

HPC

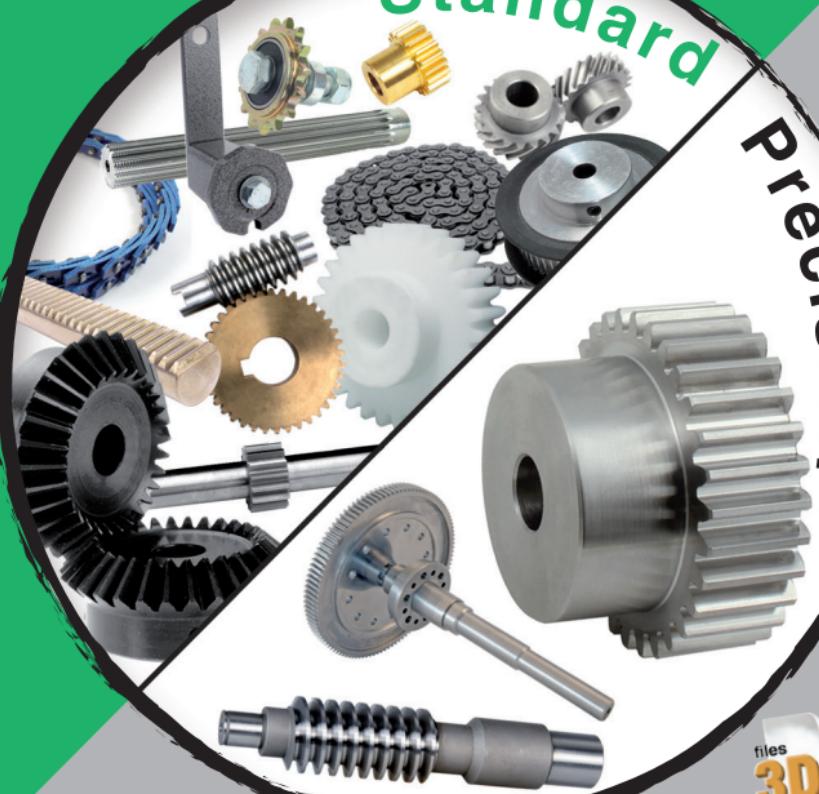
Mechanical components by mail order

4/5
2013

Gears and sprockets

Standard

Precision



Tel. +33(0) 37 496 496

www.hpceurope.com



Index photos 1/3

Stainless steel spur gear



p.204

Steel spur gear



p.208

Plastic spur gear



p.210

Brass spur gear



p.216

stainless steel

Moulded plastic spur gear



p.238

Parallel axis helical gear



p.304

Crossed axis helical gear



p.316

Internal gear



p.172

Steel rack



p.184

Stainless steel rack



p.185

MADE TO MEASURE
Contact us

Spur round rack



p.189

Flexible rack



p.192

Moulded nylon rack



p.196

Plastic rack



p.198

stainless steel

Double gear



p.162

Anti-backlash spur gear



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Pinion shaft



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Worm and wheel with shaft or bore



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Anti-backlash wormwheel



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Detachable V belts



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Discounts : maximum discount on price list 2012

Stock : depending on availability

New : new product



UNTIL
-30%

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Toothed bar
machined to order

p.42



T typer tooth bar
stock

p.44



T type moulded
nylon timing pulley

p.47



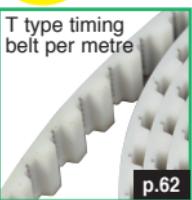
T type timing pulley

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T type timing
belt

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T type timing
belt per metre

p.62



Connecting plate
for T type timing
belt

p.63



AT type tooth bar
stock

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AT type timing
pulley

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AT type timing
belt

p.78



AT type timing
belt per metre

p.80



Chain sprocket

p.86



Chain procket

p.91



Single chain
supplied by the
metre

p.96



Chain link

p.97



Single chain
supplied by the
metre

inox

p.98



Chain link

p.99



Belt tension roller

New

p.102



Fixed tensioner
plate

p.104

Turn the page
please



stainless
steel

stainless
steel

Image index 3/3

Roll-Ring® self-adjusting chain tensioner



p.106

Idler chain sprocket



p.108

Universal tension arm



p.110

Universal tension arm



p.111

Steel bevel gear economy range (1:1 to 4:1)



p.116

Steel bevel gear



p.122

Stainless steel bevel gear



p.128

Moulded plastic bevel gear



p.130

Machined plastic bevel gear



p.133

Range of PRECISION
p.354-p.481

Bevel gear



p.356

Steel worm and wheel



p.360

Delrin and PEEK worm and wheel



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Rack



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Pinion shaft



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Spur gear



p.396

Machined plastic worm and wheel



p.424

Ground spur gear



p.448

Parallel axis helical gear



p.460

Crossed axis helical gear



p.472

Range of precision

PRECISION Range (Quality Grade 7e25) Ste DIN

MODULE

2.0

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:
 - 35NC06 Pre-treated steel 28HRC
 - 20NC02 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	Standard	Hardened	Z	DP	OD	DA	OB	Backlash	Torque (Nm)	Weight	Price each 1 to 5
	Standard	Hardened	Teeth	Pitch	External	Bore	Base	(mm)	Standard Hardened	(kg)	Standard Hardened
PHG20-15R	PHG20-15RH	15	42.43	46.43	10	35	0.190 -0.065	1.12	4.09	0.346	58.92 € 97.25 €
PHG20-16R	PHG20-16RH	16	45.25	49.25	10	35	0.190 -0.065	1.19	4.37	0.376	60.14 € 99.27 €
PHG20-17R	PHG20-17RH	17	48.07	52.07	10	35	0.190 -0.065	1.25	4.65	0.412	61.90 € 104.25 €
PHG20-18R	PHG20-18RH	18	50.89	54.89	10	35	0.190 -0.065	1.31	4.93	0.442	67.40 € 110.25 €
PHG20-19R	PHG20-19RH	19	53.71	57.71	10	35	0.250 -0.069	1.38	4.76	0.478	69.38 € 114.46 €
PHG20-20R	PHG20-20RH	20	56.53	60.53	10	35	0.250 -0.069	1.37	5.01	0.517	70.86 € 116.95 €
PHG20-21R	PHG20-21RH	21	59.34	63.40	12	45	0.250 -0.069	1.44	5.27	0.703	74.22 € 122.53 €
PHG20-22R	PHG20-22RH	22	62.16	66.23	12	45	0.250 -0.069	1.50	5.52	0.745	80.65 € 133.08 €
PHG20-23R	PHG20-23RH	23	65.00	69.05	12	45	0.250 -0.069	1.57	5.77	0.786	82.24 € 135.76 €
PHG20-24R	PHG20-24RH	24	67.82	71.88	12	45	0.250 -0.069	1.64	6.02	0.825	84.84 € 142.14 €
PHG20-25R	PHG20-25RH	25	70.71	74.71	12	45	0.250 -0.069	1.81	6.20	0.863	87.64 € 149.24 €
PHG20-26R	PHG20-26RH	26	73.54	77.54	12	45	0.250 -0.069	1.87	6.44	0.893	95.22 € 157.20 €
PHG20-27R	PHG20-27RH	27	76.37	80.37	12	45	0.250 -0.069	1.74	6.37	0.985	100.00 € 165.04 €

Dimensions in mm

478 4 Volume 4 2013 HPC www.hpc-europe.com - +33(0)4 37 496 496

Look for the grey bands!

24/48h delivery*
for articles in stock



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*Contact us for full details

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Customer account n°:

Sales contact:

Internet password :



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

- 7000 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.hpc-europe.com references 29,000 parts
- Instant online quote generation
- Datasheets in PDF format and 3D models can be **downloaded free of charge** from the site

SAFE PAYMENT



Credit
Card



Cheque



Bank
Transfer



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 15.00 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€
Company registration N°382 911 907 RCS Lyon
French SIC code : APE 4669B
VAT N° FR 41 382 911 907

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

Ordering from HPC

A guide

FIND YOUR PRODUCT



Picture index
on p.1

RCX TAC
LWL
PTA

Part N° index
on p.496

A C D
B

Alphabetical index
on p.502

SAVING TIME

Prepare the following information will speed up the ordering process :

- Your HPC account number (if you have one)
- Your name and that of your company
- Delivery and invoice addresses
- Your official order number
- The number of any quotation received
- Part numbers and quantities required
- Required delivery date
- If ordering from outside France, we will need your VAT N°

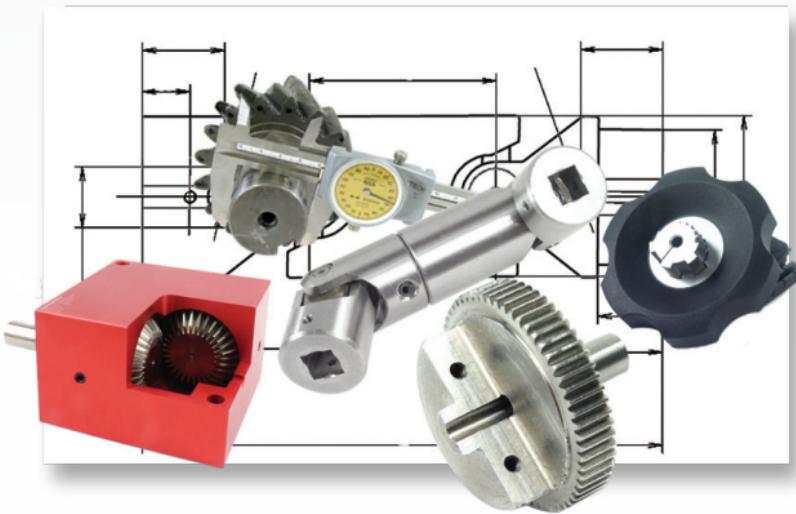
Technical support

For all your questions
and requests for quotation



Your parts made to measure

Bore, keyway,
standard modification...
Machined to drawings or
from samples...



Send us your requests to
cial2@hpceurope.com

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Index icons

Internal bore



Modifiable



Non-modifiable

Angles



Load



Axial load



Radial load



Heavy duty



Max load
1 tonne

Compatibility



Robotic
industry



Food industry

Delivery time



48h



In hours or weeks

Maintenance



Maintenance
free



No lubrication

Method of fabrication



Moulded



Machined

Applicable



Industrial



Manual

Material



Steel



Stainless steel



Aluminium



Brass



Bronze



Nylon



Copper



Plastic



Delrin



Peek



Cast iron

Standards



DIN



ISO

Resistant to



Low
temperatures



High
temperatures



Corrosion



Shock

Others



Bi-directional



Precision



Duo



Bearings



Light



No fixing



Miniature size



Low cost
range



Modulable



High
speed of
rotation

Special HPC



Custom-made



In stock



In imperial

Pulley and
timing belts
p.14-p.39

Detachable V
belts



p.14

HTD type tooth
bar stock



UNTIL
-30%

p.18

Timing belts



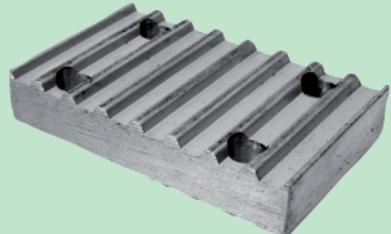
p.20

Heavy duty
timing belt



p.29

Connecting plate



p.38

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 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

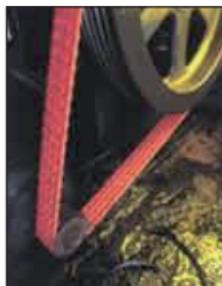
The link style construction means that belts can be fitted easily and quickly even on difficult to access drives. Belts can be joined around the shafts without dismantling the drive.

- 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.



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	✓	90,62 €
STL-SPA	SPA	1000	✓	90,62 €
STL-SPB	SPB	1000	✓	100,35 €

Depending on availability - Dimensions in mm

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.



- **Long operating life**

PowerTwist Plus is capable of high performance even in the most difficult conditions. The belts resists 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 ever 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-Z10	Z/10	2000	✓	98,07 €
PTP-A/13	A/13	2000	✓	99,91 €
PTP-B/17	B/17	2000	✓	116,01 €

Depending on availability - Dimensions in mm

Detachable V belts

STL
PTP

Installation instructions



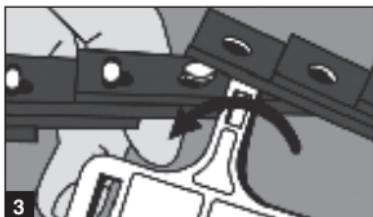
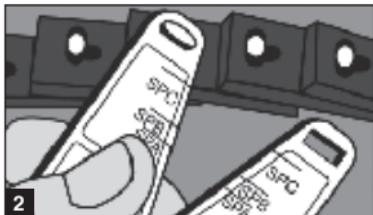
I - How to measure the length

- 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.



II - Dismantling

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



III - 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.)



IV - 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.

V - Re-tensioning

Like all high performance V belts, SuperTLink 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

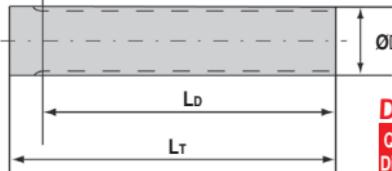
Aluminium



- 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



-30%**

DISCOUNTS

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

Part number	Z Teeth	ØD External	Length of teeth Ld	Total length Lt	Price each 1 to 5
12HTD5M-BAR	12	17,96	150	160	8,52 €
13HTD5M-BAR	13	19,55	150	160	9,31 €
14HTD5M-BAR	14	21,14	175	200	11,85 €
15HTD5M-BAR	15	22,73	175	200	13,02 €
16HTD5M-BAR	16	24,33	175	200	14,16 €
17HTD5M-BAR	17	25,92	175	200	14,23 €
18HTD5M-BAR	18	27,51	200	200	16,92 €
19HTD5M-BAR	19	29,10	200	200	18,49 €
20HTD5M-BAR	20	30,69	200	200	19,95 €
21HTD5M-BAR	21	32,28	200	200	20,80 €
22HTD5M-BAR	22	33,88	200	200	21,66 €
23HTD5M-BAR	23	35,47	200	200	23,30 €
24HTD5M-BAR	24	37,06	200	200	25,02 €
25HTD5M-BAR	25	38,65	200	200	26,84 €
26HTD5M-BAR	26	40,24	200	200	29,63 €
27HTD5M-BAR	27	41,83	200	200	29,77 €
28HTD5M-BAR	28	43,42	200	200	32,84 €
30HTD5M-BAR	30	46,61	200	200	35,08 €
32HTD5M-BAR	32	49,79	200	200	37,44 €
34HTD5M-BAR	34	52,97	200	200	41,12 €
36HTD5M-BAR	36	56,16	200	200	47,36 €
38HTD5M-BAR	38	59,34	200	200	50,29 €
40HTD5M-BAR	40	62,52	200	200	54,65 €
42HTD5M-BAR	42	65,71	200	200	59,14 €
44HTD5M-BAR	44	68,89	200	200	70,04 €
45HTD5M-BAR	45	70,48	200	200	71,32 €
48HTD5M-BAR	48	75,26	200	200	78,46 €
50HTD5M-BAR	50	78,44	200	200	87,46 €
60HTD5M-BAR	60	94,36	200	200	118,62 €
72HTD5M-BAR	72	113,45	200	200	167,10 €

Dimensions in mm

Steel

HTD8M-BAR

- Bar stock to be cut to length by the customer

- The overall length is the same as the maximum length

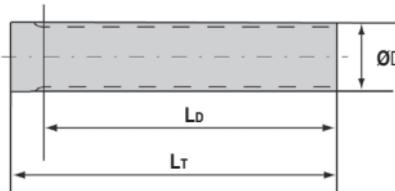
- Material : Steel C40

Info.

- We are unable to modify this product



-30%**

**DISCOUNTS**

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

Part number	Z Teeth	ØD External	Length of teeth LD	Total length LT	Price each 1 to 5
18HTD8M-BAR	18	44,47	200	200	40,51 €
19HTD8M-BAR	19	47,01	200	200	43,29 €
20HTD8M-BAR	20	49,56	200	200	45,65 €
21HTD8M-BAR	21	52,11	200	200	47,51 €
22HTD8M-BAR	22	54,65	200	200	49,83 €
23HTD8M-BAR	23	57,20	200	200	52,15 €
24HTD8M-BAR	24	59,75	200	200	54,47 €
25HTD8M-BAR	25	62,29	200	200	55,86 €
26HTD8M-BAR	26	64,84	200	200	60,54 €
28HTD8M-BAR	28	69,93	200	200	66,61 €
30HTD8M-BAR	30	75,03	200	200	75,89 €
32HTD8M-BAR	32	80,12	200	200	88,10 €
34HTD8M-BAR	34	85,21	200	200	95,92 €
35HTD8M-BAR	35	87,76	200	200	106,27 €
36HTD8M-BAR	36	90,30	200	200	111,45 €
38HTD8M-BAR	38	95,40	200	200	124,45 €
40HTD8M-BAR	40	100,49	200	200	136,33 €
44HTD8M-BAR	44	110,67	200	200	161,75 €
48HTD8M-BAR	48	120,86	200	200	189,24 €

Dimensions in mm

Heavy duty timing pulley

Alu  Size  Stock 

PITCH 3mm

Belt width 9mm



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

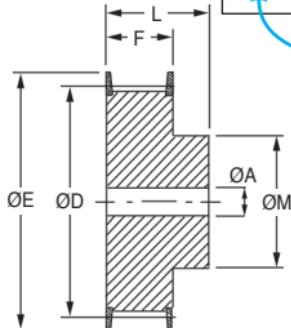
Aluminium

Accessories

- Belts RPP3
- Belt idler roller RE

Info.

- Pre-bore dimension is a guide only
- To be finished to size 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	No. of teeth	External Ø	Flange ØE	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	✓ 5,46 €
12HTD3M-09F	12	11,46	10,70	15,0	15,0	10,2	17,5	Solid	✓ 5,46 €
14HTD3M-09F	14	13,37	12,61	16,0	16,0	10,2	17,5	Solid	✓ 5,56 €
15HTD3M-09F	15	14,32	13,56	17,5	17,5	10,2	17,5	Solid	✓ 5,56 €
16HTD3M-09F	16	15,28	14,52	17,5	10,0	12,8	20,6	4	✓ 5,95 €
18HTD3M-09F	18	17,19	16,43	20,0	11,0	12,8	20,6	6	✓ 6,05 €
20HTD3M-09F	20	19,10	18,34	23,0	13,0	12,8	20,6	6	✓ 6,10 €
21HTD3M-09F	21	20,05	19,29	25,0	14,0	12,8	20,6	6	✓ 6,28 €
22HTD3M-09F	22	21,01	20,25	25,0	14,0	12,8	20,6	6	✓ 6,49 €
24HTD3M-09F	24	22,92	22,16	25,0	14,0	12,8	20,6	6	✓ 6,90 €
26HTD3M-09F	26	24,83	24,07	28,0	16,0	12,8	20,6	6	✓ 7,03 €
28HTD3M-09F	28	26,74	25,98	32,0	18,0	12,8	20,6	6	✓ 7,14 €
30HTD3M-09F	30	28,65	27,89	32,0	20,0	12,8	20,6	6	✓ 7,30 €
32HTD3M-09F	32	30,56	29,80	36,0	22,0	12,8	20,6	6	✓ 7,76 €
36HTD3M-09F	36	34,38	33,62	39,0	26,0	13,4	22,2	6	✓ 8,25 €
40HTD3M-09F	40	38,20	37,44	42,0	28,0	13,4	22,2	6	✓ 9,08 €
44HTD3M-09F	44	42,02	41,26	48,0	33,0	13,4	22,2	6	✓ 10,47 €
48HTD3M-09	48	45,84	45,08	-	33,0	13,4	22,2	8	✓ 11,34 €
60HTD3M-09	60	57,30	56,54	-	33,0	13,4	22,2	8	✓ 12,70 €
72HTD3M-09	72	68,75	67,99	-	33,0	13,4	22,2	8	✓ 14,57 €

*Depending on availability - Dimensions in mm

Steel or aluminium

PITCH
5mm

Belt width 9mm

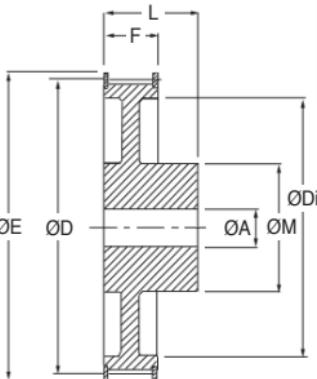
- For use with RPP5 belt
- Pitch: 5mm
- Material:
aluminium or phosphated steel depending
on size

Accessories

- Belts RPP5
- Belt idler roller RE

Info.

