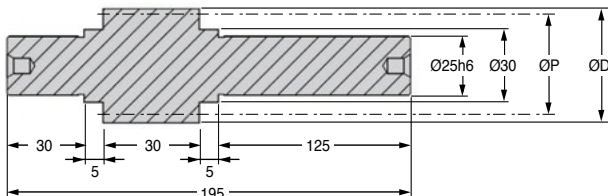
- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Steel	Stainless steel	Z	Teeth	ØP	Pitch	ØD	External	Steel	Torque (Nm)	Weight	Price each 1 to 5
PPS3.0-14	PPS3.0-14S	14	42	48	31,6	0,976	150,80	€ 369,59	€			
PPS3.0-16	PPS3.0-16S	16	48	54	34,1	1,074	155,12	€ 380,09	€			
PPS3.0-18	PPS3.0-18S	18	54	60	38,2	1,186	162,11	€ 397,17	€			
PPS3.0-19	PPS3.0-19S	19	57	63	40,3	1,246	168,15	€ 412,05	€			
PPS3.0-20	PPS3.0-20S	20	60	66	53,7	1,311	173,71	€ 425,59	€			
PPS3.0-21	PPS3.0-21S	21	63	69	56,4	1,378	179,39	€ 439,54	€			
PPS3.0-22	PPS3.0-22S	22	66	72	59,1	1,449	185,55	€ 454,62	€			
PPS3.0-23	PPS3.0-23S	23	69	75	61,8	1,523	191,49	€ 469,16	€			
PPS3.0-24	PPS3.0-24S	24	72	78	64,4	1,600	196,89	€ 482,52	€			
PPS3.0-25	PPS3.0-25S	25	75	81	67,1	1,681	208,81	€ 511,73	€			

Dimensions in mm

Module
0.5

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%

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
- Grade and tolerances measured before heat treatment.



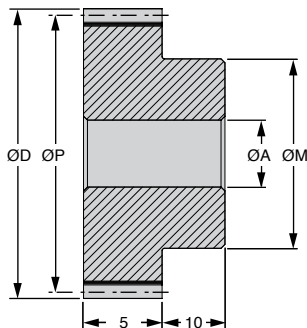
Quality grade 7e

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss		Standard	hardened		Standard	hardened
PSG0.5-20	PSG0.5-20H	20	10.0	11.0	4	8	0.076 - 0.037	0.36	1.11	0.006	30.19	49.85
PSG0.5-21	PSG0.5-21H	21	10.5	11.5	4	8	0.077 - 0.036	0.37	1.16	0.006	30.50	50.36
PSG0.5-22	PSG0.5-22H	22	11.0	12.0	4	8	0.077 - 0.036	0.39	1.22	0.006	30.89	51.02
PSG0.5-23	PSG0.5-23H	23	11.5	12.5	4	8	0.077 - 0.036	0.41	1.27	0.006	31.25	51.65
PSG0.5-24	PSG0.5-24H	24	12.0	13.0	5	10	0.077 - 0.036	0.43	1.33	0.008	31.62	52.23
PSG0.5-25	PSG0.5-25H	25	12.5	13.5	5	10	0.087 - 0.042	0.44	1.38	0.009	31.92	52.76
PSG0.5-26	PSG0.5-26H	26	13.0	14.0	5	10	0.087 - 0.042	0.54	1.44	0.009	32.41	53.53
PSG0.5-27	PSG0.5-27H	27	13.5	14.5	5	10	0.087 - 0.042	0.57	1.50	0.009	32.75	54.09
PSG0.5-28	PSG0.5-28H	28	14.0	15.0	5	10	0.087 - 0.042	0.59	1.55	0.010	33.10	54.68
PSG0.5-29	PSG0.5-29H	29	14.5	15.5	6	13	0.087 - 0.042	0.61	1.61	0.013	33.31	54.99
PSG0.5-30	PSG0.5-30H	30	15.0	16.0	6	13	0.087 - 0.042	0.69	1.65	0.014	33.40	55.20
PSG0.5-32	PSG0.5-32H	32	16.0	17.0	6	13	0.087 - 0.042	0.74	1.76	0.015	34.24	56.52
PSG0.5-35	PSG0.5-35H	35	17.5	18.5	6	13	0.087 - 0.042	0.81	1.93	0.016	35.38	58.43
PSG0.5-38	PSG0.5-38H	38	19.0	20.0	6	17	0.089 - 0.041	0.87	2.09	0.026	36.45	60.23
PSG0.5-40	PSG0.5-40H	40	20.0	21.0	6	17	0.089 - 0.041	1.18	2.45	0.027	37.28	61.54
PSG0.5-42	PSG0.5-42H	42	21.0	22.0	6	17	0.089 - 0.041	1.24	2.57	0.028	37.94	62.64
PSG0.5-45	PSG0.5-45H	45	22.5	23.5	6	17	0.089 - 0.041	1.32	2.75	0.030	39.10	64.57
PSG0.5-48	PSG0.5-48H	48	24.0	25.0	6	17	0.089 - 0.041	1.41	2.94	0.032	40.68	67.08
PSG0.5-50	PSG0.5-50H	50	25.0	26.0	6	17	0.089 - 0.041	1.74	3.32	0.034	41.11	67.79
PSG0.5-52	PSG0.5-52H	52	26.0	27.0	6	17	0.097 - 0.046	1.81	3.45	0.035	41.73	68.79
PSG0.5-55	PSG0.5-55H	55	27.5	28.5	6	17	0.097 - 0.046	1.92	3.65	0.038	42.53	70.27
PSG0.5-58	PSG0.5-58H	58	29.0	30.0	6	17	0.097 - 0.046	2.02	3.85	0.040	43.40	71.69
PSG0.5-60	PSG0.5-60H	60	30.0	31.0	6	17	0.097 - 0.046	2.49	4.15	0.042	43.90	72.43

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss		Standard	hardened		Standard	hardened
PSG0.5-62	PSG0.5-62H	62	31,0	32,0	8	20	0,098 - 0,044	2,57	4,29	0,048	44,42 €	73,32 €
PSG0.5-65	PSG0.5-65H	65	32,5	33,5	8	20	0,098 - 0,044	2,70	4,50	0,051	45,38 €	74,94 €
PSG0.5-68	PSG0.5-68H	68	34,0	35,0	8	20	0,098 - 0,044	2,82	4,70	0,054	45,70 €	75,43 €
PSG0.5-70	PSG0.5-70H	70	35,0	36,0	8	20	0,098 - 0,044	2,91	4,84	0,056	46,18 €	76,26 €
PSG0.5-72	PSG0.5-72H	72	36,0	37,0	8	20	0,098 - 0,044	2,99	4,98	0,058	46,65 €	76,97 €
PSG0.5-75	PSG0.5-75H	75	37,5	38,5	8	20	0,098 - 0,044	3,11	5,19	0,062	51,37 €	77,56 €
PSG0.5-78	PSG0.5-78H	78	39,0	40,0	8	20	0,098 - 0,044	3,24	5,40	0,065	47,70 €	78,70 €
PSG0.5-80	PSG0.5-80H	80	40,0	41,0	8	25	0,098 - 0,044	3,71	5,80	0,082	48,01 €	70,27 €
PSG0.5-82	PSG0.5-82H	82	41,0	42,0	8	25	0,098 - 0,044	3,81	5,95	0,084	48,55 €	80,12 €
PSG0.5-85	PSG0.5-85H	85	42,5	43,5	8	25	0,098 - 0,044	3,95	6,16	0,088	49,03 €	80,94 €
PSG0.5-90	PSG0.5-90H	90	45,0	46,0	8	25	0,098 - 0,044	4,18	6,53	0,095	49,85 €	82,29 €
PSG0.5-100	PSG0.5-100H	100	50,0	51,0	10	30	0,098 - 0,044	4,75	7,42	0,123	50,62 €	83,50 €
PSG0.5-120	PSG0.5-120H	120	60,0	61,0	10	35	0,111 - 0,049	5,70	8,90	0,177	61,33 €	101,18 €
PSG0.5-130	PSG0.5-130H	130	65,0	66,0	10	35	0,111 - 0,049	6,17	9,65	0,196	70,32 €	116,07 €
PSG0.5-140	PSG0.5-140H	140	70,0	71,0	10	35	0,111 - 0,049	6,65	10,39	0,217	73,30 €	120,91 €
PSG0.5-150	PSG0.5-150H	150	75,0	76,0	10	40	0,111 - 0,049	7,28	11,37	0,262	79,77 €	131,63 €
PSG0.5-200	PSG0.5-200H	200	100,0	101,0	14	50	0,113 - 0,047	9,80	15,32	0,444	98,33 €	162,26 €
PSG0.5-250	PSG0.5-250H	250	125,0	126,0	16	60	0,136 - 0,062	12,25	19,15	0,679	117,96 €	194,67 €

Dimensions in mm

Module 0.5 Spur gear

S/Steel 303
S/Steel 316



- **Quality grade 7e** DIN 58405 (AGMA Q10)
- **Material :**
 - Stainless steel 303
 - Stainless steel 316
- Teeth profile conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



Quality grade 7e

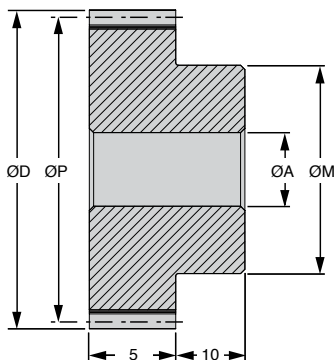
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316 (kg)		S/steel303	S/steel 316
PSG0.5-20S	PSG0.5-20SL	20	10.0	11.0	4	8	0.076 - 0.037	0.21	0.17	0.006	40.78	€ 46.83
PSG0.5-21S	PSG0.5-21SL	21	10.5	11.5	4	8	0.077 - 0.036	0.22	0.17	0.006	41.20	€ 47.29
PSG0.5-22S	PSG0.5-22SL	22	11.0	12.0	4	8	0.077 - 0.036	0.23	0.18	0.006	41.73	€ 47.94
PSG0.5-23S	PSG0.5-23SL	23	11.5	12.5	4	8	0.077 - 0.036	0.25	0.19	0.007	42.25	€ 48.47
PSG0.5-24S	PSG0.5-24SL	24	12.0	13.0	5	10	0.077 - 0.036	0.26	0.20	0.008	42.71	€ 49.03
PSG0.5-25S	PSG0.5-25SL	25	12.5	13.5	5	10	0.087 - 0.042	0.27	0.21	0.009	43.16	€ 49.60
PSG0.5-26S	PSG0.5-26SL	26	13.0	14.0	5	10	0.087 - 0.042	0.33	0.25	0.009	43.79	€ 50.31
PSG0.5-27S	PSG0.5-27SL	27	13.5	14.5	5	10	0.087 - 0.042	0.34	0.26	0.010	44.26	€ 50.80
PSG0.5-28S	PSG0.5-28SL	28	14.0	15.0	5	10	0.087 - 0.042	0.35	0.27	0.010	44.70	€ 51.34
PSG0.5-29S	PSG0.5-29SL	29	14.5	15.5	6	13	0.087 - 0.042	0.36	0.28	0.014	44.97	€ 51.67
PSG0.5-30S	PSG0.5-30SL	30	15.0	16.0	6	13	0.087 - 0.042	0.41	0.32	0.014	45.16	€ 51.86
PSG0.5-32S	PSG0.5-32SL	32	16.0	17.0	6	13	0.087 - 0.042	0.44	0.34	0.015	46.26	€ 53.11
PSG0.5-35S	PSG0.5-35SL	35	17.5	18.5	6	13	0.087 - 0.042	0.48	0.38	0.017	47.79	€ 54.90
PSG0.5-38S	PSG0.5-38SL	38	19.0	20.0	6	17	0.089 - 0.041	0.52	0.41	0.026	49.25	€ 56.56
PSG0.5-40S	PSG0.5-40SL	40	20.0	21.0	6	17	0.089 - 0.041	0.71	0.55	0.027	50.36	€ 57.83
PSG0.5-42S	PSG0.5-42SL	42	21.0	22.0	6	17	0.089 - 0.041	0.74	0.58	0.028	51.23	€ 58.85
PSG0.5-45S	PSG0.5-45SL	45	22.5	23.5	6	17	0.089 - 0.041	0.79	0.62	0.031	52.83	€ 60.67
PSG0.5-48S	PSG0.5-48SL	48	24.0	25.0	6	17	0.089 - 0.041	0.85	0.66	0.033	54.90	€ 63.00
PSG0.5-50S	PSG0.5-50SL	50	25.0	26.0	6	17	0.089 - 0.041	1.05	0.81	0.034	55.46	€ 63.70
PSG0.5-52S	PSG0.5-52SL	52	26.0	27.0	6	17	0.097 - 0.046	1.09	0.85	0.036	56.30	€ 64.67
PSG0.5-55S	PSG0.5-55SL	55	27.5	28.5	6	17	0.097 - 0.046	1.15	0.90	0.038	57.44	€ 65.98
PSG0.5-58S	PSG0.5-58SL	58	29.0	30.0	6	17	0.097 - 0.046	1.21	0.94	0.041	58.65	€ 67.30
PSG0.5-60S	PSG0.5-60SL	60	30.0	31.0	6	17	0.097 - 0.046	1.49	1.16	0.043	59.27	€ 68.04

Dimensions in mm

Module 0.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316 (kg)	S/steel303	S/steel 316
PSG0.5-62S	PSG0.5-62SL	62	31,0	32,0	8	20	0,098 - 0,044	1,54	1,20	0,049	59,98 € 68,89 €
PSG0.5-65S	PSG0.5-65SL	65	32,5	33,5	8	20	0,098 - 0,044	1,62	1,26	0,052	61,30 € 70,38 €
PSG0.5-68S	PSG0.5-68SL	68	34,0	35,0	8	20	0,098 - 0,044	1,69	1,32	0,055	61,69 € 70,83 €
PSG0.5-70S	PSG0.5-70SL	70	35,0	36,0	8	20	0,098 - 0,044	1,74	1,36	0,057	62,34 € 71,63 €
PSG0.5-72S	PSG0.5-72SL	72	36,0	37,0	8	20	0,098 - 0,044	1,79	1,39	0,060	62,95 € 72,30 €
PSG0.5-75S	PSG0.5-75SL	75	37,5	38,5	8	20	0,098 - 0,044	1,87	1,45	0,063	63,43 € 72,86 €
PSG0.5-78S	PSG0.5-78SL	78	39,0	40,0	8	20	0,098 - 0,044	1,94	1,51	0,067	64,36 € 73,94 €
PSG0.5-80S	PSG0.5-80SL	80	40,0	41,0	8	25	0,098 - 0,044	2,55	1,98	0,083	64,86 € 74,47 €
PSG0.5-82S	PSG0.5-82SL	82	41,0	42,0	8	25	0,098 - 0,044	2,61	2,03	0,086	65,54 € 75,30 €
PSG0.5-85S	PSG0.5-85SL	85	42,5	43,5	8	25	0,098 - 0,044	2,71	2,11	0,090	66,24 € 76,03 €
PSG0.5-90S	PSG0.5-90SL	90	45,0	46,0	8	25	0,098 - 0,044	2,87	2,23	0,097	67,30 € 77,30 €
PSG0.5-100S	PSG0.5-100SL	100	50,0	51,0	10	30	0,098 - 0,044	3,84	2,99	0,125	68,31 € 78,46 €
PSG0.5-120S	PSG0.5-120SL	120	60,0	61,0	10	35	0,111 - 0,049	4,61	3,59	0,180	82,78 € 95,04 €
PSG0.5-130S	PSG0.5-130SL	130	65,0	66,0	10	35	0,111 - 0,049	5,00	3,89	0,200	94,95 € 109,04 €
PSG0.5-140S	PSG0.5-140SL	140	70,0	71,0	10	35	0,111 - 0,049	5,38	4,19	0,221	98,93 € 113,56 €
PSG0.5-150S	PSG0.5-150SL	150	75,0	76,0	10	40	0,111 - 0,049	7,79	6,06	0,267	107,70 € 123,68 €
PSG0.5-200S	PSG0.5-200SL	200	100,0	101,0	14	50	0,113 - 0,047	11,61	9,03	0,452	132,75 € 152,46 €
PSG0.5-250S	PSG0.5-250SL	250	125,0	126,0	16	60	0,136 - 0,062	14,51	11,29	0,692	159,23 € 182,87 €

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%

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

- Grade and tolerances measured before heat treatment.

quality grade 7e

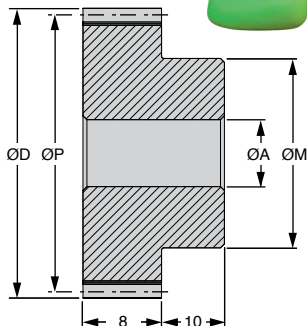
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened	Standard	hardened
PSG0.8-18	PSG0.8-18H	18	14,4	16,0	5	11	0,096 - 0,047	0,94	3,46	0,015	29,52 € 49,49 €
PSG0.8-19	PSG0.8-19H	19	15,2	16,8	5	11	0,096 - 0,047	1,00	3,65	0,016	30,00 € 50,28 €
PSG0.8-20	PSG0.8-20H	20	16,0	17,6	5	11	0,096 - 0,047	1,33	4,53	0,017	30,43 € 51,02 €
PSG0.8-21	PSG0.8-21H	21	16,8	18,4	5	12	0,096 - 0,047	1,39	4,76	0,020	31,40 € 51,79 €
PSG0.8-22	PSG0.8-22H	22	17,6	19,2	5	12	0,096 - 0,047	1,46	4,98	0,021	31,82 € 52,57 €
PSG0.8-23	PSG0.8-23H	23	18,4	20,0	5	12	0,097 - 0,046	1,53	5,21	0,023	31,99 € 52,78 €
PSG0.8-24	PSG0.8-24H	24	19,2	20,8	6	14	0,097 - 0,046	1,59	5,44	0,026	32,13 € 53,09 €
PSG0.8-25	PSG0.8-25H	25	20,0	21,6	6	14	0,097 - 0,046	1,66	5,66	0,028	33,50 € 55,31 €
PSG0.8-26	PSG0.8-26H	26	20,8	22,4	6	14	0,097 - 0,046	2,03	5,90	0,029	34,71 € 57,29 €
PSG0.8-27	PSG0.8-27H	27	21,6	23,2	6	14	0,097 - 0,046	2,11	6,13	0,031	35,38 € 58,43 €
PSG0.8-28	PSG0.8-28H	28	22,4	24,0	8	18	0,097 - 0,046	2,18	6,35	0,037	36,21 € 59,79 €
PSG0.8-29	PSG0.8-29H	29	23,2	24,8	8	18	0,097 - 0,046	2,26	6,58	0,039	37,16 € 61,33 €
PSG0.8-30	PSG0.8-30H	30	24,0	25,6	8	18	0,097 - 0,046	2,58	6,76	0,041	37,77 € 62,34 €
PSG0.8-32	PSG0.8-32H	32	25,6	27,2	8	18	0,108 - 0,052	2,75	7,21	0,045	38,74 € 64,00 €
PSG0.8-35	PSG0.8-35H	35	28,0	29,6	10	20	0,108 - 0,052	3,00	7,89	0,052	40,05 € 66,12 €
PSG0.8-38	PSG0.8-38H	38	30,4	32,0	10	20	0,109 - 0,050	3,26	8,57	0,059	41,73 € 68,82 €
PSG0.8-40	PSG0.8-40H	40	32,0	33,6	10	20	0,109 - 0,050	4,39	10,03	0,064	43,23 € 71,38 €
PSG0.8-42	PSG0.8-42H	42	33,6	35,2	10	20	0,109 - 0,050	4,61	10,53	0,069	43,55 € 71,89 €
PSG0.8-45	PSG0.8-45H	45	36,0	37,6	10	20	0,109 - 0,050	4,94	11,28	0,077	44,17 € 72,95 €
PSG0.8-48	PSG0.8-48H	48	38,4	40,0	10	30	0,109 - 0,050	5,26	12,04	0,117	44,53 € 73,54 €
PSG0.8-50	PSG0.8-50H	50	40,0	41,6	10	30	0,109 - 0,050	6,50	13,61	0,123	53,78 € 81,18 €
PSG0.8-52	PSG0.8-52H	52	41,6	43,2	10	30	0,109 - 0,050	6,76	14,15	0,129	50,66 € 83,60 €
PSG0.8-55	PSG0.8-55H	55	44,0	45,6	10	30	0,109 - 0,050	7,15	14,97	0,139	52,73 € 87,07 €
PSG0.8-58	PSG0.8-58H	58	46,4	48,0	10	30	0,109 - 0,050	7,54	15,78	0,150	54,35 € 89,70 €

Dimensions in mm

Module 0.8



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened		Standard	hardened
PSG0.8-60	PSG0.8-60H	60	48,0	49,6	10	40	0,109 - 0,050	9,29	17,00	0,200	55,62 €	91,79 €
PSG0.8-62	PSG0.8-62H	62	49,6	51,2	10	40	0,109 - 0,050	9,60	17,57	0,208	57,44 €	94,83 €
PSG0.8-65	PSG0.8-65H	65	52,0	53,6	10	40	0,122 - 0,055	10,06	18,42	0,220	61,58 €	101,58 €
PSG0.8-68	PSG0.8-68H	68	54,4	56,0	10	40	0,122 - 0,055	10,52	19,27	0,233	64,69 €	106,83 €
PSG0.8-70	PSG0.8-70H	70	56,0	57,6	10	40	0,122 - 0,055	10,83	19,83	0,241	66,07 €	109,04 €
PSG0.8-72	PSG0.8-72H	72	57,6	59,2	10	40	0,122 - 0,055	11,14	20,40	0,250	67,49 €	111,40 €
PSG0.8-75	PSG0.8-75H	75	60,0	61,6	10	50	0,122 - 0,055	11,61	21,25	0,320	72,01 €	118,86 €
PSG0.8-78	PSG0.8-78H	78	62,4	64,0	10	50	0,122 - 0,055	12,07	22,10	0,334	73,08 €	120,64 €
PSG0.8-80	PSG0.8-80H	80	64,0	65,6	10	50	0,122 - 0,055	15,21	23,77	0,344	74,60 €	123,08 €
PSG0.8-82	PSG0.8-82H	82	65,6	67,2	10	50	0,122 - 0,055	15,59	24,36	0,354	75,61 €	124,85 €
PSG0.8-85	PSG0.8-85H	85	68,0	69,6	10	50	0,122 - 0,055	16,16	25,25	0,370	77,27 €	127,52 €
PSG0.8-90	PSG0.8-90H	90	72,0	73,6	10	65	0,122 - 0,055	17,11	26,74	0,504	79,74 €	131,61 €
PSG0.8-95	PSG0.8-95H	95	76,0	77,6	10	65	0,122 - 0,055	18,06	28,22	0,533	88,27 €	145,72 €
PSG0.8-100	PSG0.8-100H	100	80,0	81,6	14	65	0,122 - 0,055	19,45	30,39	0,553	89,45 €	147,65 €
PSG0.8-110	PSG0.8-110H	110	88,0	89,6	14	70	0,123 - 0,053	20,42	31,91	0,661	112,01 €	184,85 €
PSG0.8-120	PSG0.8-120H	120	96,0	97,6	14	70	0,123 - 0,053	21,40	33,43	0,733	126,67 €	209,01 €

Dimensions in mm

Module Spur gear

0.8



S/Steel 303
S/Steel 316

- **Quality grade 7e DIN 58405 (AGMA Q10)**

- Material :

Stainless steel 303

Stainless steel 316

- Teeth profile conform to DIN 867

- Tooth thickness conforms to DIN 58405

- Efficiency approx 98%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



Quality grade 7e

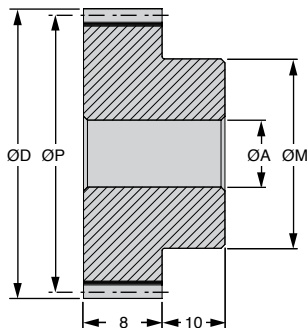
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel303 S/steel316 (kg)	S/steel303 S/steel 316
PSG0.8-18S PSG0.8-18SL	18	14.4	16.0	5	11	0.096 - 0.047	0.57 0.44 0.015	39.87	€ 45.80
PSG0.8-19S PSG0.8-19SL	19	15.2	16.8	5	11	0.096 - 0.047	0.60 0.47 0.016	40.47	€ 46.49
PSG0.8-20S PSG0.8-20SL	20	16.0	17.6	5	11	0.096 - 0.047	0.80 0.62 0.017	41.11	€ 47.18
PSG0.8-21S PSG0.8-21SL	21	16.8	18.4	5	12	0.096 - 0.047	0.84 0.65 0.020	42.36	€ 48.68
PSG0.8-22S PSG0.8-22SL	22	17.6	19.2	5	12	0.096 - 0.047	0.88 0.68 0.022	43.03	€ 49.36
PSG0.8-23S PSG0.8-23SL	23	18.4	20.0	5	12	0.097 - 0.046	0.92 0.71 0.023	43.16	€ 49.60
PSG0.8-24S PSG0.8-24SL	24	19.2	20.8	6	14	0.097 - 0.046	0.96 0.74 0.027	43.42	€ 49.87
PSG0.8-25S PSG0.8-25SL	25	20.0	21.6	6	14	0.097 - 0.046	0.99 0.77 0.028	45.23	€ 51.96
PSG0.8-26S PSG0.8-26SL	26	20.8	22.4	6	14	0.097 - 0.046	1.22 0.95 0.030	46.87	€ 53.78
PSG0.8-27S PSG0.8-27SL	27	21.6	23.2	6	14	0.097 - 0.046	1.26 0.98 0.031	47.82	€ 54.93
PSG0.8-28S PSG0.8-28SL	28	22.4	24.0	8	18	0.097 - 0.046	1.31 1.02 0.038	48.92	€ 56.14
PSG0.8-29S PSG0.8-29SL	29	23.2	24.8	8	18	0.097 - 0.046	1.36 1.06 0.040	50.17	€ 57.62
PSG0.8-30S PSG0.8-30SL	30	24.0	25.6	8	18	0.097 - 0.046	1.55 1.20 0.042	51.02	€ 58.60
PSG0.8-32S PSG0.8-32SL	32	25.6	27.2	8	18	0.108 - 0.052	1.65 1.28 0.046	52.36	€ 60.10
PSG0.8-35S PSG0.8-35SL	35	28.0	29.6	10	20	0.108 - 0.052	1.80 1.40 0.053	54.09	€ 62.13
PSG0.8-38S PSG0.8-38SL	38	30.4	32.0	10	20	0.109 - 0.050	1.96 1.52 0.060	56.32	€ 64.67
PSG0.8-40S PSG0.8-40SL	40	32.0	33.6	10	20	0.109 - 0.050	2.63 2.05 0.065	58.37	€ 67.03
PSG0.8-42S PSG0.8-42SL	42	33.6	35.2	10	20	0.109 - 0.050	2.76 2.15 0.070	58.81	€ 67.54
PSG0.8-45S PSG0.8-45SL	45	36.0	37.6	10	20	0.109 - 0.050	2.96 2.30 0.078	59.66	€ 68.53
PSG0.8-48S PSG0.8-48SL	48	38.4	40.0	10	30	0.109 - 0.050	3.16 2.46 0.119	60.17	€ 69.08
PSG0.8-50S PSG0.8-50SL	50	40.0	41.6	10	30	0.109 - 0.050	3.90 3.03 0.125	66.41	€ 76.26
PSG0.8-52S PSG0.8-52SL	52	41.6	43.2	10	30	0.109 - 0.050	4.06 3.16 0.132	68.36	€ 78.51
PSG0.8-55S PSG0.8-55SL	55	44.0	45.6	10	30	0.109 - 0.050	4.29 3.34 0.142	71.25	€ 81.80
PSG0.8-58S PSG0.8-58SL	58	46.4	48.0	10	30	0.109 - 0.050	4.53 3.52 0.153	73.38	€ 84.26

Dimensions in mm

Module 0.8



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316 (kg)		S/steel303	S/steel 316
PSG0.8-60S	PSG0.8-60SL	60	48,0	49,6	10	40	0,109 - 0,050	5,57	4,33	0,204	75,09 €	86,23 €
PSG0.8-62S	PSG0.8-62SL	62	49,6	51,2	10	40	0,109 - 0,050	5,76	4,48	0,212	77,56 €	89,06 €
PSG0.8-65S	PSG0.8-65SL	65	52,0	53,6	10	40	0,122 - 0,055	6,04	4,69	0,224	83,11 €	95,44 €
PSG0.8-68S	PSG0.8-68SL	68	54,4	56,0	10	40	0,122 - 0,055	6,31	4,91	0,237	87,39 €	100,34 €
PSG0.8-70S	PSG0.8-70SL	70	56,0	57,6	10	40	0,122 - 0,055	6,50	5,06	0,246	89,21 €	102,42 €
PSG0.8-72S	PSG0.8-72SL	72	57,6	59,2	10	40	0,122 - 0,055	6,69	5,20	0,255	91,13 €	104,62 €
PSG0.8-75S	PSG0.8-75SL	75	60,0	61,6	10	50	0,122 - 0,055	6,96	5,42	0,326	97,25 €	111,64 €
PSG0.8-78S	PSG0.8-78SL	78	62,4	64,0	10	50	0,122 - 0,055	7,24	5,63	0,340	98,69 €	113,31 €
PSG0.8-80S	PSG0.8-80SL	80	64,0	65,6	10	50	0,122 - 0,055	9,51	7,40	0,351	100,68 €	115,60 €
PSG0.8-82S	PSG0.8-82SL	82	65,6	67,2	10	50	0,122 - 0,055	9,75	7,58	0,361	102,13 €	117,25 €
PSG0.8-85S	PSG0.8-85SL	85	68,0	69,6	10	50	0,122 - 0,055	10,10	7,86	0,377	104,32 €	119,79 €
PSG0.8-90S	PSG0.8-90SL	90	72,0	73,6	10	65	0,122 - 0,055	10,70	8,32	0,513	107,67 €	123,64 €
PSG0.8-95S	PSG0.8-95SL	95	76,0	77,6	10	65	0,122 - 0,055	11,29	8,78	0,543	119,21 €	136,87 €
PSG0.8-100S	PSG0.8-100SL	100	80,0	81,6	14	65	0,122 - 0,055	14,33	11,15	0,564	120,81 €	138,72 €
PSG0.8-110S	PSG0.8-110SL	110	88,0	89,6	14	70	0,123 - 0,053	15,05	11,70	0,673	151,21 €	173,64 €
PSG0.8-120S	PSG0.8-120SL	120	96,0	97,6	14	70	0,123 - 0,053	15,77	12,26	0,747	171,03 €	196,39 €

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%

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

- Grade and tolerances measured before heat treatment.

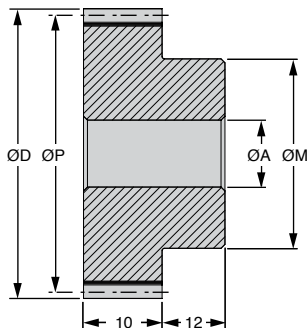
Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
Standard hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard hardened	Standard hardened	Standard hardened
PSG1.0-18 PSG1.0-18H	18	18	20	5	15	0,127 - 0,053	1,76 6,47 0,033	31,31 €	51,70 €
PSG1.0-19 PSG1.0-19H	19	19	21	5	15	0,128 - 0,052	1,86 6,83 0,035	31,80 €	52,47 €
PSG1.0-20 PSG1.0-20H	20	20	22	5	15	0,128 - 0,052	2,48 8,85 0,038	32,81 €	54,22 €
PSG1.0-21 PSG1.0-21H	21	21	23	5	15	0,128 - 0,052	2,60 9,29 0,040	33,06 €	54,52 €
PSG1.0-22 PSG1.0-22H	22	22	24	5	15	0,128 - 0,052	2,73 9,73 0,043	33,50 €	55,33 €
PSG1.0-23 PSG1.0-23H	23	23	25	5	15	0,128 - 0,052	2,85 10,18 0,045	33,68 €	55,55 €
PSG1.0-24 PSG1.0-24H	24	24	26	6	20	0,128 - 0,052	2,97 10,62 0,060	33,84 €	55,89 €
PSG1.0-25 PSG1.0-25H	25	25	27	6	20	0,128 - 0,052	3,10 11,06 0,063	35,27 €	58,22 €
PSG1.0-26 PSG1.0-26H	26	26	28	6	20	0,128 - 0,052	3,79 11,52 0,066	36,52 €	60,33 €
PSG1.0-27 PSG1.0-27H	27	27	29	6	20	0,128 - 0,052	3,94 11,96 0,069	37,28 €	61,54 €
PSG1.0-28 PSG1.0-28H	28	28	30	6	20	0,128 - 0,052	4,08 12,41 0,073	38,11 €	62,93 €
PSG1.0-29 PSG1.0-29H	29	29	31	8	25	0,128 - 0,052	4,23 12,85 0,089	39,10 €	64,57 €
PSG1.0-30 PSG1.0-30H	30	30	32	8	25	0,128 - 0,052	4,81 13,21 0,092	39,75 €	65,68 €
PSG1.0-32 PSG1.0-32H	32	32	34	8	25	0,129 - 0,051	5,13 14,09 0,100	40,78 €	67,30 €
PSG1.0-35 PSG1.0-35H	35	35	37	8	25	0,129 - 0,051	5,61 15,41 0,112	42,19 €	69,64 €
PSG1.0-38 PSG1.0-38H	38	38	40	10	34	0,129 - 0,051	6,09 16,73 0,160	43,90 €	72,46 €
PSG1.0-40 PSG1.0-40H	40	40	42	10	34	0,129 - 0,051	8,19 19,59 0,170	45,49 €	75,16 €
PSG1.0-42 PSG1.0-42H	42	42	44	10	34	0,129 - 0,051	8,60 20,57 0,180	45,82 €	75,72 €
PSG1.0-45 PSG1.0-45H	45	45	47	10	34	0,129 - 0,051	9,22 22,04 0,196	46,49 €	76,77 €
PSG1.0-48 PSG1.0-48H	48	48	50	10	34	0,129 - 0,051	9,83 23,51 0,213	46,89 €	77,40 €
PSG1.0-50 PSG1.0-50H	50	50	52	10	34	0,129 - 0,051	12,15 26,57 0,225	51,77 €	85,42 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened	Standard	hardened	
PSG1.0-52	PSG1.0-52H	52	52	54	10	40	0.171 - 0.069	12,63	27,64	0,270	53,33 €	87,96 €
PSG1.0-55	PSG1.0-55H	55	55	57	10	40	0.171 - 0.069	13,36	29,23	0,290	55,51 €	91,62 €
PSG1.0-58	PSG1.0-58H	58	58	60	10	40	0.171 - 0.069	14,09	30,82	0,311	57,23 €	94,42 €
PSG1.0-60	PSG1.0-60H	60	60	62	10	40	0.171 - 0.069	17,35	33,20	0,325	58,53 €	96,63 €
PSG1.0-62	PSG1.0-62H	62	62	64	10	40	0.171 - 0.069	17,92	34,31	0,340	60,46 €	99,81 €
PSG1.0-65	PSG1.0-65H	65	65	67	10	50	0.171 - 0.069	18,79	35,97	0,430	64,81 €	106,93 €
PSG1.0-68	PSG1.0-68H	68	68	70	10	50	0.171 - 0.069	19,66	37,63	0,455	68,14 €	112,48 €
PSG1.0-70	PSG1.0-70H	70	70	72	10	50	0.171 - 0.069	20,24	38,73	0,472	69,55 €	114,81 €
PSG1.0-72	PSG1.0-72H	72	72	74	10	50	0.171 - 0.069	20,81	39,84	0,489	71,03 €	117,28 €
PSG1.0-75	PSG1.0-75H	75	75	77	10	50	0.171 - 0.069	21,68	41,50	0,516	75,80 €	125,11 €
PSG1.0-78	PSG1.0-78H	78	78	80	10	60	0.171 - 0.069	22,55	43,16	0,626	76,97 €	127,03 €
PSG1.0-80	PSG1.0-80H	80	80	82	10	60	0.171 - 0.069	29,61	46,42	0,645	78,51 €	129,54 €
PSG1.0-82	PSG1.0-82H	82	82	84	10	60	0.173 - 0.067	30,35	47,58	0,665	79,63 €	131,43 €
PSG1.0-85	PSG1.0-85H	85	85	87	10	60	0.173 - 0.067	31,46	49,32	0,696	81,31 €	134,22 €
PSG1.0-90	PSG1.0-90H	90	90	92	10	60	0.173 - 0.067	33,31	52,22	0,750	83,94 €	138,53 €
PSG1.0-95	PSG1.0-95H	95	95	97	10	60	0.173 - 0.067	35,16	55,12	0,807	92,93 €	153,39 €
PSG1.0-100	PSG1.0-100H	100	100	102	14	70	0.173 - 0.067	37,99	59,36	0,950	94,16 €	155,44 €
PSG1.0-110	PSG1.0-110H	110	110	112	14	70	0.173 - 0.067	41,79	65,30	1,079	117,91 €	194,59 €
PSG1.0-120	PSG1.0-120H	120	120	122	14	70	0.173 - 0.067	45,59	71,24	1,220	133,35 €	220,02 €