- Pre-bore dimension is a guide only
- To be finished to size by 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 teeth	PCD Ø external	ØD flange	ØE	ØM	ØDi	F	L	ØA	Pre-bore Stock*	Price each 1 to 5
12HTD5M-09F	Steel	12	19,10	17,96	23,0	13,0	-	14,5	20,0	4	✓	4,91 €
14HTD5M-09F		14	22,28	21,14	25,0	13,0	-	14,5	20,0	6	✓	5,31 €
15HTD5M-09F		15	23,87	22,73	28,0	16,0	-	14,5	20,0	6	✓	5,56 €
16HTD5M-09F		16	25,46	24,32	28,0	16,5	-	14,5	20,0	6	✓	5,89 €
18HTD5M-09F		18	28,65	27,51	32,0	20,0	-	14,5	20,0	6	✓	6,49 €
20HTD5M-09F		20	31,83	30,69	36,0	23,0	-	14,5	22,5	6	✓	6,90 €
21HTD5M-09F		21	33,42	32,28	38,0	24,0	-	14,5	22,5	6	✓	7,14 €
22HTD5M-09F		22	35,01	33,87	39,0	25,5	-	14,5	22,5	6	✓	7,43 €
24HTD5M-09F		24	38,20	37,06	42,0	27,0	-	14,5	22,5	6	✓	7,89 €
26HTD5M-09F		26	41,38	40,24	44,0	30,0	-	14,5	22,5	6	✓	8,25 €
28HTD5M-09F		28	44,56	43,42	48,0	30,5	-	14,5	22,5	6	✓	8,60 €
30HTD5M-09F		30	47,75	46,60	51,0	35,0	-	14,5	22,5	6	✓	8,94 €
32HTD5M-09F		32	50,93	49,79	54,0	38,0	-	14,5	22,5	8	✓	10,08 €
36HTD5M-09F		36	57,30	56,16	60,0	38,0	-	14,5	22,5	8	✓	10,52 €
40HTD5M-09F		40	63,66	62,52	71,0	38,0	-	14,5	22,5	8	✓	10,91 €
44HTD5M-09		44	70,03	68,89	-	38,0	54	14,5	25,5	8	-	16,72 €
48HTD5M-09		48	76,39	75,25	-	45,0	61	14,5	25,5	8	✓	18,45 €
60HTD5M-09		60	95,49	94,35	-	45,0	80	14,5	25,5	8	✓	27,01 €
72HTD5M-09		72	114,59	113,45	-	45,0	100	14,5	25,5	8	✓	38,20 €

*Depending on availability - Dimensions in mm

Heavy duty timing pulley

Ste Alu Stock

PITCH 5mm

Belt width 15mm



- For use with RPP5 belt

- Pitch: 5mm

- Material:

Aluminium or phosphated steel depending on size

Accessories

- Belts RPP5

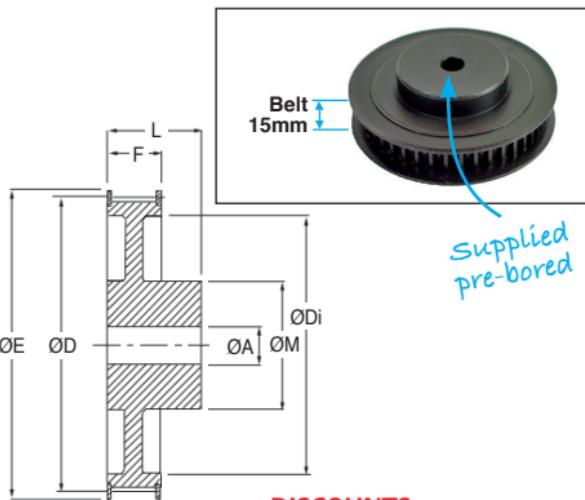
- Belt idler roller RE

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 teeth	PCD Ø	ØD external flange	ØE	ØM	ØDi	F	L	Pre-bore ØA	Stock*	Price each 1 to 5
12HTD5M-15F	Steel	12	19,10	17,96	23,0	13,0	-	20,5	26,0	Solid ✓	✓	5,75 €
14HTD5M-15F		14	22,28	21,14	25,0	13,0	-	20,5	26,0	6 ✓	✓	6,10 €
15HTD5M-15F		15	23,87	22,73	28,0	16,0	-	20,5	26,0	6 ✓	✓	6,49 €
16HTD5M-15F		16	25,46	24,32	28,0	16,5	-	20,5	26,0	6 ✓	✓	6,59 €
18HTD5M-15F		18	28,65	27,51	32,0	20,0	-	20,5	26,0	6 ✓	✓	7,14 €
20HTD5M-15F		20	31,83	30,69	36,0	23,0	-	20,5	26,0	6 ✓	✓	7,56 €
21HTD5M-15F		21	33,42	32,28	38,0	24,0	-	20,5	26,0	6 -	✓	7,89 €
22HTD5M-15F		22	35,01	33,87	39,0	25,5	-	20,5	26,0	6 ✓	✓	8,25 €
24HTD5M-15F		24	38,20	37,06	42,0	27,0	-	20,5	28,0	6 ✓	✓	8,87 €
26HTD5M-15F		26	41,38	40,24	44,0	30,0	-	20,5	28,0	6 ✓	✓	9,36 €
28HTD5M-15F		28	44,56	43,42	48,0	30,5	-	20,5	28,0	6 ✓	✓	10,08 €
30HTD5M-15F		30	47,75	46,60	51,0	35,0	-	20,5	28,0	6 ✓	✓	10,91 €
32HTD5M-15F		32	50,93	49,79	54,0	38,0	-	20,5	28,0	8 ✓	✓	11,44 €
36HTD5M-15F		36	57,30	56,16	60,0	38,0	-	20,5	28,0	8 ✓	✓	12,09 €
40HTD5M-15F		40	63,66	62,52	71,0	38,0	-	20,5	28,0	8 ✓	✓	13,02 €
44HTD5M-15		44	70,03	68,89	-	38,0	054	20,5	30,0	8 ✓	✓	19,56 €
48HTD5M-15		48	76,39	75,25	-	38,0	061	20,5	30,0	8 ✓	✓	21,59 €
60HTD5M-15		60	95,49	94,35	-	50,0	080	20,5	30,0	8 ✓	✓	32,01 €
72HTD5M-15		72	114,59	113,45	-	50,0	100	20,5	30,0	8 ✓	✓	43,41 €

*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

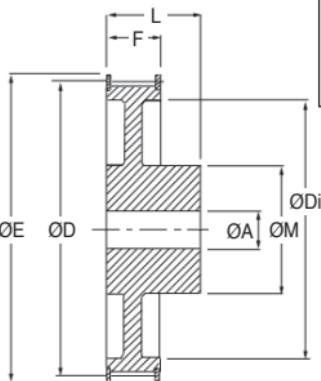
- Belt idler roller RE

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 Ø	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	- 7,03 €
14HTD5M-25F		14	22,28	21,14	25,0	13,0	-	30,5	36	6 7,56 €
15HTD5M-25F		15	23,87	22,73	28,0	16,0	-	30,5	36	6 7,89 €
16HTD5M-25F		16	25,46	24,32	28,0	16,5	-	30,5	36	6 8,25 €
18HTD5M-25F		18	28,65	27,51	32,0	20,0	-	30,5	36	6 8,60 €
20HTD5M-25F		20	31,83	30,69	36,0	23,0	-	30,5	36	6 9,36 €
21HTD5M-25F		21	33,42	32,28	38,0	24,0	-	30,5	38	6 9,65 €
22HTD5M-25F		22	35,01	33,87	39,0	25,5	-	30,5	38	6 10,31 €
24HTD5M-25F		24	38,20	37,06	42,0	27,0	-	30,5	38	6 11,34 €
26HTD5M-25F		26	41,38	40,24	44,0	30,0	-	30,5	38	6 11,98 €
28HTD5M-25F		28	44,56	43,42	48,0	30,5	-	30,5	38	6 12,95 €
30HTD5M-25F		30	47,75	46,60	51,0	35,0	-	30,5	38	6 14,07 €
32HTD5M-25F		32	50,93	49,79	54,0	38,0	-	30,5	38	8 14,93 €
36HTD5M-25F		36	57,30	56,16	60,0	38,0	-	30,5	38	8 15,65 €
40HTD5M-25F		40	63,66	62,52	71,0	38,0	-	30,5	38	8 17,98 €
44HTD5M-25		44	70,03	68,89	-	38,0	-	30,5	40	8 25,09 €
48HTD5M-25		48	76,39	75,25	-	38,0	061	30,5	40	8 29,16 €
60HTD5M-25		60	95,49	94,35	-	50,0	080	30,5	40	8 39,71 €
72HTD5M-25		72	114,59	113,45	-	50,0	100	30,5	40	8 55,74 €

*Depending on availability - Dimensions in mm

Heavy duty timing pulley

SteCas  Stock

PITCH 8mm

Belt width 20mm



- For use with RPP8 belt

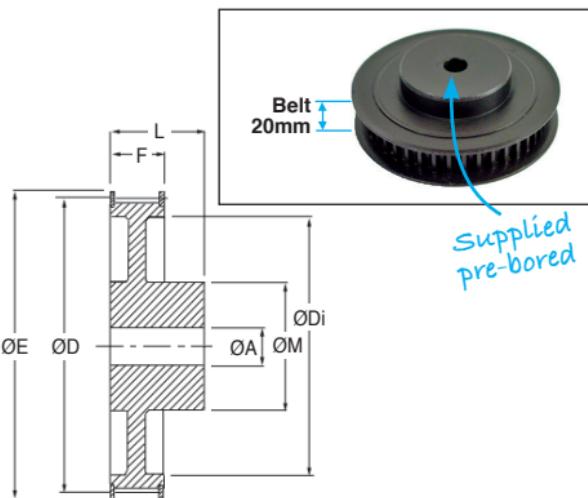
- Pitch: 8mm
- Material:
- Cast iron or phosphated steel depending on size

Accessories

- Belts RPP8
- Belt idler roller RE

Info.

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



DISCOUNTS

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

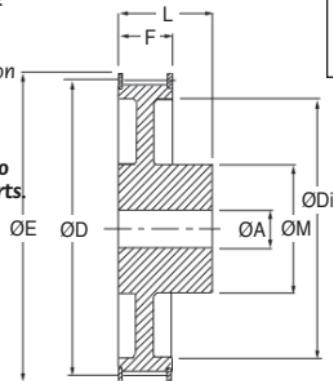
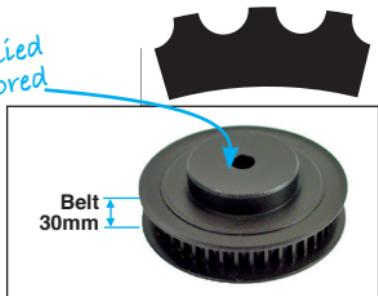
Part number	Material	No. of teeth	PCD Ø	external ØD	flange ØE	ØM	ØDi	F	L	Pre-bore ØA	Stock*	Price each 1 to 5
22HTD8M-20F	Steel	22	56,02	54,65	60,0	43	-	28	38	12	✓	11,19 €
24HTD8M-20F		24	61,12	59,75	66,0	45	-	28	38	12	✓	12,42 €
26HTD8M-20F		26	66,21	64,85	70,0	48	-	28	38	12	✓	13,26 €
28HTD8M-20F		28	71,30	70,08	75,0	50	-	28	38	15	✓	14,70 €
30HTD8M-20F		30	76,39	75,13	82,5	55	-	28	38	15	✓	16,86 €
32HTD8M-20F		32	81,49	80,16	87,0	60	-	28	38	15	✓	18,61 €
34HTD8M-20F		34	86,58	85,22	91,0	66	-	28	38	15	✓	20,70 €
36HTD8M-20F		36	91,67	90,30	97,0	70	-	28	38	15	✓	22,86 €
38HTD8M-20F		38	96,77	95,39	102,0	75	-	28	38	15	-	25,09 €
40HTD8M-20F		40	101,86	100,49	106,0	75	-	28	38	15	-	27,08 €
44HTD8M-20F	Cast	44	112,05	110,67	120,0	75	-	28	38	15	✓	32,26 €
48HTD8M-20F		48	122,23	120,86	128,0	75	-	28	38	15	✓	37,20 €
56HTD8M-20F		56	142,60	141,23	150,0	80	116	28	38	15	✓	47,56 €
64HTD8M-20F		64	162,97	161,60	168,0	80	137	28	38	15	✓	58,41 €
72HTD8M-20F		72	183,35	181,97	192,0	80	158	28	38	15	✓	70,20 €
80HTD8M-20		80	203,72	202,35	-	90	180	28	38	15	-	66,79 €
90HTD8M-20		90	229,18	227,81	-	90	204	28	38	15	-	76,05 €

*Depending on availability - Dimensions in mm

Steel or cast iron

PITCH
8mm

Belt width 30mm

- For use with RPP8 belt**- Pitch: 8mm****- Material:**Cast iron or phosphated steel
depending on size**Accessories****- Belts RPP8****- Belt idler roller RE****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 ØE	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	✓	12,52 €
24HTD8M-30F		24	61,12	59,75	66,0	45	-	38	48	12	✓	14,32 €
26HTD8M-30F		26	66,21	64,85	70,0	48	-	38	48	12	✓	16,21 €
28HTD8M-30F		28	71,30	70,08	75,0	50	-	38	48	15	-	17,98 €
30HTD8M-30F		30	76,39	75,13	82,5	55	-	38	48	15	✓	20,63 €
32HTD8M-30F		32	81,49	80,16	87,0	60	-	38	48	15	-	22,86 €
34HTD8M-30F		34	86,58	85,22	91,0	66	-	38	48	15	-	25,31 €
36HTD8M-30F		36	91,67	90,30	97,0	70	-	38	48	15	✓	27,95 €
38HTD8M-30F		38	96,77	95,39	102,0	75	-	38	48	15	-	30,74 €
40HTD8M-30F		40	101,86	100,49	106,0	75	-	38	48	15	✓	33,30 €
44HTD8M-30F		44	112,05	110,67	120,0	75	-	38	48	15	-	39,67 €
48HTD8M-30F		48	122,23	120,86	128,0	75	-	38	48	15	✓	45,88 €
56HTD8M-30F		56	142,60	141,23	150,0	90	116	38	48	15	✓	63,89 €
64HTD8M-30F		64	162,97	161,60	168,0	90	137	38	48	15	-	78,95 €
72HTD8M-30F		72	183,35	181,97	192,0	95	158	38	48	15	-	92,69 €
80HTD8M-30		80	203,72	202,35	-	100	180	38	48	15	-	82,70 €
90HTD8M-30		90	229,18	227,81	-	100	204	38	48	15	-	90,13 €

*Depending on availability - Dimensions in mm

Heavy duty timing pulley

SteCas 

PITCH 8mm

Belt width 50mm



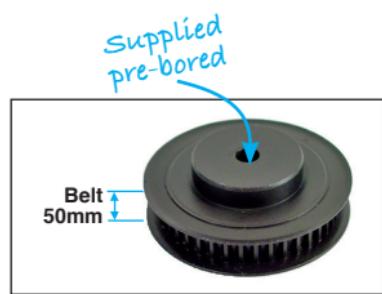
- For use with RPP8 belt

- Pitch: 8mm

- Material:

Cast iron or phosphated steel
depending on size

Steel or cast iron



Accessories

- Belts RPP8

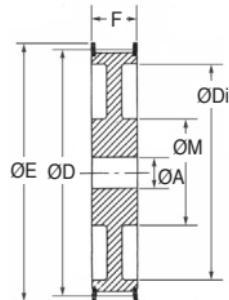
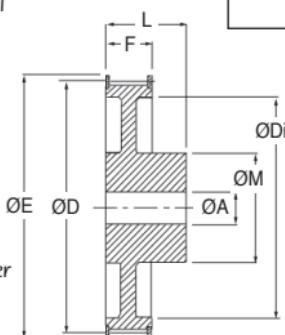
- Belt idler roller RE

Info.

- Pre-bore dimension is a guide only

- To be finished to size by 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 teeth	PCD Ø external	ØD flange	ØE	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		17,11 €
24HTD8M-50F		24	61,12	59,75	66,0	45	-	60	70		19,73 €
26HTD8M-50F		26	66,21	64,85	70,0	48	-	60	70		22,35 €
28HTD8M-50F		28	71,30	70,08	75,0	50	-	60	70		25,22 €
30HTD8M-50F		30	76,39	75,13	82,5	55	-	60	70		28,80 €
32HTD8M-50F		32	81,49	80,16	87,0	60	-	60	70		31,92 €
34HTD8M-50F		34	86,58	85,22	91,0	66	-	60	70		35,52 €
36HTD8M-50F		36	91,67	90,30	97,0	70	-	60	70		39,17 €
38HTD8M-50F		38	96,77	95,39	102,0	75	-	60	70		43,02 €
40HTD8M-50F		40	101,86	100,49	106,0	75	-	60	70		46,75 €
44HTD8M-50F		44	112,05	110,67	120,0	75	-	60	70		55,68 €
48HTD8M-50F		48	122,23	120,86	128,0	80	-	60	70		65,00 €
56HTD8M-50F		56	142,60	141,23	150,0	90	116	60	60	18	79,93 €
64HTD8M-50F		64	162,97	161,60	168,0	100	137	60	60	18	100,49 €
72HTD8M-50F		72	183,35	181,97	192,0	100	158	60	60	18	123,61 €
80HTD8M-50		80	203,72	202,35	-	110	180	60	60	18	111,78 €
90HTD8M-50		90	229,18	227,81	-	110	204	60	60	18	125,27 €

Dimensions in mm

Heavy duty timing pulley

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

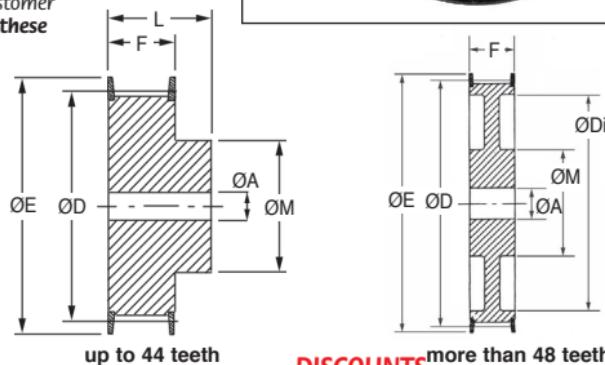
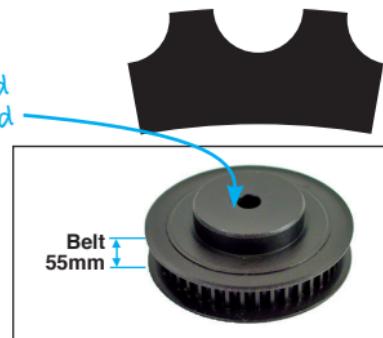
- Belts **RPP14**

- Belt idler roller **RE**

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 more than 48 teeth

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

Part number	Material	No. of teeth	PCD Ø	flange external Ø	ØE	ØM	ØDi	F	L	Pre-bore ØA	Price each 1 to 5
28HTD14M-55F	Steel	28	124,78	122,12	128	100	-	70	85	24	76,73 €
29HTD14M-55F		29	129,23	126,57	138	100	-	70	85	24	102,31 €
30HTD14M-55F		30	133,69	130,99	138	100	-	70	85	24	95,23 €
32HTD14M-55F		32	142,60	139,88	154	100	-	70	85	24	107,77 €
34HTD14M-55F		34	151,52	148,79	160	100	-	70	85	24	122,01 €
36HTD14M-55F		36	160,43	157,68	168	100	-	70	85	24	136,43 €
38HTD14M-55F		38	169,34	166,60	183	120	-	70	85	24	143,38 €
40HTD14M-55F		40	178,25	175,49	188	120	-	70	85	24	160,68 €
44HTD14M-55F		44	196,08	193,28	211	120	-	70	85	24	195,51 €
48HTD14M-55F		48	213,90	211,11	226	135	170	70	70	24	182,02 €
56HTD14M-55F	Cast	56	249,55	246,76	256	135	207	70	70	28	227,10 €
64HTD14M-55F		64	285,21	282,41	296	135	240	70	70	28	231,55 €

Dimensions in mm

Heavy duty timing pulley

StCas 

PITCH

14mm

Belt width 85mm



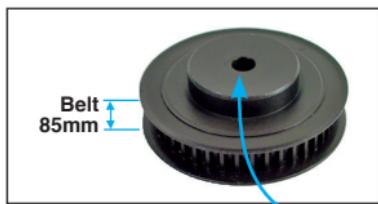
Steel or cast iron

- For use with RPP14 belt

- Pitch: 14mm

- Material:

Cast iron or phosphated steel
depending on size



Accessories

- Belts RPP14

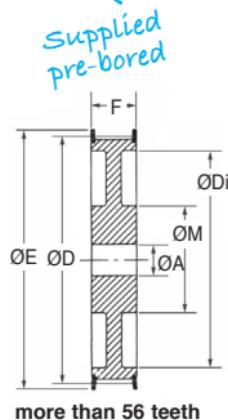
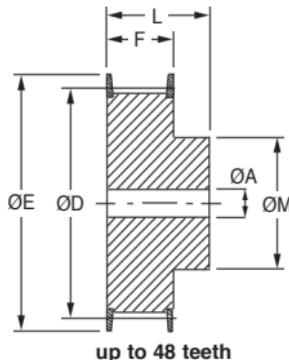
- Belt idler roller RE

Info.

- Pre-bore dimension is a guide only

- To be finished to size by 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 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	-	103,60 €
30HTD14M-85F		30	133,69	130,99	138	100	-	102	117	-	128,06 €
32HTD14M-85F		32	142,60	139,88	154	100	-	102	117	-	145,14 €
34HTD14M-85F		34	151,52	148,79	160	100	-	102	117	-	164,27 €
36HTD14M-85F		36	160,43	157,68	168	100	-	102	117	-	185,13 €
38HTD14M-85F		38	169,34	166,60	183	120	-	102	117	-	193,60 €
40HTD14M-85F		40	178,25	175,49	188	135	-	102	117	-	217,34 €
44HTD14M-85F		44	196,08	193,28	211	135	-	102	117	-	264,77 €
48HTD14M-85F		48	213,90	211,11	226	150	-	102	117	-	255,59 €
56HTD14M-85F		56	249,55	246,76	256	150	207	102	102	32	314,71 €
64HTD14M-85F	Cast	64	285,21	282,41	296	150	240	102	102	32	324,27 €

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

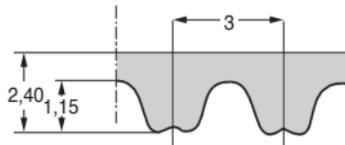
Advantages

- 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%	-14%	-20%	-24%	On request	

Part number	Length	No. of teeth	Stock*	Price each 1 to 5 for 9mm width
RPP3/90	90	30	✓	5,33 €
RPP3/105	105	35	✓	5,51 €
RPP3/129	129	43	✓	5,69 €
RPP3/141	141	47	-	5,87 €
RPP3/144	144	48	✓	5,87 €
RPP3/147	147	49	✓	5,87 €
RPP3/150	150	50	✓	5,87 €
RPP3/159	159	53	✓	5,87 €
RPP3/168	168	56	✓	5,87 €
RPP3/174	174	58	✓	6,04 €
RPP3/177	177	59	✓	6,04 €
RPP3/180	180	60	✓	6,04 €
RPP3/186	186	62	✓	6,04 €
RPP3/195	195	65	✓	6,04 €
RPP3/201	201	67	✓	6,20 €
RPP3/204	204	68	✓	6,20 €
RPP3/210	210	70	✓	6,20 €
RPP3/213	213	71	✓	6,20 €
RPP3/225	225	75	✓	6,20 €
RPP3/231	231	77	✓	6,20 €
RPP3/240	240	80	✓	6,40 €
RPP3/243	243	81	✓	6,40 €
RPP3/246	246	82	✓	6,40 €
RPP3/249	249	83	✓	6,40 €
RPP3/252	252	84	✓	6,40 €

*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	✓	6,40 €
RPP3/261	261	87	✓	6,40 €
RPP3/264	264	88	✓	6,40 €
RPP3/267	267	89	-	6,40 €
RPP3/270	270	90	✓	6,40 €
RPP3/276	276	92	✓	6,40 €
RPP3/285	285	95	✓	6,40 €
RPP3/288	288	96	✓	6,55 €
RPP3/291	291	97	✓	6,55 €
RPP3/297	297	99	✓	6,55 €
RPP3/300	300	100	✓	6,55 €
RPP3/312	312	104	✓	6,88 €
RPP3/318	318	106	✓	6,88 €
RPP3/327	327	109	-	6,88 €
RPP3/330	330	110	✓	6,88 €
RPP3/333	333	111	✓	6,88 €
RPP3/336	336	112	-	6,88 €
RPP3/339	339	113	✓	6,88 €
RPP3/345	345	115	✓	6,88 €
RPP3/357	357	119	✓	6,88 €
RPP3/363	363	121	-	7,05 €
RPP3/375	375	125	-	7,05 €
RPP3/384	384	128	✓	7,05 €
RPP3/390	390	130	-	7,29 €
RPP3/393	393	131	✓	7,29 €
RPP3/405	405	135	✓	7,29 €
RPP3/420	420	140	✓	7,29 €
RPP3/432	432	144	✓	7,42 €
RPP3/447	447	149	✓	7,42 €
RPP3/474	474	158	✓	7,60 €
RPP3/480	480	160	-	7,60 €
RPP3/486	486	162	-	7,78 €
RPP3/489	489	163	-	7,78 €
RPP3/501	501	167	-	7,78 €
RPP3/510	510	170	-	7,78 €
RPP3/513	513	171	-	7,78 €
RPP3/522	522	174	✓	7,92 €
RPP3/531	531	177	-	7,92 €
RPP3/537	537	179	-	7,92 €
RPP3/564	564	188	-	8,14 €
RPP3/570	570	190	✓	8,27 €
RPP3/576	576	192	-	8,27 €
RPP3/579	579	193	-	8,27 €
RPP3/597	597	199	✓	8,47 €
RPP3/600	600	200	✓	8,47 €
RPP3/633	633	211	✓	8,47 €
RPP3/648	648	216	-	8,63 €
RPP3/669	669	223	✓	8,79 €

*Depending on availability - 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

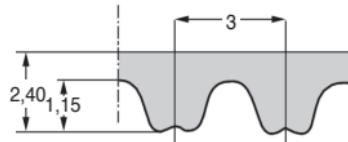


Advantages

- 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%	-14%	-20%	-24%	On request	

Part number	Length	No. of teeth	Price each 1 to 5 for 9mm width
RPP3/711	711	237	8,99 €
RPP3/735	735	245	9,32 €
RPP3/738	738	246	9,51 €
RPP3/756	756	252	9,65 €
RPP3/804	804	268	10,01 €
RPP3/882	882	294	10,18 €
RPP3/945	945	315	10,37 €
RPP3/1062	1062	354	10,56 €
RPP3/1125	1125	373	10,91 €
RPP3/1245	1245	415	11,59 €
RPP3/1263	1263	421	11,59 €
RPP3/1500	1500	500	13,13 €
RPP3/1530	1530	510	13,13 €
RPP3/1863	1863	621	14,55 €

Dimensions in mm

RPP-heavy duty timing belt



PITCH

RPP5

**Chloroprene rubber belt
with glass fibre tension members**

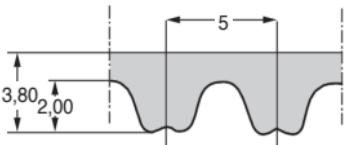
- To be used with HTD5M pulley

- 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%	-14%	-20%	-24%	On request

Part number	Length	N°. of teeth	Stock*		Price each 1 to 5 for a width of		
			9mm	15mm	9mm	15mm	25mm
RPP5/180	180	36	✓	✓	6,74 €	11,05 €	-
RPP5/225	225	45	✓	✓	6,88 €	11,05 €	-
RPP5/235	235	47	✓	-	6,88 €	11,24 €	16,10 €
RPP5/245	245	49	✓	-	7,05 €	11,24 €	16,10 €
RPP5/255	255	51	✓	✓	7,29 €	11,41 €	16,95 €
RPP5/265	265	53	-	-	7,29 €	11,41 €	17,45 €
RPP5/270	270	54	✓	✓	7,29 €	11,59 €	-
RPP5/280	280	56	✓	✓	7,42 €	11,59 €	17,63 €
RPP5/285	285	57	✓	-	7,42 €	11,59 €	17,63 €
RPP5/295	295	59	✓	✓	7,42 €	11,59 €	17,63 €
RPP5/300	300	60	✓	✓	7,60 €	11,59 €	17,82 €
RPP5/305	305	61	✓	✓	7,60 €	11,74 €	17,82 €
RPP5/325	325	65	✓	✓	7,60 €	11,95 €	-
RPP5/345	345	69	✓	✓	7,78 €	12,46 €	18,68 €
RPP5/350	350	70	✓	✓	7,78 €	12,46 €	18,68 €
RPP5/375	375	75	✓	✓	7,92 €	12,82 €	19,18 €
RPP5/400	400	80	✓	✓	8,27 €	12,97 €	19,72 €
RPP5/420	420	84	✓	✓	8,27 €	13,13 €	19,91 €
RPP5/425	425	85	-	-	8,47 €	13,50 €	20,41 €
RPP5/450	450	90	✓	✓	8,63 €	13,82 €	20,76 €
RPP5/455	455	91	✓	✓	8,63 €	13,82 €	20,76 €
RPP5/460	460	92	-	✓	8,63 €	13,82 €	-
RPP5/465	465	93	-	✓	8,63 €	14,00 €	20,95 €
RPP5/475	475	95	-	✓	8,79 €	14,00 €	21,14 €
RPP5/500	500	100	✓	✓	8,99 €	14,55 €	21,63 €

*Depending on availability - Dimensions in mm

Part number	Length	N°. of teeth	Stock*		Price each 1 to 5 for a width of		
			9mm	15mm	9mm	15mm	25mm
RPP5/525	525	105	-	✓	9,15 €	14,71 €	21,98 €
RPP5/535	535	107	-	✓	9,51 €	14,88 €	22,35 €
RPP5/565	565	113	-	✓	9,51 €	15,23 €	23,22 €
RPP5/575	575	115	✓	✓	9,65 €	15,23 €	23,22 €
RPP5/580	580	116	-	✓	9,65 €	15,41 €	-
RPP5/600	600	120	-	-	9,86 €	15,73 €	23,72 €
RPP5/610	610	122	-	✓	10,01 €	15,90 €	24,08 €
RPP5/615	615	123	-	-	10,18 €	16,10 €	-
RPP5/635	635	127	-	-	10,18 €	16,10 €	24,58 €
RPP5/640	640	128	-	-	10,37 €	16,59 €	24,77 €
RPP5/670	670	134	✓	-	10,56 €	16,78 €	25,26 €
RPP5/675	675	135	-	-	10,56 €	16,78 €	25,26 €
RPP5/700	700	140	-	-	10,91 €	17,31 €	26,14 €
RPP5/705	705	141	-	-	10,91 €	17,31 €	-
RPP5/710	710	142	-	-	10,91 €	17,45 €	26,14 €
RPP5/725	725	145	-	-	11,05 €	17,66 €	26,48 €
RPP5/740	740	148	-	-	11,24 €	17,82 €	26,68 €
RPP5/750	750	150	-	✓	11,24 €	17,82 €	26,86 €
RPP5/755	755	151	✓	-	11,24 €	17,82 €	26,86 €
RPP5/800	800	160	-	✓	11,59 €	18,51 €	27,86 €
RPP5/835	835	167	✓	✓	11,74 €	18,87 €	28,40 €
RPP5/850	850	170	✓	✓	12,09 €	19,18 €	28,93 €
RPP5/890	890	178	-	-	12,46 €	19,72 €	29,80 €
RPP5/900	900	180	-	-	12,46 €	19,91 €	29,94 €
RPP5/935	935	187	-	✓	12,82 €	20,26 €	30,50 €
RPP5/940	940	188	-	-	12,82 €	20,41 €	30,98 €
RPP5/950	950	190	-	-	12,97 €	20,59 €	31,18 €
RPP5/980	980	196	-	-	13,13 €	20,95 €	31,52 €
RPP5/1000	1000	200	✓	-	13,50 €	21,46 €	32,21 €
RPP5/1025	1025	205	✓	-	13,82 €	21,63 €	-
RPP5/1050	1050	210	-	-	14,00 €	21,98 €	33,26 €
RPP5/1100	1100	220	-	-	14,36 €	22,54 €	34,48 €
RPP5/1125	1125	225	✓	✓	14,71 €	23,01 €	35,16 €
RPP5/1135	1135	227	-	-	14,79 €	23,54 €	35,84 €
RPP5/1195	1195	239	✓	-	14,88 €	24,22 €	-
RPP5/1200	1200	240	-	✓	15,23 €	24,58 €	36,72 €
RPP5/1240	1240	248	-	✓	15,41 €	24,77 €	37,25 €
RPP5/1270	1270	254	✓	-	15,73 €	24,77 €	37,77 €
RPP5/1420	1420	284	✓	✓	16,95 €	27,03 €	40,88 €
RPP5/1595	1595	319	-	-	18,51 €	29,44 €	44,51 €
RPP5/1690	1690	338	✓	✓	19,05 €	30,50 €	45,74 €
RPP5/1790	1790	358	-	✓	20,26 €	32,03 €	48,51 €
RPP5/1800	1800	360	-	✓	20,41 €	32,21 €	48,51 €
RPP5/1870	1870	374	-	-	20,95 €	33,07 €	-
RPP5/1895	1895	379	-	-	21,26 €	33,61 €	50,60 €
RPP5/1945	1945	389	-	-	21,46 €	33,94 €	-
RPP5/2000	2000	400	✓	-	21,98 €	34,97 €	52,83 €
RPP5/2250	2250	450	✓	✓	24,58 €	38,62 €	62,74 €
RPP5/2525	2525	505	✓	✓	26,68 €	42,07 €	63,59 €

*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

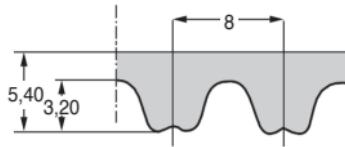
DISCOUNTS

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

Part number	Length	N°. of teeth	Price each 1 to 5 for a width of		
			20mm	30mm	50mm
RPP8/288	288	36	9,51 €	14,71 €	24,94 €
RPP8/320	320	40	10,18 €	15,90 €	26,48 €
RPP8/352	352	44	10,91 €	16,95 €	28,54 €
RPP8/360	360	45	11,24 €	17,31 €	29,44 €
RPP8/384	384	48	11,95 €	18,51 €	31,31 €
RPP8/408	408	51	12,82 €	19,72 €	33,40 €
RPP8/456	456	57	14,55 €	22,32 €	37,77 €
RPP8/480	480	60	15,23 €	23,54 €	39,84 €
RPP8/536	536	67	16,45 €	25,09 €	42,07 €
RPP8/544	544	68	17,31 €	26,31 €	45,19 €
RPP8/560	560	70	17,45 €	26,68 €	46,24 €
RPP8/600	600	75	18,17 €	27,35 €	46,93 €
RPP8/608	608	76	18,32 €	27,71 €	47,79 €
RPP8/632	632	79	18,51 €	27,86 €	48,83 €
RPP8/640	640	80	19,05 €	28,76 €	50,07 €
RPP8/680	680	85	19,42 €	29,44 €	52,83 €
RPP8/720	720	90	20,59 €	31,18 €	56,83 €
RPP8/800	800	100	21,78 €	33,40 €	58,41 €
RPP8/840	840	105	22,67 €	34,48 €	59,59 €
RPP8/880	880	110	23,22 €	35,34 €	59,59 €
RPP8/896	896	112	23,36 €	35,53 €	60,46 €
RPP8/920	920	115	24,05 €	36,53 €	62,03 €
RPP8/960	960	120	24,94 €	37,77 €	64,09 €

Dimensions in mm

PITCH RPP8



DISCOUNTS

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

Part number	Length	N°. of teeth	Price each 1 to 5 for a width of		
			20mm	30mm	50mm
RPP8/1000	1000	125	25,80 €	38,79 €	66,01 €
RPP8/1040	1040	130	26,81 €	40,35 €	68,60 €
RPP8/1080	1080	135	27,52 €	41,57 €	70,85 €
RPP8/1120	1120	140	28,21 €	42,94 €	72,91 €
RPP8/1200	1200	150	29,94 €	45,19 €	76,59 €
RPP8/1224	1224	153	30,50 €	46,08 €	78,16 €
RPP8/1280	1280	160	31,52 €	47,79 €	80,72 €
RPP8/1352	1352	169	32,03 €	48,69 €	82,47 €
RPP8/1424	1424	178	33,64 €	51,74 €	86,08 €
RPP8/1440	1440	180	34,12 €	51,96 €	88,02 €
RPP8/1464	1464	183	35,66 €	54,23 €	91,49 €
RPP8/1600	1600	200	37,25 €	56,15 €	95,48 €
RPP8/1680	1680	210	38,62 €	58,55 €	99,29 €
RPP8/1760	1760	220	40,02 €	61,01 €	103,09 €
RPP8/1800	1800	225	40,88 €	62,03 €	105,37 €
RPP8/2000	2000	250	45,19 €	68,44 €	115,58 €
RPP8/2200	2200	275	49,02 €	74,16 €	125,62 €
RPP8/2272	2272	284	50,64 €	75,83 €	128,70 €
RPP8/2400	2400	300	53,01 €	80,21 €	135,67 €
RPP8/2520	2520	315	54,41 €	82,47 €	139,66 €
RPP8/2600	2600	325	56,15 €	85,07 €	144,20 €
RPP8/2800	2800	350	60,64 €	91,49 €	155,28 €
RPP8/3048	3048	381	70,85 €	107,95 €	181,26 €
RPP8/3280	3280	410	76,22 €	115,95 €	194,61 €
RPP8/3600	3600	450	83,70 €	127,04 €	214,40 €
RPP8/4400	4400	550	102,10 €	155,28 €	262,23 €

Dimensions in mm

RPP-heavy duty timing belt

PITCH Chloroprene rubber belt

RPP14 with glass fibre tension members

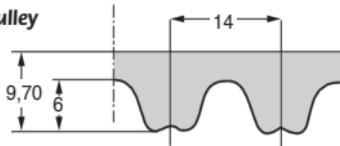
- To be used with HTD14M pulley

- 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%	-14%	-20%	-24%	On request

Part number	Length	Nº. of teeth	Price each 1 to 5 for a width of	
			55mm	85mm
RPP14/966	966	69	166,55 €	272,45 €
RPP14/994	994	71	167,59 €	274,55 €
RPP14/1092	1092	78	168,45 €	276,76 €
RPP14/1106	1106	79	170,72 €	280,43 €
RPP14/1190	1190	85	179,54 €	281,48 €
RPP14/1260	1260	90	180,40 €	282,67 €
RPP14/1288	1288	92	182,31 €	285,80 €
RPP14/1344	1344	96	188,58 €	298,27 €
RPP14/1400	1400	100	196,33 €	307,63 €
RPP14/1442	1442	103	202,25 €	316,83 €
RPP14/1568	1568	112	208,83 €	324,81 €
RPP14/1610	1610	115	214,40 €	333,48 €
RPP14/1764	1764	126	228,40 €	351,48 €
RPP14/1778	1778	127	231,03 €	354,27 €
RPP14/1848	1848	132	234,47 €	358,59 €
RPP14/1890	1890	135	239,67 €	366,73 €
RPP14/1904	1904	136	241,44 €	369,54 €
RPP14/1960	1960	140	242,98 €	371,22 €
RPP14/2100	2100	150	256,50 €	397,62 €
RPP14/2240	2240	160	264,13 €	401,24 €
RPP14/2310	2310	165	272,45 €	413,73 €
RPP14/2380	2380	170	275,22 €	427,08 €
RPP14/2450	2450	175	281,48 €	439,53 €
RPP14/2590	2590	185	289,30 €	452,03 €
RPP14/2660	2660	190	297,06 €	474,76 €
RPP14/2800	2800	200	312,68 €	499,70 €
RPP14/2968	2968	212	324,92 €	506,03 €
RPP14/3150	3150	225	337,12 €	512,32 €
RPP14/3360	3360	240	359,28 €	546,14 €
RPP14/3500	3500	250	362,40 €	563,82 €
RPP14/3850	3850	275	393,26 €	611,15 €
RPP14/3920	3920	280	394,65 €	622,23 €
RPP14/4326	4326	309	435,57 €	670,60 €
RPP14/4578	4578	327	456,19 €	703,74 €
RPP14/4956	4956	354	487,58 €	757,78 €

Dimensions in mm



RPP type belt by the metre

Polyurethane with steel core

PITCH
RPP5
RPP8
RPP14

For linear
positioning

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

Applications

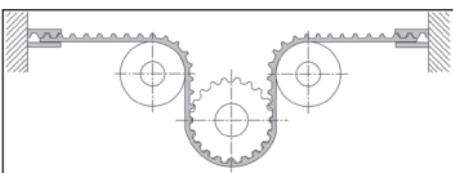
- Reciprocating movements

Accessories

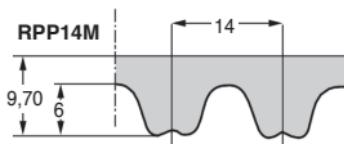
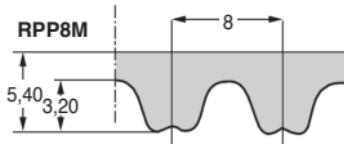
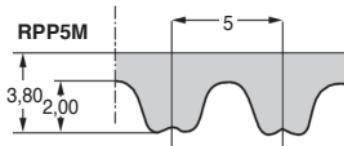
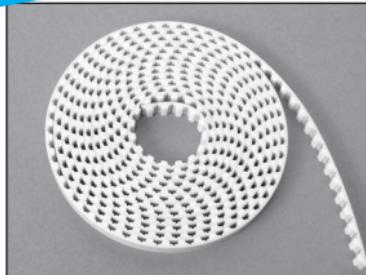
- RPPP.../P connecting plates
- HTD pulleys

Info.

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



Typical application



DISCOUNTS

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

Part number	Pitch	Price each 1 to 5 per metre for widths of						
		15mm	20mm	25mm	30mm	50mm	55mm	85mm
RPP5M	RPP5	14,06 €	-	25,78 €	-	-	-	-
RPP8M	RPP8		22,51 €	-	29,90 €	35,70 €	-	-
RPP14M	RPP14	-	-	-	-	-	62,80 €	103,83 €

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

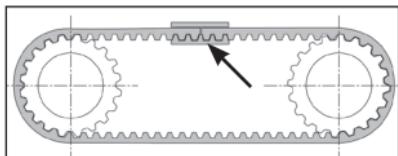
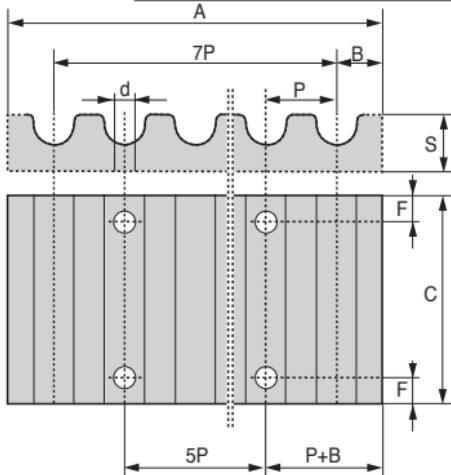
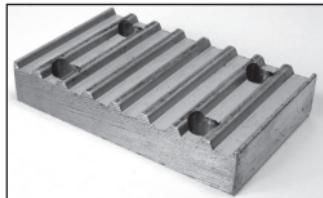
- For closing an open belt

- To attach an open belt to a structure

Accessories

- RPP../P belts

- HTD pulleys



Typical application

DISCOUNTS

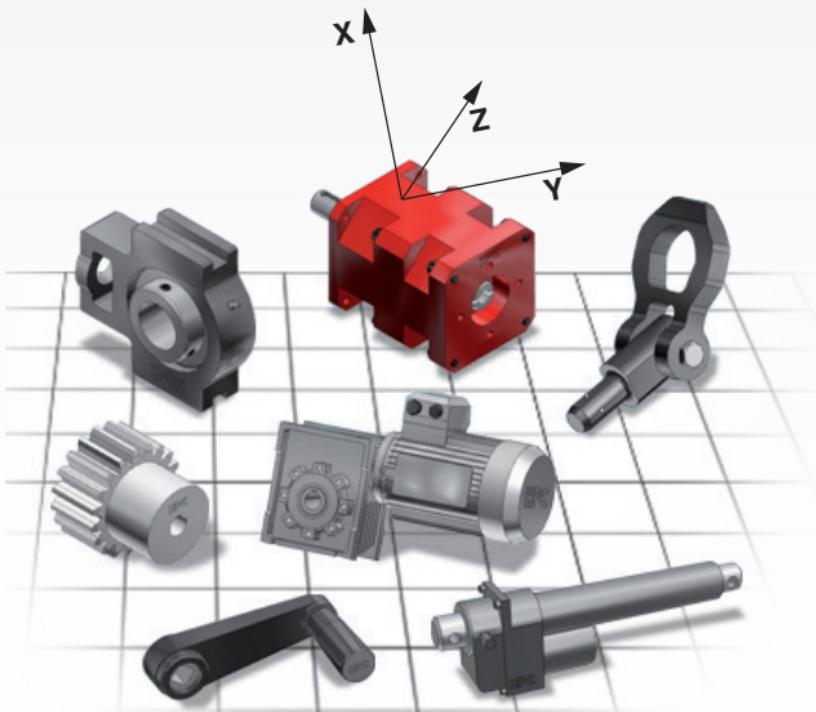
Qty.	1+	6+	20+
Disc.	List -10%		On request

Part number	Pitch	F	d	B	A	S	C	Belt width	Price each
								1 to 5	
RPP5/15P	RPP5	6	5,5	3,25	41,5	8	34	15	10,82 €
RPP5/25P	RPP5	6	5,5	3,25	41,5	8	44	25	13,21 €
RPP8/20P	RPP8	8	9,0	5,00	66,0	15	45	20	36,26 €
RPP8/30P	RPP8	8	9,0	5,00	66,0	15	55	30	41,68 €
RPP8/50P	RPP8	8	9,0	5,00	66,0	15	75	50	55,34 €
RPP14/55P	RPP14	10	11,0	9,00	116,0	22	86	55	141,06 €
RPP14/85P	RPP14	10	11,0	9,00	116,0	22	116	85	185,51 €

Dimensions in mm

3D Portal

Free access
from our website



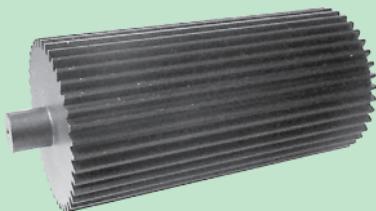
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Timing pulley and belts

p.42-p.83

Tooth bar



p.42

T type Toothed bar



UNTIL
-30%

p.44

Moulded plastic T-type timing pulley



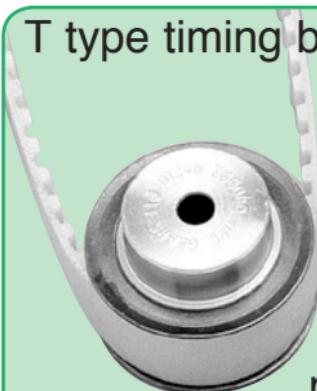
p.47

T type timing pulley



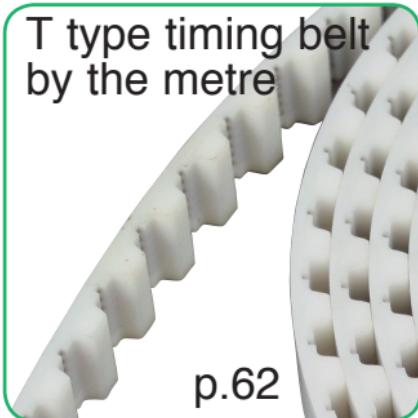
p.48

T type timing belt



p.57

T type timing belt
by the metre



p.62

Connecting plate
for T type timing
belts



p.63

AT-type Toothed
bar



UNTIL
-30%

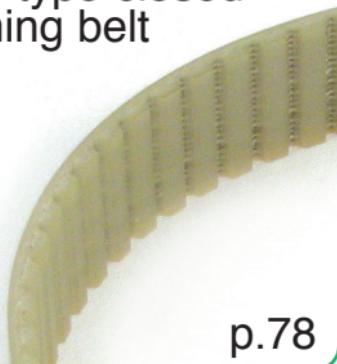
p.64

AT-type timing
pulley



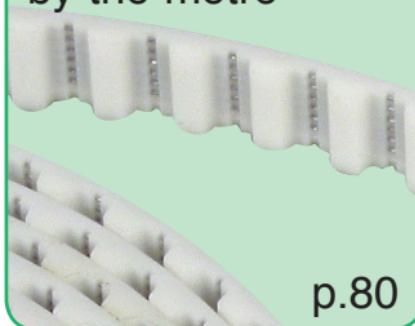
p.66

AT-type closed
timing belt



p.78

AT-type timing belt
by the metre



p.80

Toothed bar machined to order AluBrass

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

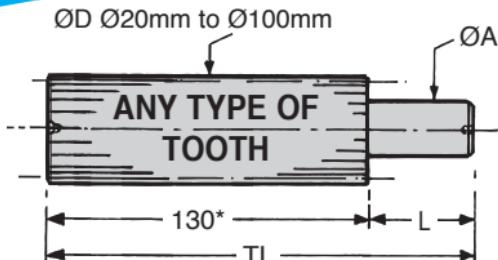
Option

- 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

Choose your tooth form



ALUMINIUM 6082

DISCOUNTS

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

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
AAG2	20 and 30	30	160	12	86,90 €
AAG3	31 and 40	30	160	15	97,69 €
AAG4	41 and 50	40	170	20	173,91 €
AAG5	51 and 60	40	170	25	196,99 €
AAG6	61 and 100	40	170	25	350,54 €

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	100,32 €
ABG3	31 and 40	30	160	15	122,15 €
ABG4	41 and 50	40	170	20	208,61 €
ABG5	51 and 60	40	170	25	250,38 €
ABG6	61 and 100	40	170	25	394,70 €

ØD GREATER THAN 100mm ON REQUEST

Dimensions in mm



Toothed bar machined to order

Steel or Delrin

ASG
ADG

- 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

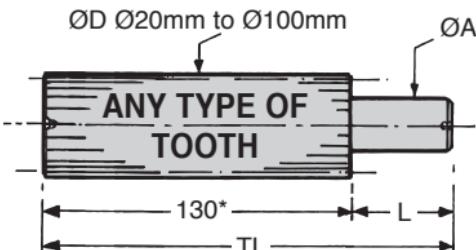
Option

- 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

Choose your tooth form



DISCOUNTS

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

STEEL 34C10

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
ASG2	20 et 30	30	160	12	67,14 €
ASG3	31 et 40	30	160	15	87,92 €
ASG4	41 et 50	40	170	20	145,52 €
ASG5	51 et 60	40	170	25	191,10 €
ASG6	61 et 100	40	170	25	341,93 €

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	65,89 €
ADG3	31 et 40	30	160	15	85,49 €
ADG4	41 et 50	40	170	20	113,70 €
ADG5	51 et 60	40	170	25	170,73 €
ADG6	61 et 100	40	170	25	322,78 €

ØD SUPERIEUR A 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

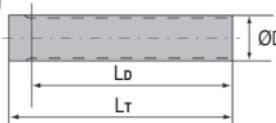
- Material : Aluminium suitable for hard anodic oxidation

- Finish : Supplied not-treated

Info.