Dimensions in mm

Module
1.0

Spur gear ▶ S/Steel 303

▶ S/Steel 316



- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Material :

Stainless steel 303

Stainless steel 316

- Teeth profile conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



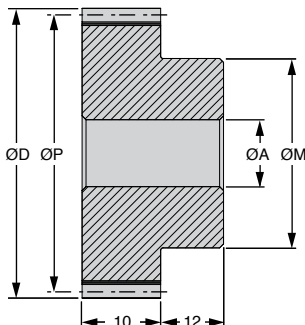
Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash		Torque (Nm)	Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)		S/steel 303	S/steel316 (kg)	S/steel303	S/steel 316
PSG1.0-18S	PSG1.0-18SL	18	18	20	5	15	0.127 - 0.053	1.06	0.82	0.034	42.31 €	48.62 €
PSG1.0-19S	PSG1.0-19SL	19	19	21	5	15	0.128 - 0.052	1.12	0.87	0.036	42.97 €	49.36 €
PSG1.0-20S	PSG1.0-20SL	20	20	22	5	15	0.128 - 0.052	1.49	1.16	0.038	44.34 €	50.93 €
PSG1.0-21S	PSG1.0-21SL	21	21	23	5	15	0.128 - 0.052	1.56	1.21	0.041	44.64 €	51.23 €
PSG1.0-22S	PSG1.0-22SL	22	22	24	5	15	0.128 - 0.052	1.64	1.27	0.044	45.29 €	51.99 €
PSG1.0-23S	PSG1.0-23SL	23	23	25	5	15	0.128 - 0.052	1.71	1.33	0.046	45.44 €	52.20 €
PSG1.0-24S	PSG1.0-24SL	24	24	26	6	20	0.128 - 0.052	1.78	1.39	0.061	45.72 €	52.51 €
PSG1.0-25S	PSG1.0-25SL	25	25	27	6	20	0.128 - 0.052	1.86	1.45	0.064	47.65 €	54.68 €
PSG1.0-26S	PSG1.0-26SL	26	26	28	6	20	0.128 - 0.052	2.27	1.77	0.067	49.36 €	56.66 €
PSG1.0-27S	PSG1.0-27SL	27	27	29	6	20	0.128 - 0.052	2.36	1.84	0.070	50.36 €	57.83 €
PSG1.0-28S	PSG1.0-28SL	28	28	30	6	20	0.128 - 0.052	2.45	1.90	0.074	51.46 €	59.12 €
PSG1.0-29S	PSG1.0-29SL	29	29	31	8	25	0.128 - 0.052	2.54	1.97	0.091	52.83 €	60.67 €
PSG1.0-30S	PSG1.0-30SL	30	30	32	8	25	0.128 - 0.052	2.89	2.24	0.094	53.70 €	61.66 €
PSG1.0-32S	PSG1.0-32SL	32	32	34	8	25	0.129 - 0.051	3.08	2.39	0.102	55.07 €	63.25 €
PSG1.0-35S	PSG1.0-35SL	35	35	37	8	25	0.129 - 0.051	3.37	2.62	0.114	56.97 €	65.42 €
PSG1.0-38S	PSG1.0-38SL	38	38	40	10	34	0.129 - 0.051	3.66	2.84	0.163	59.29 €	68.06 €
PSG1.0-40S	PSG1.0-40SL	40	40	42	10	34	0.129 - 0.051	4.92	3.02	0.173	61.44 €	70.57 €
PSG1.0-42S	PSG1.0-42SL	42	42	44	10	34	0.129 - 0.051	5.16	4.02	0.183	61.95 €	71.09 €
PSG1.0-45S	PSG1.0-45SL	45	45	47	10	34	0.129 - 0.051	5.53	4.30	0.199	62.83 €	72.13 €
PSG1.0-48S	PSG1.0-48SL	48	48	50	10	34	0.129 - 0.051	5.90	4.59	0.217	63.33 €	72.70 €
PSG1.0-50S	PSG1.0-50SL	50	50	52	10	34	0.129 - 0.051	7.29	5.67	0.229	69.89 €	80.27 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303 S/steel316 (kg)	S/steel303 S/steel 316
PSG1.0-52S	PSG1.0-52SL	52	52	54	10	40	0,171 - 0,069	7,58 5,90 0,275	71,97 € 82,63 €
PSG1.0-55S	PSG1.0-55SL	55	55	57	10	40	0,171 - 0,069	8,02 6,24 0,295	74,99 € 86,09 €
PSG1.0-58S	PSG1.0-58SL	58	58	60	10	40	0,171 - 0,069	8,45 6,58 0,317	77,27 € 88,70 €
PSG1.0-60S	PSG1.0-60SL	60	60	62	10	40	0,171 - 0,069	10,41 8,09 0,331	79,03 € 90,81 €
PSG1.0-62S	PSG1.0-62SL	62	62	64	10	40	0,171 - 0,069	10,75 8,36 0,347	81,62 € 93,78 €
PSG1.0-65S	PSG1.0-65SL	65	65	67	10	50	0,171 - 0,069	11,27 8,77 0,438	87,47 € 100,43 €
PSG1.0-68S	PSG1.0-68SL	68	68	70	10	50	0,171 - 0,069	11,79 9,17 0,463	92,00 € 105,65 €
PSG1.0-70S	PSG1.0-70SL	70	70	72	10	50	0,171 - 0,069	12,14 9,44 0,481	93,92 € 107,85 €
PSG1.0-72S	PSG1.0-72SL	72	72	74	10	50	0,171 - 0,069	12,49 9,71 0,498	95,95 € 110,19 €
PSG1.0-75S	PSG1.0-75SL	75	75	77	10	50	0,171 - 0,069	13,01 10,12 0,526	102,34 € 117,53 €
PSG1.0-78S	PSG1.0-78SL	78	78	80	10	60	0,171 - 0,069	13,53 10,52 0,638	103,91 € 119,34 €
PSG1.0-80S	PSG1.0-80SL	80	80	82	10	60	0,171 - 0,069	17,76 13,82 0,658	106,00 € 121,69 €
PSG1.0-82S	PSG1.0-82SL	82	82	84	10	60	0,173 - 0,067	18,21 14,16 0,678	107,54 € 123,48 €
PSG1.0-85S	PSG1.0-85SL	85	85	87	10	60	0,173 - 0,067	18,87 14,68 0,709	109,86 € 126,12 €
PSG1.0-90S	PSG1.0-90SL	90	90	92	10	60	0,173 - 0,067	19,98 15,54 0,764	113,37 € 130,15 €
PSG1.0-95S	PSG1.0-95SL	95	95	97	10	60	0,173 - 0,067	21,09 16,41 0,822	125,49 € 144,08 €
PSG1.0-100S	PSG1.0-100SL	100	100	102	14	70	0,173 - 0,067	23,75 18,76 0,968	127,14 € 146,00 €
PSG1.0-110S	PSG1.0-110SL	110	110	112	14	70	0,173 - 0,067	26,12 20,63 1,099	159,16 € 182,73 €
PSG1.0-120S	PSG1.0-120SL	120	120	122	14	70	0,173 - 0,067	28,49 22,51 1,244	180,03 € 206,71 €

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

Info.

- Torque figures are for 100 rpm and are given as a guide only
- Grade and tolerances measured before heat treatment.

Quality grade 7e25

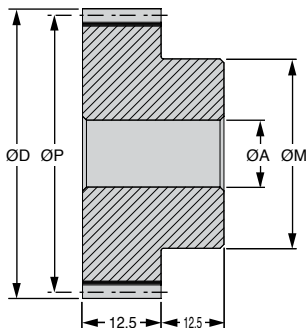
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened	Standard	hardened	
PSG1.25-18	PSG1.25-18H	18	22.50	25.00	6	15	0.097 - 0.046	3.29	12.08	0.050	39.19	€ 64.67
PSG1.25-19	PSG1.25-19H	19	23.75	26.25	6	15	0.097 - 0.046	3.48	12.75	0.055	39.75	€ 65.68
PSG1.25-20	PSG1.25-20H	20	25.00	27.50	6	15	0.108 - 0.052	4.63	16.97	0.059	40.37	€ 66.65
PSG1.25-21	PSG1.25-21H	21	26.25	28.75	8	20	0.108 - 0.052	4.86	17.82	0.073	41.66	€ 68.74
PSG1.25-22	PSG1.25-22H	22	27.50	30.00	8	20	0.108 - 0.052	5.09	18.67	0.079	42.25	€ 69.72
PSG1.25-23	PSG1.25-23H	23	28.75	31.25	8	20	0.108 - 0.052	5.32	19.52	0.084	42.43	€ 70.03
PSG1.25-24	PSG1.25-24H	24	30.00	32.50	8	22	0.108 - 0.052	5.55	20.36	0.096	42.68	€ 70.40
PSG1.25-25	PSG1.25-25H	25	31.25	33.75	8	22	0.109 - 0.050	5.79	21.21	0.102	44.42	€ 73.36
PSG1.25-26	PSG1.25-26H	26	32.50	35.00	8	22	0.109 - 0.050	7.08	22.50	0.108	46.02	€ 75.97
PSG1.25-27	PSG1.25-27H	27	33.75	36.25	8	22	0.109 - 0.050	7.35	23.37	0.114	47.00	€ 77.53
PSG1.25-28	PSG1.25-28H	28	35.00	37.50	8	25	0.109 - 0.050	7.62	24.23	0.132	48.01	€ 79.27
PSG1.25-29	PSG1.25-29H	29	36.25	38.75	8	25	0.109 - 0.050	7.90	25.10	0.138	49.29	€ 81.38
PSG1.25-30	PSG1.25-30H	30	37.50	40.00	8	25	0.109 - 0.050	8.98	25.80	0.145	50.12	€ 82.72
PSG1.25-32	PSG1.25-32H	32	40.00	42.50	8	25	0.109 - 0.050	9.58	27.52	0.160	51.40	€ 84.87
PSG1.25-35	PSG1.25-35H	35	43.75	46.25	10	30	0.109 - 0.050	10.48	30.10	0.200	53.16	€ 87.74
PSG1.25-38	PSG1.25-38H	38	47.50	50.00	10	30	0.109 - 0.050	11.38	32.68	0.226	55.33	€ 91.29
PSG1.25-40	PSG1.25-40H	40	50.00	52.50	10	30	0.120 - 0.057	15.31	38.26	0.245	57.34	€ 94.66
PSG1.25-42	PSG1.25-42H	42	52.50	55.00	10	30	0.122 - 0.055	16.07	40.17	0.264	57.79	€ 95.35
PSG1.25-45	PSG1.25-45H	45	56.25	58.75	10	30	0.122 - 0.055	17.22	43.04	0.296	58.62	€ 96.76

Dimensions in mm

Module 1.25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5		
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened	Standard	hardened	
PSG1.25-48	PSG1.25-48H	48	60,00	62,50	10	40	0,122 - 0,055	18,37	45,91	0,383	59,09 €	97,59 €
PSG1.25-50	PSG1.25-50H	50	62,50	65,00	10	40	0,122 - 0,055	22,69	51,90	0,407	65,26 €	107,70 €
PSG1.25-52	PSG1.25-52H	52	65,00	67,50	10	40	0,122 - 0,055	23,60	53,98	0,431	67,19 €	110,91 €
PSG1.25-55	PSG1.25-55H	55	68,75	71,25	10	40	0,122 - 0,055	24,96	57,09	0,469	69,98 €	115,51 €
PSG1.25-58	PSG1.25-58H	58	72,50	75,00	10	40	0,122 - 0,055	26,32	60,20	0,510	72,08 €	118,98 €
PSG1.25-60	PSG1.25-60H	60	75,00	77,50	10	50	0,122 - 0,055	32,40	64,85	0,608	73,76 €	121,75 €
PSG1.25-62	PSG1.25-62H	62	77,50	80,00	10	50	0,122 - 0,055	33,48	67,01	0,637	76,21 €	125,75 €
PSG1.25-65	PSG1.25-65H	65	81,25	83,75	10	50	0,123 - 0,053	35,10	70,25	0,683	81,64 €	134,79 €
PSG1.25-68	PSG1.25-68H	68	85,00	87,50	10	50	0,123 - 0,053	36,72	73,49	0,731	85,87 €	141,69 €
PSG1.25-70	PSG1.25-70H	70	87,50	90,00	10	50	0,123 - 0,053	37,80	75,65	0,764	87,63 €	144,33 €
PSG1.25-72	PSG1.25-72H	72	90,00	92,50	10	50	0,123 - 0,053	38,88	77,82	0,798	89,56 €	147,76 €
PSG1.25-75	PSG1.25-75H	75	93,75	96,25	10	60	0,123 - 0,053	40,50	81,06	0,935	95,55 €	157,64 €
PSG1.25-78	PSG1.25-78H	78	97,50	100,00	10	60	0,123 - 0,053	42,12	84,30	0,991	96,95 €	160,04 €
PSG1.25-80	PSG1.25-80H	80	100,00	102,50	10	60	0,138 - 0,064	55,30	90,66	1,029	98,93 €	163,29 €
PSG1.25-82	PSG1.25-82H	82	102,50	105,00	10	60	0,138 - 0,064	56,68	92,92	1,067	100,34 €	165,57 €
PSG1.25-85	PSG1.25-85H	85	106,25	108,75	10	60	0,138 - 0,064	58,75	96,32	1,128	102,51 €	169,16 €
PSG1.25-90	PSG1.25-90H	90	112,50	115,00	10	65	0,138 - 0,064	62,21	101,99	1,281	105,80 €	174,61 €
PSG1.25-95	PSG1.25-95H	95	118,75	121,25	10	65	0,138 - 0,064	65,67	107,66	1,392	117,12 €	193,29 €
PSG1.25-100	PSG1.25-100H	100	125,00	127,50	14	65	0,140 - 0,062	74,20	115,95	1,494	118,68 €	195,86 €
PSG1.25-110	PSG1.25-110H	110	137,50	140,00	14	70	0,140 - 0,062	77,92	121,74	1,798	148,58 €	245,22 €
PSG1.25-120	PSG1.25-120	120	150,00	152,50	14	70	0,140 - 0,062	81,63	127,54	2,075	168,04 €	168,04 €

Dimensions in mm

Module
1.25

Spur gear ▶ S/Steel 303
▶ S/Steel 316



- Quality grade 7e25 DIN 3961 (AGMA Q10)
- Material :
Stainless steel 303
Stainless steel 316
- Teeth profile conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



Quality grade 7e25

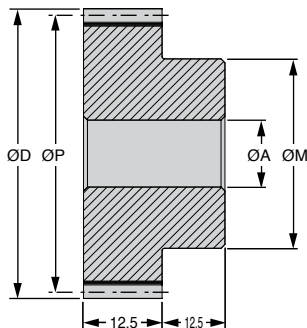
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316	(kg)	S/steel303	S/steel 316
PSG1.25-18S	PSG1.25-18SL	18	22.50	25.00	6	15	0.097 - 0.046	1.98	1.54	0.051	52.94 €	60.77 €
PSG1.25-19S	PSG1.25-19SL	19	23.75	26.25	6	15	0.097 - 0.046	2.09	1.62	0.056	53.73 €	61.66 €
PSG1.25-20S	PSG1.25-20SL	20	25.00	27.50	6	15	0.108 - 0.052	2.78	2.16	0.061	54.52 €	62.59 €
PSG1.25-21S	PSG1.25-21SL	21	26.25	28.75	8	20	0.108 - 0.052	2.92	2.27	0.075	56.23 €	64.59 €
PSG1.25-22S	PSG1.25-22SL	22	27.50	30.00	8	20	0.108 - 0.052	3.05	2.38	0.080	57.04 €	65.51 €
PSG1.25-23S	PSG1.25-23SL	23	28.75	31.25	8	20	0.108 - 0.052	3.19	2.48	0.085	57.31 €	65.79 €
PSG1.25-24S	PSG1.25-24SL	24	30.00	32.50	8	22	0.108 - 0.052	3.33	2.59	0.098	57.62 €	66.16 €
PSG1.25-25S	PSG1.25-25SL	25	31.25	33.75	8	22	0.109 - 0.050	3.47	2.70	0.104	59.98 €	68.92 €
PSG1.25-26S	PSG1.25-26SL	26	32.50	35.00	8	22	0.109 - 0.050	4.25	3.30	0.110	62.16 €	71.38 €
PSG1.25-27S	PSG1.25-27SL	27	33.75	36.25	8	22	0.109 - 0.050	4.41	3.43	0.116	63.43 €	72.86 €
PSG1.25-28S	PSG1.25-28SL	28	35.00	37.50	8	25	0.109 - 0.050	4.57	3.56	0.134	64.88 €	74.49 €
PSG1.25-29S	PSG1.25-29SL	29	36.25	38.75	8	25	0.109 - 0.050	4.74	3.68	0.141	66.57 €	76.42 €
PSG1.25-30S	PSG1.25-30SL	30	37.50	40.00	8	25	0.109 - 0.050	5.39	4.19	0.148	67.67 €	77.71 €
PSG1.25-32S	PSG1.25-32SL	32	40.00	42.50	8	25	0.109 - 0.050	5.75	4.47	0.163	69.41 €	79.71 €
PSG1.25-35S	PSG1.25-35SL	35	43.75	46.25	10	30	0.109 - 0.050	6.29	4.89	0.204	71.77 €	82.42 €
PSG1.25-38S	PSG1.25-38SL	38	47.50	50.00	10	30	0.109 - 0.050	6.83	5.31	0.230	74.69 €	85.77 €
PSG1.25-40S	PSG1.25-40SL	40	50.00	52.50	10	30	0.120 - 0.057	9.18	7.14	0.250	77.45 €	88.93 €
PSG1.25-42S	PSG1.25-42SL	42	52.50	55.00	10	30	0.122 - 0.055	9.64	7.50	0.270	78.02 €	89.63 €
PSG1.25-45S	PSG1.25-45SL	45	56.25	58.75	10	30	0.122 - 0.055	10.33	8.04	0.301	79.16 €	90.89 €

Dimensions in mm

Module 1.25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
S/steel303 S/steel 316 Teeth Pitch External Bore Boss						(mm)	S/steel 303 S/steel316 (kg)		S/steel303 S/steel 316
PSG1.25-48S PSG1.25-48SL	48	60,00	62,50	10	40	0,122 - 0,055	11,02 8,57	0,390	79,80 € 91,62 €
PSG1.25-50S PSG1.25-50SL	50	62,50	65,00	10	40	0,122 - 0,055	13,61 10,59	0,414	88,09 € 101,16 €
PSG1.25-52S PSG1.25-52SL	52	65,00	67,50	10	40	0,122 - 0,055	14,16 11,01	0,439	90,69 € 104,16 €
PSG1.25-55S PSG1.25-55SL	55	68,75	71,25	10	40	0,122 - 0,055	14,97 11,65	0,478	94,52 € 108,50 €
PSG1.25-58S PSG1.25-58SL	58	72,50	75,00	10	40	0,122 - 0,055	15,79 12,28	0,520	97,38 € 111,79 €
PSG1.25-60S PSG1.25-60SL	60	75,00	77,50	10	50	0,122 - 0,055	19,44 15,12	0,619	99,61 € 114,37 €
PSG1.25-62S PSG1.25-62SL	62	77,50	80,00	10	50	0,122 - 0,055	20,09 15,62	0,649	102,88 € 118,16 €
PSG1.25-65S PSG1.25-65SL	65	81,25	83,75	10	50	0,123 - 0,053	21,06 16,38	0,696	110,24 € 126,60 €
PSG1.25-68S PSG1.25-68SL	68	85,00	87,50	10	50	0,123 - 0,053	22,03 17,14	0,745	115,93 € 133,13 €
PSG1.25-70S PSG1.25-70SL	70	87,50	90,00	10	50	0,123 - 0,053	22,68 17,64	0,778	118,35 € 135,87 €
PSG1.25-72S PSG1.25-72SL	72	90,00	92,50	10	50	0,123 - 0,053	23,33 18,14	0,813	120,89 € 138,82 €
PSG1.25-75S PSG1.25-75SL	75	93,75	96,25	10	60	0,123 - 0,053	24,30 18,90	0,953	128,97 € 148,07 €
PSG1.25-78S PSG1.25-78SL	78	97,50	100,00	10	60	0,123 - 0,053	25,27 19,66	1,009	130,89 € 150,31 €
PSG1.25-80S PSG1.25-80SL	80	100,00	102,50	10	60	0,138 - 0,064	33,18 25,81	1,048	133,57 € 153,39 €
PSG1.25-82S PSG1.25-82SL	82	102,50	105,00	10	60	0,138 - 0,064	34,01 26,45	1,088	135,50 € 155,51 €
PSG1.25-85S PSG1.25-85SL	85	106,25	108,75	10	60	0,138 - 0,064	35,25 27,42	1,149	138,38 € 158,88 €
PSG1.25-90S PSG1.25-90SL	90	112,50	115,00	10	65	0,138 - 0,064	37,33 29,03	1,305	142,81 € 164,02 €
PSG1.25-95S PSG1.25-95SL	95	118,75	121,25	10	65	0,138 - 0,064	39,40 30,64	1,418	158,13 € 181,55 €
PSG1.25-100S PSG1.25-100SL	100	125,00	127,50	14	65	0,140 - 0,062	50,00 38,89	1,523	160,21 € 183,98 €
PSG1.25-110S PSG1.25-110SL	110	137,50	140,00	14	70	0,140 - 0,062	52,51 40,84	1,833	200,61 € 230,32 €
PSG1.25-120S PSG1.25-120SL	120	150,00	152,50	14	70	0,140 - 0,062	55,01 42,78	2,114	226,85 € 260,47 €

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%

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

- Grade and tolerances measured before heat treatment.

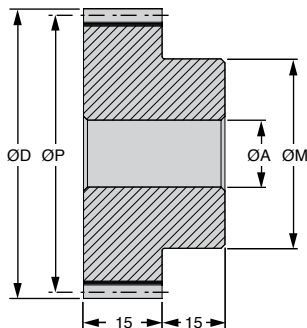
Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened	Standard	Standard	hardened
PSG1.5-18	PSG1.5-18H	18	27,0	30,0	6	22	0,128 - 0,052	5,49	20,13	0,105	41,03 €	67,72 €
PSG1.5-19	PSG1.5-19H	19	28,5	31,5	6	22	0,128 - 0,052	5,79	21,24	0,112	42,60 €	70,29 €
PSG1.5-20	PSG1.5-20H	20	30,0	33,0	6	22	0,128 - 0,052	7,71	28,28	0,120	44,72 €	73,84 €
PSG1.5-21	PSG1.5-21H	21	31,5	34,5	8	25	0,129 - 0,051	8,10	29,69	0,137	45,09 €	74,44 €
PSG1.5-22	PSG1.5-22H	22	33,0	36,0	8	25	0,129 - 0,051	8,48	31,10	0,145	45,64 €	75,30 €
PSG1.5-23	PSG1.5-23H	23	34,5	37,5	8	25	0,129 - 0,051	8,87	32,52	0,155	46,44 €	76,68 €
PSG1.5-24	PSG1.5-24H	24	36,0	39,0	8	25	0,129 - 0,051	9,25	33,93	0,164	46,89 €	77,40 €
PSG1.5-25	PSG1.5-25H	25	37,5	40,5	8	25	0,129 - 0,051	9,64	35,34	0,174	49,36 €	81,43 €
PSG1.5-26	PSG1.5-26H	26	39,0	42,0	8	25	0,129 - 0,051	11,79	38,88	0,185	51,67 €	85,29 €
PSG1.5-27	PSG1.5-27H	27	40,5	43,5	8	25	0,129 - 0,051	12,25	40,38	0,196	53,33 €	87,96 €
PSG1.5-28	PSG1.5-28H	28	42,0	45,0	8	25	0,129 - 0,051	12,70	41,87	0,207	54,82 €	90,49 €
PSG1.5-29	PSG1.5-29H	29	43,5	46,5	10	35	0,129 - 0,051	13,15	43,37	0,268	55,68 €	91,91 €
PSG1.5-30	PSG1.5-30H	30	45,0	48,0	10	35	0,129 - 0,051	14,97	44,58	0,280	57,34 €	94,64 €
PSG1.5-32	PSG1.5-32H	32	48,0	51,0	10	35	0,129 - 0,051	15,97	47,55	0,306	59,29 €	97,90 €
PSG1.5-35	PSG1.5-35H	35	52,5	55,5	10	35	0,171 - 0,069	17,46	52,01	0,347	61,20 €	100,97 €
PSG1.5-38	PSG1.5-38H	38	57,0	60,0	12	45	0,171 - 0,069	18,96	56,47	0,458	67,03 €	110,65 €
PSG1.5-40	PSG1.5-40H	40	60,0	63,0	12	45	0,171 - 0,069	25,50	66,12	0,490	69,72 €	115,07 €
PSG1.5-42	PSG1.5-42H	42	63,0	66,0	12	45	0,171 - 0,069	26,78	69,42	0,524	70,03 €	115,64 €
PSG1.5-45	PSG1.5-45H	45	67,5	70,5	12	45	0,171 - 0,069	28,69	74,38	0,578	71,57 €	118,11 €
PSG1.5-48	PSG1.5-48H	48	72,0	75,0	12	45	0,171 - 0,069	30,60	79,34	0,636	76,45 €	126,18 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened		Standard	hardened
PSG1.5-50	PSG1.5-50H	50	75,0	78,0	14	55	0,171 - 0,069	37,80	89,68	0,760	85,47 €	141,06 €
PSG1.5-52	PSG1.5-52H	52	78,0	81,0	14	55	0,171 - 0,069	39,31	93,27	0,802	89,83 €	148,21 €
PSG1.5-55	PSG1.5-55H	55	82,5	85,5	14	55	0,173 - 0,067	41,58	98,65	0,868	92,06 €	151,97 €
PSG1.5-58	PSG1.5-58H	58	87,0	90,0	14	55	0,173 - 0,067	43,85	104,03	0,939	94,16 €	155,44 €
PSG1.5-60	PSG1.5-60H	60	90,0	93,0	14	55	0,173 - 0,067	53,98	112,05	0,987	95,04 €	156,88 €
PSG1.5-62	PSG1.5-62H	62	93,0	96,0	14	55	0,173 - 0,067	55,78	115,79	1,038	96,93 €	159,99 €
PSG1.5-65	PSG1.5-65H	65	97,5	100,5	14	55	0,173 - 0,067	58,48	121,39	1,117	100,60 €	166,00 €
PSG1.5-68	PSG1.5-68H	68	102,0	105,0	16	65	0,173 - 0,067	61,18	127,00	1,300	106,67 €	176,09 €
PSG1.5-70	PSG1.5-70H	70	105,0	108,0	16	65	0,173 - 0,067	62,98	130,73	1,357	110,54 €	182,39 €
PSG1.5-72	PSG1.5-72H	72	108,0	111,0	16	65	0,173 - 0,067	64,78	134,47	1,416	116,86 €	192,79 €
PSG1.5-75	PSG1.5-75H	75	112,5	115,5	16	65	0,173 - 0,067	67,48	140,07	1,507	124,55 €	205,56 €
PSG1.5-78	PSG1.5-78H	78	117,0	120,0	16	65	0,173 - 0,067	70,17	145,67	1,602	131,23 €	216,63 €
PSG1.5-80	PSG1.5-80H	80	120,0	123,0	16	65	0,173 - 0,067	92,13	156,66	1,668	136,14 €	224,64 €
PSG1.5-82	PSG1.5-82H	82	123,0	126,0	16	65	0,175 - 0,065	94,44	160,57	1,735	142,37 €	234,90 €

Dimensions in mm

Module
1.5

Spur gear ▶ S/Steel 303

▶ S/Steel 316



- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Material :

Stainless steel 303

Stainless steel 316

- Teeth profile conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



Quality grade 7e25

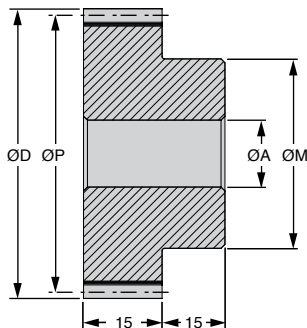
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316	(kg)	S/steel303	S/steel 316
PSG1.5-18S	PSG1.5-18SL	18	27,0	30,0	6	22	0,128 - 0,052	3,29	2,56	0,107	55,40 €	63,64 €
PSG1.5-19S	PSG1.5-19SL	19	28,5	31,5	6	22	0,128 - 0,052	3,48	2,70	0,114	57,48 €	65,98 €
PSG1.5-20S	PSG1.5-20SL	20	30,0	33,0	6	22	0,128 - 0,052	4,63	3,60	0,123	60,38 €	69,35 €
PSG1.5-21S	PSG1.5-21SL	21	31,5	34,5	8	25	0,129 - 0,051	4,86	3,78	0,139	60,92 €	69,95 €
PSG1.5-22S	PSG1.5-22SL	22	33,0	36,0	8	25	0,129 - 0,051	5,09	3,96	0,148	61,64 €	70,75 €
PSG1.5-23S	PSG1.5-23SL	23	34,5	37,5	8	25	0,129 - 0,051	5,32	4,14	0,158	62,71 €	70,75 €
PSG1.5-24S	PSG1.5-24SL	24	36,0	39,0	8	25	0,129 - 0,051	5,55	4,32	0,168	63,33 €	72,70 €
PSG1.5-25S	PSG1.5-25SL	25	37,5	40,5	8	25	0,129 - 0,051	5,78	4,50	0,178	66,60 €	76,45 €
PSG1.5-26S	PSG1.5-26SL	26	39,0	42,0	8	25	0,129 - 0,051	7,08	5,50	0,189	69,80 €	80,12 €
PSG1.5-27S	PSG1.5-27SL	27	40,5	43,5	8	25	0,129 - 0,051	7,35	5,72	0,200	71,97 €	82,63 €
PSG1.5-28S	PSG1.5-28SL	28	42,0	45,0	8	25	0,129 - 0,051	7,62	5,93	0,211	73,99 €	84,95 €
PSG1.5-29S	PSG1.5-29SL	29	43,5	46,5	10	35	0,129 - 0,051	7,89	6,14	0,273	75,18 €	86,29 €
PSG1.5-30S	PSG1.5-30SL	30	45,0	48,0	10	35	0,129 - 0,051	8,98	6,99	0,285	77,42 €	88,93 €
PSG1.5-32S	PSG1.5-32SL	32	48,0	51,0	10	35	0,129 - 0,051	9,58	7,45	0,311	80,06 €	91,94 €
PSG1.5-35S	PSG1.5-35SL	35	52,5	55,5	10	35	0,171 - 0,069	10,48	8,15	0,354	82,63 €	94,89 €
PSG1.5-38S	PSG1.5-38SL	38	57,0	60,0	12	45	0,171 - 0,069	11,38	8,85	0,467	90,55 €	103,95 €
PSG1.5-40S	PSG1.5-40SL	40	60,0	63,0	12	45	0,171 - 0,069	15,30	11,90	0,500	94,14 €	108,10 €
PSG1.5-42S	PSG1.5-42SL	42	63,0	66,0	12	45	0,171 - 0,069	16,07	12,50	0,534	94,60 €	108,62 €
PSG1.5-45S	PSG1.5-45SL	45	67,5	70,5	12	45	0,171 - 0,069	17,21	13,39	0,589	96,63 €	110,96 €
PSG1.5-48S	PSG1.5-48SL	48	72,0	75,0	12	45	0,171 - 0,069	18,36	14,28	0,648	103,26 €	118,54 €

Dimensions in mm

Module 1.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
S/steel303 S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303 S/steel316 (kg)	S/steel303 S/steel 316	
PSG1.5-50S PSG1.5-50SL	50	75,0	78,0	14	55	0,171 - 0,069	22,68 17,64	0,774	115,39 € 132,52 €
PSG1.5-52S PSG1.5-52SL	52	78,0	81,0	14	55	0,171 - 0,069	23,59 18,35	0,817	121,29 € 139,21 €
PSG1.5-55S PSG1.5-55SL	55	82,5	85,5	14	55	0,173 - 0,067	24,95 19,40	0,885	124,33 € 142,74 €
PSG1.5-58S PSG1.5-58SL	58	87,0	90,0	14	55	0,173 - 0,067	26,31 20,46	0,956	127,14 € 146,00 €
PSG1.5-60S PSG1.5-60SL	60	90,0	93,0	14	55	0,173 - 0,067	32,39 25,19	1,006	128,36 € 147,41 €
PSG1.5-62S PSG1.5-62SL	62	93,0	96,0	14	55	0,173 - 0,067	33,47 26,03	1,058	130,89 € 150,29 €
PSG1.5-65S PSG1.5-65SL	65	97,5	100,5	14	55	0,173 - 0,067	35,09 27,29	1,138	135,84 € 155,93 €
PSG1.5-68S PSG1.5-68SL	68	102,0	105,0	16	65	0,173 - 0,067	36,71 28,55	1,324	144,05 € 165,43 €
PSG1.5-70S PSG1.5-70SL	70	105,0	108,0	16	65	0,173 - 0,067	37,79 29,39	1,383	149,19 € 171,35 €
PSG1.5-72S PSG1.5-72SL	72	108,0	111,0	16	65	0,173 - 0,067	38,87 30,23	1,443	157,73 € 181,13 €
PSG1.5-75S PSG1.5-75SL	75	112,5	115,5	16	65	0,173 - 0,067	40,49 31,49	1,536	168,15 € 193,06 €
PSG1.5-78S PSG1.5-78SL	78	117,0	120,0	16	65	0,173 - 0,067	42,10 32,75	1,633	177,21 € 203,52 €
PSG1.5-80S PSG1.5-80SL	80	120,0	123,0	16	65	0,173 - 0,067	55,28 43,00	1,700	183,78 € 211,05 €
PSG1.5-82S PSG1.5-82SL	82	123,0	126,0	16	65	0,175 - 0,065	56,66 44,07	1,768	192,19 € 220,67 €

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%

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

- Grade and tolerances measured before heat treatment.