- We are unable to modify this product

-30%



DISCOUNTS

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

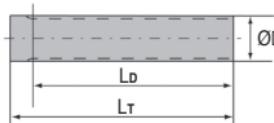
Part number	Z Teeth	ØD External	Length of teeth L _d	Total length L _t	Price each 1 to 5
10T2.5-BAR	10	7,45	50	75	2,35 €
12T2.5-BAR	12	9,00	50	75	2,42 €
13T2.5-BAR	13	9,80	50	75	2,52 €
14T2.5-BAR	14	10,60	50	75	2,67 €
15T2.5-BAR	15	11,40	50	75	2,85 €
16T2.5-BAR	16	12,20	50	75	2,92 €
17T2.5-BAR	17	13,00	50	75	2,99 €
18T2.5-BAR	18	13,80	50	75	3,10 €
19T2.5-BAR	19	14,60	90	120	5,64 €
20T2.5-BAR	20	15,40	90	120	5,88 €
21T2.5-BAR	21	16,20	90	120	6,42 €
22T2.5-BAR	22	17,00	125	140	8,35 €
24T2.5-BAR	24	18,55	125	140	9,06 €
26T2.5-BAR	26	20,15	125	140	9,92 €
27T2.5-BAR	27	20,95	125	140	10,02 €
28T2.5-BAR	28	21,75	125	140	10,28 €
29T2.5-BAR	29	22,55	125	140	10,88 €
30T2.5-BAR	30	23,35	125	140	10,95 €
32T2.5-BAR	32	24,95	125	140	11,85 €
34T2.5-BAR	34	26,55	125	140	12,45 €
35T2.5-BAR	35	27,35	132	140	13,23 €
36T2.5-BAR	36	28,10	132	140	14,20 €
38T2.5-BAR	38	29,70	140	140	14,45 €
40T2.5-BAR	40	31,30	140	140	15,59 €
42T2.5-BAR	42	32,90	140	140	17,35 €
44T2.5-BAR	44	34,50	140	140	19,27 €
45T2.5-BAR	45	35,30	140	140	19,66 €
48T2.5-BAR	48	37,70	140	140	20,80 €
50T2.5-BAR	50	39,29	160	160	25,27 €
60T2.5-BAR	60	47,25	160	160	32,77 €
65T2.5-BAR	65	51,20	160	160	37,87 €
70T2.5-BAR	70	55,20	160	160	41,44 €
72T2.5-BAR	72	56,80	160	160	43,72 €
90T2.5-BAR	90	71,12	160	160	63,43 €
100T2.5-BAR	100	79,08	160	160	84,82 €

Dimensions in mm

Aluminium

T5-BAR

-30%

- 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	6,81 €
11T5-BAR	11	16,65	125	140	7,38 €
12T5-BAR	12	18,25	125	140	8,06 €
13T5-BAR	13	19,85	125	140	8,09 €
14T5-BAR	14	21,45	140	140	9,45 €
15T5-BAR	15	23,05	140	140	10,24 €
16T5-BAR	16	24,60	140	140	11,49 €
17T5-BAR	17	26,20	140	140	12,02 €
18T5-BAR	18	27,00	140	140	13,35 €
19T5-BAR	19	29,40	140	140	14,49 €
20T5-BAR	20	31,00	160	160	16,66 €
21T5-BAR	21	32,70	160	160	17,38 €
22T5-BAR	22	34,15	160	160	19,34 €
23T5-BAR	23	35,85	160	160	19,52 €
24T5-BAR	24	37,40	160	160	20,95 €
25T5-BAR	25	38,95	160	160	22,49 €
26T5-BAR	26	40,60	160	160	24,80 €
27T5-BAR	27	42,20	160	160	24,99 €
28T5-BAR	28	43,75	160	160	27,51 €
29T5-BAR	29	45,35	160	160	27,63 €
30T5-BAR	30	46,95	160	160	29,44 €
32T5-BAR	32	50,10	160	160	34,20 €
34T5-BAR	34	53,25	160	160	37,37 €
35T5-BAR	35	54,85	160	160	37,62 €
36T5-BAR	36	56,45	160	160	39,72 €
37T5-BAR	37	58,06	160	160	41,94 €
38T5-BAR	38	59,65	160	160	42,15 €
40T5-BAR	40	62,85	160	160	45,83 €
42T5-BAR	42	66,00	160	160	49,72 €
44T5-BAR	44	69,20	160	160	58,22 €
45T5-BAR	45	70,80	160	160	58,61 €
46T5-BAR	46	72,40	160	160	59,14 €
48T5-BAR	48	75,55	160	160	65,47 €
50T5-BAR	50	78,75	160	160	73,00 €
60T5-BAR	60	94,65	160	160	98,49 €
72T5-BAR	72	113,75	160	160	138,44 €
80T5-BAR	80	126,48	160	160	161,53 €
90T5-BAR	90	142,40	160	160	212,62 €
100T5-BAR	100	158,31	160	160	274,81 €

T type tooth bar stock



T10-BAR

Aluminium



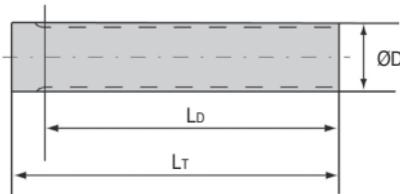
- Bar stock to be cut to length by the customer

- 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

-30%



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	12,81 €
11T10-BAR	11	33,16	140	140	14,99 €
12T10-BAR	12	36,35	140	140	17,42 €
13T10-BAR	13	39,55	140	140	18,77 €
14T10-BAR	14	42,70	140	140	23,63 €
15T10-BAR	15	45,90	140	140	26,20 €
16T10-BAR	16	49,10	160	160	29,80 €
17T10-BAR	17	52,25	160	160	32,70 €
18T10-BAR	18	55,45	160	160	35,80 €
19T10-BAR	19	58,65	160	160	40,08 €
20T10-BAR	20	61,80	160	160	43,55 €
21T10-BAR	21	65,00	160	160	47,29 €
22T10-BAR	22	68,15	160	160	55,90 €
23T10-BAR	23	71,35	160	160	56,40 €
24T10-BAR	24	74,55	160	160	62,97 €
26T10-BAR	26	80,90	160	160	70,64 €
28T10-BAR	28	87,25	160	160	78,64 €
30T10-BAR	30	93,65	160	160	95,34 €
32T10-BAR	32	100,00	160	160	104,67 €
34T10-BAR	34	106,40	160	160	114,45 €
36T10-BAR	36	112,75	160	160	127,23 €
38T10-BAR	38	119,10	160	160	145,75 €
40T10-BAR	40	125,45	160	160	157,29 €
45T10-BAR	45	141,40	160	160	207,80 €
48T10-BAR	48	150,95	160	160	222,12 €
60T10-BAR	60	189,15	160	160	365,92 €
72T10-BAR	72	227,29	160	160	523,43 €

Dimensions in mm

Size
XS€
Eco

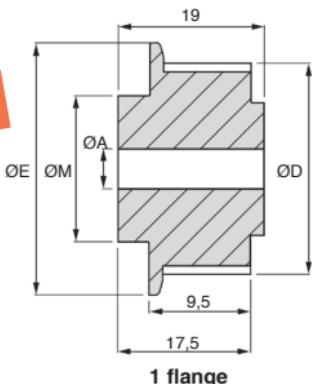
T-type moulded nylon timing pulley

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

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	✓	4,57 €
11T2.5-10-N1F	11	8,20	12	3	12	-	4,57 €
12T2.5-10-N1F	12	9,00	12	3	12	✓	4,57 €
13T2.5-10-N1F	13	9,80	12	3	12	-	4,98 €
14T2.5-10-N1F	14	10,60	12	3	15	-	4,98 €
15T2.5-10-N1F	15	11,40	12	3	15	✓	5,57 €
16T2.5-10-N1F	16	12,18	12	3	16	✓	5,57 €
22T2.5-10-N1F	22	17,00	14	3	22	✓	6,76 €
23T2.5-10-N1F	23	17,75	14	3	22	-	6,76 €
24T2.5-10-N1F	24	18,55	14	3	24	✓	6,76 €
25T2.5-10-N1F	25	19,35	14	3	24	✓	7,16 €
26T2.5-10-N1F	26	20,14	16	4	26	✓	7,16 €
28T2.5-10-N1F	28	21,75	16	4	28	-	7,16 €
29T2.5-10-N1F	29	22,52	16	4	28	-	7,16 €
30T2.5-10-N1F	30	23,35	18	5	30	✓	7,55 €
31T2.5-10-N1F	31	24,10	18	5	30	-	7,55 €
32T2.5-10-N1F	32	24,95	18	5	32	✓	7,55 €
33T2.5-10-N1F	33	25,70	18	5	32	✓	7,55 €

*Depending on availability - Dimensions in mm

T-type timing pulley

Alu Size XS Stock

PITCH

Aluminium

T2.5

Belt width 4mm

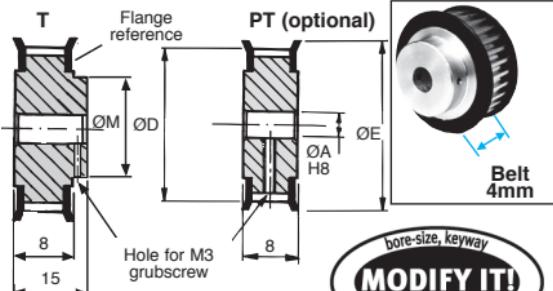
- Pitch 2.5mm

- Materials:

Pulley: Aluminium 6082

Flanges: Aluminum for pulleys with up to 84 teeth, steel for 85 teeth or more

- All pulleys have flanges



Options

- Choose from 10 to 230 teeth

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
10T2.5-8	10	7,96	7,40	13	3	10 X,Y	13,00	✓	
12T2.5-8	12	9,55	9,00	13	3	10 X,Y	13,00	✓	
14T2.5-8	14	11,14	10,60	18	3	16 X,Y	18,00	✓	
15T2.5-8	15	11,94	11,40	18	3	16 X,Y	18,00	✓	
16T2.5-8	16	12,73	12,20	18	4	16 X,Y	18,00	✓	
18T2.5-8	18	14,32	13,80	18	4	31 X,Y	18,00	✓	
19T2.5-8	19	15,12	14,60	20	4	32 X,Y	20,00	✓	
20T2.5-8	20	15,92	15,40	20	4	32 X,Y	20,00	✓	
21T2.5-8	21	16,71	16,20	20	4	32 X,Y	20,00	-	
22T2.5-8	22	17,51	17,00	20	4	32 X,Y	20,00	✓	
24T2.5-8	24	19,10	18,55	13	4	12 XL	25,15	-	
25T2.5-8	25	19,89	19,35	13	4	12 XL	25,15	✓	
26T2.5-8	26	20,69	20,15	13	5	12 XL	25,15	✓	
30T2.5-8	30	23,87	23,35	20	5	16 XL	31,74	-	
31T2.5-8	31	24,67	24,15	20	5	18 XL	34,80	-	
32T2.5-8	32	25,46	24,95	20	5	18 XL	34,80	✓	
40T2.5-8	40	31,83	31,30	24	6	21XL	39,68	✓	
44T2.5-8	44	35,01	34,50	24	6	21XL	39,68	-	
48T2.5-8	48	38,20	37,70	24	6	24XL	44,70	✓	
52T2.5-8	52	41,38	40,85	24	6	24XL	44,70	-	
57T2.5-8	57	45,36	44,85	24	6	28XL	51,05	-	
60T2.5-8	60	47,75	47,25	24	6	30XL	54,36	✓	
80T2.5-8	80	63,66	63,16	24	6	17H	74,61	✓	
84T2.5-8	84	66,85	66,35	24	6	18H	79,38	-	

↓ Pulleys available up to this size ↓

230T2.5-8 230

dimensions : contact us

*Depending on availability - Dimensions in mm

Aluminium

PAS

T2,5

- Pitch 2.5mm

- Materials:

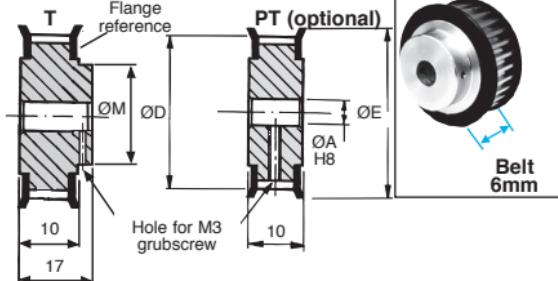
Pulley: Aluminium 6082

Flanges: Aluminium 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	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	Flange ref.	ØE (mm)	Stock*	Price each 1 to 5 T PT
10T2.5-10	10	7,96	7,40	13	3	10 X,Y	13,00	✓	
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

T-type timing pulley

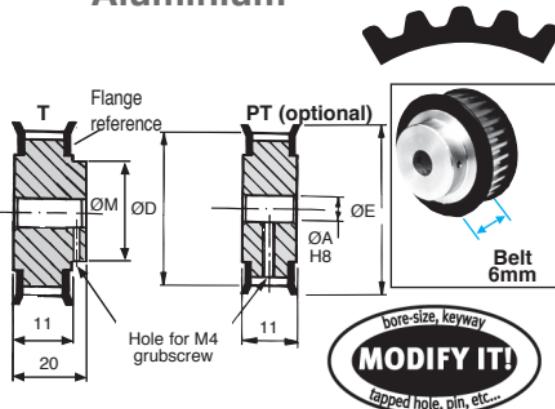
Alu 1 2 3

PITCH **T5**

Belt width 6mm

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

Aluminium



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 T	PT
10T5-11	10	15,92	15,05	12	5	11XL	23,62		
12T5-11	12	19,10	18,25	13	5	12XL	25,15		
14T5-11	14	22,28	21,45	16	5	14XL	28,44		
15T5-11	15	23,87	23,05	16	6	14XL	28,44		
16T5-11	16	25,46	24,60	16	6	14XL	28,44		
17T5-11	17	27,06	26,20	16	6	16XL	31,74		
18T5-11	18	28,65	27,80	20	6	18XL	34,80		
19T5-11	19	30,24	29,40	20	6	18XL	34,80		
20T5-11	20	31,83	31,00	20	6	20XL	38,10		
24T5-11	24	38,20	37,80	25	6	24XL	44,70		
25T5-11	25	39,79	39,00	25	6	24XL	44,70		
30T5-11	30	47,75	46,95	30	8	28XL	51,05		
32T5-11	32	50,93	50,10	30	8	16L	55,56		
36T5-11	36	57,30	56,45	30	8	14H	61,91		
37T5-11	37	58,89	58,05	40	8	15H	66,68		
40T5-11	40	63,66	62,85	40	8	16H	69,85		
45T5-11	45	71,62	70,80	40	8	18H	79,38		
48T5-11	48	76,39	75,55	40	8	19H	82,55		
50T5-11	50	79,58	78,75	60	10	20H	85,73		
56T5-11	56	89,13	88,30	60	10	22H	95,25		
60T5-11	60	95,49	94,65	60	10	24H	103,19		
70T5-11	70	111,41	110,60	60	10	28H	119,06		
80T5-11	80	127,32	126,50	60	10	32H	134,94		
84T5-11	84	133,69	132,85	60	10	33H	139,70		

On request

On request

↓ Pulleys available up to this size ↓

150T5-11 150

dimensions : contact us

Dimensions in mm

Aluminium

PITCH
T5

Belt width 10mm

- Pitch 5mm

- Materials:

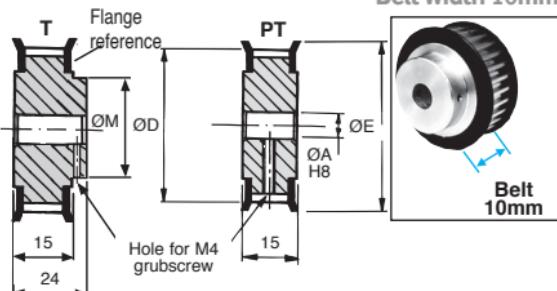
Pulley: Aluminium 6082

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	✓	
12T5-15	12	19,10	18,25	13	5	12XL	25,15	-	
14T5-15	14	22,28	21,45	16	5	14XL	28,44	✓	
15T5-15	15	23,87	23,05	16	6	14XL	28,44	✓	
16T5-15	16	25,46	24,60	16	6	14XL	28,44	✓	
17T5-15	17	27,06	26,20	16	6	16XL	31,74	-	
18T5-15	18	28,65	27,80	20	6	18XL	34,80	✓	
19T5-15	19	30,24	29,40	20	6	18XL	34,80	✓	
20T5-15	20	31,83	31,00	20	6	20XL	38,10	✓	
24T5-15	24	38,20	37,35	25	6	24XL	44,70	-	
25T5-15	25	39,79	39,00	25	6	24XL	44,70	✓	
30T5-15	30	47,75	46,95	30	8	28XL	51,05	✓	
32T5-15	32	50,93	50,10	30	8	16L	55,56	✓	
36T5-15	36	57,30	56,45	30	8	14H	61,91	✓	
37T5-15	37	58,89	58,05	40	8	15H	66,68	-	
40T5-15	40	63,66	62,85	40	8	16H	69,85	✓	
45T5-15	45	71,62	70,80	40	8	18H	79,38	-	
48T5-15	48	76,39	75,55	40	8	19H	82,55	✓	
50T5-15	50	79,58	78,75	60	10	20H	85,73	✓	
56T5-15	56	89,13	88,30	60	10	22H	95,25	-	
60T5-15	60	95,49	94,65	60	10	24H	103,19	✓	
70T5-15	70	111,41	110,60	60	10	28H	119,06	-	
80T5-15	80	127,32	126,50	60	10	32H	134,94	-	
84T5-15	84	133,69	132,85	60	10	33H	139,70	-	

↓ Pulleys available up to this size ↓

150T5-11 150 dimensions: contact us

Dimensions in mm

T-type timing pulley

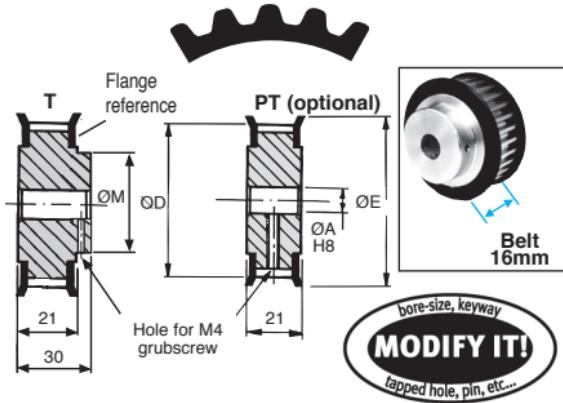
Alu Stock

PITCH T5

Belt width 16mm

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

Aluminium



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
10T5-21	10	15,92	15,05	12	5	11XL	23,62	✓	
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

Nylon PA6 moulded

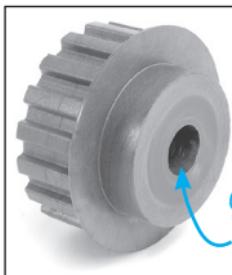
PITCH



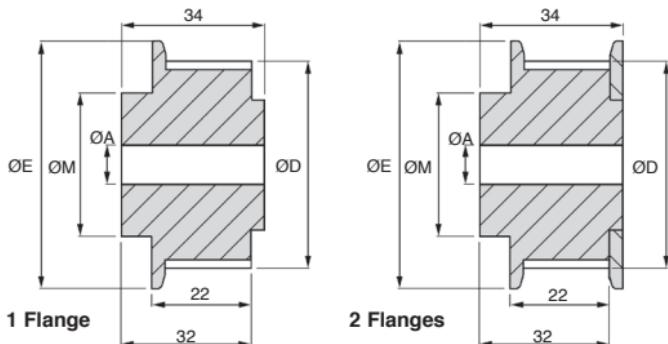
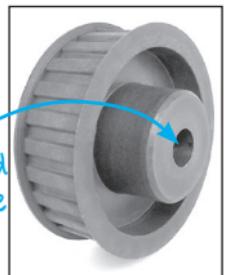
T10

Belt width 16mm

- 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



Economy range

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)	Price each	
					1 flange	2 flanges
1 flange	18T10-21-N2F	18	55,45	40	13	60
2 flanges	20T10-21-N2F	20	61,80	40	12	67
22T10-21-N2F	22	68,20	40	14	75	-
24T10-21-N2F	24	74,75	40	13	83	-
30T10-21-N1F	30	93,65	50	14	99	16,63 €
32T10-21-N1F	32	100,00	50	14	105	20,04 €

Dimensions in mm

T-type timing pulley

PITCH

Aluminium

T10

Belt width 16mm

- Pitch 10mm

- Materials:

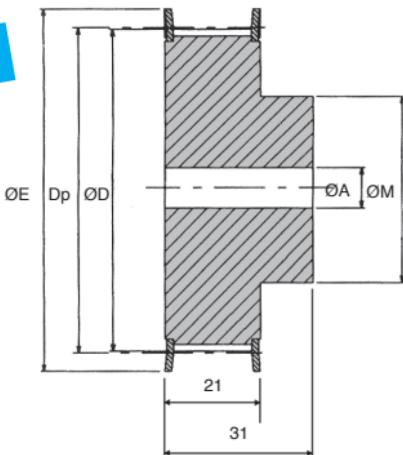
Pulley: aluminium

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
12T10-21-AL	12	38,35	36,35	42	28	6	✓	13,59 €
14T10-21-AL	14	44,70	42,70	48	32	8	✓	15,03 €
15T10-21-AL	15	47,90	45,90	51	32	8	✓	15,81 €
16T10-21-AL	16	51,10	49,10	54	35	8	✓	16,59 €
18T10-21-AL	18	57,45	55,45	60	40	8	✓	20,79 €
19T10-21-AL	19	60,65	58,65	66	44	8	-	21,58 €
20T10-21-AL	20	63,80	61,80	66	46	8	✓	22,80 €
22T10-21-AL	22	70,20	68,20	75	52	8	-	23,57 €
24T10-21-AL	24	76,55	74,55	83	58	8	✓	26,38 €
25T10-21-AL	25	79,75	77,75	83	60	8	-	29,04 €
26T10-21-AL	26	82,90	80,90	87	60	8	-	30,29 €
27T10-21-AL	27	86,10	84,10	91	60	8	-	31,73 €
28T10-21-AL	28	89,25	87,25	93	60	8	-	33,68 €
30T10-21-AL	30	95,65	93,65	102	60	8	-	35,11 €
32T10-21-AL	32	102,00	100,00	106	65	10	-	42,27 €
36T10-21-AL	36	114,75	112,75	119	70	10	✓	48,53 €
40T10-21-AL	40	127,45	125,45	131	80	10	-	58,12 €

*Depending on availability - Dimensions in mm

Aluminium

PITCH

T10

Belt width 25mm

- Pitch 10mm

- Materials:

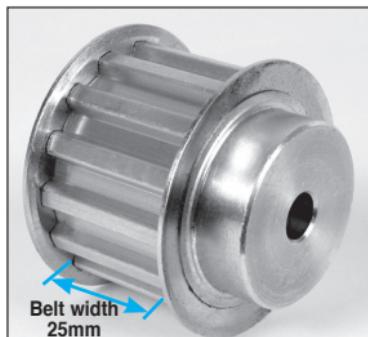
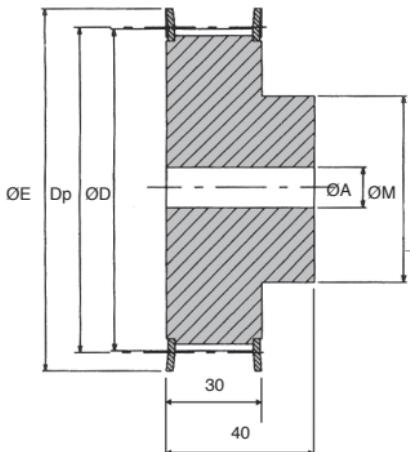
Pulley: aluminium

Flanges: steel



Info.

- HPC are unable to modify these parts



Economy range

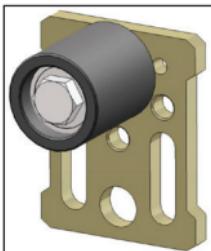
DISCOUNTS

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	✓	15,51 €
14T10-30-AL	14	44,70	42,70	48	32	8	-	18,31 €
15T10-30-AL	15	47,90	45,90	51	32	8	✓	19,27 €
16T10-30-AL	16	51,10	49,10	54	35	8	✓	19,82 €
18T10-30-AL	18	57,45	55,45	60	40	8	✓	23,57 €
19T10-30-AL	19	60,65	58,65	66	44	8	✓	25,02 €
20T10-30-AL	20	63,80	61,80	66	46	8	✓	26,38 €
22T10-30-AL	22	70,20	68,20	75	52	8	✓	27,69 €
24T10-30-AL	24	76,55	74,55	83	58	8	✓	30,90 €
25T10-30-AL	25	79,75	77,75	83	60	8	-	32,76 €
26T10-30-AL	26	82,90	80,90	87	60	8	-	34,86 €
27T10-30-AL	27	86,10	84,10	91	60	8	✓	36,42 €
28T10-30-AL	28	89,25	87,25	93	60	8	✓	38,31 €
30T10-30-AL	30	95,65	93,65	102	60	8	✓	40,89 €
32T10-30-AL	32	102,00	100,00	106	65	10	✓	48,83 €
36T10-30-AL	36	114,75	112,75	119	70	10	✓	54,13 €
40T10-30-AL	40	127,45	125,45	131	80	10	✓	66,89 €

*Depending on availability - Dimensions in mm

Timing belt length



Each belt has a fixed length, therefore when designing your system include a mechanism for altering the distance between the pulleys so that the belt can be tensioned correctly. Please see our ranges of belt idlers (**TRE, TPX, MIX or AH**) and rollers (**RE or XRP**).

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

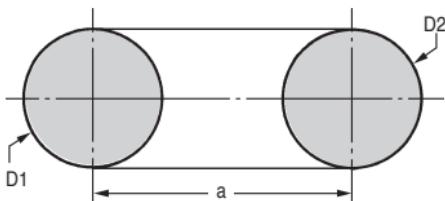
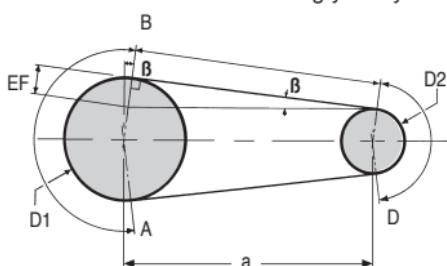
BC = Length of unattached belt

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:

$$L = \frac{D_1 + D_2}{0.6366} + (2 \times a)$$

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

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

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

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

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

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

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

Steel cored polyurethane**PITCH****T2.5**

- 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

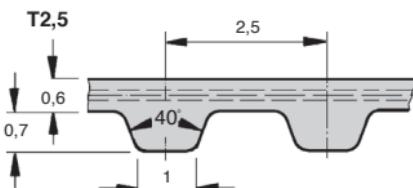
Accessories

- AH arm and RE roller belt idler

Info.

- When ordering, add the width to the part number

Eg: **T2.5/120/4**



**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*		Price each 1 to 5 for widths	
			4mm	6mm	4mm	6mm
T 2.5/120	120,00	48	✓	✓	9,07 €	10,07 €
T 2.5/145	145,00	58	✓	✓	9,19 €	10,17 €
T 2.5/160	160,00	64	✓	✓	9,22 €	10,22 €
T 2.5/177	177,50	71	✓	✓	9,42 €	10,46 €
T 2.5/180	180,00	72	✓	✓	9,42 €	10,46 €
T 2.5/182	182,50	73	✓	✓	9,42 €	10,46 €
T 2.5/200	200,00	80	✓	✓	9,42 €	10,46 €
T 2.5/230	230,00	92	✓	✓	10,08 €	11,24 €
T 2.5/245	245,00	98	✓	✓	10,00 €	11,12 €
T 2.5/265	265,00	106	✓	✓	10,09 €	11,25 €
T 2.5/285	285,00	114	✓	✓	10,15 €	11,29 €
T 2.5/290	290,00	116	✓	✓	10,57 €	11,77 €
T 2.5/317	317,50	127	✓	✓	10,53 €	11,71 €
T 2.5/330	330,00	132	✓	✓	10,66 €	11,83 €
T 2.5/380	380,00	152	✓	✓	11,25 €	12,50 €
T 2.5/420	420,00	168	-	✓	14,35 €	12,47 €
T 2.5/480	480,00	192	✓	✓	11,66 €	12,94 €
T 2.5/500	500,00	200	✓	✓	11,83 €	13,13 €
T 2.5/600	600,00	240	✓	✓	16,19 €	17,99 €
T 2.5/620	620,00	248	-	✓	16,81 €	18,70 €
T 2.5/650	650,00	260	-	✓	16,46 €	18,25 €
T 2.5/780	780,00	312	✓	✓	18,97 €	21,11 €
T 2.5/950	950,00	380	✓	-	20,96 €	23,31 €

*Depending on availability - Dimensions in mm

T-type timing belts

PITCH

Steel cored polyurethane

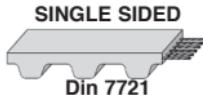
T5

- 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

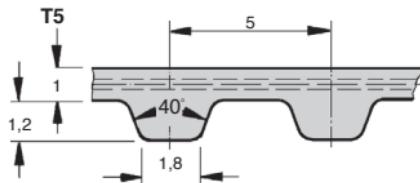
- AH arm and RE roller belt idler

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	✓	-	-	10,90 €	14,14 €	20,53 €	
T 5/185	185	37	✓	✓	✓	11,09 €	14,59 €	21,02 €	
T 5/200	200	40	✓	✓	✓	11,12 €	14,62 €	21,14 €	
T 5/210	210	42	-	✓	-	11,55 €	15,23 €	21,93 €	
T 5/215	215	43	-	-	-	11,22 €	14,84 €	21,35 €	
T 5/220	220	44	-	-	-	11,22 €	14,84 €	21,35 €	
T 5/225	225	45	✓	✓	✓	11,25 €	14,92 €	21,49 €	
T 5/245	245	49	✓	✓	-	11,36 €	15,14 €	21,76 €	
T 5/250	250	50	-	✓	-	11,77 €	15,61 €	22,41 €	
T 5/255	255	51	-	✓	-	11,41 €	11,41 €	21,86 €	
T 5/260	260	52	✓	-	-	11,41 €	15,14 €	21,86 €	
T 5/270	270	54	✓	✓	✓	11,46 €	15,24 €	21,95 €	
T 5/280	280	56	✓	✓	-	11,51 €	15,34 €	22,11 €	
T 5/295	295	59	-	✓	✓	11,61 €	15,54 €	22,33 €	

*Depending on availability - Dimensions in mm

On request

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 5/305	305	61	✓	✓	✓	11,71 €	15,64 €	22,51 €	
T 5/330	330	66	-	✓	✓	11,80 €	15,85 €	22,85 €	
T 5/340	340	68	✓	✓	-	11,80 €	15,92 €	22,95 €	
T 5/355	355	71	✓	✓	✓	11,93 €	16,17 €	23,25 €	
T 5/365	365	73	✓	✓	✓	11,97 €	16,19 €	23,42 €	
T 5/390	390	78	✓	✓	-	11,99 €	16,43 €	27,35 €	
T 5/400	400	80	✓	✓	-	12,10 €	16,51 €	23,76 €	
T 5/410	410	82	-	✓	✓	12,14 €	16,56 €	24,01 €	
T 5/420	420	84	✓	✓	✓	12,21 €	16,64 €	24,10 €	
T 5/455	455	91	✓	✓	✓	12,35 €	16,99 €	24,97 €	
T 5/460	460	92	-	-	-	12,78 €	17,57 €	25,76 €	
T 5/480	480	96	✓	✓	✓	12,43 €	17,36 €	25,47 €	
T 5/500	500	100	✓	✓	✓	12,56 €	17,55 €	25,95 €	
T 5/510	510	102	✓	-	-	12,58 €	17,70 €	26,20 €	
T 5/525	525	105	-	✓	✓	12,80 €	17,97 €	26,70 €	
T 5/545	545	109	-	✓	✓	13,06 €	18,18 €	27,20 €	
T 5/550	550	110	✓	✓	✓	13,06 €	18,18 €	27,20 €	
T 5/560	560	112	✓	✓	✓	13,13 €	18,34 €	27,42 €	
T 5/575	575	115	✓	✓	✓	13,35 €	18,67 €	27,94 €	
T 5/590	590	118	-	✓	-	13,80 €	19,44 €	29,33 €	
T 5/610	610	122	✓	✓	✓	13,69 €	19,11 €	28,89 €	
T 5/620	620	124	✓	-	-	13,78 €	19,25 €	29,18 €	
T 5/630	630	126	✓	✓	-	13,92 €	19,31 €	29,73 €	
T 5/650	650	130	-	-	✓	14,69 €	20,33 €	31,07 €	
T 5/690	690	138	-	✓	✓	14,77 €	20,47 €	31,38 €	
T 5/720	720	144	✓	-	✓	15,14 €	21,02 €	32,37 €	
T 5/750	750	150	-	✓	✓	15,54 €	21,58 €	33,34 €	
T 5/765	765	153	-	-	-	16,44 €	22,68 €	34,92 €	
T 5/780	780	156	-	-	✓	16,04 €	22,18 €	34,14 €	
T 5/815	815	163	-	✓	-	16,56 €	23,13 €	35,27 €	
T 5/840	840	168	-	-	-	16,81 €	23,57 €	36,00 €	
T 5/900	900	180	-	✓	-	17,70 €	24,97 €	37,76 €	
T 5/990	990	198	-	-	-	18,93 €	26,86 €	40,56 €	
T 5/1075	1075	215	-	-	-	20,19 €	27,96 €	43,81 €	
T 5/1100	1100	220	-	-	-	20,47 €	29,12 €	44,22 €	
T 5/1160	1160	232	-	-	-	22,27 €	31,30 €	47,56 €	
T 5/1215	1215	243	-	✓	✓	22,70 €	31,48 €	48,27 €	
T 5/1315	1315	263	-	-	-	25,80 €	34,92 €	52,80 €	
T 5/1380	1380	276	-	-	✓	26,33 €	35,23 €	53,15 €	

*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	

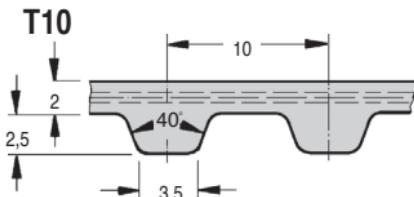
Part number	Length	No. of teeth	Price each 1 to 5 for widths			
			16mm	25mm	32mm	50mm
T 10/260	260	26	25,34 €	35,16 €		
T 10/370	370	37	27,41 €	38,27 €		
T 10/410	410	41	28,40 €	39,48 €		
T 10/500	500	50	30,69 €	41,98 €		
T 10/530	530	53	31,40 €	43,04 €		
T 10/560	560	56	32,65 €	44,51 €		
T 10/600	600	60	33,58 €	46,05 €		
T 10/610	610	61	33,70 €	47,03 €		
T 10/630	630	63	34,70 €	48,54 €		
T 10/660	660	66	35,71 €	53,70 €		
T 10/680	680	68	31,91 €	50,10 €		
T 10/690	690	69	36,72 €	45,42 €		
T 10/700	700	70	38,17 €	45,42 €		
T 10/720	720	72	37,96 €	51,84 €		
T 10/730	730	73	36,37 €	56,73 €		
T 10/750	750	75	40,08 €	58,04 €		

Dimensions in mm

On request

On request

PITCH T10



DISCOUNTS

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

Part number	Length	No. of teeth	16mm	25mm	Price each 1 to 5 for widths	32mm	50mm
T 10/780	780	78	40,25 €	55,10 €			
T 10/810	810	81	41,49 €	56,84 €			
T 10/840	840	84	42,78 €	58,67 €			
T 10/880	880	88	44,25 €	61,17 €			
T 10/890	890	89	44,75 €	62,19 €			
T 10/920	920	92	46,05 €	64,18 €			
T 10/960	960	96	47,54 €	67,18 €			
T 10/970	970	97	48,06 €	68,01 €			
T 10/980	980	98	48,54 €	68,70 €			
T 10/1010	1010	101	50,10 €	70,75 €			
T 10/1080	1080	108	52,85 €	75,27 €			
T 10/1110	1110	111	54,53 €	83,86 €			
T 10/1140	1140	114	55,63 €	79,35 €			
T 10/1150	1150	115	55,86 €	79,79 €			
T 10/1210	1210	121	58,67 €	84,09 €			
T 10/1240	1240	124	60,21 €	85,81 €			
T 10/1250	1250	125	60,38 €	86,63 €			
T 10/1300	1300	130	62,89 €	89,94 €			
T 10/1320	1320	132	63,69 €	91,15 €			
T 10/1350	1350	135	64,98 €	93,17 €			
T 10/1390	1390	139	66,96 €	95,98 €			
T 10/1400	1400	140	67,47 €	96,44 €			
T 10/1420	1420	142	68,24 €	97,67 €			
T 10/1460	1460	146	70,00 €	100,26 €			
T 10/1500	1500	150	on request	111,37 €			
T 10/1560	1560	156	73,03 €	106,27 €			
T 10/1610	1610	161	76,81 €	110,05 €			
T 10/1750	1750	175	83,60 €	120,65 €			
T 10/1780	1780	178	85,10 €	122,88 €			
T 10/1880	1880	188	90,14 €	130,47 €			
T 10/1960	1960	196	95,69 €	138,02 €			
T 10/2250	2250	225	118,11 €	173,42 €			

Dimensions in mm

T-type timing belt per metre



PITCH

Steel cored polyurethane

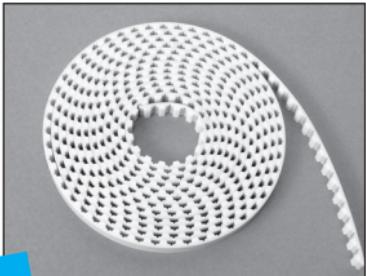
T5
T10



- 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 ±0.8mm/1000mm
- Output up to 98%

Uses

- Alternating back-and-forth movements



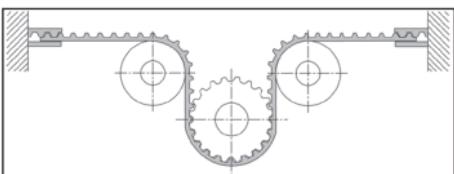
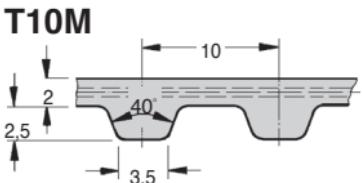
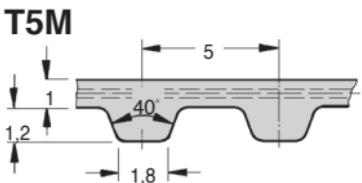
Accessories

- Connecting plate T.../P

Info.

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

For linear
positioning



Typical application

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					
		6mm	10mm	16mm	25mm	32mm	50mm
T5M	T5	16,39 €	21,35 €	25,27 €	47,64 €	-	-
T10M	T10	-	-	29,97 €	40,76 €	52,62 €	57,95 €

Dimensions in mm

Connecting plate for T type timing belts

For T5M and T10M timing belts

PITCH

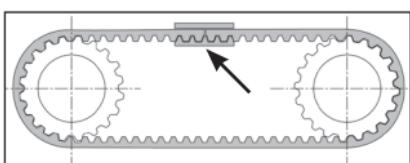
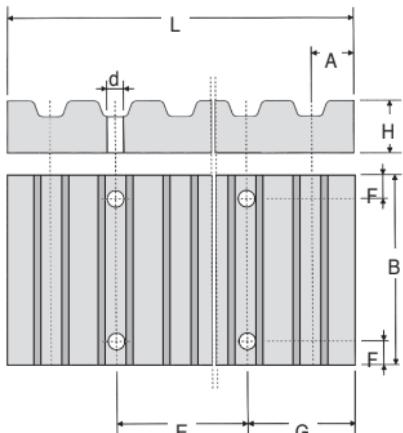
T5
T10

- 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



Typical application

DISCOUNTS

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

Part number	Pitch	B	L	H	E	F	G	d	A	Belt width	Price each
									width		1 to 5
T5/25P	T5	44	41,5	8	25	6	8,25	5,5	3,25	25	52,41 €
T10/25P	T10	50	80,0	15	50	8	15,00	9,0	5,00	25	56,94 €
T10/32P	T10	57	80,0	15	50	8	15,00	9,0	5,00	32	60,10 €
T10/50P	T10	75	80,0	15	50	8	15,00	9,0	5,00	50	64,64 €

Dimensions in mm

AT type tooth bar stock



AT5-BAR

Aluminium



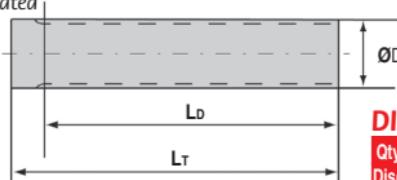
- Bar stock to be cut to length by the customer

- 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



-30%**

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	17,67 €
13AT5-BAR	13	19,45	140	140	17,95 €
14AT5-BAR	14	21,05	140	140	19,96 €
15AT5-BAR	15	22,65	140	140	21,07 €
16AT5-BAR	16	24,20	140	140	22,44 €
18AT5-BAR	18	27,40	140	140	26,63 €
19AT5-BAR	19	29,00	140	140	28,49 €
20AT5-BAR	20	30,60	160	160	30,77 €
21AT5-BAR	21	32,30	160	160	31,99 €
22AT5-BAR	22	33,85	160	160	34,54 €
23AT5-BAR	23	35,45	160	160	35,34 €
24AT5-BAR	24	37,00	160	160	37,06 €
25AT5-BAR	25	38,55	160	160	41,16 €
26AT5-BAR	26	40,20	160	160	44,44 €
28AT5-BAR	28	43,25	160	160	46,87 €
30AT5-BAR	30	46,55	160	160	52,39 €
32AT5-BAR	32	49,70	160	160	57,64 €
34AT5-BAR	34	52,85	160	160	64,84 €
36AT5-BAR	36	56,05	160	160	67,96 €
38AT5-BAR	38	59,25	160	160	75,68 €
40AT5-BAR	40	62,45	160	160	79,86 €
42AT5-BAR	42	65,60	160	160	88,38 €
44AT5-BAR	44	68,80	160	160	97,07 €
46AT5-BAR	46	72,00	160	160	99,66 €
48AT5-BAR	48	75,15	160	160	107,39 €
52AT5-BAR	52	81,55	160	160	114,88 €
56AT5-BAR	56	87,90	160	160	114,88 €
60AT5-BAR	60	94,25	160	160	161,20 €
64AT5-BAR	64	100,65	160	160	161,20 €
72AT5-BAR	72	113,35	160	160	226,24 €

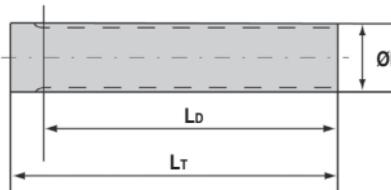
Dimensions in mm

- 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



-30%**

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	46,03 €
16AT10-BAR	16	49,14	160	160	51,78 €
18AT10-BAR	18	55,45	160	160	63,19 €
19AT10-BAR	19	58,65	160	160	68,82 €
20AT10-BAR	20	61,80	160	160	71,92 €
21AT10-BAR	21	65,00	160	160	84,02 €
22AT10-BAR	22	68,20	160	160	91,36 €
23AT10-BAR	23	71,35	160	160	95,16 €
24AT10-BAR	24	74,55	160	160	104,75 €
25AT10-BAR	25	77,75	160	160	104,75 €
26AT10-BAR	26	80,90	160	160	117,47 €
28AT10-BAR	28	87,25	160	160	130,45 €
30AT10-BAR	30	93,65	160	160	154,87 €
32AT10-BAR	32	100,00	160	160	178,17 €
34AT10-BAR	34	106,40	160	160	197,23 €
36AT10-BAR	36	112,75	160	160	220,45 €
38AT10-BAR	38	119,10	160	160	252,27 €
40AT10-BAR	40	125,45	160	160	264,38 €
42AT10-BAR	42	131,85	160	160	264,38 €
44AT10-BAR	44	138,20	160	160	264,38 €
46AT10-BAR	46	144,55	160	160	336,11 €
48AT10-BAR	48	150,95	160	160	379,76 €
52AT10-BAR	52	163,65	160	160	379,76 €
56AT10-BAR	56	176,40	160	160	379,76 €
60AT10-BAR	60	189,15	160	160	609,56 €

Dimensions in mm

AT-type timing pulley

Alu 1 2 3

PITCH

AT5

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

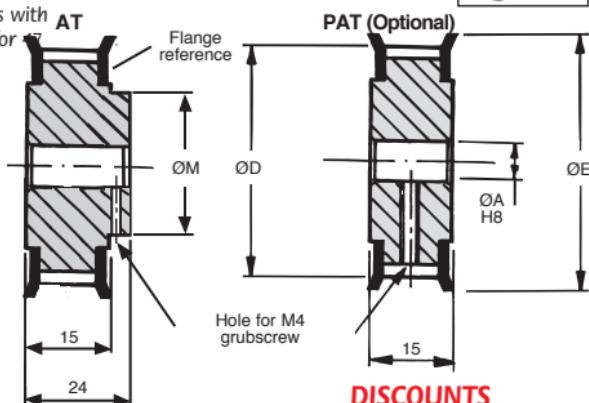
- All pulleys have flanges

- 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	PAT
20AT5-10	20	31,84	30,60	20	6	38,10	20XL		
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

On request

On request

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

Dimensions in mm

AT-type timing pulley

Alu 1 2 3

PITCH

Aluminium 6082

AT5

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

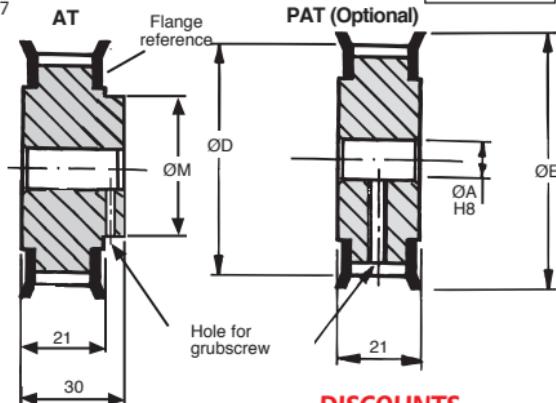
- All pulleys have flanges

- 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	On request	On request
20AT5-16	20	31,84	30,60	20	6	38,10	20XL			
21AT5-16	21	33,44	32,20	20	6	38,10	20XL			
22AT5-16	22	34,99	33,75	20	6	39,48	21XL			
23AT5-16	23	36,59	35,35	20	6	41,28	22XL			
24AT5-16	24	38,19	36,95	25	6	44,70	24XL			
25AT5-16	25	39,79	38,55	25	6	44,70	24XL			
26AT5-16	26	41,39	40,15	25	6	44,70	24XL			
27AT5-16	27	42,99	41,75	25	6	49,25	26XL			
28AT5-16	28	44,59	43,35	25	6	49,25	26XL			
29AT5-16	29	46,14	44,90	25	6	51,05	28XL			
30AT5-16	30	47,74	46,50	30	8	51,05	28XL			
31AT5-16	31	49,34	48,10	30	8	54,36	30XL			
32AT5-16	32	50,94	49,70	30	8	55,56	16L			
33AT5-16	33	52,54	51,30	30	8	57,15	17L			

Dimensions in mm

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

↓ Pulleys available up to this size ↓

84AT5-16 84 133,74 132,50 60 10 139,70 33H on request

Dimensions in mm

AT-type timing pulley

Alu 1 2 3

PITCH

AT5

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

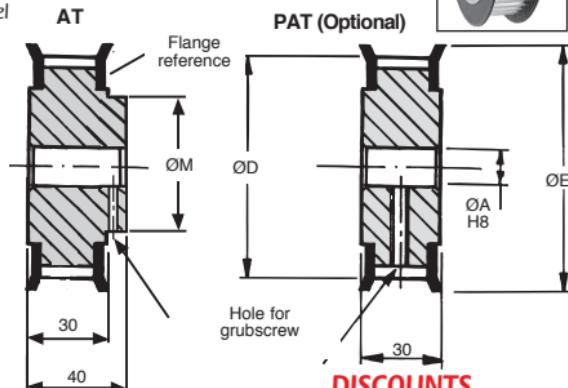
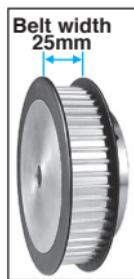
- Secured by a grub screw

Options

- Choose from 20 to 84 teeth

- For use with belt AT5/...