Quality grade 7e25

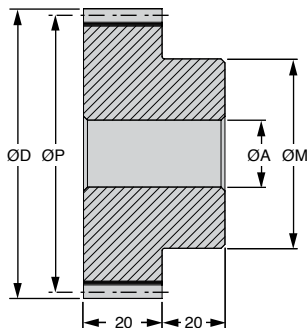
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened	Standard	Standard	hardened
PSG2.0-18	PSG2.0-18H	18	36	40	10	30	0,129 - 0,051	12,28	45,04	0,244	61,66 €	101,80 €
PSG2.0-19	PSG2.0-19H	19	38	42	10	30	0,129 - 0,051	12,97	47,54	0,262	63,07 €	104,11 €
PSG2.0-20	PSG2.0-20H	20	40	44	10	30	0,129 - 0,051	17,26	63,28	0,281	64,36 €	106,24 €
PSG2.0-21	PSG2.0-21H	21	42	46	12	35	0,129 - 0,051	18,12	66,44	0,330	66,07 €	109,06 €
PSG2.0-22	PSG2.0-22H	22	44	48	12	35	0,129 - 0,051	18,98	69,60	0,351	67,08 €	110,80 €
PSG2.0-23	PSG2.0-23H	23	46	50	12	35	0,129 - 0,051	19,85	72,77	0,373	68,53 €	113,10 €
PSG2.0-24	PSG2.0-24H	24	48	52	12	35	0,129 - 0,051	20,71	75,93	0,396	70,01 €	115,56 €
PSG2.0-25	PSG2.0-25H	25	50	54	12	35	0,129 - 0,051	21,57	79,09	0,420	73,96 €	122,02 €
PSG2.0-26	PSG2.0-26H	26	52	56	12	35	0,171 - 0,069	26,39	92,17	0,445	76,31 €	125,93 €
PSG2.0-27	PSG2.0-27H	27	54	58	12	35	0,171 - 0,069	27,41	95,71	0,471	79,01 €	130,44 €
PSG2.0-28	PSG2.0-28H	28	56	60	12	35	0,171 - 0,069	28,42	99,26	0,498	80,75 €	133,24 €

Dimensions in mm

Module 2.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened		Standard	hardened
PSG2.0-29	PSG2.0-29H	29	58	62	14	45	0,171 - 0,069	29,44	102,80	0,612	82,75 €	136,58 €
PSG2.0-30	PSG2.0-30H	30	60	64	14	45	0,171 - 0,069	33,50	105,67	0,640	84,60 €	139,56 €
PSG2.0-32	PSG2.0-32H	32	64	68	14	45	0,171 - 0,069	35,73	112,71	0,701	91,87 €	151,62 €
PSG2.0-35	PSG2.0-35H	35	70	74	14	45	0,171 - 0,069	39,08	123,28	0,799	101,39 €	167,35 €
PSG2.0-38	PSG2.0-38H	38	76	80	14	45	0,171 - 0,069	42,43	133,85	0,907	111,33 €	167,35 €
PSG2.0-40	PSG2.0-40H	40	80	84	16	55	0,171 - 0,069	57,07	156,72	1,092	116,00 €	183,70 €
PSG2.0-42	PSG2.0-42H	42	84	88	16	55	0,173 - 0,067	59,93	164,56	1,172	119,55 €	191,45 €
PSG2.0-45	PSG2.0-45H	45	90	94	16	55	0,173 - 0,067	64,21	176,31	1,300	124,80 €	197,33 €
PSG2.0-48	PSG2.0-48H	48	96	100	16	55	0,173 - 0,067	68,49	188,06	1,437	134,38 €	221,72 €
PSG2.0-50	PSG2.0-50H	50	100	104	20	65	0,173 - 0,067	84,59	212,58	1,646	143,86 €	237,39 €
PSG2.0-52	PSG2.0-52H	52	104	108	20	65	0,173 - 0,067	87,98	221,08	1,746	149,17 €	246,22 €
PSG2.0-55	PSG2.0-55H	55	110	114	20	65	0,173 - 0,067	93,05	233,84	1,903	168,48 €	278,01 €
PSG2.0-58	PSG2.0-58H	58	116	120	20	65	0,173 - 0,067	98,13	246,59	2,070	178,68 €	294,85 €
PSG2.0-60	PSG2.0-60H	60	120	124	20	65	0,173 - 0,067	120,80	265,61	2,186	183,19 €	302,35 €
PSG2.0-62	PSG2.0-62H	62	124	128	20	65	0,175 - 0,065	124,83	274,46	2,306	187,70 €	309,68 €

Dimensions in mm

Module
2.0

Spur gear ▶ S/Steel 303

▶ S/Steel 316



- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Material :

Stainless steel 303

Stainless steel 316

- Teeth profile conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



Quality grade 7e25

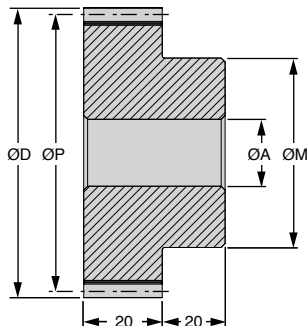
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316 (kg)	S/steel303	S/steel 316
PSG2.0-18S	PSG2.0-18SL	18	36	40	10	30	0,129 - 0,051	7,37	5,73	0,249	83,28 €
PSG2.0-19S	PSG2.0-19SL	19	38	42	10	30	0,129 - 0,051	7,78	6,05	0,267	85,15 €
PSG2.0-20S	PSG2.0-20SL	20	40	44	10	30	0,129 - 0,051	10,35	8,05	0,287	86,96 €
PSG2.0-21S	PSG2.0-21SL	21	42	46	12	35	0,129 - 0,051	10,87	8,46	0,337	89,26 €
PSG2.0-22S	PSG2.0-22SL	22	44	48	12	35	0,129 - 0,051	11,39	8,86	0,358	90,60 €
PSG2.0-23S	PSG2.0-23SL	23	46	50	12	35	0,129 - 0,051	11,91	9,26	0,380	92,54 €
PSG2.0-24S	PSG2.0-24SL	24	48	52	12	35	0,129 - 0,051	12,43	9,66	0,404	94,58 €
PSG2.0-25S	PSG2.0-25SL	25	50	54	12	35	0,129 - 0,051	12,94	10,07	0,428	99,84 €
PSG2.0-26S	PSG2.0-26SL	26	52	56	12	35	0,171 - 0,069	15,84	12,32	0,454	103,03 €
PSG2.0-27S	PSG2.0-27SL	27	54	58	12	35	0,171 - 0,069	16,44	12,79	0,480	106,67 €
PSG2.0-28S	PSG2.0-28SL	28	56	60	12	35	0,171 - 0,069	17,05	13,26	0,507	108,99 €

Dimensions in mm

Module 2.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
S/steel303	S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303	S/steel316 (kg)		S/steel303	S/steel 316
PSG2.0-29S	PSG2.0-29SL	29	58	62	14	45	0,171 - 0,069	17,66	13,74	0,623	111,76 €	128,29 €
PSG2.0-30S	PSG2.0-30SL	30	60	64	14	45	0,171 - 0,069	20,10	15,63	0,653	114,20 €	131,12 €
PSG2.0-32S	PSG2.0-32SL	32	64	68	14	45	0,171 - 0,069	21,44	16,68	0,714	124,05 €	142,43 €
PSG2.0-35S	PSG2.0-35SL	35	70	74	14	45	0,171 - 0,069	23,45	18,24	0,815	136,89 €	157,20 €
PSG2.0-38S	PSG2.0-38SL	38	76	80	14	45	0,171 - 0,069	25,46	19,80	0,924	150,29 €	111,33 €
PSG2.0-40S	PSG2.0-40SL	40	80	84	16	55	0,171 - 0,069	34,24	26,63	1,113	156,64 €	179,82 €
PSG2.0-42S	PSG2.0-42SL	42	84	88	16	55	0,173 - 0,067	35,96	27,97	1,194	161,44 €	185,36 €
PSG2.0-45S	PSG2.0-45SL	45	90	94	16	55	0,173 - 0,067	38,52	29,96	1,325	168,42 €	193,36 €
PSG2.0-48S	PSG2.0-48SL	48	96	100	16	55	0,173 - 0,067	41,09	31,96	1,464	181,40 €	208,30 €
PSG2.0-50S	PSG2.0-50SL	50	100	104	20	65	0,173 - 0,067	50,76	39,48	1,677	194,21 €	222,95 €
PSG2.0-52S	PSG2.0-52SL	52	104	108	20	65	0,173 - 0,067	52,79	41,06	1,779	201,40 €	231,33 €
PSG2.0-55S	PSG2.0-55SL	55	110	114	20	65	0,173 - 0,067	55,83	43,42	1,940	227,43 €	261,18 €
PSG2.0-58S	PSG2.0-58SL	58	116	120	20	65	0,173 - 0,067	58,88	45,79	2,109	241,20 €	276,95 €
PSG2.0-60S	PSG2.0-60SL	60	120	124	20	65	0,173 - 0,067	72,48	56,37	2,227	247,34 €	284,01 €
PSG2.0-62S	PSG2.0-62SL	62	124	128	20	65	0,175 - 0,065	74,90	58,25	2,350	253,36 €	290,89 €

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 :

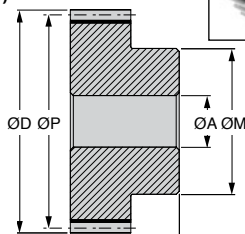
Pre-treated steel 35NCD6, 28HRC

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 (J59)

- Tapped hole

- Hole for dowel pin

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	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
Standard hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard hardened	Standard hardened	Standard hardened
PSG2.5-18 PSG2.5-18H	18	45.0	50.0	14	35	0.129 - 0.051	22.94 84.12	0.437	82.97 € 136.98 €
PSG2.5-19 PSG2.5-19H	19	47.5	52.5	14	35	0.129 - 0.051	24.22 88.80	0.472	85.24 € 140.63 €
PSG2.5-20 PSG2.5-20H	20	50.0	55.0	14	35	0.129 - 0.051	32.23 118.19	0.509	88.33 € 145.77 €
PSG2.5-21 PSG2.5-21H	21	52.5	57.5	14	35	0.171 - 0.069	33.85 124.10	0.548	90.49 € 149.29 €
PSG2.5-22 PSG2.5-22H	22	55.0	60.0	14	35	0.171 - 0.069	35.46 130.01	0.589	93.73 € 154.70 €
PSG2.5-23 PSG2.5-23H	23	57.5	62.5	16	45	0.171 - 0.069	37.07 135.92	0.737	96.09 € 158.57 €
PSG2.5-24 PSG2.5-24H	24	60.0	65.0	16	45	0.171 - 0.069	38.68 141.83	0.781	98.93 € 163.20 €
PSG2.5-25 PSG2.5-25H	25	62.5	67.5	16	45	0.171 - 0.069	40.29 147.74	0.828	104.27 € 172.08 €
PSG2.5-26 PSG2.5-26H	26	65.0	70.0	16	45	0.171 - 0.069	49.30 180.01	0.877	109.55 € 180.80 €
PSG2.5-27 PSG2.5-27H	27	67.5	72.5	16	45	0.171 - 0.069	51.20 186.94	0.927	111.89 € 184.62 €
PSG2.5-28 PSG2.5-28H	28	70.0	75.0	16	45	0.171 - 0.069	53.09 193.86	0.980	114.81 € 189.37 €
PSG2.5-29 PSG2.5-29H	29	72.5	77.5	18	55	0.171 - 0.069	54.99 200.78	1.168	118.54 € 195.64 €
PSG2.5-30 PSG2.5-30H	30	75.0	80.0	18	55	0.171 - 0.069	62.57 206.38	1.224	122.59 € 202.31 €
PSG2.5-32 PSG2.5-32H	32	80.0	85.0	18	55	0.171 - 0.069	66.74 220.14	1.342	130.01 € 214.56 €
PSG2.5-35 PSG2.5-35H	35	87.5	92.5	18	55	0.173 - 0.067	73.00 240.78	1.535	137.72 € 227.29 €
PSG2.5-38 PSG2.5-38H	38	95.0	100.0	20	70	0.173 - 0.067	79.26 261.42	2.010	151.41 € 249.82 €
PSG2.5-40 PSG2.5-40H	40	100.0	105.0	20	70	0.173 - 0.067	106.60 306.09	2.159	157.39 € 259.69 €
PSG2.5-42 PSG2.5-42H	42	105.0	110.0	20	70	0.173 - 0.067	111.93 321.40	2.316	163.62 € 270.03 €
PSG2.5-45 PSG2.5-45H	45	112.5	117.5	20	70	0.173 - 0.067	119.93 344.36	2.566	169.41 € 279.58 €
PSG2.5-48 PSG2.5-48H	48	120.0	125.0	20	70	0.173 - 0.067	127.92 367.31	2.833	181.49 € 299.50 €
PSG2.5-50 PSG2.5-50H	50	125.0	130.0	20	70	0.175 - 0.065	158.01 415.19	3.021	191.55 € 316.08 €

Dimensions in mm

Spur gear

S/Steel 303
S/Steel 316

Module
2.5

- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Material :

Stainless steel 303

Stainless steel 316

- Teeth profile conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%

Options

- Alternative bores (H7)

- Keyway conforming

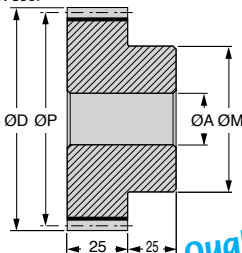
to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm
and are given as a guide only



Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
S/steel303 S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303 S/steel316 (kg)	S/steel303 S/steel 316	
PSG2.5-18S PSG2.5-18SL	18	45.0	50.0	14	35	0.129 - 0.051	13.77 10.71 0.445	112.03 €	128.67 €
PSG2.5-19S PSG2.5-19SL	19	47.5	52.5	14	35	0.129 - 0.051	14.53 11.30 0.481	115.05 €	132.14 €
PSG2.5-20S PSG2.5-20SL	20	50.0	55.0	14	35	0.129 - 0.051	19.34 15.04 0.519	119.29 €	136.96 €
PSG2.5-21S PSG2.5-21SL	21	52.5	57.5	14	35	0.171 - 0.069	20.31 15.79 0.559	122.16 €	140.24 €
PSG2.5-22S PSG2.5-22SL	22	55.0	60.0	14	35	0.171 - 0.069	21.27 16.55 0.600	126.53 €	145.29 €
PSG2.5-23S PSG2.5-23SL	23	57.5	62.5	16	45	0.171 - 0.069	22.24 17.30 0.751	129.71 €	148.99 €
PSG2.5-24S PSG2.5-24SL	24	60.0	65.0	16	45	0.171 - 0.069	23.21 18.05 0.796	133.53 €	153.36 €
PSG2.5-25S PSG2.5-25SL	25	62.5	67.5	16	45	0.171 - 0.069	24.18 18.80 0.844	140.80 €	161.66 €
PSG2.5-26S PSG2.5-26SL	26	65.0	70.0	16	45	0.171 - 0.069	29.58 23.01 0.894	147.94 €	169.84 €
PSG2.5-27S PSG2.5-27SL	27	67.5	72.5	16	45	0.171 - 0.069	30.72 23.89 0.945	151.02 €	173.42 €
PSG2.5-28S PSG2.5-28SL	28	70.0	75.0	16	45	0.171 - 0.069	31.85 24.78 0.999	154.98 €	177.96 €
PSG2.5-29S PSG2.5-29SL	29	72.5	77.5	18	55	0.171 - 0.069	32.99 25.66 1.190	160.07 €	183.75 €
PSG2.5-30S PSG2.5-30SL	30	75.0	80.0	18	55	0.171 - 0.069	37.54 29.20 1.247	165.51 €	190.06 €
PSG2.5-32S PSG2.5-32SL	32	80.0	85.0	18	55	0.171 - 0.069	40.05 31.15 1.368	175.50 €	201.54 €
PSG2.5-35S PSG2.5-35SL	35	87.5	92.5	18	55	0.173 - 0.067	43.80 34.07 1.564	185.95 €	213.52 €
PSG2.5-38S PSG2.5-38SL	38	95.0	100.0	20	70	0.173 - 0.067	47.55 36.99 2.048	204.39 €	234.69 €
PSG2.5-40S PSG2.5-40SL	40	100.0	105.0	20	70	0.173 - 0.067	63.96 49.75 2.200	212.46 €	243.93 €
PSG2.5-42S PSG2.5-42SL	42	105.0	110.0	20	70	0.173 - 0.067	67.16 52.24 2.360	220.93 €	253.67 €
PSG2.5-45S PSG2.5-45SL	45	112.5	117.5	20	70	0.173 - 0.067	71.96 55.97 2.615	228.73 €	262.64 €
PSG2.5-48S PSG2.5-48SL	48	120.0	125.0	20	70	0.173 - 0.067	76.75 59.70 2.887	245.02 €	281.34 €
PSG2.5-50S PSG2.5-50SL	50	125.0	130.0	20	70	0.175 - 0.065	94.81 73.74 3.079	258.62 €	296.92 €

Dimensions in mm

Module
3.0



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)

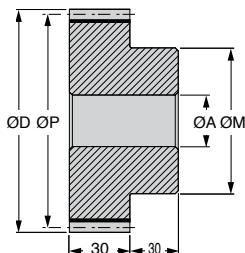
- Tapped hole

- Hole for dowel pin

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		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	hardened		Standard	hardened
PSG3.0-18	PSG3.0-18H	18	54	60	14	45	0,171 - 0,069	38,23	140,16	0,835	73,64 €	121,52 €
PSG3.0-19	PSG3.0-19H	19	57	63	14	45	0,171 - 0,069	40,35	147,95	0,896	76,40 €	126,12 €
PSG3.0-20	PSG3.0-20H	20	60	66	14	45	0,171 - 0,069	53,71	196,92	0,960	78,94 €	130,22 €
PSG3.0-21	PSG3.0-21H	21	63	69	16	55	0,171 - 0,069	56,39	206,77	1,190	81,51 €	134,49 €
PSG3.0-22	PSG3.0-22H	22	66	72	16	55	0,171 - 0,069	59,08	216,61	1,261	84,29 €	139,14 €
PSG3.0-23	PSG3.0-23H	23	69	75	16	55	0,171 - 0,069	61,76	226,46	1,335	86,98 €	143,58 €
PSG3.0-24	PSG3.0-24H	24	72	78	16	55	0,171 - 0,069	64,45	236,31	1,412	89,48 €	147,65 €
PSG3.0-25	PSG3.0-25H	25	75	81	16	55	0,171 - 0,069	67,13	246,15	1,493	94,91 €	156,61 €
PSG3.0-26	PSG3.0-26H	26	78	84	16	55	0,171 - 0,069	82,14	301,17	1,577	100,34 €	165,62 €
PSG3.0-27	PSG3.0-27H	27	81	87	16	55	0,173 - 0,067	85,30	312,76	1,664	102,77 €	169,59 €
PSG3.0-28	PSG3.0-28H	28	84	90	16	55	0,173 - 0,067	88,46	324,34	1,755	105,57 €	174,27 €
PSG3.0-29	PSG3.0-29H	29	87	93	18	70	0,173 - 0,067	91,62	335,93	2,171	109,92 €	181,40 €
PSG3.0-30	PSG3.0-30H	30	90	96	18	70	0,173 - 0,067	104,25	356,63	2,268	113,91 €	187,96 €
PSG3.0-32	PSG3.0-32H	32	96	102	18	70	0,173 - 0,067	111,20	380,40	2,473	122,19 €	201,65 €
PSG3.0-35	PSG3.0-35H	35	105	111	18	70	0,173 - 0,067	121,63	416,07	2,805	141,54 €	233,60 €
PSG3.0-38	PSG3.0-38H	38	114	120	18	70	0,173 - 0,067	132,05	451,73	3,167	151,94 €	250,69 €
PSG3.0-40	PSG3.0-40H	40	120	126	18	70	0,173 - 0,067	177,62	528,93	3,425	156,18 €	257,73 €

Dimensions in mm

Spur gear

S/Steel 303

S/Steel 316

Module

3.0

- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Material :

Stainless steel 303

Stainless steel 316

- Teeth profile conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%

Options

- Alternative bores (H7)

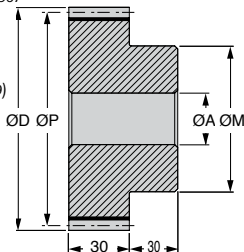
- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm
and are given as a guide only



Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
S/steel303 S/steel 316	Teeth	Pitch	External	Bore	Boss	(mm)	S/steel 303 S/steel316 (kg)	S/steel303 S/steel 316	
PSG3.0-18S PSG3.0-18SL	18	54	60	14	45	0.171 - 0.069	22.94 17.84	0.851	99.44 € 114.20 €
PSG3.0-19S PSG3.0-19SL	19	57	63	14	45	0.171 - 0.069	24.21 18.83	0.913	103.15 € 118.46 €
PSG3.0-20S PSG3.0-20SL	20	60	66	14	45	0.171 - 0.069	32.22 25.06	0.978	106.57 € 122.38 €
PSG3.0-21S PSG3.0-21SL	21	63	69	16	55	0.171 - 0.069	33.83 26.32	1.213	110.05 € 126.37 €
PSG3.0-22S PSG3.0-22SL	22	66	72	16	55	0.171 - 0.069	35.45 27.57	1.285	113.83 € 130.68 €
PSG3.0-23S PSG3.0-23SL	23	69	75	16	55	0.171 - 0.069	37.06 28.82	1.360	117.47 € 134.87 €
PSG3.0-24S PSG3.0-24SL	24	72	78	16	55	0.171 - 0.069	38.67 30.08	1.439	120.81 € 138.72 €
PSG3.0-25S PSG3.0-25SL	25	75	81	16	55	0.171 - 0.069	40.28 31.33	1.521	128.14 € 147.12 €
PSG3.0-26S PSG3.0-26SL	26	78	84	16	55	0.171 - 0.069	49.28 38.33	1.607	135.50 € 155.59 €
PSG3.0-27S PSG3.0-27SL	27	81	87	16	55	0.173 - 0.067	51.18 39.81	1.696	138.76 € 159.28 €
PSG3.0-28S PSG3.0-28SL	28	84	90	16	55	0.173 - 0.067	53.07 41.28	1.789	142.56 € 163.70 €
PSG3.0-29S PSG3.0-29SL	29	87	93	18	70	0.173 - 0.067	54.97 42.75	2.212	148.42 € 170.41 €
PSG3.0-30S PSG3.0-30SL	30	90	96	18	70	0.173 - 0.067	62.55 48.65	2.312	153.76 € 176.57 €
PSG3.0-32S PSG3.0-32SL	32	96	102	18	70	0.173 - 0.067	66.72 51.89	2.520	165.01 € 189.43 €
PSG3.0-35S PSG3.0-35SL	35	105	111	18	70	0.173 - 0.067	72.98 56.76	2.859	191.12 € 219.43 €
PSG3.0-38S PSG3.0-38SL	38	114	120	18	70	0.173 - 0.067	79.23 61.62	3.228	205.09 € 235.50 €
PSG3.0-40S PSG3.0-40SL	40	120	126	18	70	0.173 - 0.067	106.57 82.89	3.491	210.87 € 242.13 €

Dimensions in mm

Module
0.5



Spur gear
Delrin or Peek



- **Quality grade 8e DIN 58405 (AGMA Q9)**
- **Material :**
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

Quality grade 8e

DISCOUNTS

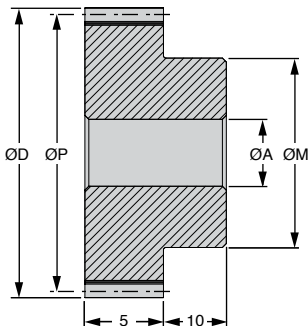
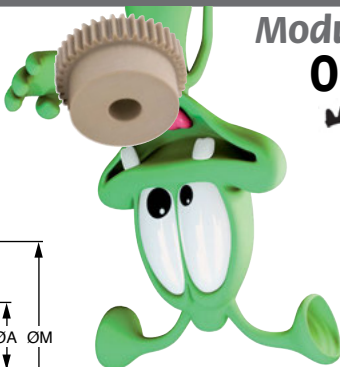
Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each	1 to 5
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin	Delrin	Peek
Peek							Peek	(kg)		
PSGO.5-20DL	20	10.0	11.0	4	8	0.076 - 0.037	0.20 0.27	0.001	24,16 €	
PSGO.5-21DL	21	10.5	11.5	4	8	0.077 - 0.036	0.21 0.29	0.001	24,41 €	
PSGO.5-22DL	22	11.0	12.0	4	8	0.077 - 0.036	0.23 0.31	0.001	24,10 €	
PSGO.5-23DL	23	11.5	12.5	4	8	0.077 - 0.036	0.24 0.33	0.001	25,00 €	
PSGO.5-24DL	24	12.0	13.0	5	10	0.077 - 0.036	0.26 0.35	0.001	25,28 €	
PSGO.5-25DL	25	12.5	13.5	5	10	0.087 - 0.042	0.27 0.37	0.002	25,55 €	
PSGO.5-26DL	26	13.0	14.0	5	10	0.087 - 0.042	0.29 0.39	0.002	25,92 €	
PSGO.5-27DL	27	13.5	14.5	5	10	0.087 - 0.042	0.30 0.41	0.002	26,20 €	
PSGO.5-28DL	28	14.0	15.0	5	10	0.087 - 0.042	0.31 0.43	0.002	26,45 €	
PSGO.5-29DL	29	14.5	15.5	6	13	0.087 - 0.042	0.33 0.45	0.002	26,64 €	
PSGO.5-30DL	30	15.0	16.0	6	13	0.087 - 0.042	0.35 0.47	0.003	26,73 €	
PSGO.5-32DL	32	16.0	17.0	6	13	0.087 - 0.042	0.37 0.51	0.003	27,40 €	
PSGO.5-35DL	35	17.5	18.5	6	13	0.087 - 0.042	0.42 0.57	0.003	28,31 €	
PSGO.5-38DL	38	19.0	20.0	6	17	0.089 - 0.041	0.46 0.63	0.005	29,16 €	
PSGO.5-40DL	40	20.0	21.0	6	17	0.089 - 0.041	0.50 0.68	0.005	29,81 €	
PSGO.5-42DL	42	21.0	22.0	6	17	0.089 - 0.041	0.53 0.72	0.005	30,37 €	
PSGO.5-45DL	45	22.5	23.5	6	17	0.089 - 0.041	0.57 0.78	0.005	31,29 €	
PSGO.5-48DL	48	24.0	25.0	6	17	0.089 - 0.041	0.62 0.84	0.006	32,50 €	
PSGO.5-50DL	50	25.0	26.0	6	17	0.089 - 0.041	0.65 0.89	0.006	32,88 €	
PSGO.5-52DL	52	26.0	27.0	6	17	0.097 - 0.046	0.68 0.93	0.006	33,36 €	
PSGO.5-55DL	55	27.5	28.5	6	17	0.097 - 0.046	0.73 0.99	0.007	34,03 €	
PSGO.5-58DL	58	29.0	30.0	6	17	0.097 - 0.046	0.78 1.06	0.007	34,73 €	
PSGO.5-60DL	60	30.0	31.0	6	17	0.097 - 0.046	0.81 1.10	0.008	35,08 €	

Dimensions in mm

On request

Module 0.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each	1 to 5	
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin	Delrin	Peek	
PSG0.5-62DL	PSG0.5-62PK	62	31,0	32,0	8	20	0,098 - 0,044	0,84	1,14	0,009	35,55 €
PSG0.5-65DL	PSG0.5-65PK	65	32,5	33,5	8	20	0,098 - 0,044	0,88	1,21	0,009	36,32 €
PSG0.5-68DL	PSG0.5-68PK	68	34,0	35,0	8	20	0,098 - 0,044	0,93	1,27	0,010	36,54 €
PSG0.5-70DL	PSG0.5-70PK	70	35,0	36,0	8	20	0,098 - 0,044	0,96	1,31	0,010	36,95 €
PSG0.5-72DL	PSG0.5-72PK	72	36,0	37,0	8	20	0,098 - 0,044	0,99	1,35	0,010	37,32 €
PSG0.5-75DL	PSG0.5-75PK	75	37,5	38,5	8	20	0,098 - 0,044	1,04	1,42	0,011	37,58 €
PSG0.5-78DL	PSG0.5-78PK	78	39,0	40,0	8	20	0,098 - 0,044	1,09	1,48	0,012	38,11 €
PSG0.5-80DL	PSG0.5-80PK	80	40,0	41,0	8	25	0,098 - 0,044	1,12	1,53	0,015	38,38 €
PSG0.5-82DL	PSG0.5-82PK	82	41,0	42,0	8	25	0,098 - 0,044	1,15	1,57	0,015	38,84 €
PSG0.5-85DL	PSG0.5-85PK	85	42,5	43,5	8	25	0,098 - 0,044	1,20	1,63	0,016	39,21 €
PSG0.5-90DL	PSG0.5-90PK	90	45,0	46,0	8	25	0,098 - 0,044	1,28	1,74	0,017	39,85 €
PSG0.5-100DL	PSG0.5-100PK	100	50,0	51,0	10	30	0,098 - 0,044	1,43	1,95	0,022	40,47 €
PSG0.5-120DL	PSG0.5-120PK	120	60,0	61,0	10	35	0,111 - 0,049	1,74	2,38	0,032	49,03 €
PSG0.5-130DL	PSG0.5-130PK	130	65,0	66,0	10	35	0,111 - 0,049	1,90	2,59	0,035	56,25 €
PSG0.5-140DL	PSG0.5-140PK	140	70,0	71,0	10	35	0,111 - 0,049	2,06	2,81	0,039	58,62 €
PSG0.5-150DL	PSG0.5-150PK	150	75,0	76,0	10	40	0,111 - 0,049	2,22	3,02	0,047	63,81 €
PSG0.5-200DL	PSG0.5-200PK	200	100,0	101,0	14	50	0,113 - 0,047	3,02	4,12	0,080	78,62 €
PSG0.5-250DL	PSG0.5-250PK	250	125,0	126,0	16	60	0,136 - 0,062	3,83	5,22	0,122	94,36 €

On request

Dimensions in mm

On request

Module

0.8



Spur gear

Delrin or Peek



- Quality grade 8e DIN 58405 (AGMA Q9)

- Material :

Delrin POM (White)

PEEK GF30® (Light brown)

- Teeth conform to DIN 867

- Tooth thickness conforms to DIN 58405

- Efficiency approx 98%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

DISCOUNTS

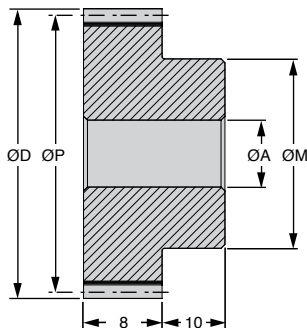
Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Quality grade 8e

Part number	Delrin	Peek	Z	OP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each	1 to 5
			Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin	1 to 5	Peek
PSG0.8-18DL	PSG0.8-18PK	18	14.4	16.0	5	11	0.096 - 0.047	0.59	0.70	0.003	23,61	€
PSG0.8-19DL	PSG0.8-19PK	19	15.2	16.8	5	11	0.096 - 0.047	0.64	0.78	0.003	23,99	€
PSG0.8-20DL	PSG0.8-20PK	20	16.0	17.6	5	11	0.096 - 0.047	0.69	0.88	0.003	24,36	€
PSG0.8-21DL	PSG0.8-21PK	21	16.8	18.4	5	12	0.096 - 0.047	0.74	0.98	0.004	25,10	€
PSG0.8-22DL	PSG0.8-22PK	22	17.6	19.2	5	12	0.096 - 0.047	0.79	1.08	0.004	25,47	€
PSG0.8-23DL	PSG0.8-23PK	23	18.4	20.0	5	12	0.097 - 0.046	0.84	1.15	0.004	25,58	€
PSG0.8-24DL	PSG0.8-24PK	24	19.2	20.8	6	14	0.097 - 0.046	0.89	1.22	0.005	25,71	€
PSG0.8-25DL	PSG0.8-25PK	25	20.0	21.6	6	14	0.097 - 0.046	0.95	1.29	0.005	26,77	€
PSG0.8-26DL	PSG0.8-26PK	26	20.8	22.4	6	14	0.097 - 0.046	1.00	1.36	0.005	27,72	€
PSG0.8-27DL	PSG0.8-27PK	27	21.6	23.2	6	14	0.097 - 0.046	1.05	1.43	0.006	28,31	€
PSG0.8-28DL	PSG0.8-28PK	28	22.4	24.0	8	18	0.097 - 0.046	1.10	1.50	0.007	28,95	€
PSG0.8-29DL	PSG0.8-29PK	29	23.2	24.8	8	18	0.097 - 0.046	1.16	1.58	0.007	29,71	€
PSG0.8-30DL	PSG0.8-30PK	30	24.0	25.6	8	18	0.097 - 0.046	1.21	1.65	0.007	30,19	€
PSG0.8-32DL	PSG0.8-32PK	32	25.6	27.2	8	18	0.108 - 0.052	1.31	1.79	0.008	31,01	€
PSG0.8-35DL	PSG0.8-35PK	35	28.0	29.6	10	20	0.108 - 0.052	1.47	2.00	0.009	32,08	€
PSG0.8-38DL	PSG0.8-38PK	38	30.4	32.0	10	20	0.109 - 0.050	1.63	2.22	0.011	33,34	€
PSG0.8-40DL	PSG0.8-40PK	40	32.0	33.6	10	20	0.109 - 0.050	1.74	2.37	0.011	34,58	€
PSG0.8-42DL	PSG0.8-42PK	42	33.6	35.2	10	20	0.109 - 0.050	1.84	2.51	0.012	34,84	€
PSG0.8-45DL	PSG0.8-45PK	45	36.0	37.6	10	20	0.109 - 0.050	2.01	2.73	0.014	35,34	€
PSG0.8-48DL	PSG0.8-48PK	48	38.4	40.0	10	30	0.109 - 0.050	2.17	2.96	0.021	35,64	€
PSG0.8-50DL	PSG0.8-50PK	50	40.0	41.6	10	30	0.109 - 0.050	2.28	3.11	0.022	39,36	€
PSG0.8-52DL	PSG0.8-52PK	52	41.6	43.2	10	30	0.109 - 0.050	2.39	3.26	0.023	40,52	€
PSG0.8-55DL	PSG0.8-55PK	55	44.0	45.6	10	30	0.109 - 0.050	2.55	3.48	0.025	42,19	€
PSG0.8-58DL	PSG0.8-58PK	58	46.4	48.0	10	30	0.109 - 0.050	2.72	3.71	0.027	43,47	€

Dimensions in mm

On request



DISCOUNTS

Qty	1+	6+	19+	50+
Disc. List	-5%	-10%	-10%	On request

Part number	Delrin	Peek	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each	1 to 5
			Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Peek	Delrin	Peek
PSG0.8-60DL	PSG0.8-60PK	60	48,0	49,6	10	40	0,109 - 0,050	2,83	3,86	0,036	44,47 €	
PSG0.8-62DL	PSG0.8-62PK	62	49,6	51,2	10	40	0,109 - 0,050	2,94	4,01	0,037	45,95 €	
PSG0.8-65DL	PSG0.8-65PK	65	52,0	53,6	10	40	0,122 - 0,055	3,10	4,22	0,040	49,22 €	
PSG0.8-68DL	PSG0.8-68PK	68	54,4	56,0	10	40	0,122 - 0,055	3,26	4,45	0,042	51,77 €	
PSG0.8-70DL	PSG0.8-70PK	70	56,0	57,6	10	40	0,122 - 0,055	3,37	4,59	0,043	52,85 €	
PSG0.8-72DL	PSG0.8-72PK	72	57,6	59,2	10	40	0,122 - 0,055	3,48	4,74	0,045	54,00 €	
PSG0.8-75DL	PSG0.8-75PK	75	60,0	61,6	10	50	0,122 - 0,055	3,64	4,97	0,057	57,60 €	
PSG0.8-78DL	PSG0.8-78PK	78	62,4	64,0	10	50	0,122 - 0,055	3,81	5,19	0,060	58,47 €	
PSG0.8-80DL	PSG0.8-80PK	80	64,0	65,6	10	50	0,122 - 0,055	3,92	5,35	0,062	59,66 €	
PSG0.8-82DL	PSG0.8-82PK	82	65,6	67,2	10	50	0,122 - 0,055	4,03	5,50	0,064	60,53 €	
PSG0.8-85DL	PSG0.8-85PK	85	68,0	69,6	10	50	0,122 - 0,055	4,20	5,72	0,066	61,79 €	
PSG0.8-90DL	PSG0.8-90PK	90	72,0	73,6	10	65	0,122 - 0,055	4,47	6,10	0,090	63,81 €	
PSG0.8-95DL	PSG0.8-95PK	95	76,0	77,6	10	65	0,122 - 0,055	4,75	6,48	0,096	70,63 €	
PSG0.8-100DL	PSG0.8-100PK	100	80,0	81,6	14	65	0,122 - 0,055	5,02	6,85	0,099	71,57 €	
PSG0.8-110DL	PSG0.8-110PK	110	88,0	89,6	14	70	0,123 - 0,053	5,56	7,59	0,119	89,63 €	
PSG0.8-120DL	PSG0.8-120PK	120	96,0	97,6	14	70	0,123 - 0,053	6,11	8,33	0,132	101,31 €	

Dimensions in mm

On request

Module 1.0



Spur gear Delrin or Peek



- **Quality grade 8e25 DIN 3961 (AGMA Q9)**
- **Material :**
Delrin POM (White)
PEEK GF30® (Light brown)
- **Teeth conform to DIN 867**
- **Tooth thickness conforms to DIN 3967**
- **Efficiency approx 98%**

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

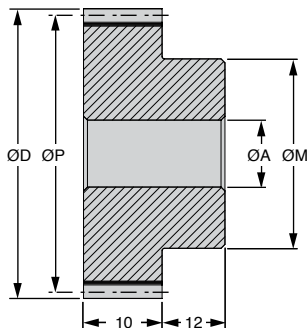
Quality grade 8e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight	Price each	1 to 5
Delrin	Peek	Teeth	Pitch	External	Bore	Boss		Delrin	Peek	Delrin (kg)		
PSG1.0-18DL	PSG1.0-18PK	18	18	20	5	15	0,127 - 0,053	0,92	1,04	0,006	25,06 €	On request
PSG1.0-19DL	PSG1.0-19PK	19	19	21	5	15	0,128 - 0,052	1,03	1,17	0,006	25,44 €	
PSG1.0-20DL	PSG1.0-20PK	20	20	22	5	15	0,128 - 0,052	1,16	1,31	0,007	26,22 €	
PSG1.0-21DL	PSG1.0-21PK	21	21	23	5	15	0,128 - 0,052	1,29	1,46	0,007	26,40 €	
PSG1.0-22DL	PSG1.0-22PK	22	22	24	5	15	0,128 - 0,052	1,43	1,61	0,008	26,79 €	
PSG1.0-23DL	PSG1.0-23PK	23	23	25	5	15	0,128 - 0,052	1,54	1,78	0,008	26,92 €	
PSG1.0-24DL	PSG1.0-24PK	24	24	26	6	20	0,128 - 0,052	1,63	1,96	0,011	27,08 €	
PSG1.0-25DL	PSG1.0-25PK	25	25	27	6	20	0,128 - 0,052	1,73	2,15	0,011	28,19 €	
PSG1.0-26DL	PSG1.0-26PK	26	26	28	6	20	0,128 - 0,052	1,83	2,34	0,012	29,21 €	
PSG1.0-27DL	PSG1.0-27PK	27	27	29	6	20	0,128 - 0,052	1,92	2,55	0,012	29,81 €	
PSG1.0-28DL	PSG1.0-28PK	28	28	30	6	20	0,128 - 0,052	2,02	2,75	0,013	30,50 €	
PSG1.0-29DL	PSG1.0-29PK	29	29	31	8	25	0,128 - 0,052	2,11	2,88	0,016	31,29 €	
PSG1.0-30DL	PSG1.0-30PK	30	30	32	8	25	0,128 - 0,052	2,21	3,02	0,017	31,80 €	
PSG1.0-32DL	PSG1.0-32PK	32	32	34	8	25	0,129 - 0,051	2,40	3,27	0,018	32,63 €	
PSG1.0-35DL	PSG1.0-35PK	35	35	37	8	25	0,129 - 0,051	2,68	3,66	0,020	33,73 €	
PSG1.0-38DL	PSG1.0-38PK	38	38	40	10	34	0,129 - 0,051	2,98	4,06	0,029	35,08 €	
PSG1.0-40DL	PSG1.0-40PK	40	40	42	10	34	0,129 - 0,051	3,18	4,33	0,030	36,38 €	
PSG1.0-42DL	PSG1.0-42PK	42	42	44	10	34	0,129 - 0,051	3,37	4,59	0,032	36,70 €	
PSG1.0-45DL	PSG1.0-45PK	45	45	47	10	34	0,129 - 0,051	3,66	4,99	0,035	37,20 €	
PSG1.0-48DL	PSG1.0-48PK	48	48	50	10	34	0,129 - 0,051	3,96	5,40	0,038	37,50 €	
PSG1.0-50DL	PSG1.0-50PK	50	50	52	10	34	0,129 - 0,051	4,17	5,68	0,040	41,42 €	

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Delrin	Part number Peek	Z Teeth	OP Pitch	OD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peek	Weight Delrin (kg)	Weight Peek (kg)	Price each 1 to 5 Delrin	Price each 1 to 5 Peek
PSG1.0-52DL	PSG1.0-52PK	52	52	54	10	40	0,171 - 0,069	4,36	5,95	0,049	0,049	42,66 €	42,66 €
PSG1.0-55DL	PSG1.0-55PK	55	55	57	10	40	0,171 - 0,069	4,66	6,36	0,052	0,052	44,42 €	44,42 €
PSG1.0-58DL	PSG1.0-58PK	58	58	60	10	40	0,171 - 0,069	4,97	6,77	0,056	0,056	45,75 €	45,75 €
PSG1.0-60DL	PSG1.0-60PK	60	60	62	10	40	0,171 - 0,069	5,17	7,05	0,058	0,058	46,81 €	46,81 €
PSG1.0-62DL	PSG1.0-62PK	62	62	64	10	40	0,171 - 0,069	5,36	7,31	0,061	0,061	48,36 €	48,36 €
PSG1.0-65DL	PSG1.0-65PK	65	65	67	10	50	0,171 - 0,069	5,66	7,72	0,077	0,077	51,83 €	51,83 €
PSG1.0-68DL	PSG1.0-68PK	68	68	70	10	50	0,171 - 0,069	5,95	8,12	0,082	0,082	54,50 €	54,50 €
PSG1.0-70DL	PSG1.0-70PK	70	70	72	10	50	0,171 - 0,069	6,15	8,39	0,085	0,085	55,65 €	55,65 €
PSG1.0-72DL	PSG1.0-72PK	72	72	74	10	50	0,171 - 0,069	6,35	8,66	0,088	0,088	56,83 €	56,83 €
PSG1.0-75DL	PSG1.0-75PK	75	75	77	10	50	0,171 - 0,069	6,65	9,07	0,093	0,093	60,65 €	60,65 €
PSG1.0-78DL	PSG1.0-78PK	78	78	80	10	60	0,171 - 0,069	6,96	9,49	0,112	0,112	61,54 €	61,54 €
PSG1.0-80DL	PSG1.0-80PK	80	80	82	10	60	0,171 - 0,069	7,16	9,76	0,116	0,116	62,79 €	62,79 €
PSG1.0-82DL	PSG1.0-82PK	82	82	84	10	60	0,173 - 0,067	7,37	10,05	0,119	0,119	63,68 €	63,68 €
PSG1.0-85DL	PSG1.0-85PK	85	85	87	10	60	0,173 - 0,067	7,67	10,45	0,125	0,125	65,04 €	65,04 €
PSG1.0-90DL	PSG1.0-90PK	90	90	92	10	60	0,173 - 0,067	8,17	11,14	0,135	0,135	67,16 €	67,16 €
PSG1.0-95DL	PSG1.0-95PK	95	95	97	10	60	0,173 - 0,067	8,67	11,83	0,145	0,145	74,36 €	74,36 €
PSG1.0-100DL	PSG1.0-100PK	100	100	102	14	70	0,173 - 0,067	9,17	12,50	0,171	0,171	75,30 €	75,30 €
PSG1.0-110DL	PSG1.0-110PK	110	110	112	14	70	0,173 - 0,067	10,16	13,86	0,194	0,194	94,29 €	94,29 €
PSG1.0-120DL	PSG1.0-120PK	120	120	122	14	70	0,173 - 0,067	11,16	15,21	0,219	0,219	106,62 €	106,62 €

On request

Dimensions in mm

Module
1.25



Spur gear
Delrin or Peek



- **Quality grade 8e25 DIN 3961 (AGMA Q9)**
- **Material :**
Delrin POM (White)
PEEK GF30® (Light brown)
- **Teeth conform to DIN 867**
- **Tooth thickness conforms to DIN 3967**
- **Efficiency approx 98%**

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

Quality grade 8e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

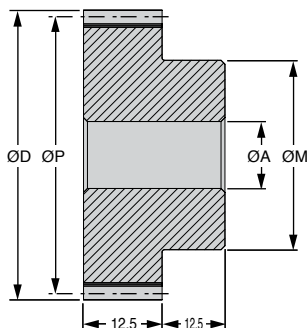
Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each	1 to 5	
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin	Delrin	Peek	
Peek							Peek	(kg)			
PSG1.25-18DL	PSG1.25-18PK	18	22,50	25,00	6	15	0,097 - 0,046	1,37	1,55	0,0090	31,31 €
PSG1.25-19DL	PSG1.25-19PK	19	23,75	26,25	6	15	0,097 - 0,046	1,54	1,75	0,0098	31,80 €
PSG1.25-20DL	PSG1.25-20PK	20	25,00	27,50	6	15	0,108 - 0,052	1,73	1,96	0,011	32,29 €
PSG1.25-21DL	PSG1.25-21PK	21	26,25	28,75	8	20	0,108 - 0,052	1,92	2,18	0,013	33,31 €
PSG1.25-22DL	PSG1.25-22PK	22	27,50	30,00	8	20	0,108 - 0,052	2,13	2,41	0,014	33,79 €
PSG1.25-23DL	PSG1.25-23PK	23	28,75	31,25	8	20	0,108 - 0,052	2,35	2,66	0,015	34,12 €
PSG1.25-24DL	PSG1.25-24PK	24	30,00	32,50	8	22	0,108 - 0,052	2,59	2,93	0,017	34,12 €
PSG1.25-25DL	PSG1.25-25PK	25	31,25	33,75	8	22	0,109 - 0,050	2,83	3,21	0,018	35,55 €
PSG1.25-26DL	PSG1.25-26PK	26	32,50	35,00	8	22	0,109 - 0,050	3,09	3,50	0,019	36,82 €
PSG1.25-27DL	PSG1.25-27PK	27	33,75	36,25	8	22	0,109 - 0,050	3,37	3,81	0,021	37,56 €
PSG1.25-28DL	PSG1.25-28PK	28	35,00	37,50	8	25	0,109 - 0,050	3,65	4,13	0,024	38,38 €
PSG1.25-29DL	PSG1.25-29PK	29	36,25	38,75	8	25	0,109 - 0,050	3,87	4,47	0,025	39,43 €
PSG1.25-30DL	PSG1.25-30PK	30	37,50	40,00	8	25	0,109 - 0,050	4,05	4,83	0,026	40,07 €
PSG1.25-32DL	PSG1.25-32PK	32	40,00	42,50	8	25	0,109 - 0,050	4,39	5,59	0,029	41,11 €
PSG1.25-35DL	PSG1.25-35PK	35	43,75	46,25	10	30	0,109 - 0,050	4,91	6,70	0,036	42,53 €
PSG1.25-38DL	PSG1.25-38PK	38	47,50	50,00	10	30	0,109 - 0,050	5,45	7,43	0,041	44,26 €
PSG1.25-40DL	PSG1.25-40PK	40	50,00	52,50	10	30	0,120 - 0,057	5,81	7,93	0,044	45,89 €
PSG1.25-42DL	PSG1.25-42PK	42	52,50	55,00	10	30	0,122 - 0,055	6,17	8,41	0,048	46,20 €
PSG1.25-45DL	PSG1.25-45PK	45	56,25	58,75	10	30	0,122 - 0,055	6,71	9,14	0,053	46,89 €

On request

On request

Dimensions in mm

Module 1.25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)		Weight	Price each	1 to 5 Peak
Delrin	Peek	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Peek	Delrin (kg)		
PSG1 25-48DL	PSG1 25-48PK	48	60,00	62,50	10	40	0,122 - 0,055	7,26	9,89	0,069	47,26 €	On request
PSG1 25-50DL	PSG1 25-50PK	50	62,50	65,00	10	40	0,122 - 0,055	7,63	10,40	0,073	52,17 €	
PSG1 25-52DL	PSG1 25-52PK	52	65,00	67,50	10	40	0,122 - 0,055	7,99	10,89	0,077	53,73 €	
PSG1 25-55DL	PSG1 25-55PK	55	68,75	71,25	10	40	0,122 - 0,055	8,54	11,64	0,084	55,99 €	
PSG1 25-58DL	PSG1 25-58PK	58	72,50	75,00	10	40	0,122 - 0,055	9,09	12,40	0,092	57,67 €	
PSG1 25-60DL	PSG1 25-60PK	60	75,00	77,50	10	50	0,122 - 0,055	9,47	12,91	0,109	58,99 €	
PSG1 25-62DL	PSG1 25-62PK	62	77,50	80,00	10	50	0,122 - 0,055	9,82	13,39	0,114	60,95 €	
PSG1 25-65DL	PSG1 25-65PK	65	81,25	83,75	10	50	0,123 - 0,053	10,36	14,13	0,123	65,32 €	
PSG1 25-68DL	PSG1 25-68PK	68	85,00	87,50	10	50	0,123 - 0,053	10,90	14,87	0,131	68,68 €	
PSG1 25-70DL	PSG1 25-70PK	70	87,50	90,00	10	50	0,123 - 0,053	11,27	15,36	0,137	70,09 €	
PSG1 25-72DL	PSG1 25-72PK	72	90,00	92,50	10	50	0,123 - 0,053	11,63	15,86	0,143	71,63 €	
PSG1 25-75DL	PSG1 25-75PK	75	93,75	96,25	10	60	0,123 - 0,053	12,18	16,61	0,168	76,40 €	
PSG1 25-78DL	PSG1 25-78PK	78	97,50	100,00	10	60	0,123 - 0,053	12,74	17,37	0,178	77,56 €	
PSG1 25-80DL	PSG1 25-80PK	80	100,00	102,50	10	60	0,138 - 0,064	13,11	17,88	0,185	79,14 €	
PSG1 25-82DL	PSG1 25-82PK	82	102,50	105,00	10	60	0,138 - 0,064	13,49	18,40	0,192	80,27 €	
PSG1 25-85DL	PSG1 25-85PK	85	106,25	108,75	10	60	0,138 - 0,064	14,04	19,14	0,203	81,98 €	
PSG1 25-90DL	PSG1 25-90PK	90	112,50	115,00	10	65	0,138 - 0,064	14,96	20,40	0,230	84,62 €	
PSG1 25-95DL	PSG1 25-95PK	95	118,75	121,25	10	65	0,138 - 0,064	15,88	21,66	0,250	93,68 €	
PSG1 25-100DL	PSG1 25-100PK	100	125,00	127,50	14	65	0,140 - 0,062	16,79	22,89	0,268	94,91 €	
PSG1 25-110DL	PSG1 25-110PK	110	137,50	140,00	14	70	0,140 - 0,062	18,61	25,37	0,323	118,86 €	
PSG1 25-120DL	PSG1 25-120PK	120	150,00	152,50	14	70	0,140 - 0,062	20,43	27,85	0,373	134,41 €	

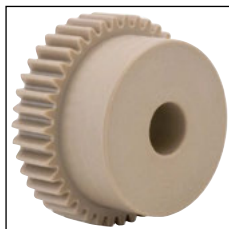
Dimensions in mm

On request

Module 1.5



Spur gear Delrin or Peek



- **Quality grade 8e25 DIN 3961 (AGMA Q9)**
- **Material :**
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

quality grade 8e25

DISCOUNTS

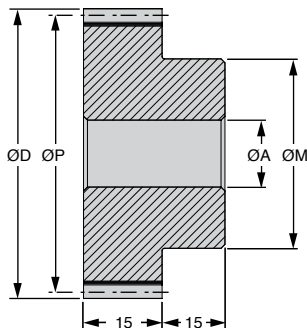
Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each	1 to 5
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin (kg)	Delrin	Peek
PSG1.5-18DL	PSG1.5-18PK	18	27,0	30,0	6	22	0,128 - 0,052	1,90 2,15 0,019	32,81 €	On request
PSG1.5-19DL	PSG1.5-19PK	19	28,5	31,5	6	22	0,128 - 0,052	2,14 2,43 0,020	34,05 €	
PSG1.5-20DL	PSG1.5-20PK	20	30,0	33,0	6	22	0,128 - 0,052	2,40 2,71 0,022	35,76 €	
PSG1.5-21DL	PSG1.5-21PK	21	31,5	34,5	8	25	0,129 - 0,051	2,67 3,02 0,025	36,08 €	
PSG1.5-22DL	PSG1.5-22PK	22	33,0	36,0	8	25	0,129 - 0,051	2,96 3,35 0,026	36,47 €	
PSG1.5-23DL	PSG1.5-23PK	23	34,5	37,5	8	25	0,129 - 0,051	3,27 3,70 0,028	37,16 €	
PSG1.5-24DL	PSG1.5-24PK	24	36,0	39,0	8	25	0,129 - 0,051	3,59 4,06 0,030	37,50 €	
PSG1.5-25DL	PSG1.5-25PK	25	37,5	40,5	8	25	0,129 - 0,051	3,93 4,45 0,031	39,45 €	
PSG1.5-26DL	PSG1.5-26PK	26	39,0	42,0	8	25	0,129 - 0,051	4,30 4,86 0,033	41,34 €	
PSG1.5-27DL	PSG1.5-27PK	27	40,5	43,5	8	25	0,129 - 0,051	4,67 5,29 0,035	42,66 €	
PSG1.5-28DL	PSG1.5-28PK	28	42,0	45,0	8	25	0,129 - 0,051	5,07 5,74 0,037	43,82 €	
PSG1.5-29DL	PSG1.5-29PK	29	43,5	46,5	10	35	0,129 - 0,051	5,49 6,21 0,048	41,75 €	
PSG1.5-30DL	PSG1.5-30PK	30	45,0	48,0	10	35	0,129 - 0,051	5,93 6,70 0,050	45,82 €	
PSG1.5-32DL	PSG1.5-32PK	32	48,0	51,0	10	35	0,129 - 0,051	6,86 7,76 0,055	47,44 €	
PSG1.5-35DL	PSG1.5-35PK	35	52,5	55,5	10	35	0,171 - 0,069	7,98 9,51 0,062	48,95 €	
PSG1.5-38DL	PSG1.5-38PK	38	57,0	60,0	12	45	0,171 - 0,069	8,86 11,47 0,082	53,62 €	
PSG1.5-40DL	PSG1.5-40PK	40	60,0	63,0	12	45	0,171 - 0,069	9,45 12,89 0,088	55,76 €	
PSG1.5-42DL	PSG1.5-42PK	42	63,0	66,0	12	45	0,171 - 0,069	10,03 13,67 0,094	56,01 €	
PSG1.5-45DL	PSG1.5-45PK	45	67,5	70,5	12	45	0,171 - 0,069	10,90 14,86 0,104	57,25 €	
PSG1.5-48DL	PSG1.5-48PK	48	72,0	75,0	12	45	0,171 - 0,069	11,79 16,08 0,114	61,16 €	

On request

Dimensions in mm

Module 1.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each	1 to 5
Delrin	Peek	Teeth	Pitch	External	Bore	Boss	Delrin	Peek	Delrin	Peek
PSG1.5-50DL	PSG1.5-50PK	50	75,0	78,0	14	55	0,171 - 0,069	12,40 16,91	0,136	68,34 €
PSG1.5-52DL	PSG1.5-52PK	52	78,0	81,0	14	55	0,171 - 0,069	12,99 17,71	0,144	71,82 €
PSG1.5-55DL	PSG1.5-55PK	55	82,5	85,5	14	55	0,173 - 0,067	13,88 18,92	0,156	73,64 €
PSG1.5-58DL	PSG1.5-58PK	58	87,0	90,0	14	55	0,173 - 0,067	14,78 20,15	0,169	75,30 €
PSG1.5-60DL	PSG1.5-60PK	60	90,0	93,0	14	55	0,173 - 0,067	15,39 20,98	0,177	76,03 €
PSG1.5-62DL	PSG1.5-62PK	62	93,0	96,0	14	55	0,173 - 0,067	15,97 21,77	0,186	77,53 €
PSG1.5-65DL	PSG1.5-65PK	65	97,5	100,5	14	55	0,173 - 0,067	16,84 22,97	0,201	80,46 €
PSG1.5-68DL	PSG1.5-68PK	68	102,0	105,0	16	65	0,173 - 0,067	17,72 24,17	0,233	85,33 €
PSG1.5-70DL	PSG1.5-70PK	70	105,0	108,0	16	65	0,173 - 0,067	18,31 24,97	0,244	88,44 €
PSG1.5-72DL	PSG1.5-72PK	72	108,0	111,0	16	65	0,173 - 0,067	18,91 25,78	0,254	93,46 €
PSG1.5-75DL	PSG1.5-75PK	75	112,5	115,5	16	65	0,173 - 0,067	19,80 27,00	0,271	99,63 €
PSG1.5-78DL	PSG1.5-78PK	78	117,0	120,0	16	65	0,173 - 0,067	20,71 28,23	0,288	105,01 €
PSG1.5-80DL	PSG1.5-80PK	80	120,0	123,0	16	65	0,173 - 0,067	21,31 29,06	0,300	108,91 €
PSG1.5-82DL	PSG1.5-82PK	82	123,0	126,0	16	65	0,175 - 0,065	21,93 29,91	0,312	113,89 €

On request

Dimensions in mm

On request

Module 2.0



Spur gear Delrin or Peek



- **Quality grade 8e25 DIN 3961 (AGMA Q9)**
- **Material :**
 - Delrin POM (White)
 - PEEK GF30® (Light brown)
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

Quality grade 8e25

DISCOUNTS

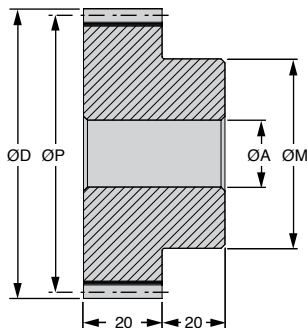
Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight		Price each	1 to 5
								Delrin	Peek		
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Peek	(kg)	Delrin	Peek
PSG2.0-18DL	PSG2.0-18PK	18	36	40	10	30	0,129 - 0,051	3,20	3,62	0,044	49,36 €
PSG2.0-19DL	PSG2.0-19PK	19	38	42	10	30	0,129 - 0,051	3,60	4,07	0,047	50,44 €
PSG2.0-20DL	PSG2.0-20PK	20	40	44	10	30	0,129 - 0,051	4,03	4,56	0,051	51,49 €
PSG2.0-21DL	PSG2.0-21PK	21	42	46	12	35	0,129 - 0,051	4,48	5,07	0,059	52,85 €
PSG2.0-22DL	PSG2.0-22PK	22	44	48	12	35	0,129 - 0,051	4,97	5,62	0,063	53,70 €
PSG2.0-23DL	PSG2.0-23PK	23	46	50	12	35	0,129 - 0,051	5,48	6,21	0,067	54,82 €
PSG2.0-24DL	PSG2.0-24PK	24	48	52	12	35	0,129 - 0,051	6,03	6,82	0,071	56,01 €
PSG2.0-25DL	PSG2.0-25PK	25	50	54	12	35	0,129 - 0,051	6,60	7,47	0,075	59,16 €
PSG2.0-26DL	PSG2.0-26PK	26	52	56	12	35	0,171 - 0,069	7,21	8,16	0,080	61,03 €
PSG2.0-27DL	PSG2.0-27PK	27	54	58	12	35	0,171 - 0,069	7,85	8,88	0,085	63,20 €
PSG2.0-28DL	PSG2.0-28PK	28	56	60	12	35	0,171 - 0,069	8,51	9,63	0,089	64,59 €

On request

Dimensions in mm

Module 2.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each	1 to 5	
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin	Delrin	Peek	
PSG2.0-29DL	PSG2.0-29PK	29	58	62	14	45	0,171 - 0,069	9,21	10,42	0,110	66,18 €
PSG2.0-30DL	PSG2.0-30PK	30	60	64	14	45	0,171 - 0,069	9,95	11,25	0,115	67,65 €
PSG2.0-32DL	PSG2.0-32PK	32	64	68	14	45	0,171 - 0,069	11,51	13,02	0,126	73,48 €
PSG2.0-35DL	PSG2.0-35PK	35	70	74	14	45	0,171 - 0,069	14,10	15,96	0,144	81,13 €
PSG2.0-38DL	PSG2.0-38PK	38	76	80	14	45	0,171 - 0,069	17,01	19,25	0,163	89,06 €
PSG2.0-40DL	PSG2.0-40PK	40	80	84	16	55	0,171 - 0,069	19,13	21,64	0,196	92,80 €
PSG2.0-42DL	PSG2.0-42PK	42	84	88	16	55	0,173 - 0,067	21,14	24,20	0,211	95,64 €
PSG2.0-45DL	PSG2.0-45PK	45	90	94	16	55	0,173 - 0,067	22,99	28,36	0,234	99,81 €
PSG2.0-48DL	PSG2.0-48PK	48	96	100	16	55	0,173 - 0,067	24,87	32,90	0,258	107,49 €
PSG2.0-50DL	PSG2.0-50PK	50	100	104	20	65	0,173 - 0,067	26,15	35,66	0,296	115,07 €
PSG2.0-52DL	PSG2.0-52PK	52	104	108	20	65	0,173 - 0,067	27,39	37,35	0,314	119,34 €
PSG2.0-55DL	PSG2.0-55PK	55	110	114	20	65	0,173 - 0,067	29,27	39,91	0,342	134,79 €
PSG2.0-58DL	PSG2.0-58PK	58	116	120	20	65	0,173 - 0,067	31,17	42,50	0,372	142,92 €
PSG2.0-60DL	PSG2.0-60PK	60	120	124	20	65	0,173 - 0,067	32,45	44,26	0,393	146,53 €
PSG2.0-62DL	PSG2.0-62PK	62	124	128	20	65	0,175 - 0,065	33,68	45,92	0,414	150,13 €

On request

Dimensions in mm

On request

Module 2.5



Spur gear Delrin or Peek

Quality grade 8e25

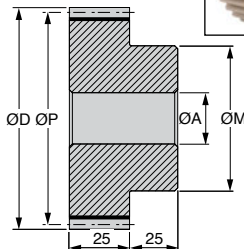


- Quality grade 8e25 DIN 3961 (AGMA Q9)

- Material :

Delrin POM (White)
PEEK GF30® (Light brown)

- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%



Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each	1 to 5	
Delrin	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Delrin (kg)	Delrin	Peek	
PSG2.5-18DL	PSG2.5-18PK	18	45,0	50,0	14	35	0,129 - 0,051	4,78	5,40	0,078	66,37 €
PSG2.5-19DL	PSG2.5-19PK	19	47,5	52,5	14	35	0,129 - 0,051	5,38	6,08	0,085	68,16 €
PSG2.5-20DL	PSG2.5-20PK	20	50,0	55,0	14	35	0,129 - 0,051	6,02	6,81	0,091	70,65 €
PSG2.5-21DL	PSG2.5-21PK	21	52,5	57,5	14	35	0,171 - 0,069	6,70	7,58	0,098	72,35 €
PSG2.5-22DL	PSG2.5-22PK	22	55,0	60,0	14	35	0,171 - 0,069	7,43	8,40	0,106	74,99 €
PSG2.5-23DL	PSG2.5-23PK	23	57,5	62,5	16	45	0,171 - 0,069	8,20	9,27	0,132	76,90 €
PSG2.5-24DL	PSG2.5-24PK	24	60,0	65,0	16	45	0,171 - 0,069	9,01	10,19	0,140	79,09 €
PSG2.5-25DL	PSG2.5-25PK	25	62,5	67,5	16	45	0,171 - 0,069	9,87	11,17	0,149	83,42 €
PSG2.5-26DL	PSG2.5-26PK	26	65,0	70,0	16	45	0,171 - 0,069	10,77	12,19	0,157	87,63 €
PSG2.5-27DL	PSG2.5-27PK	27	67,5	72,5	16	45	0,171 - 0,069	11,72	13,27	0,167	89,48 €
PSG2.5-28DL	PSG2.5-28PK	28	70,0	75,0	16	45	0,171 - 0,069	12,72	14,39	0,176	91,82 €
PSG2.5-29DL	PSG2.5-29PK	29	72,5	77,5	18	55	0,171 - 0,069	13,77	15,58	0,210	94,83 €
PSG2.5-30DL	PSG2.5-30PK	30	75,0	80,0	18	55	0,171 - 0,069	14,86	16,81	0,220	98,07 €
PSG2.5-32DL	PSG2.5-32PK	32	80,0	85,0	18	55	0,171 - 0,069	17,20	19,46	0,241	103,98 €
PSG2.5-35DL	PSG2.5-35PK	35	87,5	92,5	18	55	0,173 - 0,067	21,08	23,85	0,276	110,19 €
PSG2.5-38DL	PSG2.5-38PK	38	95,0	100,0	20	70	0,173 - 0,067	25,42	28,76	0,361	121,10 €
PSG2.5-40DL	PSG2.5-40PK	40	100,0	105,0	20	70	0,173 - 0,067	28,58	32,34	0,388	125,87 €
PSG2.5-42DL	PSG2.5-42PK	42	105,0	110,0	20	70	0,173 - 0,067	31,96	36,17	0,416	130,87 €
PSG2.5-45DL	PSG2.5-45PK	45	112,5	117,5	20	70	0,173 - 0,067	37,45	42,38	0,461	135,53 €
PSG2.5-48DL	PSG2.5-48PK	48	120,0	125,0	20	70	0,173 - 0,067	43,46	49,17	0,509	145,18 €
PSG2.5-50DL	PSG2.5-50PK	50	125,0	130,0	20	70	0,175 - 0,065	47,75	54,02	0,543	145,54 €

On request

Dimensions in mm

On request

Spur gear

Delrin or Peek

Module

3.0

- Quality grade 8e25 DIN 3961 (AGMA Q9)

- Material :

Delrin POM (White)

PEEK GF30® (Light brown)

- Teeth conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%

Quality grade 8e25

Options

- Alternative bores (H7)

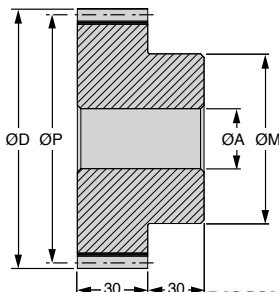
- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each	1 to 5 Peek
Delrin	Peek	Teeth	Pitch	External	Bore	Boss	(mm)	Delrin	Peek	Delrin (kg)		
PSG3.0-18DL	PSG3.0-18PK	18	54	60	14	45	0,171 - 0,069	6,63	7,50	0,150	58,91 €	On request
PSG3.0-19DL	PSG3.0-19PK	19	57	63	14	45	0,171 - 0,069	7,46	8,45	0,161	61,11 €	
PSG3.0-20DL	PSG3.0-20PK	20	60	66	14	45	0,171 - 0,069	8,35	9,45	0,172	63,13 €	
PSG3.0-21DL	PSG3.0-21PK	21	63	69	16	55	0,171 - 0,069	9,30	10,53	0,214	65,20 €	
PSG3.0-22DL	PSG3.0-22PK	22	66	72	16	55	0,171 - 0,069	10,31	11,67	0,226	67,43 €	
PSG3.0-23DL	PSG3.0-23PK	23	69	75	16	55	0,171 - 0,069	11,38	12,88	0,240	69,60 €	
PSG3.0-24DL	PSG3.0-24PK	24	72	78	16	55	0,171 - 0,069	12,51	14,15	0,254	71,59 €	
PSG3.0-25DL	PSG3.0-25PK	25	75	81	16	55	0,171 - 0,069	13,70	15,50	0,268	75,93 €	
PSG3.0-26DL	PSG3.0-26PK	26	78	84	16	55	0,171 - 0,069	14,96	16,92	0,283	80,27 €	
PSG3.0-27DL	PSG3.0-27PK	27	81	87	16	55	0,173 - 0,067	16,28	18,42	0,299	82,21 €	
PSG3.0-28DL	PSG3.0-28PK	28	84	90	16	55	0,173 - 0,067	17,66	19,99	0,315	84,49 €	
PSG3.0-29DL	PSG3.0-29PK	29	87	93	18	70	0,173 - 0,067	19,12	21,63	0,390	87,94 €	
PSG3.0-30DL	PSG3.0-30PK	30	90	96	18	70	0,173 - 0,067	20,63	23,35	0,407	91,13 €	
PSG3.0-32DL	PSG3.0-32PK	32	96	102	18	70	0,173 - 0,067	23,88	27,01	0,444	97,75 €	
PSG3.0-35DL	PSG3.0-35PK	35	105	111	18	70	0,173 - 0,067	29,26	33,11	0,504	113,21 €	
PSG3.0-38DL	PSG3.0-38PK	38	114	120	18	70	0,173 - 0,067	35,30	39,93	0,569	121,52 €	
PSG3.0-40DL	PSG3.0-40PK	40	120	126	18	70	0,173 - 0,067	39,69	44,90	0,615	124,93 €	

Dimensions in mm

On request

Module 0.5

Skive hobbed spur gears

Case hardened steel



- **Quality grade 6e DIN 58405 (AGMA Q11)**
- **Material : 20NCD2 case hardened steel 58HRC**
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Principle

- After the gears have been cut, they are hardened and then re-cut(skived) to remove any inaccuracies caused by the heat treatment.

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

DISCOUNTS

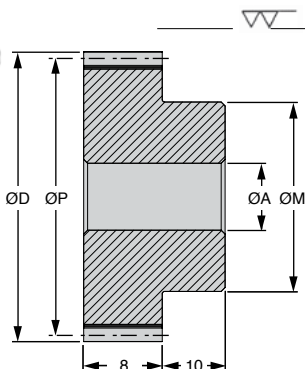
Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG0.5-20HC	20	10,0	11,0	4	8	-	0,029 - 0,061	1,11	0,006	93,09 €
PSG0.5-21HC	21	10,5	11,5	4	8	-	0,028 - 0,062	1,16	0,006	94,05 €
PSG0.5-22HC	22	11,0	12,0	4	8	-	0,028 - 0,062	1,22	0,006	95,27 €
PSG0.5-23HC	23	11,5	12,5	4	8	-	0,028 - 0,062	1,27	0,006	96,39 €
PSG0.5-24HC	24	12,0	13,0	5	10	-	0,028 - 0,062	1,33	0,008	97,51 €
PSG0.5-25HC	25	12,5	13,5	5	10	-	0,030 - 0,066	1,38	0,009	98,55 €
PSG0.5-26HC	26	13,0	14,0	5	10	-	0,030 - 0,066	1,44	0,009	100,02 €
PSG0.5-27HC	27	13,5	14,5	5	10	-	0,030 - 0,066	1,50	0,009	100,99 €
PSG0.5-28HC	28	14,0	15,0	5	10	-	0,030 - 0,066	1,55	0,010	102,08 €
PSG0.5-29HCK	29	14,5	15,5	6	13	2	0,030 - 0,066	1,61	0,013	102,67 €
PSG0.5-30HCK	30	15,0	16,0	6	13	2	0,030 - 0,066	1,65	0,014	103,08 €
PSG0.5-32HCK	32	16,0	17,0	6	13	2	0,030 - 0,066	1,76	0,015	105,54 €
PSG0.5-35HCK	35	17,5	18,5	6	13	2	0,030 - 0,066	1,93	0,016	109,13 €
PSG0.5-38HCK	38	19,0	20,0	6	17	2	0,029 - 0,067	2,09	0,026	112,46 €
PSG0.5-40HCK	40	20,0	21,0	6	17	2	0,029 - 0,067	2,45	0,027	114,93 €
PSG0.5-42HCK	42	21,0	22,0	6	17	2	0,029 - 0,067	2,57	0,028	116,94 €
PSG0.5-45HCK	45	22,5	23,5	6	17	2	0,029 - 0,067	2,75	0,030	120,58 €
PSG0.5-48HCK	48	24,0	25,0	6	17	2	0,029 - 0,067	2,94	0,032	125,31 €
PSG0.5-50HCK	50	25,0	26,0	6	17	2	0,029 - 0,067	3,32	0,034	126,62 €
PSG0.5-52HCK	52	26,0	27,0	6	17	2	0,035 - 0,078	3,45	0,035	128,48 €

Dimensions in mm



Module 0.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG0.5-55HCK	55	27,5	28,5	6	17	2	0,035 - 0,078	3,65	0,038	131,14 €
PSG0.5-58HCK	58	29,0	30,0	6	17	2	0,035 - 0,078	3,85	0,040	133,84 €
PSG0.5-60HCK	60	30,0	31,0	6	17	2	0,035 - 0,078	4,15	0,042	135,24 €
PSG0.5-62HCK	62	31,0	32,0	8	20	2	0,033 - 0,079	4,29	0,048	136,96 €
PSG0.5-65HCK	65	32,5	33,5	8	20	2	0,033 - 0,079	4,50	0,051	139,94 €
PSG0.5-68HCK	68	34,0	35,0	8	20	2	0,033 - 0,079	4,70	0,054	140,82 €
PSG0.5-70HCK	70	35,0	36,0	8	20	2	0,033 - 0,079	4,84	0,056	142,37 €
PSG0.5-72HCK	72	36,0	37,0	8	20	2	0,033 - 0,079	4,98	0,058	143,66 €
PSG0.5-75HCK	75	37,5	38,5	8	20	2	0,033 - 0,079	5,19	0,062	144,85 €
PSG0.5-78HCK	78	39,0	40,0	8	20	2	0,033 - 0,079	5,40	0,065	146,94 €
PSG0.5-80HCK	80	40,0	41,0	8	25	2	0,033 - 0,079	5,80	0,082	147,31 €
PSG0.5-82HCK	82	41,0	42,0	8	25	2	0,033 - 0,079	5,95	0,084	149,65 €
PSG0.5-85HCK	85	42,5	43,5	8	25	2	0,033 - 0,079	6,16	0,088	151,16 €
PSG0.5-90HCK	90	45,0	46,0	8	25	2	0,033 - 0,079	6,53	0,095	153,67 €
PSG0.5-100HCK	100	50,0	51,0	10	30	3	0,033 - 0,079	7,42	0,123	155,90 €
PSG0.5-120HCK	120	60,0	61,0	10	35	3	0,038 - 0,092	8,90	0,177	188,90 €
PSG0.5-130HCK	130	65,0	66,0	10	35	3	0,038 - 0,092	9,65	0,196	216,73 €
PSG0.5-140HCK	140	70,0	71,0	10	35	3	0,038 - 0,092	10,39	0,217	225,75 €
PSG0.5-150HCK	150	75,0	76,0	10	40	3	0,038 - 0,092	11,37	0,262	245,79 €
PSG0.5-200HCK	200	100,0	101,0	14	50	5	0,036 - 0,094	15,32	0,444	302,98 €
PSG0.5-250HCK	250	125,0	126,0	16	60	5	0,039 - 0,104	19,15	0,679	363,38 €

Dimensions in mm

Module 0.8 Skive hobbled spur gears

Case hardened steel



- **Quality grade 6e DIN 58405 (AGMA Q11)**
- **Material : 20NCD2 case hardened steel 58HRC**
- **Teeth conform to DIN 867**
- **Tooth thickness conforms to DIN 58405**
- **Efficiency approx 98%**

Principle

- After the gears have been cut, they are hardened and then re-cut(skived) to remove any inaccuracies caused by the heat treatment.