Aluminium 6082



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	
21AT5-25	21	33,44	32,20	20	6	38,10	20XL	On request	
22AT5-25	22	34,99	33,75	20	6	39,68	21XL	On request	
23AT5-25	23	36,59	35,35	20	6	41,28	22XL	On request	
24AT5-25	24	38,19	36,95	25	6	44,70	24XL	On request	
25AT5-25	25	39,79	38,55	25	6	44,70	24XL	On request	
26AT5-25	26	41,39	40,15	25	6	44,70	24XL	On request	
27AT5-25	27	42,99	41,75	25	6	49,25	26XL	On request	
28AT5-25	28	44,59	43,35	25	6	49,25	26XL	On request	
29AT5-25	29	46,14	44,90	25	6	51,05	28XL	On request	
30AT5-25	30	47,74	46,50	30	8	51,05	28XL	On request	
31AT5-25	31	49,34	48,10	30	8	54,36	30XL	On request	
32AT5-25	32	50,94	49,70	30	8	55,56	16L	On request	
33AT5-25	33	52,54	51,30	30	8	57,15	17L	On request	
34AT5-25	34	54,14	52,90	30	8	61,91	14H	On request	

Dimensions in mm

Part number	Z Teeth	PCD (mm)	ØD (mm)	ØM (mm)	ØA (mm)	ØE (mm)	Flange ref.	Price each 1 to 5 AT PAT
35AT5-25	35	55,69	54,45	30	8	61,91	14H	
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

Dimensions in mm

On request

On request

AT-type timing pulley

Ste 1 2 3

PAS

Steel

AT10

Belt width 25mm

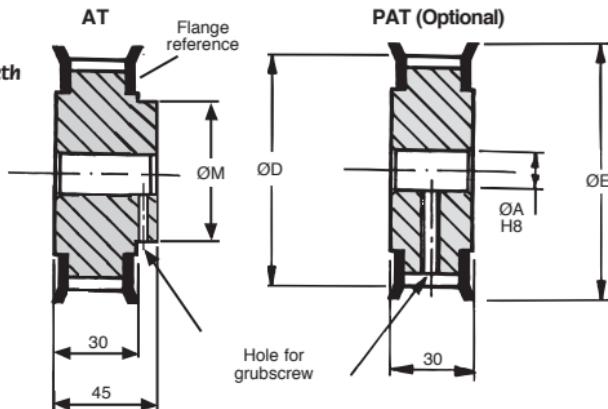


- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
 - Pulley: steel 34C10
 - Flanges: steel
- All pulleys have flanges
- Secured by a grub screw



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
15AT10-25	15	47,75	45,90	35	10	56,56	16L	On request	On request
16AT10-25	16	50,93	49,10	35	10	55,56	16L		
17AT10-25	17	54,11	52,25	40	10	61,91	14H		
18AT10-25	18	57,30	55,45	40	10	61,91	14H		
19AT10-25	19	60,48	58,65	40	10	66,68	15H		
20AT10-25	20	63,66	61,80	40	10	69,85	16H		
21AT10-25	21	66,85	65,00	40	12	74,61	17H		
22AT10-25	22	70,03	68,20	50	12	74,61	17H		
23AT10-25	23	73,21	71,35	50	12	79,38	18H		
24AT10-25	24	76,39	74,55	50	12	82,55	19H		

Dimensions in mm

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	On request
27AT10-25	27	85,94	84,10	50	12	90,49	21H	On request
28AT10-25	28	89,13	87,25	50	12	95,25	22H	On request
29AT10-25	29	92,31	90,45	50	12	98,43	23H	On request
30AT10-25	30	95,49	93,65	50	12	103,19	24H	On request
31AT10-25	31	98,68	96,80	50	12	103,19	24H	On request
32AT10-25	32	101,86	100,00	60	12	106,36	25H	On request
33AT10-25	33	105,04	103,20	60	12	111,13	26H	On request
34AT10-25	34	108,23	106,35	60	12	111,13	26H	On request
35AT10-25	35	111,41	109,55	60	12	114,30	27H	On request
36AT10-25	36	114,59	112,75	60	12	119,06	28H	On request
37AT10-25	37	117,77	115,90	60	15	127,00	30H	On request
38AT10-25	38	120,96	119,10	60	15	127,00	30H	On request
39AT10-25	39	124,14	122,30	60	15	131,76	31H	On request
40AT10-25	40	127,32	125,45	75	15	131,76	31H	On request
41AT10-25	41	130,51	128,65	75	15	134,94	32H	On request
42AT10-25	42	133,69	131,85	75	15	139,70	33H	On request
43AT10-25	43	136,87	135,00	75	15	142,88	34H	On request
44AT10-25	44	140,06	138,20	75	15	150,81	36H	On request
45AT10-25	45	143,24	141,40	75	15	150,81	36H	On request
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	On request
48AT10-25	48	152,79	150,95	75	15	158,75	38H	On request
49AT10-25	49	155,97	154,10	75	15	168,28	40H	On request
50AT10-25	50	159,15	157,30	75	15	168,28	40H	On request
51AT10-25	51	162,34	160,50	100	15	176,21	42H	On request
52AT10-25	52	165,52	163,65	100	15	176,21	42H	On request
53AT10-25	53	168,70	166,85	100	15	184,15	44H	On request
54AT10-25	54	171,89	170,05	100	15	184,15	44H	On request
55AT10-25	55	175,07	173,20	100	15	184,15	44H	On request

↓ Pulleys available up to this size ↓

130AT10-25 130 Dimensions : contacte us

On request

Dimensions in mm

AT-type timing pulley

Ste 1 2 3

PAS

Steel

AT10

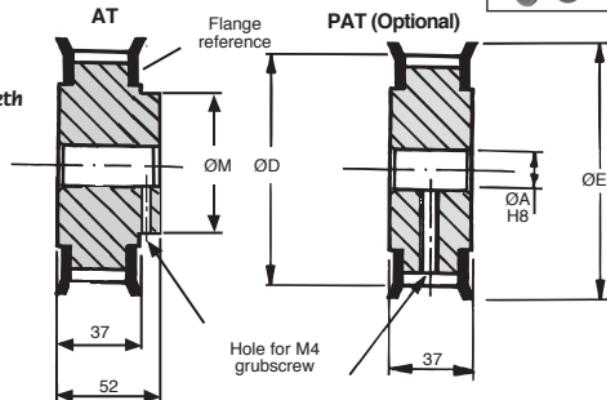
Belt width 32mm



- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
 - Pulley: steel 34C10
 - 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 AT	1 to 5 PAT
15AT10-32	15	47,75	45,90	35	10	55,56	16L		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 1 to 5 AT PAT
26AT10-32	26	82,76	80,90	50	12	90,49	21H	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

Ste 1 2 3

PAS

Steel

AT10

Belt width 50mm

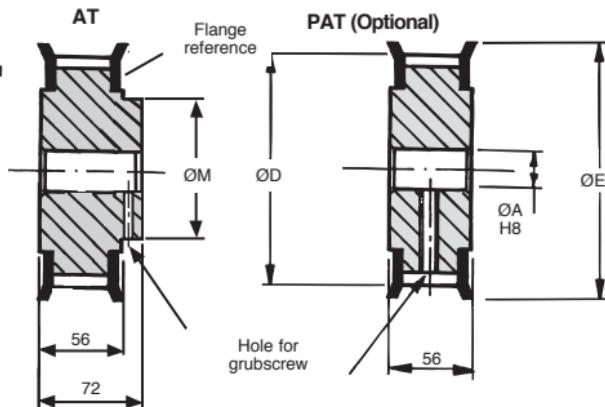


- 2nd generation metric profile
- Transmits a greater torque
- Pitch 10mm
- Materials:
 - Pulley: steel 34C10
 - Flanges: steel
- All pulleys have flanges
- Secured by a grub screw



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
15AT10-50	15	47,75	45,90	35	10	55,56	16L	On request	On request
16AT10-50	16	50,93	49,10	35	10	55,56	16L		
17AT10-50	17	54,11	52,25	40	10	61,91	14H		
18AT10-50	18	57,30	55,45	40	10	61,91	14H		
19AT10-50	19	60,48	58,65	40	10	66,68	15H		
20AT10-50	20	63,66	61,80	40	10	69,85	16H		
21AT10-50	21	66,85	65,00	40	12	74,61	17H		
22AT10-50	22	70,03	68,20	40	12	74,61	17H		
23AT10-50	23	73,21	71,35	50	12	79,38	18H		
24AT10-50	24	76,39	74,55	50	12	82,55	19H		

Dimensions in mm

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

↓

Pulleys available up to this size

↓

130AT10-50 130

Dimensions : contact us

on request

Dimensions in mm

AT-type timing belt



PITCH

Steel cored polyurethane

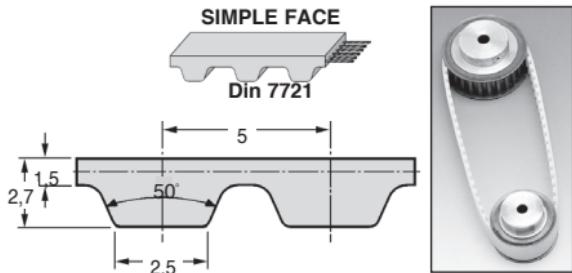
AT5

- 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	16,78 €	24,98 €	34,15 €
AT5/255	255	51	17,21 €	25,28 €	34,38 €
AT5/280	280	56	17,42 €	25,49 €	34,67 €
AT5/300	300	60	17,62 €	25,63 €	34,91 €
AT5/330	330	66	17,72 €	25,95 €	35,54 €
AT5/340	340	68	17,75 €	26,10 €	35,54 €
AT5/375	375	75	18,07 €	26,53 €	36,33 €
AT5/390	390	78	18,17 €	26,82 €	36,68 €
AT5/420	420	84	18,44 €	27,18 €	37,23 €
AT5/450	450	90	18,77 €	27,89 €	37,84 €
AT5/455	455	91	18,85 €	28,01 €	38,10 €
AT5/500	500	100	19,80 €	29,53 €	40,96 €
AT5/525	525	105	20,73 €	31,22 €	43,36 €
AT5/545	545	109	21,34 €	32,42 €	45,36 €
AT5/600	600	120	22,86 €	34,91 €	48,53 €
AT5/610	610	122	23,20 €	35,28 €	49,32 €
AT5/660	660	132	23,83 €	36,33 €	50,91 €
AT5/710	710	142	24,98 €	37,84 €	52,92 €
AT5/720	720	144	25,19 €	38,10 €	53,32 €
AT5/750	750	150	25,49 €	38,92 €	54,10 €
AT5/780	780	156	26,26 €	40,15 €	56,09 €
AT5/825	825	165	27,08 €	41,76 €	58,09 €
AT5/860	860	172	27,73 €	42,96 €	60,11 €
AT5/975	975	195	30,07 €	46,95 €	66,09 €
AT5/1050	1050	210	32,24 €	50,13 €	70,43 €
AT5/1125	1125	225	33,51 €	52,49 €	74,42 €
AT5/1500	1500	300	40,15 €	64,07 €	92,36 €
AT5/2000	2000	400	56,09 €	86,79 €	122,64 €

Dimensions en mm



AT-type timing belt

Steel cored polyurethane

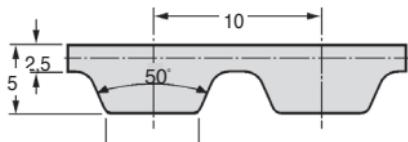
PITCH

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



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	51,72 €	65,26 €	95,97 €
AT10/560	560	56	54,51 €	-	102,34 €
AT10/600	600	60	56,09 €	71,63 €	104,73 €
AT10/610	610	61	56,50 €	72,05 €	105,49 €
AT10/660	660	60	60,11 €	76,82 €	112,29 €
AT10/700	700	70	62,47 €	80,40 €	117,05 €
AT10/730	730	73	64,45 €	83,59 €	120,64 €
AT10/780	780	78	67,66 €	87,19 €	127,42 €
AT10/800	800	80	69,63 €	88,78 €	129,03 €
AT10/840	840	84	72,85 €	93,15 €	135,80 €
AT10/890	890	89	78,03 €	100,31 €	146,17 €
AT10/920	920	92	81,20 €	105,11 €	153,34 €
AT10/960	960	96	86,40 €	112,29 €	162,10 €
AT10/980	980	98	89,15 €	113,49 €	170,46 €
AT10/1000	1000	100	91,15 €	116,67 €	173,25 €
AT10/1010	1010	101	91,95 €	117,05 €	174,43 €
AT10/1050	1050	105	93,56 €	120,27 €	178,03 €
AT10/1080	1080	108	94,75 €	121,84 €	179,63 €
AT10/1100	1100	110	96,75 €	123,84 €	183,21 €
AT10/1150	1150	115	99,12 €	127,42 €	188,77 €
AT10/1200	1200	120	101,51 €	130,98 €	193,57 €
AT10/1210	1210	121	101,94 €	131,79 €	194,76 €
AT10/1250	1250	125	104,73 €	134,60 €	198,76 €
AT10/1280	1280	128	105,49 €	136,60 €	201,13 €
AT10/1300	1300	130	107,10 €	138,18 €	203,52 €
AT10/1320	1320	132	108,70 €	140,18 €	207,10 €
AT10/1350	1350	135	111,09 €	142,95 €	211,89 €
AT10/1360	1360	136	112,29 €	144,16 €	213,90 €
AT10/1400	1400	140	115,47 €	149,74 €	220,68 €
AT10/1480	1480	148	121,84 €	158,48 €	233,82 €
AT10/1500	1500	150	123,04 €	160,50 €	236,60 €
AT10/1600	1600	160	130,98 €	171,23 €	252,56 €
AT10/1700	1700	170	139,38 €	181,61 €	268,88 €
AT10/1720	1720	172	141,37 €	183,21 €	271,64 €
AT10/1800	1800	180	147,35 €	192,36 €	284,41 €
AT10/1860	1860	186	152,14 €	198,35 €	292,78 €
AT10/1940	1940	194	159,30 €	209,12 €	309,54 €

Dimensions in mm

AT-type timing belt per metre



PITCH

Steel cored polyurethane

AT5 AT10

- 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 ±0.8mm/1000mm
- Output up to 98%
- Oil-resistant
- Low noise
- Resists stretching

Uses

- For reciprocating movements

Accessories

- Connecting plate AT.../P

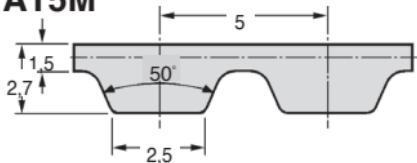
Info.

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

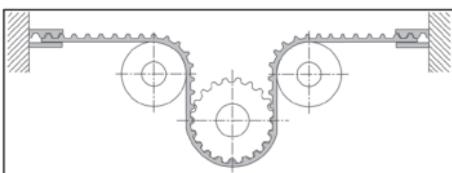
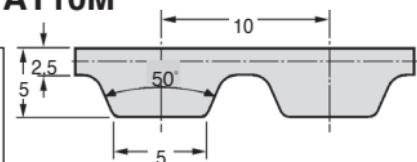


For linear positioning

AT5M



AT10M



Typical application

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				
		16mm	25mm	32mm	50mm	
AT5M	AT5	25,67 €	30,50 €	57,16 €	-	-
AT10M	AT10	-	-	49,29 €	62,91 €	69,90 €

Dimensions in mm

Alu Connecting plate for AT type timing belts

For AT5M and AT10M timing belts

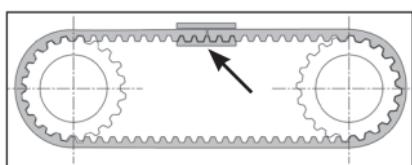
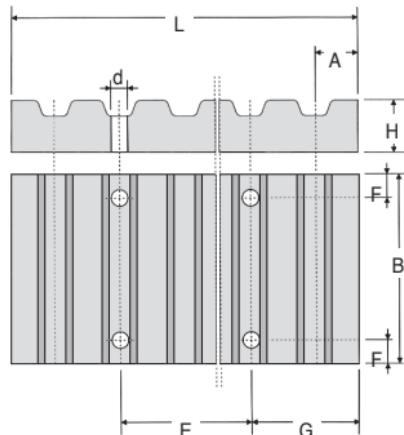
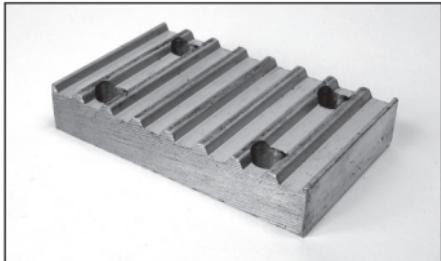
PITCH

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



DISCOUNTS

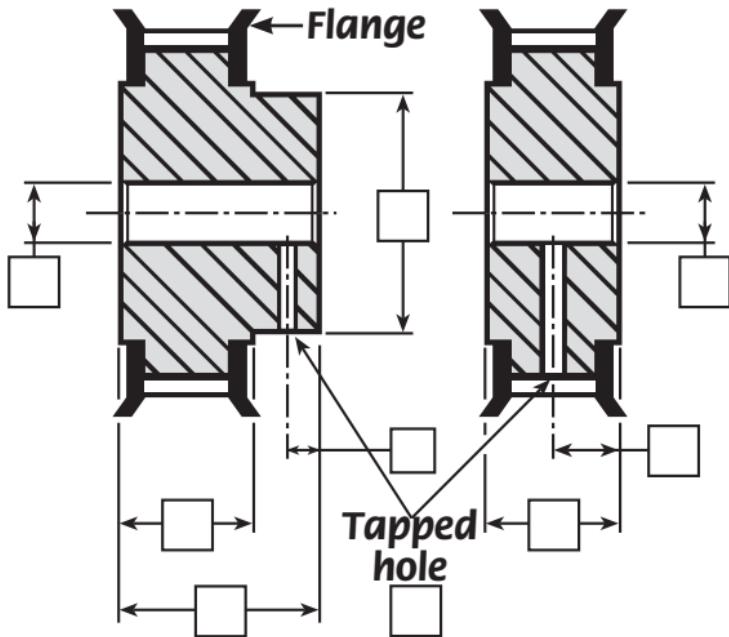
Qty.	1+	6+	20+	40+	60+	100+
Disc. List	-7%	-14%	-20%	-24%	-	On request

Typical application

Part number	Pitch	B	L	H	E	F	G	d	A	Belt width	Price each 1 to 5
AT5/25P	AT5	44	41,5	8	25	6	8,25	5,5	3,25	25	53,10 €
AT10/25P	AT10	50	80,0	15	50	8	15,00	9,0	5,00	25	57,68 €
AT10/32P	AT10	57	80,0	15	50	8	15,00	9,0	5,00	32	60,88 €
AT10/50P	AT10	75	80,0	15	50	8	15,00	9,0	5,00	50	65,49 €

Dimensions in mm

Drawing to be completed for a non standard timing pulley



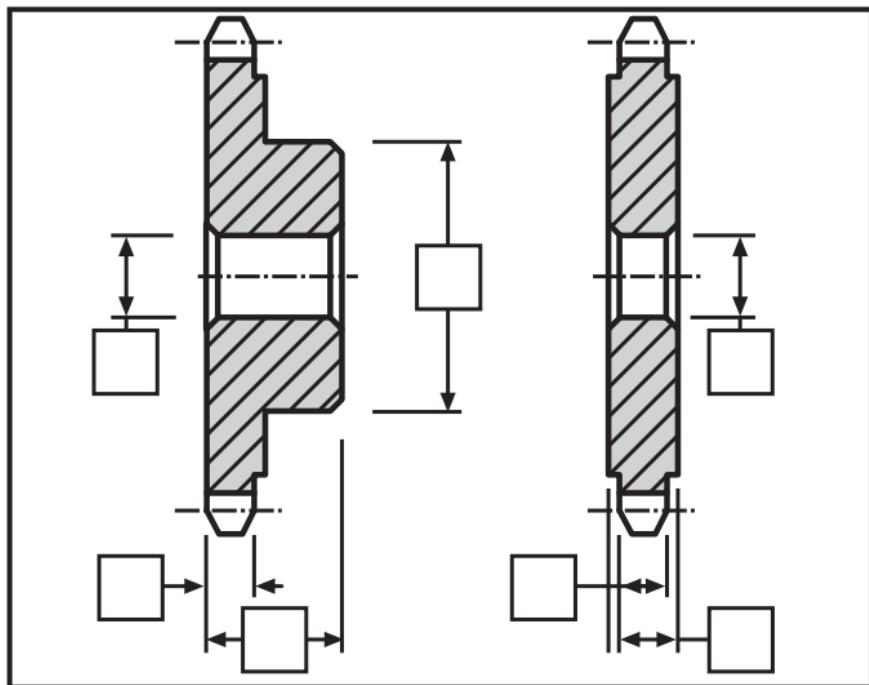
Please add your dimensions to the boxes above

Description of the timing pulley

Pitch		Material	
Number of teeth		Heat Treatment	
Ø PCD		Keyway	
Outside Ø		Tapped hole	
Number of flanges		Other	
Quantity			

HPC standard tolerances will apply (see technical pages)

Drawing to be completed for a non standard chain sprocket



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
\emptyset PCD	Tapped Hole
Outside \emptyset	
Quantity	Other

HPC standard tolerances will apply (see technical pages)