Quality grade 6e

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

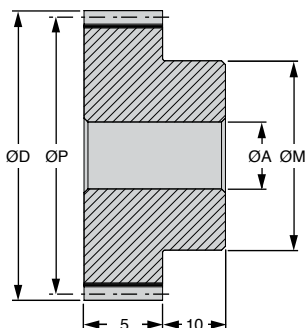
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG0.8-18HC	18	14,4	16,0	5	11	-	0,030 - 0,066	3,46	0,015	91,08 €
PSG0.8-19HC	19	15,2	16,8	5	11	-	0,030 - 0,066	3,65	0,016	92,42 €
PSG0.8-20HC	20	16,0	17,6	5	11	-	0,030 - 0,066	4,53	0,017	93,78 €
PSG0.8-21HC	21	16,8	18,4	5	12	-	0,030 - 0,066	4,76	0,020	96,76 €
PSG0.8-22HC	22	17,6	19,2	5	12	-	0,030 - 0,066	4,98	0,021	98,13 €
PSG0.8-23HC	23	18,4	20,0	5	12	-	0,029 - 0,067	5,21	0,023	98,61 €
PSG0.8-24HCK	24	19,2	20,8	6	14	2	0,029 - 0,067	5,44	0,026	99,13 €
PSG0.8-25HCK	25	20,0	21,6	6	14	2	0,029 - 0,067	5,66	0,028	103,29 €
PSG0.8-26HCK	26	20,8	22,4	6	14	2	0,029 - 0,067	5,90	0,029	106,95 €
PSG0.8-27HCK	27	21,6	23,2	6	14	2	0,029 - 0,067	6,13	0,031	109,19 €
PSG0.8-28HCK	28	22,4	24,0	8	18	2	0,029 - 0,067	6,35	0,037	111,60 €
PSG0.8-29HCK	29	23,2	24,8	8	18	2	0,029 - 0,067	6,58	0,039	114,51 €
PSG0.8-30HCK	30	24,0	25,6	8	18	2	0,029 - 0,067	6,76	0,041	116,44 €
PSG0.8-32HCK	32	25,6	27,2	8	18	2	0,035 - 0,078	7,21	0,045	119,45 €
PSG0.8-35HCK	35	28,0	29,6	10	20	3	0,035 - 0,078	7,89	0,052	123,51 €
PSG0.8-38HCK	38	30,4	32,0	10	20	3	0,033 - 0,079	8,57	0,059	128,54 €
PSG0.8-40HCK	40	32,0	33,6	10	20	3	0,033 - 0,079	10,03	0,064	133,26 €
PSG0.8-42HCK	42	33,6	35,2	10	20	3	0,033 - 0,079	10,53	0,069	134,22 €
PSG0.8-45HCK	45	36,0	37,6	10	20	3	0,033 - 0,079	11,28	0,077	136,16 €
PSG0.8-48HCK	48	38,4	40,0	10	30	3	0,033 - 0,079	12,04	0,117	137,32 €

Dimensions in mm

Module 0.8



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG0.8-50HCK	50	40,0	41,6	10	30	3	0,033 - 0,079	13,61	0,123	151,60 €
PSG0.8-52HCK	52	41,6	43,2	10	30	3	0,033 - 0,079	14,15	0,129	156,09 €
PSG0.8-55HCK	55	44,0	45,6	10	30	3	0,033 - 0,079	14,97	0,139	162,57 €
PSG0.8-58HCK	58	46,4	48,0	10	30	3	0,033 - 0,079	15,78	0,150	167,50 €
PSG0.8-60HCK	60	48,0	49,6	10	40	3	0,033 - 0,079	17,00	0,200	171,38 €
PSG0.8-62HCK	62	49,6	51,2	10	40	3	0,033 - 0,079	17,57	0,208	177,00 €
PSG0.8-65HCK	65	52,0	53,6	10	40	3	0,038 - 0,092	18,42	0,220	189,68 €
PSG0.8-68HCK	68	54,4	56,0	10	40	3	0,038 - 0,092	19,27	0,233	199,44 €
PSG0.8-70HCK	70	56,0	57,6	10	40	3	0,038 - 0,092	19,83	0,241	203,58 €
PSG0.8-72HCK	72	57,6	59,2	10	40	3	0,038 - 0,092	20,40	0,250	208,00 €
PSG0.8-75HCK	75	60,0	61,6	10	50	3	0,038 - 0,092	21,25	0,320	221,88 €
PSG0.8-78HCK	78	62,4	64,0	10	50	3	0,038 - 0,092	22,10	0,334	225,23 €
PSG0.8-80HCK	80	64,0	65,6	10	50	3	0,038 - 0,092	23,77	0,344	229,79 €
PSG0.8-82HCK	82	65,6	67,2	10	50	3	0,038 - 0,092	24,36	0,354	233,08 €
PSG0.8-85HCK	85	68,0	69,6	10	50	3	0,038 - 0,092	25,25	0,370	238,09 €
PSG0.8-90HCK	90	72,0	73,6	10	65	3	0,038 - 0,092	26,74	0,504	245,77 €
PSG0.8-95HCK	95	76,0	77,6	10	65	3	0,038 - 0,092	28,22	0,533	272,07 €
PSG0.8-100HCK	100	80,0	81,6	14	65	5	0,038 - 0,092	30,39	0,553	275,67 €
PSG0.8-110HCK	110	88,0	89,6	14	70	5	0,036 - 0,094	31,91	0,661	345,08 €
PSG0.8-120HCK	120	96,0	97,6	14	70	5	0,036 - 0,094	33,43	0,733	390,24 €

Dimensions in mm

Module
1.0Skive hobbled spur gears
Case hardened steel

- Quality grade 6e25 DIN 3961 (AGMA Q11)
- Material : 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Principle

- After the gears have been cut, they are hardened and then re-cut(skived) to remove any inaccuracies caused by the heat treatment.

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

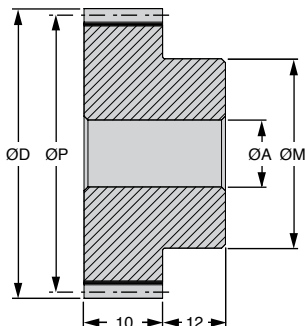
- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment.

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG1.0-18HC	18	18	20	5	15	-	0,030 - 0,066	6,47	0,033	96,57 €
PSG1.0-19HC	19	19	21	5	15	-	0,029 - 0,067	6,83	0,035	98,02 €
PSG1.0-20HC	20	20	22	5	15	-	0,029 - 0,067	8,85	0,038	101,22 €
PSG1.0-21HC	21	21	23	5	15	-	0,029 - 0,067	9,29	0,040	101,86 €
PSG1.0-22HC	22	22	24	5	15	-	0,029 - 0,067	9,73	0,043	103,33 €
PSG1.0-23HC	23	23	25	5	15	-	0,029 - 0,067	10,18	0,045	103,73 €
PSG1.0-24HCK	24	24	26	6	20	2	0,029 - 0,067	10,62	0,060	104,37 €
PSG1.0-25HCK	25	25	27	6	20	2	0,029 - 0,067	11,06	0,063	108,73 €
PSG1.0-26HCK	26	26	28	6	20	2	0,035 - 0,078	11,52	0,066	112,59 €
PSG1.0-27HCK	27	27	29	6	20	2	0,035 - 0,078	11,96	0,069	114,93 €
PSG1.0-28HCK	28	28	30	6	20	2	0,035 - 0,078	12,41	0,073	117,49 €
PSG1.0-29HCK	29	29	31	8	25	2	0,035 - 0,078	12,85	0,089	120,58 €
PSG1.0-30HCK	30	30	32	8	25	2	0,035 - 0,078	13,21	0,092	122,59 €
PSG1.0-32HCK	32	32	34	8	25	2	0,033 - 0,079	14,09	0,100	125,72 €
PSG1.0-35HCK	35	35	37	8	25	3	0,033 - 0,079	15,41	0,112	130,03 €
PSG1.0-38HCK	38	38	40	10	34	3	0,033 - 0,079	16,73	0,160	135,33 €
PSG1.0-40HCK	40	40	42	10	34	3	0,033 - 0,079	19,59	0,170	140,32 €
PSG1.0-42HCK	42	42	44	10	34	3	0,033 - 0,079	20,57	0,180	141,37 €
PSG1.0-45HCK	45	45	47	10	34	3	0,033 - 0,079	22,04	0,196	143,34 €
PSG1.0-48HCK	48	48	50	10	34	3	0,033 - 0,079	23,51	0,213	144,53 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG1.0-50HCK	50	50	52	10	34	3	0,033 - 0,079	26,57	0,225	159,54 €
PSG1.0-52HCK	52	52	54	10	40	3	0,038 - 0,092	27,64	0,270	164,27 €
PSG1.0-55HCK	55	55	57	10	40	3	0,038 - 0,092	29,23	0,290	171,12 €
PSG1.0-58HCK	58	58	60	10	40	3	0,038 - 0,092	30,82	0,311	176,31 €
PSG1.0-60HCK	60	60	62	10	40	3	0,038 - 0,092	33,20	0,325	180,45 €
PSG1.0-62HCK	62	62	64	10	40	3	0,038 - 0,092	34,31	0,340	186,34 €
PSG1.0-65HCK	65	65	67	10	50	3	0,038 - 0,092	35,97	0,430	199,64 €
PSG1.0-68HCK	68	68	70	10	50	3	0,038 - 0,092	37,63	0,455	209,97 €
PSG1.0-70HCK	70	70	72	10	50	3	0,038 - 0,092	38,73	0,472	214,31 €
PSG1.0-72HCK	72	72	74	10	50	3	0,038 - 0,092	39,84	0,489	218,96 €
PSG1.0-75HCK	75	75	77	10	50	3	0,038 - 0,092	41,50	0,516	233,57 €
PSG1.0-78HCK	78	78	80	10	60	3	0,038 - 0,092	43,16	0,626	237,14 €
PSG1.0-80HCK	80	80	82	10	60	3	0,038 - 0,092	46,42	0,645	241,87 €
PSG1.0-82HCK	82	82	84	10	60	3	0,036 - 0,094	47,58	0,665	245,34 €
PSG1.0-85HCK	85	85	87	10	60	3	0,036 - 0,094	49,32	0,696	250,62 €
PSG1.0-90HCK	90	90	92	10	60	3	0,036 - 0,094	52,22	0,750	258,68 €
PSG1.0-95HCK	95	95	97	10	60	3	0,036 - 0,094	55,12	0,807	286,35 €
PSG1.0-100HCK	100	100	102	14	70	5	0,036 - 0,094	59,36	0,950	290,16 €
PSG1.0-110HCK	110	110	112	14	70	5	0,040 - 0,102	65,30	1,079	363,23 €
PSG1.0-120HCK	120	120	122	14	70	5	0,040 - 0,102	71,24	1,220	410,72 €

Dimensions in mm

Module
1.25

Skive hobbled spur gears

Case hardened steel



- **Quality grade 6e25 DIN 3961 (AGMA Q11)**
- Material : 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Principle

- After the gears have been cut, they are hardened and then re-cut(skived) to remove any inaccuracies caused by the heat treatment.

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment.

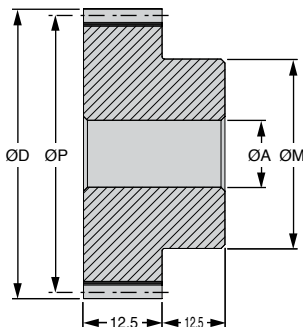
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG1.25-18HCK	18	22,50	25,00	6	15	2	0,097 - 0,046	12,08	0,050	120,14 €
PSG1.25-19HCK	19	23,75	26,25	6	15	2	0,097 - 0,046	12,75	0,055	122,62 €
PSG1.25-20HCK	20	25,00	27,50	6	15	2	0,108 - 0,052	16,97	0,059	124,41 €
PSG1.25-21HCK	21	26,25	28,75	8	20	2	0,108 - 0,052	17,82	0,073	128,32 €
PSG1.25-22HCK	22	27,50	30,00	8	20	2	0,108 - 0,052	18,67	0,079	130,19 €
PSG1.25-23HCK	23	28,75	31,25	8	20	2	0,108 - 0,052	19,52	0,084	130,78 €
PSG1.25-24HCK	24	30,00	32,50	8	22	2	0,108 - 0,052	20,36	0,096	131,50 €
PSG1.25-25HCK	25	31,25	33,75	8	22	2	0,109 - 0,050	21,21	0,102	136,98 €
PSG1.25-26HCK	26	32,50	35,00	8	22	2	0,109 - 0,050	22,50	0,108	141,87 €
PSG1.25-27HCK	27	33,75	36,25	8	22	2	0,109 - 0,050	23,37	0,114	144,79 €
PSG1.25-28HCK	28	35,00	37,50	8	25	2	0,109 - 0,050	24,23	0,132	148,05 €
PSG1.25-29HCK	29	36,25	38,75	8	25	2	0,109 - 0,050	25,10	0,138	151,90 €
PSG1.25-30HCK	30	37,50	40,00	8	25	2	0,109 - 0,050	25,80	0,145	154,47 €
PSG1.25-32HCK	32	40,00	42,50	8	25	2	0,109 - 0,050	27,52	0,160	158,44 €
PSG1.25-35HCK	35	43,75	46,25	10	30	3	0,109 - 0,050	30,10	0,200	163,83 €
PSG1.25-38HCK	38	47,50	50,00	10	30	3	0,109 - 0,050	32,68	0,226	170,48 €
PSG1.25-40HCK	40	50,00	52,50	10	30	3	0,120 - 0,057	38,26	0,245	176,77 €
PSG1.25-42HCK	42	52,50	55,00	10	30	3	0,122 - 0,055	40,17	0,264	178,05 €
PSG1.25-45HCK	45	56,25	58,75	10	30	3	0,122 - 0,055	43,04	0,296	180,64 €
PSG1.25-48HCK	48	60,00	62,50	10	40	3	0,122 - 0,055	45,91	0,383	182,19 €

Dimensions in mm

Module 1.25



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Keyway	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
PSG1.25-50HCK	50	62,50	65,00	10	40	3	0,122 - 0,055	51,90	0,407	201,06 €
PSG1.25-52HCK	52	65,00	67,50	10	40	3	0,122 - 0,055	53,98	0,431	207,02 €
PSG1.25-55HCK	55	68,75	71,25	10	40	3	0,122 - 0,055	57,09	0,469	215,68 €
PSG1.25-58HCK	58	72,50	75,00	10	40	3	0,122 - 0,055	60,20	0,510	222,20 €
PSG1.25-60HCK	60	75,00	77,50	10	50	3	0,122 - 0,055	64,85	0,608	227,31 €
PSG1.25-62HCK	62	77,50	80,00	10	50	3	0,122 - 0,055	67,01	0,637	234,80 €
PSG1.25-65HCK	65	81,25	83,75	10	50	3	0,123 - 0,053	70,25	0,683	251,60 €
PSG1.25-68HCK	68	85,00	87,50	10	50	3	0,123 - 0,053	73,49	0,731	264,57 €
PSG1.25-70HCK	70	87,50	90,00	10	50	3	0,123 - 0,053	75,65	0,764	270,05 €
PSG1.25-72HCK	72	90,00	92,50	10	50	3	0,123 - 0,053	77,82	0,798	275,88 €
PSG1.25-75HCK	75	93,75	96,25	10	60	3	0,123 - 0,053	81,06	0,935	294,31 €
PSG1.25-78HCK	78	97,50	100,00	10	60	3	0,123 - 0,053	84,30	0,991	298,75 €
PSG1.25-80HCK	80	100,00	102,50	10	60	3	0,138 - 0,064	90,66	1,029	304,78 €
PSG1.25-82HCK	82	102,50	105,00	10	60	3	0,138 - 0,064	92,92	1,067	309,13 €
PSG1.25-85HCK	85	106,25	108,75	10	60	3	0,138 - 0,064	96,32	1,128	315,81 €
PSG1.25-90HCK	90	112,50	115,00	10	65	3	0,138 - 0,064	101,99	1,281	325,95 €
PSG1.25-95HCK	95	118,75	121,25	10	65	3	0,138 - 0,064	107,66	1,392	360,86 €
PSG1.25-100HCK	100	125,00	127,50	14	65	5	0,140 - 0,062	115,95	1,494	365,63 €
PSG1.25-110HCK	110	137,50	140,00	14	70	5	0,140 - 0,062	121,74	1,798	457,68 €
PSG1.25-120HCK	120	150,00	152,50	14	70	5	0,140 - 0,062	127,54	2,075	517,59 €

Dimensions in mm

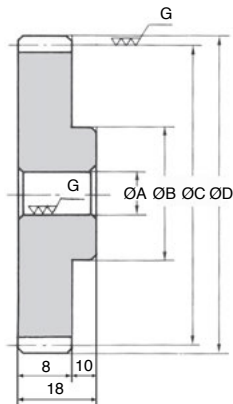
Module

Heat treated steel

1,0



- 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+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG1-15	15	15	17	12	6	0,08-0,16	0,02	91,07 €
GG1-16	16	16	18	13	6	0,08-0,16	0,02	93,98 €
GG1-17	17	17	19	14	6	0,08-0,16	0,02	96,95 €
GG1-18	18	18	20	15	6	0,08-0,16	0,03	99,17 €
GG1-19	19	19	21	16	6	0,08-0,16	0,03	102,84 €
GG1-20	20	20	22	17	6	0,08-0,16	0,03	103,92 €
GG1-21	21	21	23	18	8	0,08-0,16	0,04	106,85 €
GG1-22	22	22	24	18	8	0,08-0,16	0,04	108,75 €
GG1-23	23	23	25	20	8	0,08-0,16	0,04	112,75 €
GG1-24	24	24	26	20	8	0,08-0,16	0,05	116,09 €

Dimensions in mm

DISCOUNTS

Qty	1+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG1-25	25	25	27	20	8	0,08-0,16	0,05	118,62 €
GG1-26	26	26	28	20	8	0,08-0,16	0,05	121,53 €
GG1-27	27	27	29	20	8	0,08-0,16	0,05	124,14 €
GG1-28	28	28	30	20	8	0,08-0,16	0,06	126,72 €
GG1-29	29	29	31	25	8	0,08-0,16	0,07	132,25 €
GG1-30	30	30	32	25	10	0,08-0,16	0,07	134,06 €
GG1-32	32	32	34	25	10	0,08-0,16	0,08	136,23 €
GG1-34	34	34	36	25	10	0,08-0,16	0,08	141,77 €
GG1-35	35	35	37	25	10	0,08-0,16	0,09	144,68 €
GG1-36	36	36	38	25	10	0,08-0,16	0,09	147,64 €
GG1-38	38	38	40	30	10	0,08-0,16	0,12	152,80 €
GG1-40	40	40	42	30	10	0,08-0,16	0,12	156,09 €
GG1-42	42	42	44	30	10	0,08-0,16	0,13	158,68 €
GG1-44	44	44	46	30	10	0,08-0,16	0,14	164,20 €
GG1-45	45	45	47	30	10	0,08-0,16	0,15	168,27 €
GG1-48	48	48	50	30	10	0,08-0,16	0,16	180,71 €
GG1-50	50	50	52	35	12	0,08-0,16	0,18	187,01 €
GG1-55	55	55	57	35	12	0,10-0,18	0,21	203,92 €
GG1-56	56	56	58	35	12	0,10-0,18	0,22	206,45 €
GG1-60	60	60	62	40	12	0,10-0,18	0,26	220,76 €
GG1-64	64	64	66	40	12	0,10-0,18	0,29	236,98 €
GG1-70	70	70	72	40	12	0,10-0,18	0,32	255,72 €
GG1-75	75	75	77	40	12	0,10-0,18	0,36	273,34 €
GG1-80	80	80	82	50	15	0,10-0,18	0,45	292,81 €
GG1-90	90	90	92	50	15	0,10-0,18	0,53	328,49 €
GG1-100	100	100	102	50	15	0,10-0,18	0,63	386,51 €
GG1-120	120	120	122	50	15	0,12-0,20	0,84	471,80 €

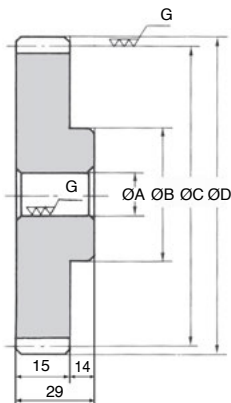
Dimensions in mm

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+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG1.5-14	14	21,0	24,0	17	10	0,08-0,16	0,06	96,21 €
GG1.5-15	15	22,5	25,5	18	10	0,08-0,16	0,07	97,69 €
GG1.5-16	16	24,0	27,0	20	10	0,08-0,16	0,08	102,84 €
GG1.5-17	17	25,5	28,5	21	10	0,08-0,16	0,08	105,04 €
GG1.5-18	18	27,0	30,0	22	10	0,08-0,16	0,10	107,60 €
GG1.5-19	19	28,5	31,5	23	10	0,08-0,16	0,10	114,54 €
GG1.5-20	20	30,0	33,0	24	10	0,08-0,16	0,13	120,08 €
GG1.5-21	21	31,5	34,5	25	10	0,08-0,16	0,13	123,42 €
GG1.5-22	22	33,0	36,0	26	12	0,08-0,16	0,15	125,57 €
GG1.5-23	23	34,5	37,5	27	12	0,08-0,16	0,15	129,65 €

Dimensions in mm

DISCOUNTS

Qty	1+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG1.5-24	24	36,0	39,0	28	12	0,08-0,16	0,18	134,06 €
GG1.5-25	25	37,5	40,5	30	12	0,08-0,16	0,20	141,77 €
GG1.5-26	26	39,0	42,0	32	12	0,08-0,16	0,20	143,32 €
GG1.5-27	27	40,5	43,5	34	15	0,08-0,16	0,21	146,22 €
GG1.5-28	28	42,0	45,0	36	15	0,08-0,16	0,25	147,26 €
GG1.5-29	29	43,5	46,5	37	15	0,08-0,16	0,25	148,38 €
GG1.5-30	30	45,0	48,0	38	15	0,08-0,16	0,29	150,25 €
GG1.5-32	32	48,0	51,0	40	15	0,08-0,16	0,33	160,15 €
GG1.5-34	34	51,0	54,0	42	15	0,08-0,18	0,35	167,90 €
GG1.5-35	35	52,5	55,5	42	15	0,08-0,18	0,39	169,34 €
GG1.5-36	36	54,0	57,0	45	15	0,08-0,18	0,43	171,18 €
GG1.5-38	38	57,0	60,0	45	15	0,08-0,18	0,44	175,63 €
GG1.5-40	40	60,0	63,0	50	15	0,08-0,18	0,53	182,57 €
GG1.5-42	42	63,0	66,0	50	15	0,08-0,18	0,54	192,49 €
GG1.5-44	44	66,0	69,0	50	15	0,08-0,18	0,58	200,94 €
GG1.5-45	45	67,5	70,5	50	18	0,10-0,18	0,61	205,38 €
GG1.5-48	48	72,0	75,0	50	18	0,10-0,18	0,67	218,98 €
GG1.5-50	50	75,0	78,0	60	18	0,10-0,18	0,80	225,20 €
GG1.5-55	55	82,5	85,5	60	18	0,10-0,18	0,92	247,59 €
GG1.5-56	56	84,0	87,0	60	18	0,10-0,18	0,92	251,67 €
GG1.5-60	60	90,0	93,0	60	20	0,10-0,18	1,00	273,34 €
GG1.5-64	64	96,0	99,0	60	20	0,10-0,18	1,10	299,43 €
GG1.5-70	70	105,0	108,0	60	20	0,12-0,20	1,30	320,35 €
GG1.5-75	75	112,5	115,5	60	20	0,12-0,20	1,40	349,41 €
GG1.5-80	80	120,0	123,0	70	20	0,12-0,20	1,70	376,26 €
GG1.5-90	90	135,0	138,0	70	20	0,12-0,20	2,00	435,41 €
GG1.5-100	100	150,0	153,0	70	20	0,12-0,20	2,40	518,12 €

Dimensions in mm

Module

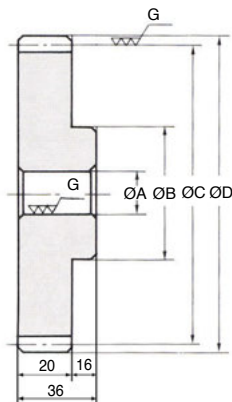
2,0



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+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG2-14	14	28	32	22	12	0,10-0,20	0,10	115,66 €
GG2-15	15	30	34	24	12	0,10-0,20	0,18	120,08 €
GG2-16	16	32	36	26	12	0,10-0,20	0,18	124,14 €
GG2-17	17	34	38	28	12	0,10-0,20	0,19	129,65 €
GG2-18	18	36	40	30	12	0,10-0,20	0,25	134,06 €
GG2-19	19	38	42	31	12	0,10-0,20	0,24	137,38 €
GG2-20	20	40	44	32	15	0,10-0,20	0,31	138,12 €
GG2-21	21	42	46	34	15	0,10-0,20	0,28	138,84 €
GG2-22	22	44	48	36	15	0,10-0,20	0,38	142,51 €
GG2-23	23	46	50	37	15	0,10-0,20	0,35	149,13 €

Dimensions in mm

DISCOUNTS

Qty	1+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG2-24	24	48	52	38	15	0,10-0,20	0,45	152,43 €
GG2-25	25	50	54	40	15	0,10-0,20	0,49	153,55 €
GG2-26	26	52	56	42	15	0,12-0,22	0,46	163,11 €
GG2-27	27	54	58	44	15	0,12-0,22	0,50	164,57 €
GG2-28	28	56	60	45	15	0,12-0,22	0,61	170,04 €
GG2-29	29	58	62	48	15	0,12-0,22	0,59	171,58 €
GG2-30	30	60	64	50	18	0,12-0,22	0,67	175,63 €
GG2-32	32	64	68	50	18	0,12-0,22	0,74	182,24 €
GG2-34	34	68	72	50	18	0,12-0,22	0,75	194,70 €
GG2-35	35	70	74	50	18	0,12-0,22	0,84	202,37 €
GG2-36	36	72	76	50	18	0,12-0,22	0,88	204,64 €
GG2-38	38	76	80	50	18	0,12-0,22	0,89	218,62 €
GG2-40	40	80	84	60	20	0,12-0,22	1,10	239,91 €
GG2-42	42	84	88	60	20	0,12-0,22	1,10	247,27 €
GG2-44	44	88	92	60	20	0,12-0,22	1,20	261,60 €
GG2-45	45	90	94	60	20	0,12-0,22	1,30	269,29 €
GG2-48	48	96	100	60	20	0,12-0,22	1,50	293,60 €
GG2-50	50	100	104	60	25	0,12-0,22	1,60	303,50 €
GG2-55	55	110	114	60	25	0,14-0,24	1,70	334,69 €
GG2-56	56	112	116	60	25	0,14-0,24	1,80	340,61 €
GG2-60	60	120	124	65	25	0,14-0,24	2,20	372,15 €
GG2-64	64	128	132	65	25	0,14-0,24	2,30	407,87 €
GG2-70	70	140	144	70	25	0,14-0,24	2,90	449,36 €
GG2-75	75	150	154	70	25	0,14-0,24	3,10	500,06 €
GG2-80	80	160	164	80	25	0,14-0,24	3,80	530,59 €
GG2-90	90	180	184	80	25	0,14-0,24	4,50	628,37 €
GG2-100	100	200	204	80	25	0,14-0,24	5,40	737,14 €

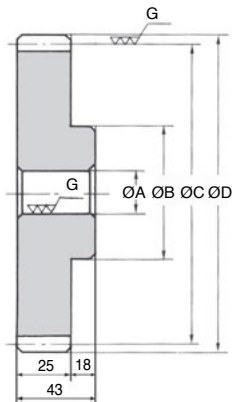
Dimensions in mm

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+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG2.5-14	14	35,0	40,0	28	15	0,10-0,20	0,28	124,93 €
GG2.5-15	15	37,5	42,5	30	15	0,10-0,20	0,33	130,42 €
GG2.5-16	16	40,0	45,0	32	15	0,10-0,20	0,38	139,91 €
GG2.5-17	17	42,5	47,5	35	15	0,10-0,20	0,36	144,34 €
GG2.5-18	18	45,0	50,0	38	15	0,10-0,20	0,50	152,43 €
GG2.5-19	19	47,5	52,5	39	15	0,10-0,20	0,46	159,03 €
GG2.5-20	20	50,0	55,0	40	18	0,10-0,20	0,55	170,43 €
GG2.5-21	21	52,5	57,5	42	18	0,12-0,22	0,54	174,49 €
GG2.5-22	22	55,0	60,0	44	18	0,12-0,22	0,60	184,02 €
GG2.5-23	23	57,5	62,5	46	18	0,12-0,22	0,66	189,16 €

Dimensions in mm

DISCOUNTS

Qty	1+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG2.5-24	24	60,0	65,0	48	18	0,12-0,22	0,81	198,72 €
GG2.5-25	25	62,5	67,5	50	20	0,12-0,22	0,93	205,38 €
GG2.5-26	26	65,0	70,0	54	20	0,12-0,22	0,87	216,81 €
GG2.5-27	27	67,5	72,5	56	20	0,12-0,22	0,94	221,55 €
GG2.5-28	28	70,0	75,0	60	20	0,12-0,22	1,20	231,48 €
GG2.5-29	29	72,5	77,5	60	20	0,12-0,22	1,10	238,08 €
GG2.5-30	30	75,0	80,0	65	20	0,12-0,22	1,30	249,46 €
GG2.5-32	32	80,0	85,0	70	20	0,12-0,22	1,50	264,22 €
GG2.5-34	34	85,0	90,0	70	20	0,12-0,22	1,60	282,18 €
GG2.5-35	35	87,5	92,5	70	20	0,12-0,22	1,70	286,60 €
GG2.5-36	36	90,0	95,0	70	20	0,12-0,22	1,80	303,09 €
GG2.5-38	38	95,0	100,0	70	20	0,12-0,22	1,80	323,68 €
GG2.5-40	40	100,0	105,0	70	25	0,14-0,24	2,10	337,28 €
GG2.5-42	42	105,0	110,0	75	25	0,14-0,24	2,20	360,10 €
GG2.5-44	44	110,0	115,0	75	25	0,14-0,24	2,30	371,43 €
GG2.5-45	45	112,5	117,5	75	25	0,14-0,24	2,60	377,72 €
GG2.5-48	48	120,0	125,0	75	25	0,14-0,24	2,80	406,76 €
GG2.5-50	50	125,0	130,0	80	25	0,14-0,24	3,10	431,39 €
GG2.5-55	55	137,5	142,5	80	25	0,14-0,24	3,50	473,65 €
GG2.5-56	56	140,0	145,0	80	25	0,14-0,24	3,60	485,37 €
GG2.5-60	60	150,0	155,0	80	25	0,14-0,24	4,20	534,63 €
GG2.5-70	70	175,0	180,0	80	25	0,14-0,24	5,30	668,07 €
GG2.5-75	75	187,5	192,5	90	25	0,14-0,24	6,20	734,98 €
GG2.5-80	80	200,0	205,0	90	25	0,14-0,24	6,90	821,27 €

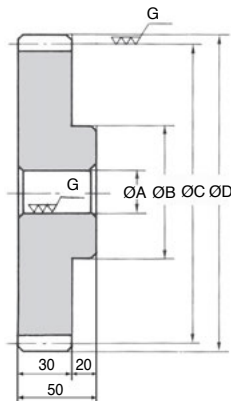
Dimensions in mm

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+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG3-14	14	42	48	34	16	0,10-0,20	0,51	159,81 €
GG3-15	15	45	51	36	16	0,10-0,20	0,58	162,34 €
GG3-16	16	48	54	38	16	0,10-0,20	0,66	168,99 €
GG3-17	17	51	57	37	16	0,12-0,22	0,57	174,86 €
GG3-18	18	54	60	40	16	0,12-0,22	0,80	184,39 €
GG3-19	19	57	63	45	16	0,12-0,22	0,77	196,16 €
GG3-20	20	60	66	50	20	0,12-0,22	0,98	205,03 €
GG3-21	21	63	69	52	20	0,12-0,22	0,94	218,26 €
GG3-22	22	66	72	54	20	0,12-0,22	1,20	224,46 €
GG3-23	23	69	75	56	20	0,12-0,22	1,10	237,70 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	11+
Disc.	List	-10%	On request

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Backlash (mm)	Weight (kg)	Price each 1 to 5
GG3-24	24	72	78	58	20	0,12-0,22	1,40	242,83 €
GG3-25	25	75	81	60	20	0,12-0,22	1,50	253,86 €
GG3-26	26	78	84	62	20	0,12-0,22	1,50	271,92 €
GG3-27	27	81	87	65	20	0,12-0,22	1,60	276,98 €
GG3-28	28	84	90	70	20	0,12-0,22	2,00	289,51 €
GG3-29	29	87	93	70	20	0,12-0,22	1,90	297,64 €
GG3-30	30	90	96	75	25	0,12-0,22	2,20	313,43 €
GG3-32	32	96	102	75	25	0,12-0,22	2,40	339,51 €
GG3-34	34	102	108	75	25	0,14-0,24	2,40	370,38 €
GG3-35	35	105	111	80	25	0,14-0,24	2,90	376,62 €
GG3-36	36	108	114	80	25	0,14-0,24	3,00	385,06 €
GG3-38	38	114	120	80	25	0,14-0,24	3,00	414,13 €
GG3-40	40	120	126	80	25	0,14-0,24	3,50	436,16 €
GG3-42	42	126	132	80	25	0,14-0,24	3,50	467,35 €
GG3-44	44	132	138	80	25	0,14-0,24	3,80	482,82 €
GG3-45	45	135	141	80	25	0,14-0,24	4,20	504,10 €
GG3-48	48	144	150	85	25	0,14-0,24	5,30	554,14 €
GG3-50	50	150	156	85	30	0,14-0,24	5,60	572,11 €
GG3-55	55	165	171	90	30	0,14-0,24	5,90	691,53 €
GG3-56	56	168	174	90	30	0,14-0,24	6,00	697,84 €
GG3-60	60	180	186	100	30	0,14-0,24	7,40	750,36 €
GG3-70	70	210	216	100	30	0,14-0,24	9,10	936,34 €
GG3-75	75	225	231	100	30	0,14-0,24	10,30	1 051,69 €
GG3-80	80	240	246	100	30	0,14-0,24	11,60	1 155,35 €

Dimensions in mm

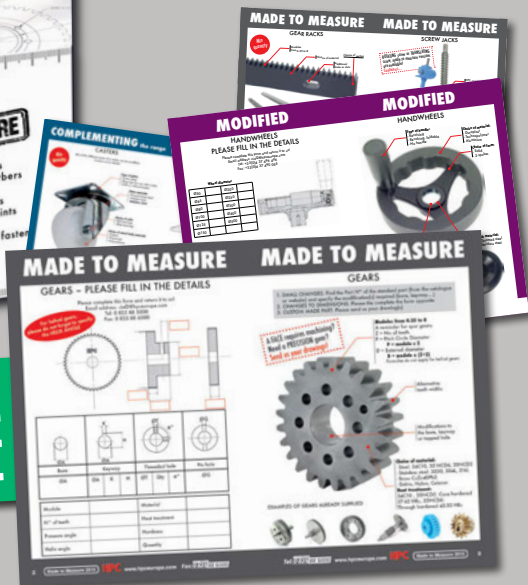
MADE TO MEASURE

HPC
MADE TO MEASURE

Worms and wheels	Linear shafts
Gears	Shock absorbers
Pulleys	Ball pins
Chain sprockets	Hand wheels
Racks	Universal joints
Screw jacks	Couplings
Ball screws	Screws and fasteners
Lead screws	Coasters
Gearboxes	Feet
Springs	Brushes

MADE TO MEASURE
GEARS

FREE GUIDE



PRECISION HELICAL GEARS

p.454 - 487

PARALLEL HELICAL GEAR



p.454

CROSSED HELICAL GEAR



p.466

Module

0.5



Parallel helical gear

Pre-treated or case hardened steel

- **Quality grade 7e DIN 58405 (AGMA Q10)**
- 15° Right angled helical (R in Part number)
- 15° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

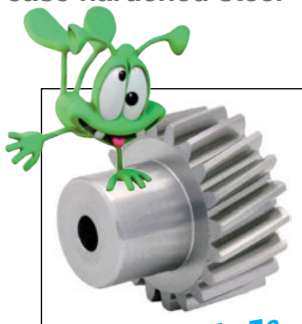
Info.

- Torque figures are for 100 rpm and are given as a guide only.

- Grade and tolerances measured before heat treatment

Important: A 15° right angled helical gear must be used with a corresponding 15° left angled gear.

Incompatible with SH range.



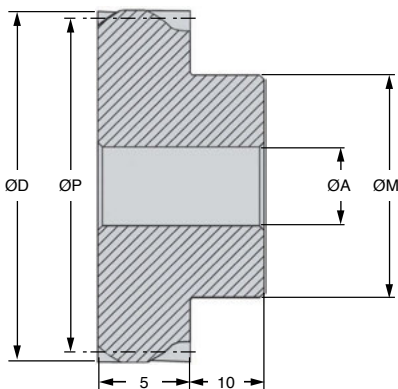
Quality grade 7e

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)			Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened	(kg)	Standard	Hardened
PHG0.5-20R	PHG0.5-20RH	20	10,35	11,35	4	8	0,079 - 0,037	0,34	1,25	0,006	32,48 €	53,66 €
PHG0.5-21R	PHG0.5-21RH	21	10,87	11,87	4	8	0,079 - 0,037	0,36	1,31	0,007	32,81 €	54,22 €
PHG0.5-22R	PHG0.5-22RH	22	11,39	12,39	4	8	0,079 - 0,037	0,37	1,37	0,007	33,40 €	55,12 €
PHG0.5-23R	PHG0.5-23RH	23	11,91	12,91	4	8	0,079 - 0,037	0,39	1,43	0,007	33,73 €	55,65 €
PHG0.5-24R	PHG0.5-24RH	24	12,42	13,42	5	10	0,091 - 0,044	0,41	1,50	0,009	34,15 €	56,32 €
PHG0.5-25R	PHG0.5-25RH	25	12,94	13,94	5	10	0,091 - 0,044	0,43	1,56	0,009	34,47 €	56,91 €
PHG0.5-26R	PHG0.5-26RH	26	13,46	14,46	5	10	0,091 - 0,044	0,56	1,79	0,009	35,02 €	57,83 €
PHG0.5-27R	PHG0.5-27RH	27	13,98	14,98	5	10	0,091 - 0,044	0,58	1,86	0,010	35,32 €	58,35 €
PHG0.5-28R	PHG0.5-28RH	28	14,49	15,49	5	10	0,091 - 0,044	0,60	1,92	0,010	35,79 €	59,16 €
PHG0.5-29R	PHG0.5-29RH	29	15,01	16,01	6	13	0,091 - 0,044	0,62	1,99	0,015	35,96 €	59,34 €
PHG0.5-30R	PHG0.5-30RH	30	15,53	16,53	6	13	0,091 - 0,044	0,73	2,05	0,015	36,03 €	59,53 €
PHG0.5-32R	PHG0.5-32RH	32	16,56	17,56	6	13	0,091 - 0,044	0,78	2,19	0,016	36,84 €	60,83 €
PHG0.5-35R	PHG0.5-35RH	35	18,12	19,12	6	13	0,092 - 0,043	0,85	2,39	0,018	38,11 €	62,93 €
PHG0.5-38R	PHG0.5-38RH	38	19,67	20,67	6	18	0,092 - 0,043	0,93	2,60	0,028	39,43 €	65,13 €
PHG0.5-40R	PHG0.5-40RH	40	20,71	21,71	6	18	0,092 - 0,043	1,25	3,04	0,030	40,17 €	66,32 €
PHG0.5-42R	PHG0.5-42RH	42	21,74	22,74	6	18	0,092 - 0,043	1,31	3,19	0,031	40,92 €	67,56 €
PHG0.5-45R	PHG0.5-45RH	45	23,29	24,29	6	18	0,092 - 0,043	1,40	3,42	0,033	42,19 €	69,64 €
PHG0.5-48R	PHG0.5-48RH	48	24,85	25,85	6	18	0,092 - 0,043	1,50	3,65	0,036	43,47 €	71,75 €
PHG0.5-50R	PHG0.5-50RH	50	25,88	26,88	6	18	0,100 - 0,047	1,95	4,12	0,037	44,26 €	73,00 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm)		Weight Standard Hardened (kg)	Price each 1 to 5	
Standard	Hardened							Standard	Hardened		Standard	Hardened
PHG0.5-52R	PHG0.5-52RH	52	26,92	27,92	6	25	0,100 - 0,047	2,03	4,29	0,057	44,91 €	74,09 €
PHG0.5-55R	PHG0.5-55RH	55	28,47	29,47	6	25	0,100 - 0,047	2,15	4,53	0,060	45,82 €	75,72 €
PHG0.5-58R	PHG0.5-58RH	58	30,02	31,02	6	25	0,102 - 0,046	2,27	4,78	0,063	46,75 €	77,21 €
PHG0.5-60R	PHG0.5-60RH	60	31,06	32,06	6	25	0,102 - 0,046	2,67	5,15	0,065	47,44 €	78,28 €
PHG0.5-62R	PHG0.5-62RH	62	32,09	33,09	6	25	0,102 - 0,046	2,76	5,32	0,067	47,96 €	79,14 €
PHG0.5-65R	PHG0.5-65RH	65	33,65	34,65	6	25	0,102 - 0,046	2,89	5,58	0,070	48,92 €	80,75 €
PHG0.5-68R	PHG0.5-68RH	68	35,20	36,20	6	25	0,102 - 0,046	3,03	5,84	0,073	49,47 €	81,72 €
PHG0.5-70R	PHG0.5-70RH	70	36,23	37,23	6	25	0,102 - 0,046	3,11	6,01	0,075	49,73 €	82,06 €
PHG0.5-72R	PHG0.5-72RH	72	37,27	38,27	6	25	0,102 - 0,046	3,20	6,18	0,078	50,31 €	82,97 €
PHG0.5-75R	PHG0.5-75RH	75	38,82	39,82	6	25	0,102 - 0,046	3,34	6,44	0,081	50,68 €	83,62 €
PHG0.5-78R	PHG0.5-78RH	78	40,38	41,38	8	35	0,102 - 0,046	3,47	6,69	0,119	51,55 €	85,10 €
PHG0.5-80R	PHG0.5-80RH	80	41,41	42,41	8	35	0,102 - 0,046	4,60	7,20	0,122	51,79 €	85,49 €
PHG0.5-82R	PHG0.5-82RH	82	42,45	43,45	8	35	0,102 - 0,046	4,71	7,38	0,125	52,26 €	86,26 €
PHG0.5-85R	PHG0.5-85RH	85	44,00	45,00	8	35	0,102 - 0,046	4,89	7,65	0,129	52,78 €	87,13 €
PHG0.5-90R	PHG0.5-90RH	90	46,59	47,59	8	35	0,102 - 0,046	5,17	8,10	0,136	53,78 €	88,76 €
PHG0.5-100R	PHG0.5-100RH	100	51,76	52,76	8	35	0,115 - 0,097	5,89	9,21	0,151	54,62 €	90,10 €
PHG0.5-120R	PHG0.5-120RH	120	62,12	63,12	8	35	0,115 - 0,097	7,07	11,05	0,188	66,07 €	109,06 €
PHG0.5-130R	PHG0.5-130RH	130	67,29	68,29	12	45	0,115 - 0,097	7,66	11,97	0,251	75,22 €	124,13 €
PHG0.5-140R	PHG0.5-140RH	140	72,47	73,47	12	45	0,115 - 0,097	8,25	12,89	0,273	79,01 €	130,44 €
PHG0.5-150R	PHG0.5-150RH	150	77,65	78,65	12	45	0,115 - 0,097	9,03	14,11	0,297	87,27 €	144,05 €
PHG0.5-200R	PHG0.5-200RH	200	103,53	104,53	14	55	0,139 - 0,066	12,17	19,01	0,498	106,24 €	175,31 €
PHG0.5-230R	PHG0.5-230RH	230	119,06	120,06	16	65	0,139 - 0,066	13,99	21,86	0,673	118,86 €	196,19 €

Dimensions in mm

Module
1.0Parallel helical gear
Pre-treated or case hardened steel

- **Quality grade 7e25 DIN 3961**
- 15° Right angled helical (R in Part number)
- 15° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

Important: A 15° right angled helical gear must be used with a corresponding 15° left angled gear.
Incompatible with SH range.

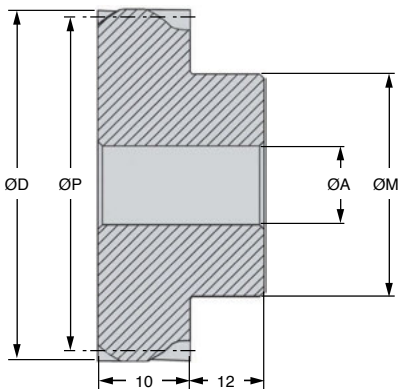
Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PHG1.0-18R	PHG1.0-18RH	18	18,63	20,63	5	13	0,132 - 0,054	1,68	6,14	0,030	32,86 €	54,22 €
PHG1.0-19R	PHG1.0-19RH	19	19,67	21,67	5	13	0,132 - 0,054	1,77	6,48	0,033	33,50 €	55,33 €
PHG1.0-20R	PHG1.0-20RH	20	20,71	22,71	5	13	0,132 - 0,054	2,37	8,69	0,035	34,47 €	56,91 €
PHG1.0-21R	PHG1.0-21RH	21	21,74	23,74	5	13	0,132 - 0,054	2,49	9,12	0,038	34,73 €	57,34 €
PHG1.0-22R	PHG1.0-22RH	22	22,78	24,78	5	13	0,132 - 0,054	2,61	9,56	0,041	35,16 €	58,04 €
PHG1.0-23R	PHG1.0-23RH	23	23,81	25,81	5	13	0,132 - 0,054	2,72	9,99	0,044	35,32 €	58,35 €
PHG1.0-24R	PHG1.0-24RH	24	24,85	26,85	6	20	0,132 - 0,054	2,84	10,43	0,062	35,53 €	58,68 €
PHG1.0-25R	PHG1.0-25RH	25	25,88	27,88	6	20	0,132 - 0,054	2,96	10,86	0,066	36,98 €	61,01 €
PHG1.0-26R	PHG1.0-26RH	26	26,92	28,92	6	20	0,132 - 0,054	3,88	14,21	0,069	38,53 €	63,59 €
PHG1.0-27R	PHG1.0-27RH	27	27,95	29,95	6	20	0,132 - 0,054	4,02	14,76	0,072	39,13 €	64,64 €
PHG1.0-28R	PHG1.0-28RH	28	28,99	30,99	6	20	0,132 - 0,054	4,17	15,30	0,076	40,05 €	66,07 €
PHG1.0-29R	PHG1.0-29RH	29	30,02	32,02	6	20	0,134 - 0,053	4,32	15,85	0,080	41,03 €	67,72 €
PHG1.0-30R	PHG1.0-30RH	30	31,06	33,06	6	20	0,134 - 0,053	5,10	16,39	0,084	41,81 €	69,02 €
PHG1.0-32R	PHG1.0-32RH	32	33,13	35,13	6	20	0,134 - 0,053	5,44	17,48	0,092	42,79 €	70,65 €
PHG1.0-35R	PHG1.0-35RH	35	36,23	38,23	6	20	0,134 - 0,053	5,95	19,12	0,105	44,26 €	73,00 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm)		Weight Standard Hardened (kg)	Price each 1 to 5	
Standard	Hardened							Standard	Hardened		Standard	Hardened
PHG1.0-38R	PHG1.0-38RH	38	39,34	41,34	8	35	0,134 - 0,053	6,46	20,76	0,176	46,18 €	76,23 €
PHG1.0-40R	PHG1.0-40RH	40	41,41	43,41	8	35	0,134 - 0,053	8,70	24,31	0,187	47,86 €	78,97 €
PHG1.0-42R	PHG1.0-42RH	42	43,48	45,48	8	35	0,134 - 0,053	9,13	25,52	0,197	47,86 €	79,44 €
PHG1.0-45R	PHG1.0-45RH	45	46,59	48,59	8	35	0,134 - 0,053	9,78	27,35	0,215	48,75 €	80,52 €
PHG1.0-48R	PHG1.0-48RH	48	49,69	51,69	8	35	0,134 - 0,053	10,44	29,17	0,233	49,36 €	81,43 €
PHG1.0-50R	PHG1.0-50RH	50	51,76	53,76	10	40	0,177 - 0,072	13,60	32,97	0,269	54,35 €	89,65 €
PHG1.0-52R	PHG1.0-52RH	52	53,83	55,83	10	40	0,177 - 0,072	14,15	34,29	0,282	55,99 €	92,40 €
PHG1.0-55R	PHG1.0-55RH	55	56,94	58,94	10	40	0,177 - 0,072	14,96	36,27	0,303	58,32 €	96,26 €
PHG1.0-58R	PHG1.0-58RH	58	60,05	62,05	10	40	0,177 - 0,072	15,78	38,25	0,326	60,12 €	99,16 €
PHG1.0-60R	PHG1.0-60RH	60	62,12	64,12	10	40	0,177 - 0,072	18,59	41,20	0,341	61,66 €	101,80 €
PHG1.0-62R	PHG1.0-62RH	62	64,19	66,19	10	40	0,177 - 0,072	19,21	42,57	0,357	63,47 €	104,78 €
PHG1.0-65R	PHG1.0-65RH	65	67,29	69,29	10	50	0,177 - 0,072	20,14	44,63	0,449	68,14 €	112,48 €
PHG1.0-68R	PHG1.0-68RH	68	70,40	72,40	10	50	0,177 - 0,072	21,07	46,69	0,475	71,44 €	117,91 €
PHG1.0-70R	PHG1.0-70RH	70	72,47	74,47	10	50	0,177 - 0,072	21,69	48,07	0,493	72,88 €	120,28 €
PHG1.0-72R	PHG1.0-72RH	72	74,54	76,54	10	50	0,177 - 0,072	22,31	49,44	0,512	74,44 €	122,88 €
PHG1.0-75R	PHG1.0-75RH	75	77,65	79,65	10	50	0,177 - 0,072	23,24	51,50	0,541	78,22 €	129,11 €
PHG1.0-78R	PHG1.0-78RH	78	80,75	82,75	10	50	0,179 - 0,070	24,17	53,56	0,571	80,94 €	133,57 €
PHG1.0-80R	PHG1.0-80RH	80	82,82	84,82	10	50	0,179 - 0,070	32,03	57,60	0,592	82,45 €	136,09 €
PHG1.0-82R	PHG1.0-82RH	82	84,89	86,89	12	60	0,179 - 0,070	32,83	59,04	0,689	85,12 €	140,50 €
PHG1.0-85R	PHG1.0-85RH	85	88,00	90,00	12	60	0,179 - 0,070	34,03	61,20	0,722	87,60 €	144,55 €
PHG1.0-90R	PHG1.0-90RH	90	93,17	95,17	12	60	0,179 - 0,070	36,03	64,80	0,780	90,05 €	148,64 €
PHG1.0-95R	PHG1.0-95RH	95	98,35	100,35	12	60	0,179 - 0,070	38,03	68,40	0,840	97,59 €	161,09 €
PHG1.0-100R	PHG1.0-100RH	100	103,53	105,53	12	60	0,179 - 0,070	47,15	73,67	0,905	98,85 €	163,10 €
PHG1.0-110R	PHG1.0-110RH	110	113,88	115,88	14	70	0,179 - 0,070	51,86	81,03	1,132	113,71 €	187,65 €
PHG1.0-120R	PHG1.0-120RH	120	124,23	126,23	14	70	0,181 - 0,068	56,57	88,40	1,284	140,05 €	231,12 €
PHG1.0-125R	PHG1.0-125RH	125	129,41	131,41	14	70	0,235 - 0,101	58,93	92,08	1,365	150,49 €	248,37 €

Dimensions in mm

Module 1.5 Parallel helical gear

Pre-treated or case hardened steel



- **Quality grade 7e25 DIN 3961**
- 15° Right angled helical (R in Part number)
- 15° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment
- Important:** A 15° right angled helical gear must be used with a corresponding 15° left angled gear.
- Incompatible with SH range.

Quality grade 7e25

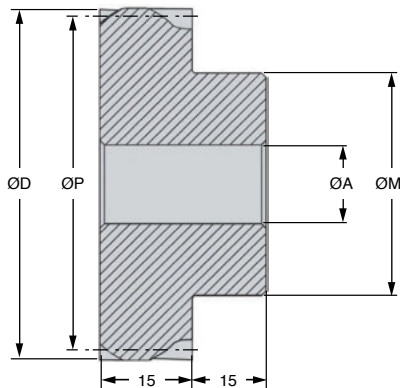
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Standard	Hardened	Z	OP	Teeth	Pitch	ØD	OA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5
							External Bore		Boss	(mm)	Standard Hardened	(kg)	Standard Hardened
PHG1.5-15R	PHG1.5-15RH		15	23,29	26,29	6	19	0.132 - 0.054	4,35	15,93	0,076	39,68	65,44 €
PHG1.5-16R	PHG1.5-16RH		16	24,85	27,85	6	19	0.132 - 0.054	4,63	16,99	0,083	40,60	67,00 €
PHG1.5-17R	PHG1.5-17RH		17	26,40	29,40	6	19	0.132 - 0.054	4,92	18,06	0,090	41,81	69,02 €
PHG1.5-18R	PHG1.5-18RH		18	27,95	30,95	6	19	0.132 - 0.054	5,21	19,12	0,098	43,08	71,09 €
PHG1.5-19R	PHG1.5-19RH		19	29,51	32,51	6	19	0.132 - 0.054	5,50	20,18	0,106	44,72	73,84 €
PHG1.5-20R	PHG1.5-20RH		20	31,06	34,06	6	19	0.134 - 0.053	7,37	27,04	0,115	46,89	77,40 €
PHG1.5-21R	PHG1.5-21RH		21	32,61	35,61	6	19	0.134 - 0.053	7,74	28,39	0,124	47,54	78,53 €
PHG1.5-22R	PHG1.5-22RH		22	34,16	37,16	8	28	0.134 - 0.053	8,11	29,74	0,167	47,96	79,14 €
PHG1.5-23R	PHG1.5-23RH		23	35,72	38,72	8	28	0.134 - 0.053	8,48	31,09	0,177	48,70	80,39 €
PHG1.5-24R	PHG1.5-24RH		24	37,27	40,27	8	28	0.134 - 0.053	8,85	32,44	0,188	49,36	81,43 €
PHG1.5-25R	PHG1.5-25RH		25	38,82	41,82	8	28	0.134 - 0.053	9,22	33,80	0,198	51,79	85,49 €
PHG1.5-26R	PHG1.5-26RH		26	40,38	43,38	8	28	0.134 - 0.053	12,06	44,23	0,210	54,27	89,58 €
PHG1.5-27R	PHG1.5-27RH		27	41,93	44,93	8	28	0.134 - 0.053	12,53	45,93	0,221	56,20	92,73 €
PHG1.5-28R	PHG1.5-28RH		28	43,48	46,48	8	28	0.134 - 0.053	12,99	47,63	0,234	57,75	95,33 €

Dimensions in mm

Module 1.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	Hardened	(kg)	Standard	Hardened
PHG1.5-29R	PHG1.5-29RH	29	45.03	48.03	10	40	0.134 - 0.053	13,45	49,33	0.315	58,53 €	96,63 €
PHG1.5-30R	PHG1.5-30RH	30	46.59	49.59	10	40	0.134 - 0.053	15,86	55,32	0.328	60,29 €	99,54 €
PHG1.5-32R	PHG1.5-32RH	32	49.69	52.69	10	40	0.134 - 0.053	16,92	59,01	0.355	62,41 €	103,03 €
PHG1.5-35R	PHG1.5-35RH	35	54.35	57.35	10	40	0.177 - 0.072	18,51	64,54	0.400	64,30 €	106,08 €
PHG1.5-38R	PHG1.5-38RH	38	59.01	62.01	12	50	0.177 - 0.072	20,09	70,07	0.524	70,45 €	116,25 €
PHG1.5-40R	PHG1.5-40RH	40	62.12	65.12	12	50	0.177 - 0.072	27,06	82,04	0.558	73,56 €	121,43 €
PHG1.5-42R	PHG1.5-42RH	42	65.22	68.22	12	50	0.177 - 0.072	28,42	86.15	0.595	73,64 €	121,52 €
PHG1.5-45R	PHG1.5-45RH	45	69.88	72.88	12	50	0.177 - 0.072	30,45	92,30	0.652	75,24 €	124,18 €
PHG1.5-48R	PHG1.5-48RH	48	74.54	77.54	12	50	0.177 - 0.072	32,48	98.45	0.714	80,30 €	132,55 €
PHG1.5-50R	PHG1.5-50RH	50	77.65	80.65	14	65	0.177 - 0.072	42,34	111,29	0.908	90,05 €	148,62 €
PHG1.5-52R	PHG1.5-52RH	52	80.75	83.75	14	65	0.179 - 0.070	44,03	115,74	0.953	94,27 €	155,59 €
PHG1.5-55R	PHG1.5-55RH	55	85.41	88.41	14	65	0.179 - 0.070	46,57	122,42	1.024	96,87 €	159,81 €
PHG1.5-58R	PHG1.5-58RH	58	90.07	93.07	14	65	0.179 - 0.070	49,11	129,09	1.100	98,85 €	163,10 €
PHG1.5-60R	PHG1.5-60RH	60	93.17	96.17	14	65	0.179 - 0.070	57,86	139,05	1.152	99,86 €	164,78 €
PHG1.5-62R	PHG1.5-62RH	62	96.28	99.28	14	65	0.179 - 0.070	59,78	143,68	1.206	101,78 €	167,93 €
PHG1.5-65R	PHG1.5-65RH	65	100.94	103.94	16	85	0.179 - 0.070	62,68	150,64	1.557	105,54 €	174,25 €
PHG1.5-68R	PHG1.5-68RH	68	105.60	108.60	16	85	0.179 - 0.070	65,57	157,59	1.646	112,08 €	184,97 €
PHG1.5-70R	PHG1.5-70RH	70	108.70	111.70	16	85	0.179 - 0.070	67,50	162,22	1.707	116,00 €	191,45 €
PHG1.5-72R	PHG1.5-72RH	72	111.81	114.81	16	85	0.179 - 0.070	69,43	166,86	1.770	122,62 €	202,37 €
PHG1.5-75R	PHG1.5-75RH	75	116.47	119.47	16	85	0.179 - 0.070	72,32	173,81	1.868	130,65 €	215,62 €
PHG1.5-78R	PHG1.5-78RH	78	121.13	124.13	16	85	0.186 - 0.070	75,21	180,76	1.970	137,72 €	227,29 €

Dimensions in mm

Module
2.0

Parallel helical gear

Pre-treated or case hardened steel



- **Quality grade 7e25 DIN 3961**
- 15° Right angled helical (R in Part number)
- 15° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.

- Grade and tolerances measured before heat treatment

Important: A 15° right angled helical gear must be used with a corresponding 15° left angled gear.

Incompatible with SH range.

Quality grade 7e25

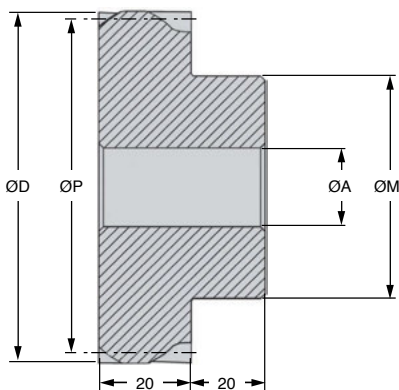
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PHG2.0-15R	PHG2.0-15RH	15	31.06	35.06	10	25	0.134 - 0.053	9.72	35.65	0.170	58.74 €	96.95 €
PHG2.0-16R	PHG2.0-16RH	16	33.13	37.13	10	25	0.134 - 0.053	10.37	38.03	0.186	61.66 €	101.80 €
PHG2.0-17R	PHG2.0-17RH	17	35.20	39.20	10	25	0.134 - 0.053	11.02	40.41	0.203	62.95 €	103.91 €
PHG2.0-18R	PHG2.0-18RH	18	37.27	41.27	10	25	0.134 - 0.053	11.67	42.79	0.222	64.57 €	106.55 €
PHG2.0-19R	PHG2.0-19RH	19	39.34	43.34	10	25	0.134 - 0.053	12.32	45.16	0.241	66.18 €	109.24 €
PHG2.0-20R	PHG2.0-20RH	20	41.41	45.41	10	25	0.134 - 0.053	16.50	60.51	0.261	67.56 €	111.52 €
PHG2.0-21R	PHG2.0-21RH	21	43.48	47.48	12	35	0.134 - 0.053	17.33	63.53	0.346	69.39 €	114.51 €
PHG2.0-22R	PHG2.0-22RH	22	45.55	49.55	12	35	0.134 - 0.053	18.15	66.56	0.368	70.65 €	116.55 €
PHG2.0-23R	PHG2.0-23RH	23	47.62	51.62	12	35	0.134 - 0.053	18.98	69.58	0.392	72.03 €	118.93 €
PHG2.0-24R	PHG2.0-24RH	24	49.69	53.69	12	35	0.134 - 0.053	19.80	72.61	0.416	73.60 €	121.45 €
PHG2.0-25R	PHG2.0-25RH	25	51.76	55.76	12	35	0.177 - 0.072	20.63	75.63	0.442	77.85 €	128.52 €
PHG2.0-26R	PHG2.0-26RH	26	53.83	57.83	12	35	0.177 - 0.072	26.99	98.97	0.469	80.12 €	132.29 €
PHG2.0-27R	PHG2.0-27RH	27	55.90	59.90	12	35	0.177 - 0.072	28.03	102.78	0.497	82.92 €	136.82 €

Dimensions in mm

Module 2.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5		
Standard	Hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	Hardened (kg)	Standard	Hardened	
PHG2.0-28R	PHG2.0-28RH	28	57.98	61.98	14	45	0.177 - 0.072	29.07	106.58	0.611	84,78 €	139,94 €
PHG2.0-29R	PHG2.0-29RH	29	60.05	64.05	14	45	0.177 - 0.072	30.11	110.39	0.641	86,85 €	143,29 €
PHG2.0-30R	PHG2.0-30RH	30	62.12	66.12	14	45	0.177 - 0.072	35.50	130.15	0.672	88,70 €	146,44 €
PHG2.0-32R	PHG2.0-32RH	32	66.26	70.26	14	45	0.177 - 0.072	37.86	138.83	0.737	96,43 €	159,13 €
PHG2.0-35R	PHG2.0-35RH	35	72.47	76.47	14	45	0.177 - 0.072	41.41	151.84	0.843	106,55 €	175,81 €
PHG2.0-38R	PHG2.0-38RH	38	78.68	82.68	16	50	0.177 - 0.072	44.96	164.86	1.001	116,91 €	192,91 €
PHG2.0-40R	PHG2.0-40RH	40	82.82	86.82	16	50	0.179 - 0.070	60.57	194.48	1.083	121,77 €	200,94 €
PHG2.0-42R	PHG2.0-42RH	42	86.96	90.96	16	50	0.179 - 0.070	63.59	204.20	1.169	125,49 €	207,05 €
PHG2.0-45R	PHG2.0-45RH	45	93.17	97.17	16	50	0.179 - 0.070	68.14	218.79	1.307	131,01 €	216,18 €
PHG2.0-48R	PHG2.0-48RH	48	99.39	103.39	16	60	0.179 - 0.070	72.68	233.37	1.589	141,12 €	232,86 €
PHG2.0-50R	PHG2.0-50RH	50	103.53	107.53	16	60	0.179 - 0.070	94.75	263.79	1.692	151,02 €	249,24 €
PHG2.0-52R	PHG2.0-52RH	52	107.67	111.67	16	60	0.179 - 0.070	98.54	274.34	1.799	156,71 €	258,62 €
PHG2.0-55R	PHG2.0-55RH	55	113.88	117.88	16	60	0.179 - 0.070	104.22	290.17	1.968	176,94 €	291,93 €
PHG2.0-58R	PHG2.0-58RH	58	120.09	124.09	20	70	0.181 - 0.068	109.91	306.00	2.272	187,70 €	309,68 €
PHG2.0-60R	PHG2.0-60RH	60	124.23	128.23	20	70	0.181 - 0.068	129.47	329.60	2.396	192,44 €	317,55 €
PHG2.0-62R	PHG2.0-62RH	62	128.37	132.37	20	70	0.235 - 0.101	133.79	340.59	2.524	197,07 €	325,18 €

Dimensions in mm

Module 2.5



Parallel helical gear

Pre-treated or case hardened steel



- **Quality grade 7e25 DIN 3961**
- 15° Right angled helical (R in Part number)
- 15° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

Important: A 15° right angled helical gear must be used with a corresponding 15° left angled gear.
Incompatible with SH range.

quality grade 7e25

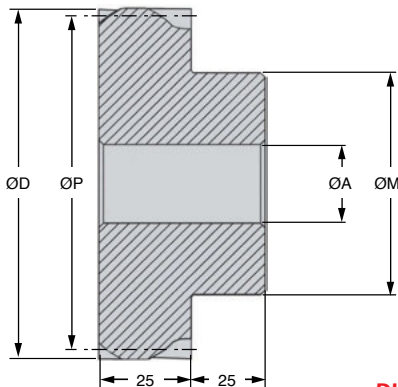
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PHG2.5-15R	PHG2.5-15RH	15	38,82	43,82	12	30	0,134 - 0,053	18,16	66,60	0,324	77,89 €	128,54 €
PHG2.5-16R	PHG2.5-16RH	16	41,41	46,41	12	30	0,134 - 0,053	19,37	71,04	0,356	77,89 €	136,16 €
PHG2.5-17R	PHG2.5-17RH	17	44,00	49,00	12	30	0,134 - 0,053	20,59	75,48	0,389	84,18 €	138,90 €
PHG2.5-18R	PHG2.5-18RH	18	46,59	51,59	12	30	0,134 - 0,053	21,80	79,92	0,425	87,19 €	143,86 €
PHG2.5-19R	PHG2.5-19RH	19	49,18	54,18	12	30	0,134 - 0,053	23,01	84,36	0,463	89,56 €	147,76 €
PHG2.5-20R	PHG2.5-20RH	20	51,76	56,76	12	30	0,177 - 0,072	30,82	113,02	0,502	92,73 €	153,05 €

Dimensions in mm

Module 2.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PHG2.5-21R	PHG2.5-21RH	21	54,35	59,35	14	45	0,177 - 0,072	32,36	118,67	0,702	95,02 €	156,81 €
PHG2.5-22R	PHG2.5-22RH	22	56,94	61,94	14	45	0,177 - 0,072	33,90	124,32	0,745	98,41 €	162,45 €
PHG2.5-23R	PHG2.5-23RH	23	59,53	64,53	14	45	0,177 - 0,072	35,45	129,97	0,791	100,90 €	166,52 €
PHG2.5-24R	PHG2.5-24RH	24	62,12	67,12	14	45	0,177 - 0,072	36,99	135,62	0,839	103,84 €	171,35 €
PHG2.5-25R	PHG2.5-25RH	25	64,70	69,70	14	45	0,177 - 0,072	38,53	141,27	0,889	109,79 €	180,66 €
PHG2.5-26R	PHG2.5-26RH	26	67,29	72,29	14	45	0,177 - 0,072	50,42	184,86	0,942	114,99 €	189,75 €
PHG2.5-27R	PHG2.5-27RH	27	69,88	74,88	14	45	0,177 - 0,072	52,36	191,97	0,996	117,34 €	193,68 €
PHG2.5-28R	PHG2.5-28RH	28	72,47	77,47	16	55	0,177 - 0,072	54,30	199,08	1,188	120,60 €	199,02 €
PHG2.5-29R	PHG2.5-29RH	29	75,06	80,06	16	55	0,177 - 0,072	56,23	206,19	1,246	124,47 €	205,40 €
PHG2.5-30R	PHG2.5-30RH	30	77,65	82,65	16	55	0,177 - 0,072	66,30	243,11	1,307	128,73 €	212,43 €
PHG2.5-32R	PHG2.5-32RH	32	82,82	87,82	16	55	0,179 - 0,070	70,72	259,32	1,434	136,42 €	225,11 €
PHG2.5-35R	PHG2.5-35RH	35	90,59	95,59	16	55	0,179 - 0,070	77,35	283,63	1,640	142,18 €	234,62 €
PHG2.5-38R	PHG2.5-38RH	38	98,35	103,35	16	65	0,179 - 0,070	83,98	307,94	2,050	156,12 €	257,68 €
PHG2.5-40R	PHG2.5-40RH	40	103,53	108,53	16	65	0,179 - 0,070	113,13	379,84	2,210	162,29 €	267,85 €
PHG2.5-42R	PHG2.5-42RH	42	108,70	113,70	16	65	0,179 - 0,070	118,79	398,83	2,380	167,35 €	276,12 €
PHG2.5-45R	PHG2.5-45RH	45	116,47	121,47	20	75	0,179 - 0,070	127,27	427,31	2,817	173,22 €	285,85 €
PHG2.5-48R	PHG2.5-48RH	48	124,23	129,23	20	75	0,181 - 0,068	135,75	455,80	3,104	185,59 €	306,19 €
PHG2.5-50R	PHG2.5-50RH	50	129,41	134,41	20	75	0,235 - 0,101	176,98	515,22	3,305	194,05 €	320,21 €

Dimensions in mm

Module 3.0



Parallel helical gear

Pre-treated or case hardened steel



Quality grade 7e25

- **Quality grade 7e25 DIN 3961**
- 15° Right angled helical (R in Part number)
- 15° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
 - Grade and tolerances measured before heat treatment
- Important:** A 15° right angled helical gear must be used with a corresponding 15° left angled gear.
Incompatible with SH range.

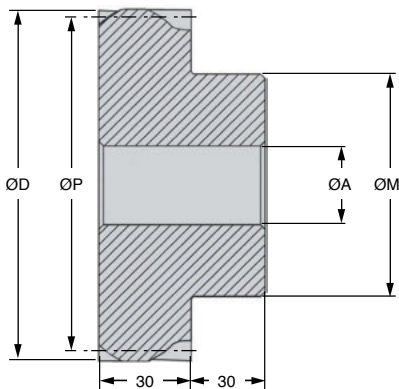
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PHG3.0-16R	PHG3.0-16RH	16	49,69	55,69	14	38	0,134 - 0,053	32,28	118,36	0,646	112,46 €	185,53 €
PHG3.0-17R	PHG3.0-17RH	17	52,80	58,80	14	38	0,177 - 0,072	34,30	125,76	0,704	115,98 €	191,38 €
PHG3.0-18R	PHG3.0-18RH	18	55,90	61,90	14	38	0,177 - 0,072	36,31	133,15	0,766	119,92 €	197,90 €
PHG3.0-19R	PHG3.0-19RH	19	59,01	65,01	14	38	0,177 - 0,072	38,33	140,55	0,831	124,11 €	204,78 €
PHG3.0-20R	PHG3.0-20RH	20	62,12	68,12	14	38	0,177 - 0,072	51,35	188,30	0,900	127,91 €	211,08 €
PHG3.0-21R	PHG3.0-21RH	21	65,22	71,22	14	38	0,177 - 0,072	53,92	197,71	0,972	131,63 €	217,25 €

Dimensions in mm

Module 3.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash	Torque (Nm)	Weight	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	Hardened (kg)	Standard	Hardened
PHG3.0-22R	PHG3.0-22RH	22	68,33	74,33	16	55	0,177 - 0,072	56,49	207,13	1,318	139,49 € 230,22 €
PHG3.0-23R	PHG3.0-23RH	23	71,43	77,43	16	55	0,177 - 0,072	59,06	216,54	1,397	147,19 € 242,94 €
PHG3.0-24R	PHG3.0-24RH	24	74,54	80,54	16	55	0,177 - 0,072	61,62	225,96	1,480	150,92 € 249,02 €
PHG3.0-25R	PHG3.0-25RH	25	77,65	83,65	16	55	0,177 - 0,072	64,19	235,37	1,567	155,38 € 256,39 €
PHG3.0-26R	PHG3.0-26RH	26	80,75	86,75	16	55	0,179 - 0,070	84,00	308,00	1,657	160,07 € 264,10 €
PHG3.0-27R	PHG3.0-27RH	27	83,86	89,86	16	55	0,179 - 0,070	87,23	319,85	1,751	165,80 € 273,65 €
PHG3.0-28R	PHG3.0-28RH	28	86,96	92,96	16	55	0,179 - 0,070	90,46	331,70	1,848	177,96 € 293,61 €
PHG3.0-29R	PHG3.0-29RH	29	90,07	96,07	20	70	0,179 - 0,070	93,69	343,54	2,240	206,13 € 340,12 €
PHG3.0-30R	PHG3.0-30RH	30	93,17	99,17	20	70	0,179 - 0,070	110,47	405,05	2,350	221,33 € 365,18 €
PHG3.0-32R	PHG3.0-32RH	32	99,39	105,39	20	70	0,179 - 0,070	117,83	432,05	2,570	227,41 € 375,24 €
PHG3.0-35R	PHG3.0-35RH	35	108,70	114,70	20	70	0,179 - 0,070	128,88	472,56	2,920	234,25 € 386,56 €
PHG3.0-38R	PHG3.0-38RH	38	118,02	124,02	20	70	0,179 - 0,070	139,93	513,06	3,310	333,11 € 549,67 €
PHG3.0-40R	PHG3.0-40RH	40	124,23	130,23	20	70	0,181 - 0,069	188,49	656,36	3,590	342,26 € 564,77 €

Dimensions in mm

Module 0.5



Crossed helical gear Pre-treated or case hardened steel



- **Quality grade 7e** DIN 58405 (AGMA Q10)
- Power transferred through 90°
- 45° Right angled helical (R in Part number)
- 45° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Quality grade 7e

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

Important: A helical gear with a 45° right hand angle meshes with a second identically angled gear.