Chains and
sprockets
p.86-p.99

Sprocket



p.86

Stainless steel
sprocket

stainless
steel



p.91

Steel chain per meter



p.96

Steel chain link



p.97

Stainless steel chain per metre



stainless
steel

p.98

Stainless steel chain link



p.99

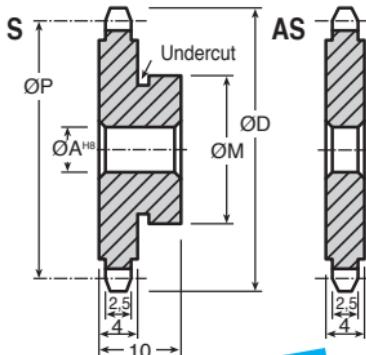
Chain sprocket

Sta XS Size ✓ 1 2 3

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	12,94	14,71	12	4	8,00 x 2,5	9,30 € 7,42 €
S 4-11	11	13	14,20	16,02	12	4	8,00 x 2,5	9,88 € 7,86 €
S 4-12	12	14	15,45	17,32	12	4	8,00 x 2,5	10,38 € 8,26 €
S 4-13	13	15	16,71	18,62	12	4	9,05 x 2,5	10,90 € 8,69 €
S 4-14	14	16	17,97	19,92	12	4	10,33 x 2,5	11,82 € 9,43 €
S 4-15	15	17	19,23	21,21	12	4	11,60 x 2,5	12,12 € 9,66 €
S 4-16	16	18	20,50	22,50	12	4	-	12,85 € 10,24 €
S 4-17	17	19	21,76	23,79	12	4	-	13,93 € 11,10 €
S 4-18	18	20	23,06	25,08	12	4	-	14,54 € 11,62 €
S 4-19	19	21	24,29	26,37	12	4	-	15,18 € 12,37 €
S 4-20	20	22	25,57	27,65	15	5	-	15,89 € 12,67 €
S 4-21	21	23	26,83	28,94	15	5	-	16,55 € 13,19 €
S 4-23	23	25	29,37	31,50	15	5	-	17,25 € 13,75 €
S 4-25	25	27	31,91	34,06	15	5	-	17,92 € 14,31 €
S 4-27	27	29	34,45	36,62	15	5	-	19,55 € 15,63 €
S 4-30	30	32	38,26	40,45	15	5	-	21,80 € 17,42 €
S 4-33	33	35	42,08	44,29	15	5	-	22,98 € 18,37 €
S 4-35	35	37	44,62	46,84	15	5	-	23,64 € 19,31 €
S 4-36	36	38	45,89	48,12	15	5	-	24,29 € 19,08 €
S 4-38	38	40	48,43	50,67	15	5	-	24,45 € 19,56 €
S 4-40	40	42	50,98	53,22	20	6	-	24,64 € 19,67 €
S 4-42	42	44	53,52	55,77	20	6	-	24,73 € 19,77 €
S 4-44	44	46	56,07	58,32	20	6	-	24,96 € 19,98 €
S 4-48	48	50	61,12	63,42	20	6	-	25,19 € 20,16 €
S 4-50	50	52	63,66	65,98	20	6	-	25,43 € 20,32 €
S 4-60	60	62	76,39	78,72	20	6	-	26,42 € 21,13 €
S 4-80	80	82	101,86	104,20	20	6	-	81,85 € 79,69 €

Dimensions in mm

Stainless steel

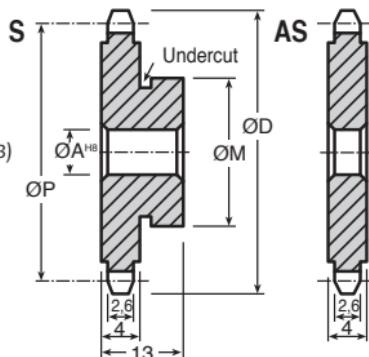
**PITCH
6mm**



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

Accessory

- SUA-4 chain



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	10,86 €	8,55 €
S 6-11	11	21,29	24,03	15	6	14 x 2,5	11,63 €	9,30 €
S 6-12	12	23,18	25,99	15	6	14 x 2,5	12,77 €	10,15 €
S 6-13	13	25,07	27,94	15	6	-	13,10 €	10,46 €
S 6-14	14	26,96	29,88	15	6	-	13,45 €	10,75 €
S 6-15	15	28,85	31,82	15	6	-	13,78 €	11,01 €
S 6-16	16	30,75	33,76	15	6	-	15,01 €	12,01 €
S 6-17	17	32,65	35,69	15	6	-	16,43 €	13,10 €
S 6-18	18	34,55	37,62	15	6	-	16,96 €	13,55 €
S 6-19	19	36,45	39,55	15	6	-	18,29 €	14,60 €
S 6-20	20	38,35	41,48	20	8	-	19,76 €	15,79 €
S 6-21	21	40,25	43,41	20	8	-	20,02 €	16,00 €
S 6-23	23	44,06	47,25	20	8	-	20,25 €	16,15 €
S 6-25	25	47,87	51,09	20	8	-	20,52 €	16,43 €
S 6-27	27	51,68	54,93	20	8	-	20,76 €	16,60 €
S 6-30	30	57,40	60,68	20	8	-	21,02 €	16,77 €
S 6-33	33	63,12	66,43	20	8	-	21,32 €	17,06 €
S 6-35	35	66,93	70,26	20	8	-	21,02 €	18,65 €
S 6-36	36	68,84	72,18	20	8	-	21,98 €	17,57 €
S 6-38	38	72,65	76,00	20	8	-	22,69 €	18,08 €
S 6-40	40	76,47	79,83	30	10	-	23,29 €	18,65 €
S 6-42	42	80,28	83,66	30	10	-	24,28 €	18,94 €
S 6-44	44	84,10	87,49	30	10	-	24,16 €	19,31 €
S 6-48	48	91,73	95,14	30	10	-	24,60 €	19,65 €
S 6-50	50	95,55	98,97	30	10	-	25,71 €	20,56 €
S 6-56	56	107,00	110,44	30	10	-	81,85 €	79,69 €
S 6-60	60	114,64	118,08	30	10	-	86,14 €	83,99 €

Dimensions in mm

Chain sprocket DIN 05B-1

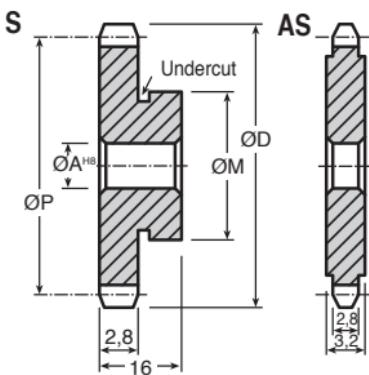


**PITCH
8mm**

- Pitch 8mm (DIN 05B-1)
- Roller diameter 5mm
- Material: Steel 34C10

Accessories

- SBR-8 or SBS-8 chains



DISCOUNTS

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

Part number	Z Teeth	ØP Pitch	ØD Outer diameter	ØM Bore diameter	ØA Shaft diameter	Undercut Ø x width	Price each 1 to 5	
							S	AS
S 8-8	8	20,90	24,11	14	6	11,37 x 3	10,09 €	8,50 €
S 8-9	9	23,39	26,78	14	6	-	10,29 €	8,59 €
S 8-10	10	25,89	29,42	17	8	-	10,75 €	8,99 €
S 8-11	11	28,40	32,04	18	8	-	10,73 €	8,99 €
S 8-12	12	30,90	34,65	20	8	-	10,73 €	8,99 €
S 8-13	13	33,42	37,25	20	8	-	10,86 €	9,10 €
S 8-14	14	35,95	39,84	20	8	-	10,93 €	9,18 €
S 8-15	15	38,48	42,48	28	8	-	11,11 €	9,35 €
S 8-16	16	41,00	45,00	30	8	-	11,37 €	9,54 €
S 8-17	17	43,53	47,53	30	8	-	11,69 €	9,85 €
S 8-18	18	46,07	50,16	30	8	-	12,11 €	10,12 €
S 8-19	19	48,61	52,74	30	8	-	12,43 €	10,43 €
S 8-20	20	51,14	55,31	30	8	-	12,81 €	10,75 €
S 8-21	21	53,67	57,88	30	8	-	13,55 €	11,40 €
S 8-23	23	58,75	63,00	30	8	-	13,86 €	11,62 €
S 8-25	25	63,82	68,12	35	10	-	13,90 €	12,43 €
S 8-27	27	68,91	73,24	35	10	-	18,75 €	15,75 €
S 8-30	30	76,53	80,91	40	10	-	20,17 €	16,92 €
S 8-33	33	84,16	88,58	40	10	-	21,64 €	18,12 €
S 8-35	35	89,24	93,68	40	10	-	22,07 €	18,57 €
S 8-36	36	91,78	96,24	40	12	-	22,92 €	19,23 €
S 8-38	38	96,87	101,34	40	12	-	24,17 €	20,25 €
S 8-40	40	101,96	106,44	40	12	-	25,71 €	21,59 €
S 8-42	42	107,05	111,55	40	12	-	26,30 €	22,07 €
S 8-44	44	112,14	116,65	40	12	-	29,07 €	24,40 €
S 8-48	48	122,31	126,85	40	12	-	33,93 €	28,48 €
S 8-50	50	127,40	131,96	40	12	-	36,57 €	30,68 €

Dimensions in mm

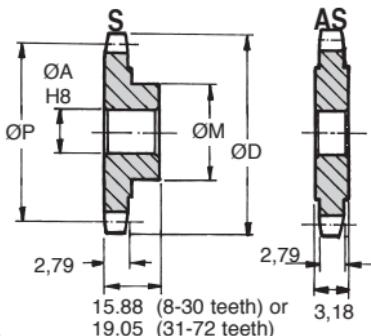
Steel



- Pitch 1/4" (6.35mm)
- Roller diameter 3.30mm
- Material: Steel 34C10

Accessory

- SUA-250 (Nb.25) chain



DISCOUNTS

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

Part number	Z Teeth	Price each 1 to 5				
		ØP	ØD	ØM	ØA	S
S 25 - 8	8	16,17	19,35	13	6,35	10,15 €
S 25 - 9	9	18,19	21,34	13	6,35	10,15 €
S 25 - 10	10	20,21	23,39	16	7,94	10,52 €
S 25 - 11	11	22,23	25,41	16	7,94	10,81 €
S 25 - 12	12	24,26	27,44	20	9,52	11,02 €
S 25 - 13	13	26,28	29,46	22	9,52	11,26 €
S 25 - 14	14	28,30	31,48	25	9,52	12,38 €
S 25 - 15	15	30,32	33,50	25	9,52	12,45 €
S 25 - 16	16	34,34	35,52	25	9,52	12,77 €
S 25 - 17	17	34,36	37,54	25	9,52	13,10 €
S 25 - 18	18	36,38	39,56	25	9,52	13,48 €
S 25 - 19	19	38,40	41,58	32	9,52	14,14 €
S 25 - 20	20	40,43	43,61	32	9,52	14,45 €
S 25 - 21	21	42,45	45,63	32	9,52	14,95 €
S 25 - 25	25	50,53	53,71	32	9,52	17,44 €
S 25 - 28	28	56,60	59,78	32	9,52	17,54 €
S 25 - 30	30	60,64	63,82	38	9,52	17,86 €
S 25 - 35	35	70,74	73,92	38	9,52	19,46 €
S 25 - 36	36	72,77	75,95	38	9,52	20,92 €
S 25 - 40	40	80,85	84,03	38	9,52	22,57 €
S 25 - 42	42	84,89	88,07	45	9,52	23,89 €
S 25 - 44	44	88,94	92,12	45	9,52	24,88 €
S 25 - 48	48	97,02	100,20	45	9,52	26,81 €
S 25 - 50	50	101,60	104,24	45	9,52	27,41 €
S 25 - 54	54	109,15	112,33	45	9,52	28,68 €
S 25 - 60	60	121,28	124,46	50	9,52	34,78 €
S 25 - 72	72	145,53	148,71	50	9,52	48,54 €

Dimensions in mm

Chain sprocket DIN 06B-1

Ste Eco DIN

PITCH

Steel

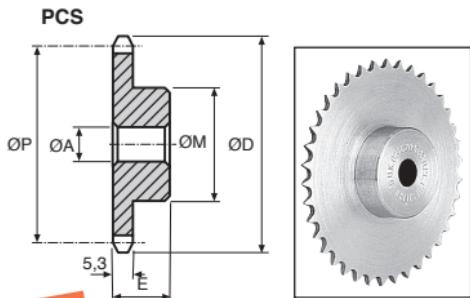
3/8"



- 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	✓	1,29 €
PCS37-9	9	27,85	31,0	18	8	22	✓	1,38 €
PCS37-10	10	30,82	34,0	20	8	22	✓	1,41 €
PCS37-12	12	36,80	40,0	25	8	25	✓	2,24 €
PCS37-13	13	39,80	43,0	28	10	25	✓	2,51 €
PCS37-14	14	42,80	46,3	31	10	25	✓	2,81 €
PCS37-15	15	45,81	49,3	34	10	25	✓	2,90 €
PCS37-16	16	48,82	52,3	37	10	28	✓	2,56 €
PCS37-17	17	51,83	55,3	40	10	28	✓	3,96 €
PCS37-18	18	54,85	58,3	43	10	28	✓	4,45 €
PCS37-20	20	60,89	64,3	46	10	28	✓	4,74 €
PCS37-21	21	63,91	68,0	48	12	28	✓	5,28 €
PCS37-22	22	66,93	71,0	50	12	28	✓	5,89 €
PCS37-23	23	69,95	73,5	52	12	28	✓	6,25 €
PCS37-24	24	72,97	77,0	54	12	28	✓	6,49 €
PCS37-25	25	76,00	80,0	57	12	28	-	6,76 €
PCS37-26	26	79,02	83,0	60	12	28	✓	7,56 €
PCS37-27	27	82,04	86,0	60	12	28	✓	7,70 €
PCS37-28	28	85,07	89,0	60	12	28	✓	7,92 €
PCS37-29	29	88,09	92,0	60	12	28	-	8,31 €
PCS37-30	30	91,12	94,7	60	12	28	✓	8,69 €
PCS37-32	32	97,17	101,3	65	14	30	✓	10,24 €
PCS37-33	33	100,20	104,3	65	14	30	-	10,72 €
PCS37-34	34	103,23	107,3	65	14	30	✓	10,75 €
PCS37-35	35	106,26	110,4	65	14	30	-	11,49 €
PCS37-36	36	109,29	113,4	70	14	30	-	11,97 €
PCS37-38	38	115,34	119,5	70	14	30	-	12,37 €
PCS37-40	40	121,40	125,5	70	14	30	✓	13,16 €

*Depending on availability - Dimensions in mm

Stainless steel

PITCH
3/8"

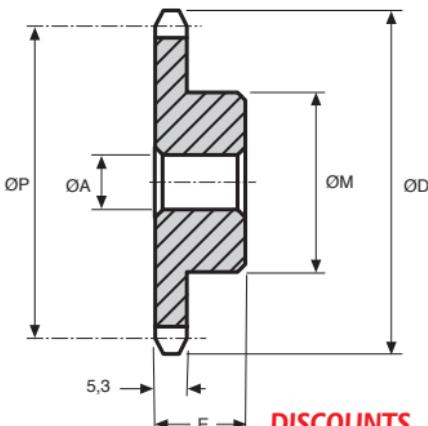
- Pitch 3/8" (9.525mm) (DIN 06B-1)
- Roller diameter 6.35mm
- Material: stainless steel AISI 304
- We are unable to modify these parts

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

**DISCOUNTS**

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

Part number	Z Teeth	OP	OD	OM	OA	E	Price each. 1 to 5
PCS37-12/SS	12	36,80	40,0	25	8	25	18,76 €
PCS37-13/SS	13	39,80	43,0	28	10	25	26,91 €
PCS37-15/SS	15	45,81	49,3	34	10	25	33,79 €
PCS37-16/SS	16	48,82	52,3	37	10	28	35,53 €
PCS37-17/SS	17	51,83	55,3	40	10	28	37,84 €
PCS37-18/SS	18	54,85	58,3	43	10	28	39,53 €
PCS37-19/SS	19	57,87	61,3	46	10	28	41,15 €
PCS37-20/SS	20	60,89	64,3	46	10	28	42,93 €
PCS37-21/SS	21	63,91	68,0	48	12	28	44,50 €
PCS37-23/SS	23	69,95	73,5	52	12	28	49,55 €
PCS37-25/SS	25	76,00	80,0	57	12	28	52,75 €
PCS37-30/SS	30	91,12	94,7	60	12	30	64,58 €

Dimensions in mm

Chain sprocket DIN 08B-1

Ste Eco DIN

PITCH

Steel

1/2"

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

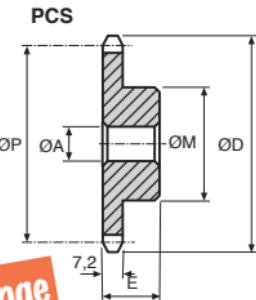
Options

- 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	OP	OD	OM	OA	E	Stock*	Price each 1 to 5
PCS50-8	8	33,18	37,2	20	10	25	✓	1,59 €
PCS50-9	9	37,13	41,0	24	10	25	✓	2,24 €
PCS50-10	10	41,10	45,2	26	10	25	✓	2,90 €
PCS50-12	12	49,07	53,0	33	10	28	✓	3,96 €
PCS50-15	15	61,09	65,5	45	10	28	✓	5,37 €
PCS50-16	16	65,10	69,5	50	12	28	✓	5,70 €
PCS50-18	18	73,14	77,8	56	12	28	✓	6,99 €
PCS50-20	20	81,19	85,8	64	12	28	✓	9,44 €
PCS50-21	21	85,22	89,7	68	14	28	✓	9,95 €
PCS50-22	22	89,24	93,8	70	14	28	✓	10,24 €
PCS50-23	23	93,27	98,2	70	14	28	-	10,75 €
PCS50-24	24	97,29	101,8	70	14	28	✓	10,94 €
PCS50-25	25	101,33	105,8	70	14	28	✓	11,57 €
PCS50-26	26	105,36	110,0	70	16	30	✓	12,29 €
PCS50-27	27	109,40	114,0	70	16	30	✓	12,46 €
PCS50-28	28	113,42	118,0	70	16	30	✓	12,79 €
PCS50-29	29	117,46	122,0	80	16	30	✓	14,58 €
PCS50-30	30	121,50	126,1	80	16	30	✓	16,12 €
PCS50-31	31	125,54	130,2	90	16	30	-	17,14 €
PCS50-32	32	129,56	134,3	90	16	30	✓	17,35 €
PCS50-33	33	133,60	138,4	90	16	30	-	17,87 €
PCS50-34	34	137,64	142,6	90	16	30	-	19,57 €
PCS50-35	35	141,68	146,7	90	16	30	✓	20,11 €
PCS50-36	36	145,72	151,0	90	20	35	✓	22,26 €
PCS50-37	37	149,76	154,6	90	20	35	-	22,95 €
PCS50-38	38	153,80	158,6	90	20	35	✓	23,15 €
PCS50-39	39	157,83	162,7	90	20	35	-	24,25 €
PCS50-40	40	161,87	166,8	90	20	35	✓	24,75 €

*Depending on availability - Dimensions in mm

Stainless steel

PITCH
1/2"

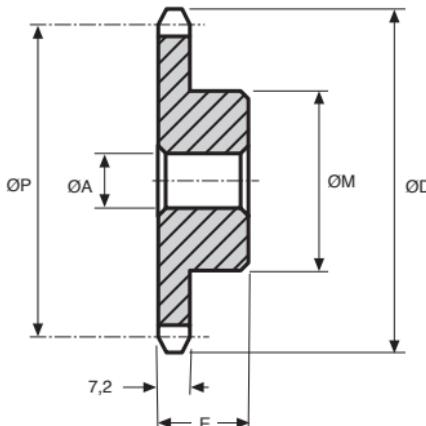
- Pitch 1/2" (12.7mm) (DIN 08B-1)
- Roller diameter 8.51mm
- Material: stainless steel AISI 304
- We are unable to modify these parts

**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-500 chain



**stainless
steel**

DISCOUNTS

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

Part number	Z Teeth	OP	OD	OM	OA	E	Price each. 1 to 5
PCS50-12/SS	12	49,07	53,0	33	10	28	36,31 €
PCS50-13/SS	13	53,06	57,4	37	10	28	39,53 €
PCS50-15/SS	15	61,09	65,5	45	10	28	44,50 €
PCS50-16/SS	16	65,10	69,5	50	12	28	47,81 €
PCS50-17/SS	17	69,11	73,6	52	12	28	51,03 €
PCS50-18/SS	18	73,14	77,8	56	12	28	54,53 €
PCS50-19/SS	19	77,16	81,7	60	12	28	59,05 €
PCS50-20/SS	20	81,19	85,8	64	12	28	62,52 €
PCS50-21/SS	21	85,22	89,7	68	14	28	66,06 €
PCS50-23/SS	23	93,27	98,2	70	14	28	69,04 €
PCS50-25/SS	25	101,33	105,8	70	14	28	72,55 €
PCS50-30/SS	30	121,50	126,1	80	16	30	107,13 €

Dimensions in mm

Chain sprocket DIN 10B-1

Ste Eco DIN

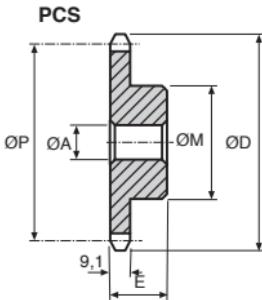
**PITCH
5/8"**

Steel

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

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	✓	2,56 €
PCS62-9	9	46,42	52,6	30	10	25	-	3,51 €
PCS62-10	10	51,37	57,5	35	10	25	✓	3,51 €
PCS62-13	13	66,32	73,0	47	12	30	✓	6,49 €
PCS62-15	15	76,36	83,0	57	12	30	✓	8,02 €
PCS62-16	16	81,37	88,0	60	14	30	✓	8,95 €
PCS62-17	17	86,39	93,0	60	14	30	✓	9,62 €
PCS62-18	18	91,42	98,3	70	14	30	✓	10,75 €
PCS62-20	20	101,49	108,4	75	14	30	✓	12,46 €
PCS62-21	21	106,52	113,4	75	16	30	✓	13,43 €
PCS62-22	22	111,55	118,0	80	16	30	-	14,70 €
PCS62-23	23	116,58	123,4	80	16	30	-	15,42 €
PCS62-24	24	121,62	128,3	80	16	30	-	16,12 €
PCS62-25	25	126,66	134,0	80	16	30	-	16,73 €
PCS62-26	26	131,70	139,0	85	20	35	-	19,99 €
PCS62-27	27	136,75	144,0	85	20	35	-	21,65 €
PCS62-28	28	141,78	148,7	90	20	35	-	22,65 €
PCS62-29	29	146,83	153,8	90	20	35	-	23,98 €
PCS62-30	30	151,87	158,8	90	20	35	✓	24,68 €
PCS62-31	31	156,92	163,9	95	20	35	-	26,62 €
PCS62-32	32	161,95	168,9	95	20	35	-	27,61 €
PCS62-33	33	167,00	174,5	95	20	35	-	28,73 €
PCS62-34	34	172,05	179,0	95	20	35	-	29,63 €
PCS62-35	35	177,10	184,1	95	20	35	-	30,69 €
PCS62-38	38	192,24	199,2	100	20	35	-	34,90 €
PCS62-39	39	197,29	204,2	100	20	35	-	36,27 €
PCS62-40	40	202,34	209,3	100	20	35	✓	37,45 €

*Depending on availability - Dimensions in mm

Stainless steel

PITCH
5/8"