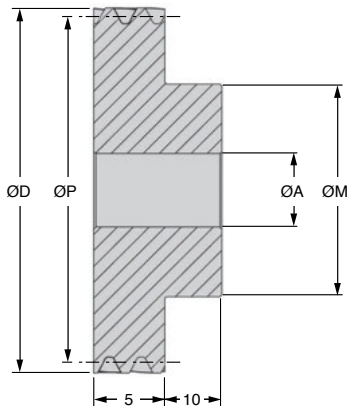
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	Hardened	(kg)	Standard	Hardened
PXHGO.5-40R	PXHGO.5-40RH	40	28.28	29.28	8	22	0.143 - 0.058	0.19	0.68	0.048	44.15	72.88
PXHGO.5-42R	PXHGO.5-42RH	42	29.70	30.70	8	22	0.143 - 0.058	0.20	0.72	0.051	45.27	74.69
PXHGO.5-45R	PXHGO.5-45RH	45	31.82	32.82	8	22	0.146 - 0.055	0.21	0.77	0.055	46.29	76.36
PXHGO.5-48R	PXHGO.5-48RH	48	33.94	34.94	8	30	0.146 - 0.055	0.22	0.82	0.084	46.94	77.45
PXHGO.5-50R	PXHGO.5-50RH	50	35.36	36.36	8	30	0.146 - 0.055	0.23	0.85	0.087	47.88	79.03
PXHGO.5-52R	PXHGO.5-52RH	52	36.77	37.77	8	30	0.146 - 0.055	0.24	0.89	0.090	48.23	79.59
PXHGO.5-55R	PXHGO.5-55RH	55	38.89	39.89	8	30	0.146 - 0.055	0.26	0.94	0.095	49.19	81.20
PXHGO.5-58R	PXHGO.5-58RH	58	41.01	42.01	8	35	0.146 - 0.055	0.27	0.99	0.120	49.68	81.95
PXHGO.5-60R	PXHGO.5-60RH	60	42.43	43.43	8	35	0.146 - 0.055	0.28	1.02	0.124	50.31	82.97
PXHGO.5-62R	PXHGO.5-62RH	62	43.84	44.84	8	35	0.146 - 0.055	0.29	1.06	0.128	50.68	83.62
PXHGO.5-65R	PXHGO.5-65RH	65	45.96	46.96	8	35	0.146 - 0.055	0.30	1.11	0.134	51.77	85.42
PXHGO.5-68R	PXHGO.5-68RH	68	48.08	49.08	8	35	0.146 - 0.055	0.32	1.16	0.140	51.91	85.72
PXHGO.5-70R	PXHGO.5-70RH	70	49.50	50.50	8	35	0.146 - 0.055	0.33	1.19	0.144	51.96	85.77
PXHGO.5-72R	PXHGO.5-72RH	72	50.91	51.91	8	35	0.165 - 0.061	0.33	1.23	0.148	62.75	103.57
PXHGO.5-75R	PXHGO.5-75RH	75	53.03	54.03	8	35	0.165 - 0.061	0.35	1.28	0.155	62.83	103.63

Dimensions in mm

Module 0.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)	Weight Standard Hardened (kg)	Price each 1 to 5		
Standard	Hardened	Teeth	Pitch	External	Bore	Boss				Standard	Hardened	
PXHGO.5-78R	PXHGO.5-78RH	78	55.15	56.15	10	45	0.165 - 0.061	0.36	1.33	0.208	63.20 €	104.32 €
PXHGO.5-80R	PXHGO.5-80RH	80	56.57	57.57	10	45	0.165 - 0.061	0.37	1.36	0.212	62.90 €	103.84 €
PXHGO.5-82R	PXHGO.5-82RH	82	57.98	58.98	10	45	0.165 - 0.061	0.38	1.40	0.217	64.77 €	106.88 €
PXHGO.5-85R	PXHGO.5-85RH	85	60.10	61.10	10	45	0.165 - 0.061	0.40	1.45	0.225	69.55 €	114.81 €
PXHGO.5-90R	PXHGO.5-90RH	90	63.64	64.64	10	45	0.165 - 0.061	0.42	1.53	0.238	75.16 €	124.01 €
PXHGO.5-95R	PXHGO.5-95RH	95	67.18	68.18	10	45	0.165 - 0.061	0.44	1.62	0.253	78.48 €	129.50 €
PXHGO.5-100R	PXHGO.5-100RH	100	70.71	71.71	12	50	0.165 - 0.061	0.40	1.47	0.293	83.13 €	137.16 €
PXHGO.5-105R	PXHGO.5-105RH	105	74.25	75.25	12	50	0.165 - 0.061	0.42	1.55	0.308	87.60 €	144.55 €
PXHGO.5-110R	PXHGO.5-110RH	110	77.78	78.78	12	50	0.165 - 0.061	0.44	1.62	0.325	89.50 €	147.70 €
PXHGO.5-115R	PXHGO.5-115RH	115	81.32	82.32	12	50	0.169 - 0.056	0.46	1.70	0.342	92.00 €	151.85 €
PXHGO.5-120R	PXHGO.5-120RH	120	84.85	85.85	12	50	0.169 - 0.056	0.48	1.77	0.360	92.54 €	152.71 €
PXHGO.5-130R	PXHGO.5-130RH	130	91.92	92.92	12	60	0.169 - 0.056	0.52	1.92	0.465	97.09 €	160.21 €
PXHGO.5-140R	PXHGO.5-140RH	140	98.99	99.99	12	60	0.169 - 0.056	0.56	2.06	0.507	100.99 €	166.65 €
PXHGO.5-150R	PXHGO.5-150RH	150	106.07	107.07	12	60	0.199 - 0.081	0.58	2.14	0.551	110.16 €	181.77 €
PXHGO.5-160R	PXHGO.5-160RH	160	113.14	114.14	14	65	0.199 - 0.081	0.62	2.29	0.632	115.87 €	191.17 €
PXHGO.5-170R	PXHGO.5-170RH	170	120.21	121.21	14	65	0.204 - 0.076	0.66	2.43	0.683	121.19 €	200.05 €
PXHGO.5-180R	PXHGO.5-180RH	180	127.28	128.28	14	65	0.204 - 0.076	0.70	2.57	0.736	123.56 €	203.89 €

Dimensions in mm

Module

Crossed helical gear

1.0

Pre-treated or case hardened steel



- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Power transferred through 90°
- 45° Right angled helical (R in Part number)
- 45° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (J59)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

Important: A helical gear with a 45° right hand angle meshes with a second identically angled gear.

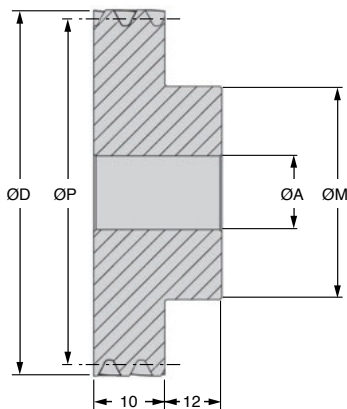
Quality grade 7e25

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PXHG1.0-20R	PXHG1.0-20RH	20	28,28	30,28	5	18	0,187 - 0,068	0,37	1,36	0,069	39,10 €	64,57 €
PXHG1.0-21R	PXHG1.0-21RH	21	29,70	31,70	5	18	0,187 - 0,068	0,39	1,43	0,074	39,75 €	65,68 €
PXHG1.0-22R	PXHG1.0-22RH	22	31,11	33,11	5	18	0,190 - 0,065	0,41	1,50	0,080	40,78 €	67,30 €
PXHG1.0-23R	PXHG1.0-23RH	23	32,53	34,53	5	18	0,190 - 0,065	0,43	1,57	0,085	41,25 €	68,06 €
PXHG1.0-24R	PXHG1.0-24RH	24	33,94	35,94	6	30	0,190 - 0,065	0,45	1,64	0,132	41,75 €	68,92 €
PXHG1.0-25R	PXHG1.0-25RH	25	35,36	37,36	6	30	0,190 - 0,065	0,47	1,71	0,138	42,66 €	70,38 €
PXHG1.0-26R	PXHG1.0-26RH	26	36,77	38,77	6	30	0,190 - 0,065	0,48	1,77	0,144	43,10 €	71,18 €
PXHG1.0-27R	PXHG1.0-27RH	27	38,18	40,18	6	30	0,190 - 0,065	0,50	1,84	0,151	44,72 €	73,84 €
PXHG1.0-28R	PXHG1.0-28RH	28	39,60	41,60	6	30	0,190 - 0,065	0,52	1,91	0,157	45,49 €	75,16 €
PXHG1.0-29R	PXHG1.0-29RH	29	41,01	43,01	6	30	0,190 - 0,065	0,54	1,98	0,164	45,82 €	75,72 €
PXHG1.0-30R	PXHG1.0-30RH	30	42,43	44,43	6	30	0,190 - 0,065	0,56	2,05	0,172	46,08 €	76,09 €
PXHG1.0-32R	PXHG1.0-32RH	32	45,25	47,25	6	30	0,190 - 0,065	0,60	2,18	0,187	46,65 €	76,97 €
PXHG1.0-35R	PXHG1.0-35RH	35	49,50	51,50	6	30	0,190 - 0,065	0,65	2,39	0,212	51,77 €	85,42 €

Dimensions in mm



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened	(kg)	Standard	Hardened
PXHG1.0-38R	PXHG1.0-38RH	38	53,74	55,74	10	45	0,250 - 0,089	0,71	2,59	0,313	54,62 €	90,10 €
PXHG1.0-40R	PXHG1.0-40RH	40	56,57	58,57	10	45	0,250 - 0,089	0,74	2,73	0,332	56,52 €	93,31 €
PXHG1.0-42R	PXHG1.0-42RH	42	59,40	61,40	10	45	0,250 - 0,089	0,78	2,87	0,352	58,53 €	96,63 €
PXHG1.0-45R	PXHG1.0-45RH	45	63,64	65,64	10	45	0,250 - 0,089	0,84	3,07	0,384	63,31 €	104,45 €
PXHG1.0-48R	PXHG1.0-48RH	48	67,88	69,88	10	45	0,250 - 0,089	0,89	3,27	0,419	68,14 €	112,48 €
PXHG1.0-50R	PXHG1.0-50RH	50	70,71	72,71	10	45	0,250 - 0,089	0,80	2,95	0,443	71,03 €	117,28 €
PXHG1.0-52R	PXHG1.0-52RH	52	73,54	75,54	10	50	0,250 - 0,089	0,84	3,07	0,503	74,82 €	123,45 €
PXHG1.0-55R	PXHG1.0-55RH	55	77,78	79,78	10	50	0,250 - 0,089	0,88	3,24	0,542	76,97 €	127,03 €
PXHG1.0-58R	PXHG1.0-58RH	58	82,02	84,02	10	50	0,254 - 0,085	0,93	3,42	0,584	79,59 €	131,40 €
PXHG1.0-60R	PXHG1.0-60RH	60	84,85	86,85	10	50	0,254 - 0,085	0,97	3,54	0,613	81,29 €	134,16 €
PXHG1.0-62R	PXHG1.0-62RH	62	87,68	89,68	10	50	0,254 - 0,085	1,00	3,66	0,643	81,31 €	134,22 €
PXHG1.0-65R	PXHG1.0-65RH	65	91,92	93,92	10	55	0,254 - 0,085	1,05	3,83	0,729	92,87 €	153,27 €
PXHG1.0-68R	PXHG1.0-68RH	68	96,17	98,17	10	55	0,254 - 0,085	1,09	4,01	0,778	94,14 €	155,38 €
PXHG1.0-70R	PXHG1.0-70RH	70	98,99	100,99	10	55	0,254 - 0,085	1,13	4,13	0,812	94,16 €	155,44 €
PXHG1.0-72R	PXHG1.0-72RH	72	101,82	103,82	10	55	0,254 - 0,085	1,16	4,25	0,847	117,72 €	194,27 €
PXHG1.0-75R	PXHG1.0-75RH	75	106,07	108,07	10	55	0,254 - 0,085	1,17	4,29	0,901	121,38 €	200,29 €
PXHG1.0-78R	PXHG1.0-78RH	78	110,31	112,31	12	65	0,254 - 0,085	1,22	4,46	1,040	125,72 €	207,49 €
PXHG1.0-80R	PXHG1.0-80RH	80	113,14	115,14	12	65	0,254 - 0,085	1,25	4,57	1,079	133,29 €	219,96 €
PXHG1.0-82R	PXHG1.0-82RH	82	115,97	117,97	12	65	0,254 - 0,085	1,28	4,69	1,119	139,14 €	229,64 €
PXHG1.0-85R	PXHG1.0-85RH	85	120,21	122,21	12	65	0,259 - 0,081	1,32	4,86	1,181	147,01 €	242,54 €

Dimensions in mm

Module
1.5Crossed helical gear
Pre-treated or case hardened steel

- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Power transferred through 90°
- 45° Right angled helical (R in Part number)
- 45° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Quality grade 7e25

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
 - Grade and tolerances measured before heat treatment
- Important:** A helical gear with a 45° right hand angle meshes with a second identically angled gear.

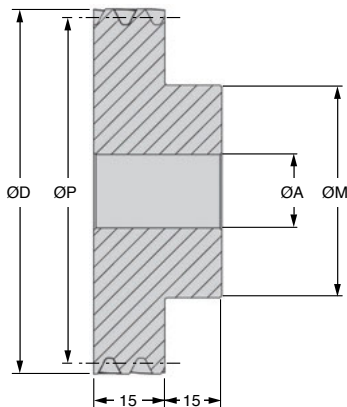
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PXHG1.5-15R	PXHG1.5-15RH	15	31,82	34,82	6	25	0.190 - 0.065	0,63	2,30	0.144	45.64 €	75.30 €
PXHG1.5-16R	PXHG1.5-16RH	16	33.94	36.94	6	25	0.190 - 0.065	0,67	2.46	0.156	46.44 €	76.68 €
PXHG1.5-17R	PXHG1.5-17RH	17	36.06	39.06	6	25	0.190 - 0.065	0,71	2.61	0.170	49.36 €	81.43 €
PXHG1.5-18R	PXHG1.5-18RH	18	38.18	41.18	6	25	0.190 - 0.065	0,75	2.76	0.184	51.67 €	85.29 €
PXHG1.5-19R	PXHG1.5-19RH	19	40.31	43.31	6	25	0.190 - 0.065	0,80	2.92	0.200	53.33 €	87.96 €
PXHG1.5-20R	PXHG1.5-20RH	20	42.43	45.43	6	25	0.190 - 0.065	0,84	3.07	0.216	55.68 €	91.91 €
PXHG1.5-21R	PXHG1.5-21RH	21	44.55	47.55	8	40	0.190 - 0.065	0,88	3.22	0.318	57.34 €	94.64 €
PXHG1.5-22R	PXHG1.5-22RH	22	46.67	49.67	8	40	0.190 - 0.065	0,92	3.38	0.335	59.29 €	97.90 €
PXHG1.5-23R	PXHG1.5-23RH	23	48.79	51.79	8	40	0.190 - 0.065	0,88	3.24	0.354	59.92 €	98.93 €
PXHG1.5-24R	PXHG1.5-24RH	24	50.91	53.91	8	40	0.250 - 0.089	0,92	3.39	0.373	60.46 €	99.81 €
PXHG1.5-25R	PXHG1.5-25RH	25	53.03	56.03	8	40	0.250 - 0.089	0,96	3.53	0.394	64.30 €	106.08 €
PXHG1.5-26R	PXHG1.5-26RH	26	55.15	58.15	8	40	0.250 - 0.089	1.00	3.67	0.415	65.76 €	108.54 €
PXHG1.5-27R	PXHG1.5-27RH	27	57.28	60.28	8	40	0.250 - 0.089	1.04	3.81	0.437	68.53 €	113.10 €
PXHG1.5-28R	PXHG1.5-28RH	28	59.40	62.40	8	40	0.250 - 0.089	1.08	3.95	0.459	70.01 €	115.56 €

Dimensions in mm

Module 1.5



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PXHG1.5-29R	PXHG1.5-29RH	29	61,52	64,52	10	50	0.250 - 0.089	1,12	4,09	0,559	70,03 €	115,64 €
PXHG1.5-30R	PXHG1.5-30RH	30	63,64	66,64	10	50	0.250 - 0.089	1,15	4,23	0,584	70,06 €	115,70 €
PXHG1.5-32R	PXHG1.5-32RH	32	67,88	70,88	10	50	0.250 - 0.089	1,23	4,51	0,635	74,42 €	122,88 €
PXHG1.5-35R	PXHG1.5-35RH	35	74,25	77,25	10	50	0.250 - 0.089	1,27	4,65	0,718	85,47 €	141,06 €
PXHG1.5-38R	PXHG1.5-38RH	38	80,61	83,61	12	55	0.254 - 0.085	1,38	5,04	0,850	91,60 €	151,21 €
PXHG1.5-40R	PXHG1.5-40RH	40	84,85	87,85	12	55	0.254 - 0.085	1,45	5,31	0,914	93,73 €	154,70 €
PXHG1.5-42R	PXHG1.5-42RH	42	89,10	92,10	12	55	0.254 - 0.085	1,52	5,58	0,982	95,04 €	156,88 €
PXHG1.5-45R	PXHG1.5-45RH	45	95,46	98,46	12	55	0.254 - 0.085	1,63	5,97	1,090	98,13 €	161,97 €
PXHG1.5-48R	PXHG1.5-48RH	48	101,82	104,82	12	55	0.254 - 0.085	1,74	6,37	1,206	106,67 €	176,09 €
PXHG1.5-50R	PXHG1.5-50RH	50	106,07	109,07	14	65	0.254 - 0.085	1,75	6,43	1,389	113,52 €	187,33 €
PXHG1.5-52R	PXHG1.5-52RH	52	110,31	113,31	14	65	0.254 - 0.085	1,82	6,69	1,473	123,79 €	204,22 €
PXHG1.5-55R	PXHG1.5-55RH	55	116,67	119,67	14	65	0.254 - 0.085	1,93	7,07	1,606	131,25 €	216,63 €
PXHG1.5-58R	PXHG1.5-58RH	58	123,04	126,04	14	65	0.259 - 0.081	2,03	7,46	1,747	146,22 €	241,26 €
PXHG1.5-60R	PXHG1.5-60RH	60	127,28	130,28	14	65	0.332 - 0.126	2,10	7,72	1,845	146,32 €	241,38 €

Dimensions in mm

Module 2.0



Crossed helical gear Pre-treated or case hardened steel



- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Power transferred through 90°
- 45° Right angled helical (R in Part number)
- 45° Left angled helical (L in Part number)
- Pressure angle: 20°
- **Material:**
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Quality grade 7e25

Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment
- Important:** A helical gear with a 45° right hand angle meshes with a second identically angled gear.

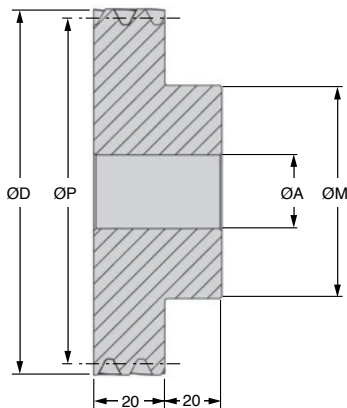
DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)		Weight	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss	(mm)	Standard	Hardened	(kg)	Standard	Hardened
PXHG2 0-15R	PXHG2 0-15RH	15	42.43	46.43	10	35	0.190 - 0.065	1.12	4.09	0.346	65.93 €	108.84 €
PXHG2 0-16R	PXHG2 0-16RH	16	45.25	49.25	10	35	0.190 - 0.065	1.19	4.37	0.376	67.30 €	111.10 €
PXHG2 0-17R	PXHG2 0-17RH	17	48.08	52.08	10	35	0.190 - 0.065	1.16	4.26	0.408	72.64 €	119.90 €
PXHG2 0-18R	PXHG2 0-18RH	18	50.91	54.91	10	35	0.250 - 0.089	1.23	4.51	0.442	74.99 €	123.70 €
PXHG2 0-19R	PXHG2 0-19RH	19	53.74	57.74	10	35	0.250 - 0.089	1.30	4.76	0.478	77.66 €	128.11 €
PXHG2 0-20R	PXHG2 0-20RH	20	56.57	60.57	10	35	0.250 - 0.089	1.37	5.01	0.517	79.30 €	130.89 €
PXHG2 0-21R	PXHG2 0-21RH	21	59.40	63.40	12	45	0.250 - 0.089	1.44	5.27	0.703	83.06 €	137.14 €
PXHG2 0-22R	PXHG2 0-22RH	22	62.23	66.23	12	45	0.250 - 0.089	1.50	5.52	0.745	90.26 €	148.95 €
PXHG2 0-23R	PXHG2 0-23RH	23	65.05	69.05	12	45	0.250 - 0.089	1.57	5.77	0.789	92.04 €	151.90 €
PXHG2 0-24R	PXHG2 0-24RH	24	67.88	71.88	12	45	0.250 - 0.089	1.64	6.02	0.835	96.43 €	159.13 €
PXHG2 0-25R	PXHG2 0-25RH	25	70.71	74.71	12	45	0.250 - 0.089	1.61	5.90	0.883	105.25 €	173.64 €
PXHG2 0-26R	PXHG2 0-26RH	26	73.54	77.54	12	45	0.250 - 0.089	1.67	6.14	0.933	106.57 €	175.95 €
PXHG2 0-27R	PXHG2 0-27RH	27	76.37	80.37	12	45	0.250 - 0.089	1.74	6.37	0.985	111.93 €	184.72 €

Dimensions in mm

Module 2.0



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External Bore	Bore	Boss		Standard	Hardened		Standard	Hardened
PXHG2.0-28R	PXHG2.0-28RH	28	79.20	83.20	14	55	0.250 - 0.089	1.80	6.61	1.322	113.96 €	188.09 €
PXHG2.0-29R	PXHG2.0-29RH	29	82.02	86.02	14	55	0.250 - 0.085	1.87	6.84	1.378	117.49 €	193.87 €
PXHG2.0-30R	PXHG2.0-30RH	30	84.85	88.85	14	55	0.250 - 0.085	1.93	7.08	1.436	118.91 €	196.19 €
PXHG2.0-32R	PXHG2.0-32RH	32	90.51	94.51	14	55	0.250 - 0.085	2.06	7.55	1.557	125.49 €	207.08 €
PXHG2.0-35R	PXHG2.0-35RH	35	98.99	102.99	14	55	0.254 - 0.085	2.25	8.26	1.755	141.37 €	233.24 €
PXHG2.0-38R	PXHG2.0-38RH	38	107.48	111.48	20	65	0.254 - 0.085	2.37	8.69	1.836	150.80 €	248.82 €
PXHG2.0-40R	PXHG2.0-40RH	40	113.14	117.14	20	65	0.254 - 0.085	2.49	9.14	1.989	172.51 €	284.56 €
PXHG2.0-42R	PXHG2.0-42RH	42	118.79	122.79	20	65	0.254 - 0.085	2.62	9.60	2.150	180.03 €	297.04 €
PXHG2.0-45R	PXHG2.0-45RH	45	127.28	131.28	20	65	0.332 - 0.126	2.81	10.29	2.407	197.90 €	326.56 €

Dimensions in mm

Module 2.5

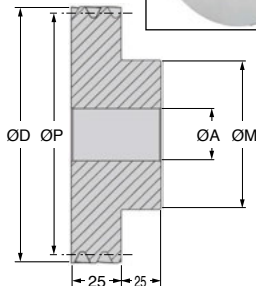
Crossed helical gear

Pre-treated or case hardened steel

Quality grade 7e25



- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Power transferred through 90°
- 45° Right angled helical (R in Part number)
- 45° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:
 - 35NCD6 Pre-treated steel 28HRC
 - 20NCD2 case hardened steel 58HRC
- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%



Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
 - Grade and tolerances measured before heat treatment
- Important:** A helical gear with a 45° right hand angle meshes with a second identically angled gear.

DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PXHG2.5-15R	PXHG2.5-15RH	15	53.03	58.03	14	45	0.250 - 0.089	1.60	5.88	0.680	91,24 €	150,60 €
PXHG2.5-16R	PXHG2.5-16RH	16	56.57	61.57	14	45	0.250 - 0.089	1.71	6.27	0.739	93,55 €	154,44 €
PXHG2.5-17R	PXHG2.5-17RH	17	60.10	65.10	14	45	0.250 - 0.089	1.82	6.66	0.802	101,55 €	167,57 €
PXHG2.5-18R	PXHG2.5-18RH	18	63.64	68.64	14	45	0.250 - 0.089	1.92	7.05	0.869	106,67 €	176,06 €
PXHG2.5-19R	PXHG2.5-19RH	19	67.18	72.18	14	45	0.250 - 0.089	2.03	7.44	0.939	108,91 €	179,75 €
PXHG2.5-20R	PXHG2.5-20RH	20	70.71	75.71	20	55	0.250 - 0.089	2.01	7.37	1.105	115,43 €	190,49 €
PXHG2.5-21R	PXHG2.5-21RH	21	74.25	79.25	20	55	0.250 - 0.089	2.11	7.74	1.183	119,36 €	197,02 €
PXHG2.5-22R	PXHG2.5-22RH	22	77.78	82.78	20	55	0.250 - 0.089	2.21	8.11	1.265	128,11 €	218,80 €
PXHG2.5-23R	PXHG2.5-23RH	23	81.32	86.32	20	55	0.254 - 0.085	2.31	8.48	1.351	128,11 €	211,34 €
PXHG2.5-24R	PXHG2.5-24RH	24	84.85	89.85	20	55	0.254 - 0.085	2.41	8.85	1.441	131,14 €	216,36 €
PXHG2.5-25R	PXHG2.5-25RH	25	88.39	93.39	20	55	0.254 - 0.085	2.51	9.22	1.535	141,49 €	233,38 €
PXHG2.5-26R	PXHG2.5-26RH	26	91.92	96.92	20	55	0.254 - 0.085	2.61	9.59	1.633	143,34 €	236,52 €
PXHG2.5-27R	PXHG2.5-27RH	27	95.46	100.46	20	55	0.254 - 0.085	2.72	9.96	1.734	149,53 €	246,73 €
PXHG2.5-28R	PXHG2.5-28RH	28	98.99	103.99	20	55	0.254 - 0.085	2.82	10.32	1.839	153,23 €	252,84 €
PXHG2.5-29R	PXHG2.5-29RH	29	102.53	107.53	25	65	0.254 - 0.085	2.92	10.69	2.064	162,88 €	268,78 €
PXHG2.5-30R	PXHG2.5-30RH	30	106.07	111.07	25	65	0.254 - 0.085	2.92	10.72	2.177	165,01 €	272,22 €
PXHG2.5-32R	PXHG2.5-32RH	32	113.14	118.14	25	65	0.254 - 0.085	3.12	11.43	2.415	176,74 €	291,61 €
PXHG2.5-35R	PXHG2.5-35RH	35	123.74	128.74	25	65	0.259 - 0.081	3.41	12.50	2.800	190,63 €	314,59 €

Dimensions in mm

Crossed helical gear

Pre-treated or case hardened steel

Module

3.0

- **Quality grade 7e25 DIN 3961 (AGMA Q10)**
- Power transferred through 90°
- 45° Right angled helical (R in Part number)
- 45° Left angled helical (L in Part number)
- Pressure angle: 20°
- Material:

35NCD6 Pre-treated steel 28HRC

20NCD2 case hardened steel 58HRC

- Teeth conform to DIN 867
- Tooth thickness conforms to DIN 58405
- Efficiency approx 98%

Quality grade 7e25

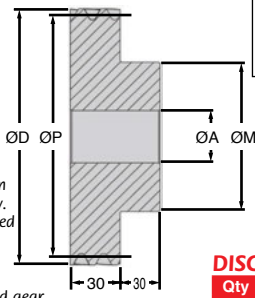
Options

- Alternative bores (H7)
- Keyway conforming to DIN 6885 (JS9)
- Tapped hole
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only.
- Grade and tolerances measured before heat treatment

Important: A helical gear with a 45° right hand angle meshes with a second identically angled gear.



DISCOUNTS

Qty	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number		Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	Boss		Standard	Hardened		Standard	Hardened
PXHG3.0-15R	PXHG3.0-15RH	15	63.64	69.64	16	45	0.250 - 0.089	2.31	8.46	1,020	115.89 €	191.26 €
PXHG3.0-16R	PXHG3.0-16RH	16	67.88	73.88	16	45	0.250 - 0.089	2.46	9.03	1,122	119.55 €	197.33 €
PXHG3.0-17R	PXHG3.0-17RH	17	72.12	78.12	16	45	0.250 - 0.089	2.46	9.03	1,231	130.44 €	215.24 €
PXHG3.0-18R	PXHG3.0-18RH	18	76.37	82.37	16	45	0.250 - 0.089	2.61	9.56	1,346	137.83 €	227.41 €
PXHG3.0-19R	PXHG3.0-19RH	19	80.61	86.61	16	45	0.254 - 0.085	2.75	10.09	1,468	141.25 €	233.11 €
PXHG3.0-20R	PXHG3.0-20RH	20	84.85	90.85	16	45	0.254 - 0.085	2.90	10.62	1,597	151.11 €	249.26 €
PXHG3.0-21R	PXHG3.0-21RH	21	89.10	95.10	20	55	0.254 - 0.085	3.04	11.15	1,864	156.52 €	258.24 €
PXHG3.0-22R	PXHG3.0-22RH	22	93.34	99.34	20	55	0.254 - 0.085	3.19	11.68	2,006	167.91 €	277.05 €
PXHG3.0-23R	PXHG3.0-23RH	23	97.58	103.58	20	55	0.254 - 0.085	3.33	12.21	2,154	176.94 €	291.93 €
PXHG3.0-24R	PXHG3.0-24RH	24	101.82	107.82	20	55	0.254 - 0.085	3.48	12.74	2,309	180.47 €	297.83 €
PXHG3.0-25R	PXHG3.0-25RH	25	106.07	112.07	20	55	0.254 - 0.085	3.51	12.86	2,471	202.03 €	333.39 €
PXHG3.0-26R	PXHG3.0-26RH	26	110.31	116.31	20	55	0.254 - 0.085	3.65	13.37	2,640	205.84 €	339.71 €
PXHG3.0-27R	PXHG3.0-27RH	27	114.55	120.55	20	55	0.254 - 0.085	3.79	13.89	2,815	211.52 €	349.02 €
PXHG3.0-28R	PXHG3.0-28RH	28	118.79	124.79	20	55	0.254 - 0.085	3.93	14.40	2,997	214.65 €	354.18 €
PXHG3.0-29R	PXHG3.0-29RH	29	123.04	129.04	25	65	0.259 - 0.081	4.07	14.92	3,325	221.01 €	364.66 €
PXHG3.0-30R	PXHG3.0-30RH	30	127.28	133.28	25	65	0.332 - 0.126	4.21	15.43	3,520	238.73 €	393.92 €

Dimensions in mm

Order your

MADE TO MEASURE GROUND SPUR GEARS

- **Class 4**
- **Modules from 0.5 to 8**
- **Max diameter 350 mm**
- **High performance**



**Reduced
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**Backlash
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**More
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**Excellent
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How we manufacture your **MADE TO MEASURE GROUND SPUR GEARS**



Grinding



Grinding



Gear cutting



Turning



Machining centre



Inspection

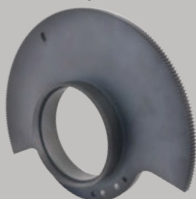
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Helical pinion shaft



Rack and pinion



**Gear cut by electrical
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Matched set of spur gears



AGMA spur gear



Spur gear



**Splined shaft with
set of gears**

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STANDARD GROUND SPUR GEARS



**Hardened spur gear for use with
splined shaft**



**Hardened helical spur gear
with keyway**



**Hardened helical spur gear for use
with splined shaft**



Hardened spur gear with keyway



Hardened rack gear



Hardened worm and wheel

Spur and helical gears

Description	Symbol	Unit	Equation 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		-	$= m_n / \sin \beta$
Normal 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	-	$90 - \beta$
Number of teeth	Z			
Profile shift coefficient	x		0 en standard	0 en standard
Addendum	h_a	mm	$1 \cdot m_n$	$1 \cdot m_n$
Dedendum	h_f	mm	$1.25 m_n$	$1.25 m_n$
Tooth depth	h	mm	$2.25 m_n$	$2.25 m_n$
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	$= Z \cdot m_n$	$= Z \cdot m_n = (Z \cdot m_n) / \cos \beta$
Tip diameter	d_a	mm	$= d + (2 m_n \cdot x) + (2 m_n)$	$= d + (2 m_n \cdot x) + (2 m_n)$
Root diameter	d_r	mm	$= d_a - (2 \cdot h)$	$= d_a - (2 \cdot h)$
Normal pitch	p_n	mm	$= \pi \cdot m_n$	$= \pi \cdot m_n$
Transverse pitch	p_t		-	$= \pi \cdot m_t = (\pi \cdot m_n) / \cos \beta$
Axial pitch	p_x		-	$= \pi \cdot m_x = (\pi \cdot m_n) / \sin \beta$
Normal tooth thickness in pitch circle	s_n	mm	$= (p_n / 2) + 2 m_n \cdot x \cdot \tan \alpha_t$	$= (p_n / 2) + 2 m_n \cdot x \cdot \tan \alpha_n$
Transversal tooth thickness in pitch circle	s_t	mm	-	$= (p_t / 2) + 2 m_n \cdot x \cdot \tan \alpha_t$

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.

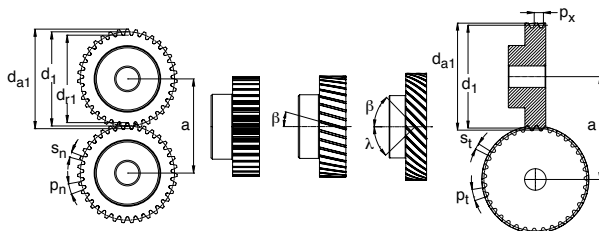
For s_n & s_t when $x=0$, this is the theoretical tooth thickness. Actual tooth thickness will be less.

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 $17^\circ 45'$.



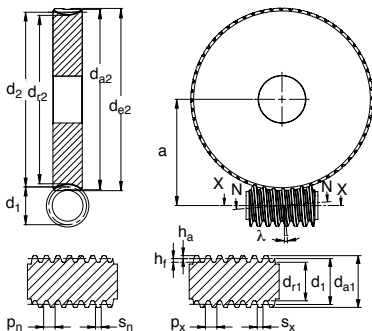


Worms and wheels

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	α_t	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 on standard
Addendum	h_a	mm	$1 \cdot m_x$
Dedendum	h_f	mm	$1.25 m_x$
Tooth depth	h	mm	$2.25 m_x$
Gear ratio	R		$= Z_2 / Z_1$
Centre distance	a	mm	$= (d_1 + d_2) / 2$
Reference diameter of worm	d_1	mm	$(m_x \cdot Z_1) / \tan \lambda$
Reference diameter of wheel	d_2	mm	$= Z_2 \cdot m_x$
Tip diameter of worm	d_{a1}	mm	$= d_1 + (2 \cdot m_x)$
Root diameter of worm	d_{r1}	mm	$= d_{a1} - (2 \cdot h)$
Tip diameter of wheel	d_{a2}	mm	$= d_2 + (2 \cdot m_x)$
Root diameter of wheel	d_{r2}	mm	$= d_{a2} - (2 \cdot h)$
Outside diameter of wheel	d_{r2}	mm	$= d_{a2} + m_x$
Normal pitch	p_n	mm	$= \pi \cdot m_n$
Axial pitch	p_x	mm	$= \pi \cdot m_x$
Normal tooth thickness in pitch circle	s_n	mm	$= s_x \cdot \cos \lambda$
Transversal tooth thickness in pitch circle	s_t	mm	$= (p_x / 2) + 2 m_x \cdot x \cdot \tan \alpha_t$

Tip diameter is the theoretical diameter of the gear without tooth thickness tolerance applied.

For s_n & s_t , when $x = \text{zero}$, 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 be 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.

$$\eta = \tan \lambda / \tan (\lambda + p_z)$$

$$p_z = \arctan (\mu)$$

$$v_g = (d_1 \cdot n_1) / (19098 \cdot \tan \lambda)$$

$$T_1 = (T_2 / \eta) \cdot \eta$$

$$T_1 = \text{Input torque (Nm)}$$

$$T_2 = \text{Output torque (Nm)}$$

$$R = \text{Ratio}$$

$$\eta = \text{Efficiency}$$

$$\lambda = \text{Lead angle (degrees)}$$

$$\mu = \text{Coefficient of friction}$$

$$p_z = \text{Angle of friction}$$

$$v_g = \text{Sliding speed (m/s)}$$

$$n_1 = \text{Rotational speed of worm (rpm)}$$

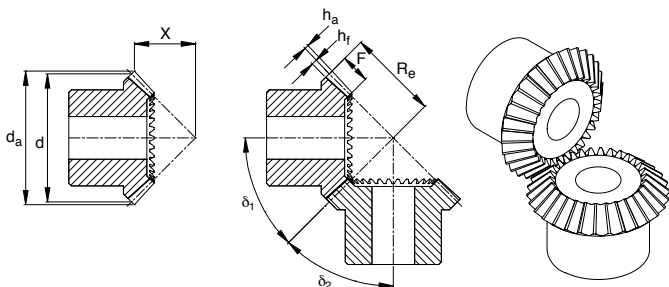
$$d_1 = \text{Pitch diameter of worm (mm)}$$

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
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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	-	-	-	-	-	-	-	-	-



Bevel gears

Description	Symbol	Unit	Formulae
Normal module	m_n		
Pressure angle	α	degrees	20°
Shaft angle	Σ	degrees	$= \tan^{-1} ((m_x \cdot Z_1) / d_2)$
Gear ratio	R		$= Z_2 / Z_1$
Pitch diameter	d	mm	$= Z \cdot m_n$
Pitch cone angle	δ_1	degrees	$= \tan^{-1} (\sin \Sigma / (R + \cos \Sigma))$
Pitch cone angle	δ_2	degrees	$= \Sigma - \delta_1$
Cone distance	R_e	mm	$= d_2 / 2 \sin \delta_2$
Addendum	h_a	mm	$1 \cdot m_n$
Dedendum	h_f	mm	$1.25 \cdot m_n \text{ (mod 0,6 à 1)}$
Outside diameter	d_a	mm	$1.22 \cdot m_n \text{ (mod 1,5 à 2)}$ $1.20 \cdot m_n \text{ (mod 4)}$ $= d + 2h_a \cdot \cos \delta$
Pitch apex to crown	X	mm	$= R_e \cdot \cos \delta - h_a \cdot \sin \delta$



Backlash

The backlash figures given for spur, helical and crossed axis helical gears is the theoretical backlash for two identical gears at standard centre distance to the ISO 286 centre distance tolerance.

It is given as circumferential backlash in mm measured on pitch circle diameter. An upper and lower value is quoted.

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)

$$A_{sne} = S_n - S_{ne}$$

$$A_{sni} = A_{sne} - T_{sn} = S_n - S_{ni}$$

Circumferential backlash j_t

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 j_n

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:

$$j_n = j_t \cdot \cos\alpha_n \cdot \cos\beta$$



Backlash

Change in circumferential backlash due to Centre Distance Tolerance ΔJ_a

Unités = mm et degrés

$$\Delta j_a = 2 \cdot A_s \cdot \frac{\tan \alpha_n}{\cos \beta}$$

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. $a = 30\text{mm}$ Js7, $A_s = \pm 0.0105\text{mm}$)

α_n = Normal pressure angle ($\alpha_n = 20^\circ$)

β = Helix angle (β = zero for spur gears)

Replace helix angle β with lead angle λ for worm and wheel.

$1^\circ = 60$ 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

Reference diameter d (mm)	Normal module m_n	Upper tooth thickness allowance A_{sne}	Upper tooth thickness allowance T_{sn}
De 3 à 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 à 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 à 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 à 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 à 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 à 200	Since 0.6 to 1.6	0.063	0.024
	Since 1.6 to 3	0.070	0.029
> 200 à 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

Output (Driven) gear: PSG0.5-40 7e

- 1• Calculate the reference diameter d for each gear

$$\text{PSG0.5-20 } d_1 = z \cdot m_n = 10.00\text{mm}$$

$$\text{PSG0.5-40 } d_2 = 20.00\text{mm}$$

- 2• Find A_{sne} and T_{sn} from the tables on previous page

$$\text{PSG0.5-20 } A_{sne} = -0.035\text{mm } T_{sn} = -0.014\text{mm}$$

$$\text{PSG0.5-40 } A_{sne} = -0.040\text{mm } T_{sn} = -0.016\text{mm}$$

- 3• Calculate A_{sni} for each gear

$$\text{PSG0.5-20 } A_{sni} = A_{sne} - T_{sn} = -0.035 - 0.014 = -0.021\text{mm}$$

$$\text{PSG0.5-40 } A_{sni} = A_{sne} - T_{sn} = -0.040 - 0.016 = -0.024\text{mm}$$

- 4• Calculate the centre distance of the two gears and the centre distance tolerance

$$\text{centre distance} = (10 + 20) / 2 = 15\text{mm}$$

$$js7 = 0.009\text{mm}$$

- 5• Calculate the change in backlash due to centre distance

$$j_a = 2 \cdot A_s \cdot \frac{\tan \alpha_n}{\cos \beta} + 2 \cdot 0.009 \cdot \frac{\tan 20}{\cos 0} = 0.007 \text{ mm}$$

- 6• Calculate the maximum backlash (Remove the minus sign on A_{sni})

$$j_t = \frac{A_{sni1} + A_{sni2}}{\cos \beta} + \Delta j_a = \frac{0.035 + 0.040}{\cos 0} + 0.007 = 0.082 \text{ mm}$$

- 7• Calculate the minimum backlash (Remove the minus sign on A_{sni})

$$j_t = \frac{A_{sne1} + A_{sne2}}{\cos \beta} + \Delta j_a = \frac{0.021 + 0.024}{\cos 0} - 0.007 = 0.038 \text{ mm}$$

- 8• Convert to angular backlash

$$j_\theta = \frac{360 \times j_t}{\pi \times d_2} 1^\circ = 60 \text{ arc minutes}$$

$$j_\theta = 28.208 \text{ à } 13.072 \text{ arc minutes}$$

General terms and conditions of sale

For professional Clients

Note. This translation of the original Engrenages HPC French Terms and Conditions is offered as a guide only. In the case of any dispute, the terms and conditions in the original French document will apply.

1 - APPLICATION AND ENFORCEMENT OF THESE TERMS AND CONDITIONS OF SALE.

The act of a professional Client ("The client") placing an order with Engrenages HPC ("HPC") implies the complete and unreserved agreement by the Client to these general terms and conditions of sale, to the exclusion of any other documents such as catalogues produced by HPC, which are provided for information only and are merely intended as an indication, and regardless of any other information that may be included on the Client's order documents, the Client's terms and conditions of purchase or in any other document transmitted by the Client to HPC.

Any conditions applied by the Client will therefore by default be not accepted by HPC, regardless of when they may be brought to their attention unless they have been explicitly confirmed in writing by HPC.

Only specifications relating to custom-made parts can modify these general terms and conditions but should there be a conflict between these T+Cs and the specifications of the pieces to be manufactured, these T+Cs shall take precedence

The fact that HPC does not immediately apply any of the clauses in these terms and conditions should not be interpreted as meaning that they may not do so at a later date.

2 - ORDERS.

Orders must be placed in writing to HPC by the Client. Any order placed by telephone must be confirmed in writing by the Client within 24 hours. Without such confirmation the order will be cancelled. An order will only become definitive and the sales contract confirmed when it is accepted by HPC, this acceptance taking the form of an order confirmation sent to the Client or the delivery of the products ordered.

In case of any modification HPC may deem necessary to be made to the Client's order and confirmed in the order acknowledgment sent to the Client, the latter is assumed to have accepted the modification unless HPC is advised in writing within 24 hours of receipt.

No order with a value lower than 20 Euros (before tax) will be accepted, this includes orders passed at the trade counter at HPC's offices.

No order with a value lower than 150 Euros (before tax) will be accepted from customers outside of France (EU countries included)

3 - ORDER MODIFICATIONS

Any modification to, or cancellation of an order requested by the Client will not be taken into consideration unless it is received in writing before the goods (for standard products) are despatched or manufacture is started (of custom-made products) and acceptance of the modification has been expressly confirmed by HPC in a fax addressed to the Client within 24 hours of the request. If either of these conditions is not fulfilled, the products ordered initially will be sent and full payment will become due.

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4 - PRICES

All prices mentioned in the catalogue are given excluding any taxes. Value Added Tax (VAT) at the current rate, delivery and packing charges as marked in the catalogue and any insurance to which the Client wishes to subscribe, will be added to these prices. Choice of packaging material will be made by HPC unless the Client has made a prior request.

Unless stated to the contrary, products are sold at the price applicable the day the order is placed. Prices quoted in the catalogue are those applicable on the date of publication marked on the cover of said catalogue. HPC reserves the right to modify these prices at any time.

5 - DELIVERY METHODS AND TIMES.

A - DESPATCH DATES

Items in stock on the date an order is accepted can be made available for collection or despatched within a maximum of 72 hours. For catalogue items not in stock at the time the order is accepted or for special items, an estimated despatch time will be given when the order is accepted.

Should the estimated delivery date given by HPC be exceeded by more than thirty (30) working days and except in the case of force majeure, the Client has the right to cancel the order within thirty (30) working days from the estimated delivery date by sending a registered letter.

For the purposes of the Terms and Conditions, force majeure is considered to cover, but not limited to such events as: war, riot, fire, industrial disputes, natural disasters or failure of their suppliers to deliver.

B - DELIVERY

Unless stated otherwise, delivery is carried out by the collection of the goods by Client from HPC's premises in Dardilly 69570 (France) or by delivery by means of transport chosen by HPC or the Client. Products are sold from Dardilly 69570 France (HPC premises) and are transported at the risk of the Client, the goods remaining the property of HPC until full payment is received as explained in Clause 10.

Unless otherwise agreed, goods are sold "ex-works" and transport is carried out at the Client's cost by a transport method chosen by HPC unless one has been specified by the Client.

In case of loss or damage during transit, it is the Client's responsibility to make any claims or remarks to the transporter in writing by recommended letter or other legally accepted means within 3 days of reception of the products (article L133-3 of the French Commercial Code)

HPC reserves the right to make partial deliveries from an order where necessary.

C - RECEPTION

Without prejudice to any claims for damaged goods made direct to the transport company concerned, any complaints regarding differences between the products delivered and those products ordered or identified on the delivery document, should be sent in writing to HPC within 30 days of receipt of the goods. Claims received outside of this period will not be accepted

It is the Client's responsibility to provide full proof of the existence of problems or faults with the goods supplied. He must give HPC access and means to evaluate and rectify any problems. He will not however attempt to repair any faults either directly or by intervention of a third party.

HPC's guarantee is limited to the free replacement or repair of products or components that they have agreed are faulty.

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Any product for which the Client required repair or replacement under guarantee must be returned to HPC's service department whose authorisation is required before any replacement can be made. Transport costs will be charged to the Client if a claim for replacement under guarantee is found not to be applicable.

6 - METHODS OF PAYMENT.

Invoices which will be sent at the same time as goods are despatched, are payable as follows:

- On receipt
- 30 days from the end of the month of the date of the invoice or summary invoice. This method of payment is subject to acceptance by HPC and may be withdrawn at any moment without the Client's approval.
- in Euros
- by cheque, credit card, bank transfer, or promissory note, the choice of method of payment cannot change the payment due date. No discounts are made for advance payments.

7 - LATE OR NON PAYMENT

If payment is not made within the period quoted above and after receipt of a formal notice of non payment with payment not being received within 8 days, the Client will be liable for charges equivalent to an interest rate of one and a half times the prevailing legal interest rate on the sum owed as well as any costs associated with the final collection of the unpaid sum. Any claims by the Client do not exempt him from paying an invoice on or before the due date. Non or partial payments will lead to the immediate requirement for the Client to pay all sums outstanding to HPC, even if they are not yet due and whatever the intended method of payment might be.

8 - GARANTEE.

HPC guarantees the Client against faults or hidden defects that appear in the products sold under the conditions stipulated in article 1641 of the French Civil Code.

For products made to a Client's specification, HPC's responsibility is limited to manufacturing items that conform to the specifications supplied but does not guarantee their functionality or suitability for any application the Client may use them for. The Client is solely responsible for the information transmitted to HPC.

For standard products, HPC guarantees their conformity to the specifications quoted in the catalogue except where the original manufacturer has changed the technical specification. Any action to invoke HPC's responsibility and/or the implementation of the guarantee offered by HPC must be made within 30 days of receipt of the goods by the Client. Any claim under the guarantee will be limited to an amount equal to the price paid for the product. In no case can damage caused by a product marketed by HPC be a reason to any claim for damages or repair.

In the event that a product manufactured to a Client's specification infringes the rights of a third party, the Client accepts responsibility for refunding all the costs (procedure, claims, damages, lawyers' expenses, other advisors...) suffered by HPC and will actively cooperate at his own expense in the defence of the latter.

The guarantee will be considered void if products have been modified or interfered with in any way by the Client without prior written agreement from HPC or if the products have been used in any abnormal way or under unsuitable conditions taking into account their characteristics and normal

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applicable uses and standards (in particular in the event of use or installation in any aerial or space going craft for which the products are completely unsuited)

9 - RETURNED MATERIAL.

Every returned product must be the subject of a formal written agreement between the HPC and the Client by fax, email or letter.

The choice of transport method will be made by HPC. Any product returned without this prior agreement will be stored on behalf of the Client but will not oblige HPC to provide a refund or replacement.

In any event, no product returned more than 30 days after receipt of the product by the Client will be accepted. The cost of returning a product is always the responsibility of the purchaser and the risk in the product remains with him. Any returned product must be addressed to HPC's registered office.

Once the material has been accepted by HPC for return, a Credit Note for the value of the products, valid for duration of six months will be issued. The condition and quantity of all products returned will be subject to inspection.

In the case of an obvious problem or the non-conformity of the product has been confirmed by HPC, the Client will either receive at the discretion of HPC, either replacement products or a refund, no other charges or penalties will be accepted.

10 - RETENTION OF PROPERTY

The transfer of property in any standard or custom-made part is subject to the full payment of the invoice, payment is understood to take place the day funds reach HPC's bank account.

The above provision does not stop the risk in the product passing to the Client (in particular risk of loss, deterioration, and damage caused by the shipped parts) once the parts have been handed over or dispatched by HPC.

If a Client supplies a product for modification, repair or to be used as a sample, the Client remains the owner of the original product and is responsible for the cost of their transport to and from HPC. The Client also accepts all risks related to their transport, any possible modification by HPC, and any damage that might be caused.

11 - APPLICABLE LAW - COURT OF JURISDICTION.

Sales concluded with HPC are subject to French law.

Any dispute which may arise between the two parties relating to the interpretation and/or execution and/or termination of the contract will be brought before the competent commercial courts of the jurisdiction for the registered office of HPC, even in the event of case of appeal or plurality of defendants.

Photos are non-contractual

All product information is subject to technical modifications where necessary

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CRG	adjustment column						86 → 87, 362 → 363
CRM	imperial section rack						200
CRR NEW	rack for tubular structure						262
CSS(ss)	spherical bearing						122 → 123
CT, CTH	telescopic universal joint						94 → 95
CT-ZY	diabolo mount						250 → 251
CX, CY	circlip						358 → 359
CYT NEW	Graphit® connector						265
D							
D	springs in metre						192
DB, DB/Eco	bevel gear						134, 140
DBC	Panamech Multi-Beam						30
DBL	idler						72 → 73
DCA, DCG, DFG	suction cup						15 → 17
DER	AC asynchronous motor						302 → 305
DG	double spur gear						180 → 183
DGS	rod end						126 → 129
DH	dowel pin						368 → 369
DHX	extendable dowel pin						372
DIL, DIA, DIV	locking bolt						44 → 47
DKGS	coupling						40 → 41
DKN	coupling GERWAH®						52 → 53
D-KON, D-PAR(ss)	elasto buffer						266 → 267
DOG	motor-reducer DC						257 → 260
DOMI	adjustable slide						374 → 391
DP	dowel pin						370 → 371
DR	flexible rack						198
DSF	clutche						104 → 105
DST, DT	pinion shaft						186 → 189
DTR	chain idler sprocket						117
D-ZY(ss)	elasto buffer						260 → 263
E							
E	right angle reducer						166 → 173
EAR NEW	lock nut bearing						105
EBM	u bolt						392
ECF	well nut						247
ECL	adjusting nut						291
ECPR	high helix leadscrew						293
EDS	support bracket						111

Part number	Volume	1	2	3	4	5	Page
EFMS	Igubal® flange unit						60
EFTC	fixing support						279
EHD	coaxial reducer						204 → 209
EIM	stainless steel u bolt						393
EKGS	GERWAH® coupling						38 → 39
EKN	GERWAH® coupling						50 → 51
EMS, EML, EMR	thumb screw						107 → 108, 110
EP	spring pin						364 → 365
EP7	indicator						170 → 171
ERC, ERL, ERF	quick fitting cable						304 → 305
ERT	sliding nut						441
ESCB, ESSB	bipod						145 → 146
ESCON-4Q	speed controller 5A						266
ESST	tripod						147
ET	extension spring						194 → 203
ETP	manual handle						357
ETP	locking assembly						132 → 139
E-X, E-DX	output shaft						173
E-ZY	cylindrical buffer						264 → 265
F							
F7 NEW	multifunction display						172 → 177
FB, FB/Eco	bevel gear						136, 142
FBL	brush strip						172 → 178
FDS(Q)	flexible shaft						70 → 74
FF	reducer						198 → 203
FGWA	end support						235
FHC(ss)	countersunk screw						426 → 427
FIRST	servo amplifier						265
FR	thread inserts						396 → 399
FRT	rotary damper						236 → 239
FS	spring washer						113
FTSN	supported shaft						228
FU(ss)	nut for bearing						106 → 107
G							
G, GD	universal joint						88 → 89
G	spur gear						214 → 301
GA	gas spring						224 → 225, 228 → 229
GAL	conveyor wheel						38 → 39, 41, 76 → 79
GB	brass spur gear						224, 236, 244
GBM	nut for ballscrew						321 → 322
GBS	nut for ballscrew						319 → 320
GCA, GCT	spring pin						362 → 363
GCB	curved track						81
GDR	straight track						80
GE	toggle latch						120 → 122

Part number	Volume	1	2	3	4	5	Page
GE	spherical bushing						118 → 121
GET-AL	elastic coupling ECO. range						66 → 67
GFX	elastic coupling ECO. range						62 → 63
GG	ground spur gear						442 → 451
GGB	wing knob						96
GGP	wing knob						97
GLB	small 6 lobe female handle						98
GLP	small 6 lobe male handle						99
GLT	telescopic slide						234 → 245
GLT	miniature slide						237
GMC, GMK	guide						98, 100 → 105
GP	toggle latch						123
GPB	threaded spherical knob						104
GR	centerless ground shaft						23
GSI	gas spring						222 → 223, 226 → 227
GTC, GTC(ss)	belt tension rollers						124 → 127
H							
H, HD	needle roller uni. joint						90 → 91
H	helical gear						319 → 329
HBM	half rail guide						270
HC(ss)	set screw						434 → 435
HCV, HRV	v-rail guidance system						276 → 277
HFL	one way needle bearing						97
HG, HPG	spur gear						299 → 304
HK	manual locking clam						204 → 207
HLA, HLC	right angled gearbox						242 → 249
HLU(T)	handwheel						90 → 91
HS, HSE, HSB	spacer						376 → 377, 382
HSS	shoulder screw						412 → 413
HTD	toothed bar						14 → 15
HTD	timing pulley						16 → 24
HTS, HTT, HW	half rail guide						266 → 273
I							
IBJ	ball & socket joint						140, 232
IN	internal gear						190 → 194
INS	insert						402 → 407
J							
J, XJ	coaxial reducer						211 → 216
JCD, JCS	universal joint						92 → 93
JFM, JSM	Iglidur® cylindrical polymer						26 → 27
K							
KB, KBS, KBWW	linear bearing						239 → 241
KB-OP	linear bearing						245

Part number	Volume 1 2 3 4 5	Page
KGS	ballscrew	3 318
KH	linear bearing	3 236
KIT	motorisation kit	2 252 → 253
KK(ss)	keysteel	1 356 → 357
KM	bearing locknut	3 102
KS(ss)	keysteel	1 355
KSM	cylindrical nut	3 302
KSTM	Igubal® block bearing	3 62 → 63
L		
LAC	came lever	1 116 → 117
LAT	linear actuator	3 328 → 332
LB(E)	miniature linear bearing	3 238
LC	clutche	2 102 → 103
LDS	security strap	1 442
LF	bearing accessories	3 110 → 111
LFM	leadscrew	3 294 → 295, 306
LINK	motor-reducer AC	2 270
LPR	high helix leadscrew	3 292
LOQ	manual lock	5 285
LQT	mechanical catch	5 194
LR	precision locknut	3 108 → 109
LRH	leadscrew	3 298
LRM	trapezoidal nut	3 304, 307
LRR	spring loaded latch	5 192 → 193
LRX	linear roller slide	3 194 → 201
LSAG	linear ball spline	3 154 → 157
LSM	leadscrew	3 296 → 297
LVT	motorised actuator	3 334 → 341
LWL, LWH	linear ball slide	3 170 → 193
LWL25	linear ball LWL	3 182 → 183
M		
M	cover for uni. joint	2 96
M, PM	worm and wheel set	4 157 → 175
MAC(ss)	carabiner	1 310 → 311
MAT(ss) ^{NEW}	round bar	3 20, 22, 24
MAX	moto-reducer DC	2 254 → 255
MB	stop washer	3 103
MBEX	hexagonal ended handle	2 231
MBF	threaded blocking clamp	5 118
MC	shock absorber	1 243
MCL	sleeves	1 410
MDB, MTB	bevel gear	4 147
MDPOT	potentiometre	2 267
MDR(ss)	dee shackle	1 306 → 307
MDS	hub clamp	2 122

Part number	Volume 1 2 3 4 5	Page
MEB	bevel gear	4 146
MEP	cylindrical handle	1 76
MET(C)	Metafram® cylindrical bush	3 34 → 41
MF	shock absorber flange	1 245
MFB(S)	bellows coupling	2 46 → 49
MFB, MHB	bevel gear	4 148
MGS	support brush	5 42 → 43, 164 → 165
MH, MHQ	arm with handle	1 78 → 80
MHS, MHW	coupling	2 32 → 33
MXH	sleeves	1 384 → 385
MLY(ss)	bow shackle	1 308 → 309
MPB, MPE, MPS	spacer	1 378 → 381, 383
MR(S), MMR	rack	4 204 → 205
MRA(ss)-Eco	quick link	1 322 → 323
MRA(ss)	quick link	1 324 → 325
MURP	mini-profile	3 359 → 361
N		
NANO	servo amplifier	2 264
NAST	cam follower	3 278
NCT	connector	5 275 → 278
NDS	adjustable clamp	5 20 → 21
NINA, NIN	self locking nut	1 439
NJM	adjustable clamp	5 134
NK, NW	Drylin N® guiding system	3 208 → 211
NKX, NKXR	combined bearing	3 90 → 91
NPCR, NPR, NSA	adjustable clamp	5 130 → 132
NPTF, NPTR	adjustable clamp	5 125 → 129
NSB, NSO	linear bearing housing	3 248, 250
NSD	straight support clamp	5 123
NSKB	Miniature guidance	3 212
NSR	adjustable clamp	5 133
NT, NH	coaxial reducer	2 217 → 223
NTM	set screw	1 429 → 433
NRR	adjustable support clamp	5 122
NRV	orthogonal support clamp	5 121
NSP	universal 90° support clamp	5 119
NSU	universal 90° support clamp	5 120
O		
OP	indicators	1 162 → 169
P		
P	wormwheel reducer	2 148 → 162
PAL	self locking counter nut	1 361
PAM(ss)	articulated foot	1 285
PAP	handle for alu. profile	5 356

Part number	Volume	1	2	3	4	5	Page
PAT	articulated foot	1	284	5	152	→ 153	
PAV	vibration dampening foot	1	289				
PB	plastic ball bearing	3	68	→ 69			
PBG	precision bevel gear	4	358	→ 359			
PCLA	handle	1	70	→ 71			
PCP	cell carrier assembly	5	124				
PCS(ss)	chain sprocket	4	96	→ 101			
PDD	spring plunger	1	58	→ 59			
PF	reducer	2	142	→ 161			
PFC	fixed rubber foot	1	272				
PFL	coupling P-Flex	2	58				
PFM	articulated foot	1	283				
PG	spur gear	4	214	→ 301			
PGB	accessory-holder	5	347				
PGNT	T handle	1	112				
PGR	folding cylindrical revolving	1	77				
PGT	sliding profil	5	286				
PHG	precision helical gear	4	454	→ 465			
PLB, PLN, PLS	cylindrical spacer	1	386	→ 390			
PLC, PLT	magnetic stud	1	148				
PLD ^{NEW}	identification tag	1	318				
PLM, PLA	magnetic stud	1	150	→ 154			
PMC	flexible machine mount	1	292	→ 293			
PML	solid foot for heavy lods	1	290				
PNA	coupling PERIFLEX®	2	76	→ 78			
PO, PX	carrying handle	1	114				
PO	handle	5	283				
PP	reducer	2	163	→ 165			
PPD	clamping pin	1	50				
PPF	clamping pin	1	51				
PPG, PPH, PPI	index plunger	1	48	→ 51			
PPS	precision pinion shaft	1	345				
PPS	precision pinion shaft	4	386	→ 391			
PR	foot	1	274	→ 277	5	148	→ 151
PR	idler sprocket	5	69	→ 71			
PRES	manual bench press	5	28	→ 33			
PRF	profile	5	305	→ 343			
PRFBOU	emergency button	5	360				
PRFCHARPOU	tool holder	5	348				
PRFGUM	anodising polisher	5	385				
PRFP	feet support	5	339				
PRFSRA	lock for alu. profile	5	361				
PRFSRA(D) ^{NEW}	lock for alu. profile	5	362	→ 363			
PRL, PRZ	wear strip	5	82	→ 83			
PRS	articulated foot	1	286	→ 288			

Part number	Volume	1	2	3	4	5	Page
PRT	rotary table	3	392	→ 393			
PRT	rotary table	3	394	→ 395			
PS	precision shims	3	112				
PSG, PSG-H	precision spur gear	4	392	→ 418			
PSG-DL, PSG-PK	precision spur gear	4	420	→ 433			
PSG-S, PSG-SL	precision spur gear	4	394	→ 419			
PSG-HC, PSG-HCK	precision spur gear	4	434	→ 441			
PSP	panel accessories	5	287				
PSPT	flexible tube handle	1	115				
PT	drive sprocket	5	65	→ 67			
PT	timing pulley	4	43	→ 54			
PTAF, PAMF	articulated foot	1	280	→ 281			
PTA(ss)	levelling foot	1	278	→ 279, 282			
PTB(ss)	threaded eye hook	1	319				
PTGR, PTGT, PTGP	tensioner pulley	4	126	→ 128			
PTP	detachable V belts	4	11, 13				
PTR, PTR(ss)	idler chain sprocket	4	118	→ 119			
PV	suction finger	5	26	→ 27			
PW, PSW	worm-precision range	4	360	→ 382			
PWC	thread insert	1	400	→ 401			
PWG	wheel-precision range	4	361	→ 383			
P-X, P-DX	output shaft	2	162				
PXHG	precision helical gear	4	466	→ 475			
Q							
Q1, Q2	radial bearing	3	78	→ 79			
Q4, Q7, Q3	radial bearing	3	75	→ 77			
Q6	radial bearing	3	70	→ 71			
QFM, QM	Oilite® cylindrical bush	3	42	→ 46			
QN, QNU	radial bearing	3	84	→ 86			
QNJ, QNUP	radial bearing	3	87	→ 88			
QSNU, QUS, QUK	roller freewheel ^{NEW}	3	98	→ 100			
QUK ^{NEW}	roller freewheel	5	93				
QTC	clip on quarter turn latch	5	100	→ 101			
QTR	tapered roller bearings	3	80	→ 83			
R							
R	rack	4	202				
R	die spring	1	206	→ 213			
RAG	rail	5	96	→ 97			
RAG-FLOW2	roller guide	5	36	→ 37			
RAM	manual bevel gearbox	2	226	→ 227			
RAP	captive washer	1	443				
RAS(ss)	90°ball and socket joint	1	233	3	141		
RBS	dynamic washer	1	214	→ 217			
RCX	self aligning washer	1	436				
RDC(ss)	rigging screw	1	316				

Part number	Volume	1	2	3	4	5	Page
RDER ^{NEW}	rigging screw						① 317
REGA-REGP	aluminium ruler						① 160 → 161
RFV	worm and wheel gearbox						② 306 → 311
RGG	drip feeder						⑤ 85
RGS	coupling ROTEX® GS						② 36 → 37
RJA	sealing strip						⑤ 230 → 233
RJZM, RJUM	Drylin® bearing						③ 243, 254
RLR	Rolling® chain tensioner						④ 114 → 115
RLX	free running conveyor roller						⑤ 40
RMSA	shock absorber						① 244
RNAST	cam follower						③ 279
ROB, ROS	caster						⑤ 50 → 51
ROCP, ROCTR	caster						⑤ 52 → 53
ROE, RES, RES(ss)	caster						⑤ 54 → 56
RPB	ballscrew bearing unit						③ 325
RPP	timing belt						④ 25 → 33
RPP-P	connecting plate						④ 34
RSH	centerless ground shaft						③ 21
RT(T), RTL	locking assembly						② 128 → 131
RTE	coupling ROTEX®						② 68 → 69
RTK, RTN	coupling BoWex®						② 60 → 65
RVM	manual worm and wheel						② 228 → 229
S							
S	chain sprocket						④ 92 → 95
S, SF	ball bearing						③ 72 → 74
S2B, S2O	linear bearing housing						③ 249, 251
SA(KH)	linear bearing housing						③ 237
SAS	clutche						④ 100 → 101
SBR, SUA	chain per metre						④ 102 → 103
SBS	chain per metre						④ 104 → 105
SC2	rigid coupling						② 83
SCA, SCE(ss)	cable clamp						① 300 → 303
SCH	toggle clamp						① 139
SCR	suction cup threaded insert						⑤ 19
SDA, SDB	locating bolt support bracket						① 42 → 43
SDG(ss)	support bracket						⑤ 112 → 113
SEH, SEV	toggle clamp						① 137 → 138
SER	magnetic doorstop						⑤ 284
SERB	came latch						⑤ 195
SFE, SME	rod end Unibal®						③ 134 → 135
SFWR	end support						③ 234
SGV, SRG	adjustable latch						① 126 → 133
SH	helical gear						④ 308 → 318
SHA	handwheel						① 82 → 84
SHN, SHNA	nut						① 438

Part number	Volume	1	2	3	4	5	Page
SHS, SHSS	shoulder screw						① 414 → 417
SHTC, SHTP	Drylin® linear table						③ 354 → 357
SHW	washer						① 437
SKM/SKF	star knob						① 95
SKM	hexagonal nut						③ 303
SLB(ss), SLBS	clamping pin						① 52 → 53, 56
SLBW(ss)	index bolt						① 54 → 55
SLH, SLV	toggle latch						① 134 → 136
SLHH, SLHV	toggle latch						① 142 → 143
SLS	trapezoidal rolled leadscrew						③ 310
SLVH, SLVV	toggle clamp						① 143 → 145
SMLS	linear table						③ 255
SMS	spiral bevel gear						④ 152 → 153
SPIT	levelling support						⑤ 154
SR	rack						④ 203
SRP	slotted spring pin						① 366 → 367
SSB	stainless steel bevel gear						④ 144
SSDB, SSTB, SSFB	stainless steel bevel gear						④ 145
SSE	Unibal® spherical bearing						③ 124
SSG	spur gear						④ 225 → 272
STC	elasto buffer						① 246
STL	guidance brush						⑤ 99
STL	detachable V belt						④ 10, 12
STRIP	sealing brush strip						⑤ 179 → 181
STU	stroke rotary bush						③ 47
SUA	chain by metre						④ 102 → 103
SUP	locking assembly						② 124
SVG, SRG	adjustable latch						① 126 → 133
SVT, SVR	screwjack						③ 342 → 353
SW(H)	worm shaft						④ 156 → 174
T							
T	toothed bar						④ 40 → 42
T	timing belt						④ 55 → 60
T	timing pulley						④ 43 → 54
T	spring in metre						① 193
T-M	timing belt per metre						④ 60
T-P	connecting plate						④ 61
T0	torsion spring						① 204 → 205
TAC(ss)	rigging screw						① 312 → 313
TAD	plastic foot						① 273
TB(ss)	axial thrust bearing						③ 92 → 94
TB8	roller thrust bearings						③ 95
TB, TB/Eco	bevel gear						④ 135, 141
TBD	leadscrew table						③ 366 → 369
TBL	mini table, metric thread						③ 364 → 365

Part number	Volume	1	2	3	4	5	Page
TBV	manual lifting table	3	370	→	373		
TC1RP, TCRX	chain tensioner	4	110	→	111		
TCC(ss)	rigging screw	1	314	→	315		
TCL	support rod for heavy loads	1	291				
TCLAR, TCSH	chain tensioner	4	112	→	113		
TFR	tensioner plate	4	123				
TIF	threaded bar	1	411				
TK	linear bearing	3	242				
TK-OP	linear bearing	3	246				
TM	suction cup threaded insert	5	18				
TMR	tensioner plate	4	122				
TOC	swivel head	5	110				
TR(M), TRM(ss)	rack	4	207	→	208		
TS, TW	Drylin® linear slide	3	202	→	203		
TTQ	locking assembly	2	125	→	127		
TUBE	square tube	5	273				
U							
U	universal joint	2	84	→	86		
UCF	flange bearing	3	52, 55, 58	5	157, 160		
UCFL	flange bearing	3	53, 56, 59	5	158, 161		
UCP	block bearing	3	51, 54, 57	5	156, 159		
UGAC, UGET	actuator guide kit	3	399				
UGCG	actuator guide kit	3	398				
UGH	H type guide unit	3	404	→	410		
UGPC, UGPL	actuator guide kit	3	396	→	397		
UTK	UtiliTrack® linear guide	3	256	→	265		
V							
V3RA	handwheel	1	85	→	89		
VAP	magnetic stud	1	149				
VKM	square nut	3	299				
VLBG, VRBG	hoist ring	1	342	→	343		
VLBS, VRBS	hoist ring	1	340	→	341		
VML	set screw	1	109				
VMS	set screw	1	106				
VP(ss)	small threaded handle	1	102	→	103		
VB, VBFP	small threaded handle	1	100	→	101		
VPRAM	handwheel	1	81				
VRC	retaining clamp	1	146	→	147		
VRM	hoist ring	1	339				
VRS(ss)	hoist ring	1	336	→	338		
VT(A)	clutche	2	98	→	99		
VTH	hexagonal headed bolts	1	418	→	419		

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W							
W(H)	worm and wheel	4	156	→	174		
WBG	hoist ring	1	344				
WFRM	flanged ring	3	301				
WING	wing nut	1	440				
WJRM	Drylin® W modular guidance	3	226	→	227		
SHW	plain washer	1	437				
WSRM	cylindrical nut	3	300				
WS, WW, WJUM	Drylin® W rail	3	214	→	225		
WSS(ss)	symmetrical S shaped hook	1	326	→	327		
X							
XG	spur gear	4	234	→	295		
XJ/J	coaxial reducer	2	211	→	216		
Y							
YG	spur gear	4	234	→	295		
Z							
ZA, ZB	shaft for linear guide	3	230	→	231		
ZB	bevel gear	4	149	→	150		
ZDB, ZTB, ZFB	bevel gear	4	151				
ZG, ZPG	spur gear	4	220	→	297		
ZH	helical gear	4	320	→	328		
ZHG, ZHPG	spur gear	4	300	→	305		
ZIN	internal gear	4	190	→	194		
ZM, ZPM	worm and wheel	4	157	→	175		
ZR	rack	4	201				
ZSH	helical gear	4	309	→	317		
ZSW, ZW	worm and wheel	4	156	→	174		

ANSI B18-17	Manually operated wing nut	① 440
DIN 1B	Boxes set of threaded	① 351
DIN 04-1	Chain sprocket	④ 93
DIN 05B-1	Chain sprocket	④ 94
DIN 06B-1	Chain sprocket	④ 96 → 97
DIN 08B-1	Chain sprocket	④ 98 → 99
DIN 10B-1	Chain sprocket	④ 100 → 101
DIN 103	Leadscrew	③ 294 → 295, 306
DIN 125	Plain washer	① 437
DIN 176	Hexagonal shaft	② 230
DIN 314/315	Manually operated wing nut	① 440
DIN 444	Male eye bolt	① 329
DIN 464	Knurled thumb screw	① 106
DIN 466/467	Knurled thumb nut	① 107
DIN 471	External circlip	① 358
DIN 472	Internal circlip	① 359
DIN 580 - DIN 582	Eye bolt	① 331
DIN 625	Plastic ball bearing	③ 68 → 69
DIN 648	Spherical bushing	③ 118 → 119
	Rod end	③ 126 → 127
DIN 705	Locking ring NEW	② 115
DIN 808/7551	Universal joint	② 84 → 85
DIN 912	Socket-head screw	① 420 → 425
DIN 916	Set scrw	① 434 → 435
DIN 933	Hexagonal headed bolts	① 418 → 419
DIN 934	Hexagonal nut	① 438
DIN 975	Threaded bar	① 411
DIN 985	Auto locking nut	① 439
DIN 2093	Dynamic washer	① 214 → 217
DIN 2095	Compression spring	① 180 → 191
DIN 2097	Extension spring	① 194 → 203
DIN 3961	Precision pinion shaft	④ 387 → 475
DIN 3974	Worm and wheel set	④ 362 → 383
DIN 3985	Bevel gears	④ 358 → 359
DIN 6319	Self aligning washer	① 436
DIN 6325	Boxed set of dowel pins	① 349
	Dowel pin	① 368 → 369
DIN 6799	Shaft locking washer	① 360
	Rounded end feather key	① 356 → 357
DIN 6885	Boxed set of key	① 353
	Worm and wheel set	④ 361 → 383
DIN 6888	Boxed set of half round key	① 354
DIN 71802 - 71803 - 71805	Socket joints	③ 140 → 141
DIN 71752	Clevis components	③ 142 → 147
DIN 7551	Universal joint	② 84 → 85
DIN 7721	T and AT timing belt	④ 55 → 60, 84 → 86

DIN 7967	Self locking counter nut	1 361
DIN 7979D	Extractable dowel pin	1 372
DIN 7991	Countersunk screw	1 426 → 427
DIN 8187	Single chain	4 102
DIN 58405	Worm and wheel set	4 360 → 473
	Pinion shaft	4 386 → 437
DIN ISO 12240-1	Spherical bearing	8 122 → 123
DIN ISO 12240-4	Role end	8 130 → 133
DIN ISO 14	Clamping spring	2 110 → 113
ISO 104 :2002	Axial thrust bearing	8 92 → 93
ISO 606	Single chain	4 102, 104
ISO 2338	Dowel pin	1 370 → 371
ISO 2795	Bushing	8 44 → 45
ISO 2901 / 2903	Leadscrew	8 296 → 297
ISO 4762	Socket-head screw	1 420 → 425
ISO 7379	Shoulder screw	1 412 → 413
ISO 7380	Socket head button screw	1 428
ISO 8750 - ISO 8752	Coiled spring pin	1 364 → 365
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