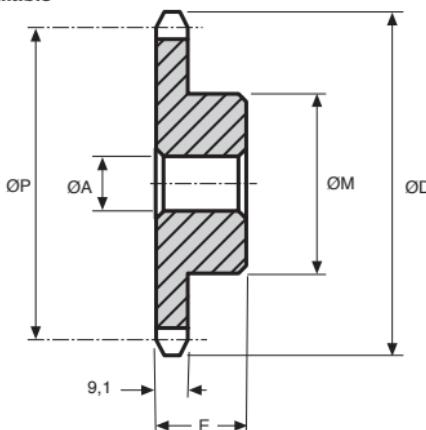
- Pitch 5/8" (15.875mm) (DIN 10B-1)
- Roller diameter 10.16mm
- Material: stainless steel AISI 304
- We are unable to modify these parts

Options

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

stainless
steel**Accessories**

- SBS-625 chain

**DISCOUNTS**

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

Part number	Z Teeth	OP	OD	OM	OA	E	Price each. 1 to 5
PCS62-12/SS	12	61,34	68,0	42	12	30	38,52 €
PCS62-13/SS	13	66,32	73,0	47	12	30	53,01 €
PCS62-15/SS	15	76,36	83,0	57	12	30	57,52 €
PCS62-16/SS	16	81,37	88,0	60	14	30	61,06 €
PCS62-17/SS	17	86,39	93,0	60	14	30	67,56 €
PCS62-18/SS	18	91,42	98,3	70	14	30	72,55 €
PCS62-19/SS	19	96,45	103,3	70	14	30	77,54 €
PCS62-20/SS	20	101,49	108,4	75	14	30	82,07 €
PCS62-21/SS	21	106,52	113,4	75	16	30	90,57 €
PCS62-23/SS	23	116,58	123,4	80	16	30	98,61 €
PCS62-25/SS	25	126,66	134,0	80	16	30	105,08 €
PCS62-30/SS	30	151,87	158,8	90	20	35	152,18 €

Dimensions in mm

Single chain supplied by the metre

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

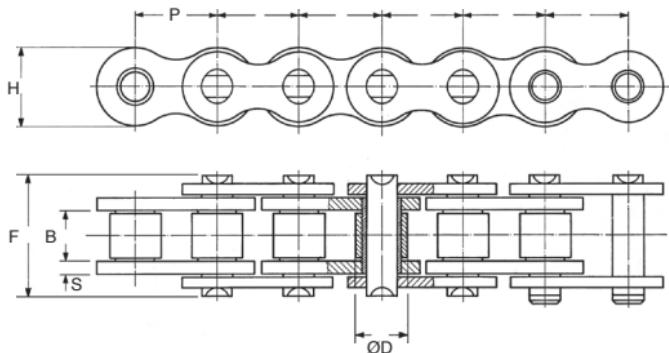
Accessories

- 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	✓	157,12 €
SUA-6/M	04-1	6,00	2,80	4,00	7,8	5,0	0,60	3000	5 metres	✓	10,75 €
SUA-250/M	-	6,35	3,30	3,30	8,0	6,0	-	4000	5 metres	✓	13,18 €
SBR-8/M	05B-1	8,00	3,00	5,00	8,9	7,1	0,80	5000	5 metres	✓	8,94 €
SBR-375/M	06B-1	9,53	5,72	6,35	14,1	8,2	1,30	9000	5 metres	✓	6,90 €
SBR-500/M	08B-1	12,70	7,75	8,51	18,2	11,8	1,60	18000	5 metres	✓	6,66 €
SBR-625/M	10B-1	15,88	9,65	10,16	20,9	14,7	1,70	22400	5 metres	✓	8,30 €
SBR-750/M	12B-1	19,05	11,68	12,07	24,2	16,0	1,85	29000	5 metres	✓	10,67 €

*Depending on availability - Dimensions in mm

Steel

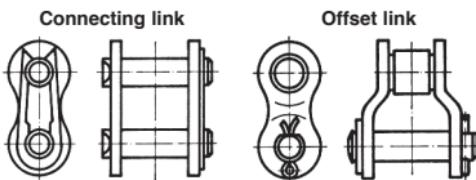
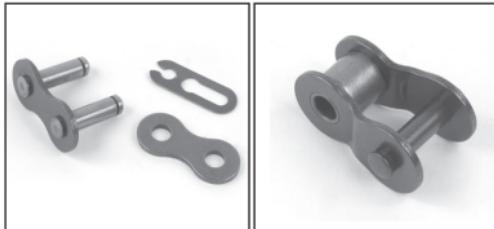
PITCH
4.0 mm

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

**DISCOUNTS**

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

Part number	Connecting link	Offset link	DIN	Pitch P (mm)	For chain	Stock* Connecting link	Stock* Offset link	Price each 1 to 9 Connecting link	Price each 1 to 9 Offset link
SUA-4/L	-	-	-	4,00	SUA-4	✓	-	9,23 €	-
SUA-6/L	-	04-1	6,00	SUA-6	✓	-	0,80 €	-	0,80 €
SUA-250/L	-	-	6,35	SUA-250	✓	-	0,92 €	-	0,92 €
SBR-375/L	-	05B-1	8,00	SBR-8	✓	-	0,66 €	-	0,66 €
SBR-500/L	SBR-375/LC	06B-1	9,53	SBR-375	✓	✓	0,93 €	1,27 €	0,93 €
SBR-625/L	SBR-500/LC	08B-1	12,70	SBR-500	✓	✓	0,66 €	1,27 €	0,66 €
SBR-750/L	SBR-625/LC	10B-1	15,88	SBR-625	✓	✓	0,99 €	1,54 €	0,99 €
SBR-8/L	SBR-750/LC	12B-1	19,05	SBR-750	✓	✓	0,80 €	1,97 €	0,80 €

*Depending on availability - Dimensions in mm

Single chain supplied by the metre

Sta**DIN** Stock

PITCH

9.52 mm

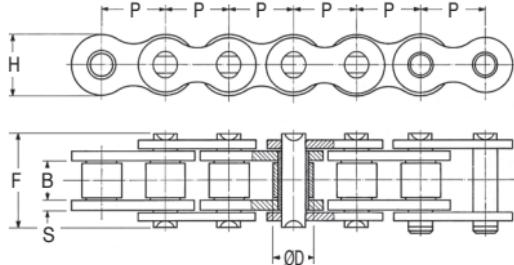
to 19.05 mm

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	Stock*	Price per metre
SBS-375/M	06B-1	9,52	5,72	6,35	14,0	8,3	1,25	6200	5 mètres	✓	28,69 €
SBS-500/M	08B-1	12,70	7,75	8,51	18,7	11,8	1,65	12000	5 mètres	✓	33,10 €
SBS-625/M	10B-1	15,88	9,65	10,16	21,1	14,7	1,70	14500	5 mètres	✓	45,36 €
SBS-750/M	12B-1	19,05	11,68	12,07	24,5	16,1	1,85	18500	5 mètres	-	52,96 €

*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

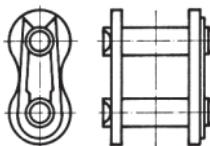
- Compatible with **SBS** stainless steel chains



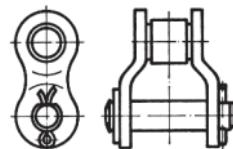
Stainless
steel

Stainless
steel

Connecting link



Offset link

**DISCOUNTS**

Qty. 1+	50+
Disc. List	On request

Part number	Pitch P (mm)	For chain	Stock*	Stock*	Price each 1 to 9	
			Connecting link	Offset link	Connecting link	Offset link
Connecting link	9,52	SBS-375	✓	✓	1,65 €	2,38 €
Offset link	12,70	SBS-500	✓	✓	2,26 €	2,62 €
Connecting link	15,88	SBS-625	✓	✓	2,19 €	2,79 €
Offset link	19,05	SBS-750	-	-	1,89 €	3,72 €

*Depending on availability - Dimensions in mm

**Chain and belt
tensioners**
p.102-p.112

Belt tension
rollers



New

p.102

Fixe tensioner
plate



p.104

Roll-Ring® self-adjusting chain tensioner



p.106

Idler chain sprocket



p.108

Universal tension arm



p.110

Stainless steel universal tension arm

**Stainless
steel**



p.111

Belt tensioner

New Stock

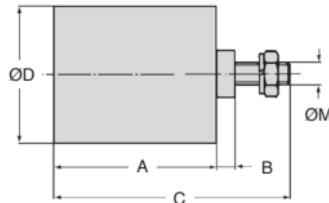
GTC

For standard applications

- 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



NEW!



Typical application : used with GTC tender arm



Typical application : used with TFR tensioner

Good price
quality/ratio

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	✓	23,04 €
GTC-3/4	45	6,0	67	40	M10	8000	0,17	BTE3-BTE4	✓	27,13 €
GTC-5	60	7,5	89	60	M12	6000	0,40	BTE5	✓	48,53 €
GTC-6	90	9,0	127	80	M20	5000	1,20	BTE6-BTE7	-	82,50 €
GTC-7	135	7,0	169	90	M20	4500	1,70	BTE7	-	162,72 €

*Depending on availability - Dimensions in mm

Corrosion resistant

GTCss

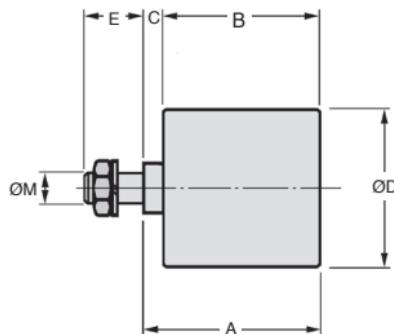
- Belt tensioner

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



NEW!

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	✓	30,48 €
GTC-3/4/SS	51	45	6	40	16	M10	BTE3-BTE4	8000	✓	42,05 €
GTC-5/SS	67,5	60	7,5	60	21,5	M12	BTE5	6000	-	85,86 €

*Depending on availability - Dimensions in mm

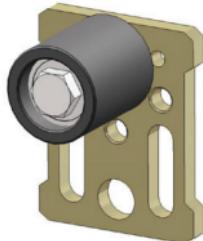
TMR

Ideal for belts

- Suitable for mounting and positioning GTC belt rollers and PTR sprockets

- Material:

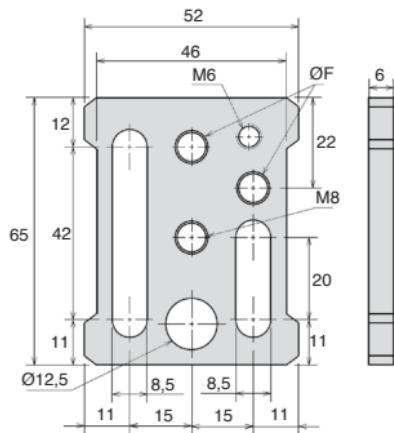
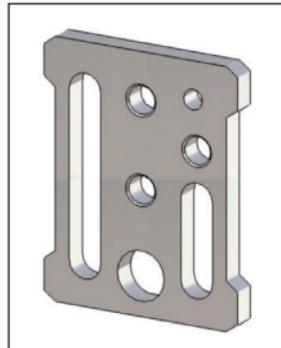
Plated XC38 steel
304L stainless steel



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	Matière	ØF	Stock*	Price each 1 to 9
TMR-8	Steel	M8	✓	21,64 €
TMR-10	Steel	M10	✓	21,64 €
TMR-8/SS	Stainless steel	M8	-	27,86 €
TMR-10/SS	Stainless steel	M10	-	27,86 €

*Depending on availability - Dimensions in mm

Ideal for belts

TFR

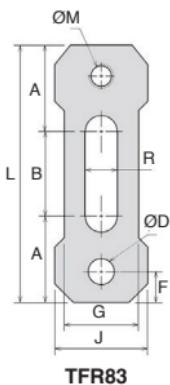
- Suitable for mounting and positioning GTC belt rollers and PTR sprockets in a variety of positions

- Material:

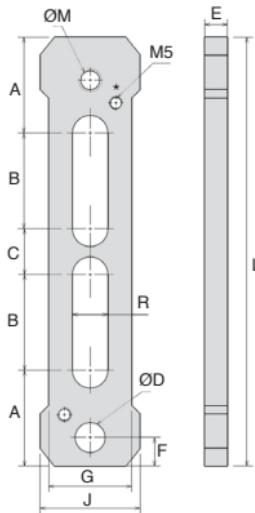
Plated XC38 steel

304L stainless steel

- *Anti-rotation system



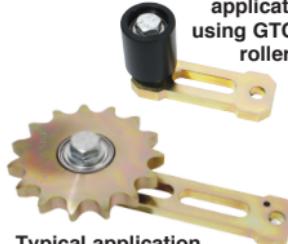
TFR83



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	✓	12,31 €
TFR83-10	28	27,5	-	8,5	8	10	24	30	83,5	M10	10,5	✓	12,68 €
TFR125-8	28	27,5	14	10,5	8	10	24	30	125	M8	10,5	✓	13,18 €
TFR125-10	28	27,5	14	10,5	8	10	24	30	125	M10	10,5	✓	13,68 €
TFR125-12	28	27,5	14	10,5	8	10	24	30	125	M12	10,5	✓	14,43 €
TFR150-10	33,5	33,5	16	12,5	8	15	29	35	150	M10	12,5	✓	20,65 €
TFR150-12	33,5	33,5	16	12,5	8	15	29	35	150	M12	12,5	✓	21,15 €
TFR150-16	33,5	33,5	16	12,5	8	15	29	35	150	M16	12,5	-	21,89 €
Stainless version													
TFR83-8/SS	28	27,5	-	8,5	8	10	24	30	83,5	M8	10,5	-	19,41 €
TFR83-10/SS	28	27,5	-	8,5	8	10	24	30	83,5	M10	10,5	-	20,15 €
TFR125-8/SS	28	27,5	14	10,5	8	10	24	30	125	M8	10,5	-	24,38 €
TFR125-10/SS	28	27,5	14	10,5	8	10	24	30	125	M10	10,5	-	25,13 €
TFR125-12/SS	28	27,5	14	10,5	8	10	24	30	125	M12	10,5	-	26,87 €
TFR150-10/SS	33,5	33,5	16	12,5	8	15	29	35	150	M10	12,5	-	37,57 €
TFR150-12/SS	33,5	33,5	16	12,5	8	15	29	35	150	M12	12,5	-	38,07 €
TFR150-16/SS	33,5	33,5	16	12,5	8	15	29	35	150	M16	12,5	-	39,32 €

*Depending on availability - Dimensions in mm

Roll-Ring® chain tensioner



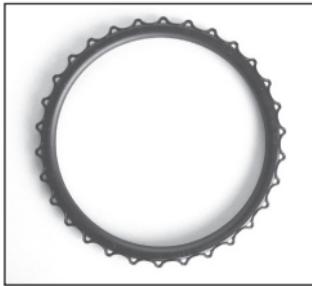
RLR

Self-adjusting

- Easily installed
- Uses the space between two drive sprockets
- Self positioning
- Dampens vibration
- Self lubricating
- Working temperature: -20°C to +70°C
- Normal resistance to UV radiation
- Material: polymer

Use

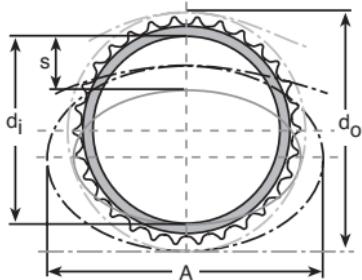
- Multiple tensioners can be used in series on long chains or in parallel on multiple chains
- On triple chains, tensioners are only needed on inner and outer strands



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)	do	Internal diameter di	Max. deviation S	A	Static force of max. expansion (N)	Max. chain speed (m/s)	Stock*	Price each 1 to 5
RLR05-030	30	05B	8,00	76,5	65,0	20	104,0	2,9	5,0	-	97,81 €
RLR06-030	30	06B	9,52	91,1	73,0	25	122,0	15,2	5,2	✓	84,76 €
RLR06-036	36	06B	9,52	109,0	89,5	25	143,0	28,5	5,2	✓	95,95 €
RLR08-026	26	08B	12,70	102,1	84,5	24	135,8	15,7	7,5	✓	78,87 €
RLR08-030	30	08B	12,70	121,5	98,0	28	161,6	22,0	8,6	✓	91,04 €
RLR08-034	34	08B	12,70	137,5	114,4	30	165,0	22,0	8,8	✓	103,18 €
RLR10-026	26	10B	15,88	128,4	105,0	28	153,0	28,2	4,2	✓	96,16 €
RLR10-030	30	10B	15,88	148,0	124,6	33	177,0	23,0	8,8	-	110,63 €
RLR10-034	34	10B	15,88	170,0	141,0	38	217,0	45,1	8,8	-	125,58 €
RLR12-026	26	12B	19,05	155,0	127,6	35	209,5	39,2	5,4	-	116,25 €
RLR12-030	30	12B	19,05	182,2	145,0	40	241,7	65,0	6,2	-	134,23 €

*Depending on availability - Dimensions in mm

Installation

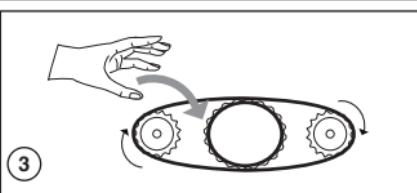
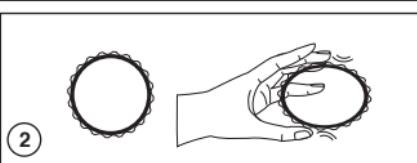
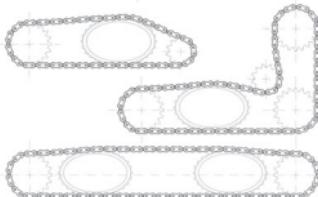
Roll-Ring® chain tensioners do not require any maintenance and can be installed on practically all chain drive systems. **Their installation takes virtually no time and is inexpensive.** The only conditions that must be met to be able to use them are:

- 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.

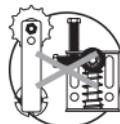
Typical Roll-Ring® applications



Advantages



Reduced installation time



No additional machining required



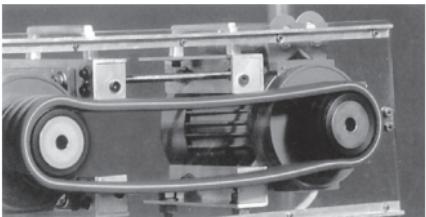
Reduced noise



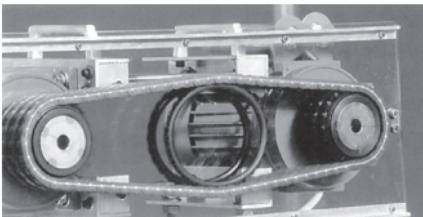
Easy installation



Maintenance free



Vibrations on a non tensioned chain



The Roll-Ring® tensions and dampens the chain

Idler chain sprocket

**PTR**

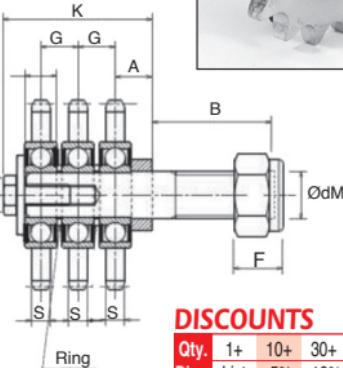
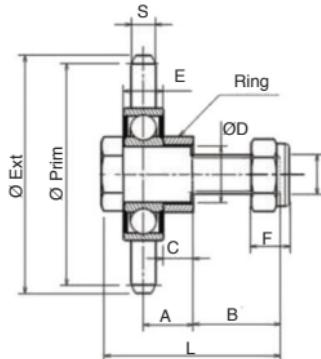
For normal applications

- 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										Arm size	Price each	Stock*
		Z	S	ØdM	ØD	A	B	C	E	F	L			
Single chain														
PTR-04B1	6,000	15	2,6	M6	6	7	15	4	6	6	28	BTE2	✓ 22,97 €	
PTR-06B1	9,525	17	5,3	M10	12	12	22	7	10	10	44	BTE3	✓ 14,60 €	
PTR-08B1	12,700	17	7,2	M12	17	15	26	9	12	12	53	BTE4/BTE5	✓ 16,12 €	
PTR-10B1	15,800	16	9,1	M12	17	15	26	9	12	12	53	BTE4/BTE5	✓ 20,91 €	
PTR-12B1	19,050	14	11,1	M12	17	15	26	9	12	12	53	BTE4/BTE5	✓ 24,02 €	

Part number	Pitch	No. of teeth										Arm size	Price each	Stock*
		Z	ØdM	ØD	A	B	G	F	L					
Double chain														
PTR-06B2	9,525	17	M12	12	12	35	10,24	12	35	BTE4	-	35,48 €		
PTR-08B2	12,700	17	M18	17	15	45	13,92	18,5	44	BTE5	-	41,73 €		
PTR-10B2	15,800	16	M20	17	15	45	16,59	20	46	BTE6	-	60,52 €		
PTR-12B2	19,050	14	M20	17	15	45	19,46	20	49	BTE6	-	68,86 €		

Triple chain

PTR-06B3	9,525	17	M12	12	12	35	10,24	12	45	BTE4	-	48,01 €
PTR-08B3	12,700	17	M18	17	15	45	13,92	18,5	58	BTE5	-	62,61 €
PTR-10B3	15,800	16	M20	17	15	45	16,59	20	64	BTE6	-	89,74 €

*Depending on availability - Dimensions in mm

For hostile environments

PTRss

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

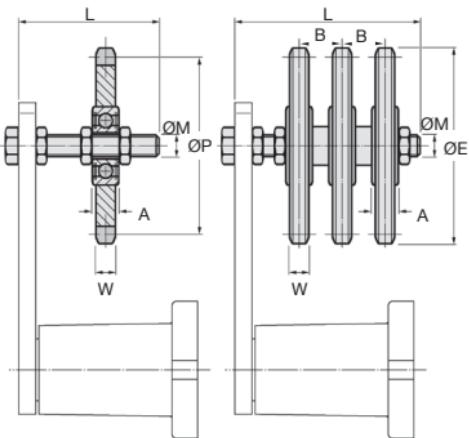
- Fitted with sealed stainless steel bearings
- Max speed : 70 rpm
- Material :Axe and gear :
 - Stainless steel 304L
 - Nuts : Stainless steel A2

**Accessories**

- BTE/SS tension arm

For hostile environments

NEW!

**DISCOUNTS**

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

Part number	Pitch	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	35,58	€
PTR-08B1/SS	12,700	15	7,2	M10	9	-	55	61,09	65,5	BTE4	43,79	€
PTR-10B1/SS	15,800	15	9,1	M12	12	-	80	76,36	83,0	BTE5	56,24	€
PTR-12B1/SS	19,050	15	11,1	M12	12	-	80	91,63	99,8	BTE5	83,61	€
Double												
PTR-06B2/SS	9,525	15	5,3	M10	9	10,24	55	45,81	49,3	BTE4	65,45	€
PTR-08B2/SS	12,700	15	7,2	M10	9	13,92	60	61,09	65,5	BTE4	81,87	€
PTR-10B2/SS	15,800	15	9,1	M12	12	16,59	80	76,36	83,0	BTE5	105,77	€
PTR-12B2/SS	19,050	15	11,1	M12	12	19,46	80	91,63	99,8	BTE5	161,01	€
Triple												
PTR-06B3/SS	9,525	15	5,3	M10	9	10,24	60	45,81	49,3	BTE4	79,50	€
PTR-08B3/SS	12,700	15	7,2	M12	9	13,92	80	61,09	65,5	BTE5	114,10	€
PTR-10B3/SS	15,800	15	9,1	M12	12	16,59	80	76,36	83,0	BTE5	144,84	€
PTR-10B3/SS	19,050	15	11,1	M20	15	19,46	120	91,63	99,8	BTE6	144,84	€

Dimensions in mm

Universal tension arm

Stock

BTE FOR COMMON APPLICATIONS

- Universal tension arm for use with PTR tension sprockets

- Angle of rotation +/- 32°

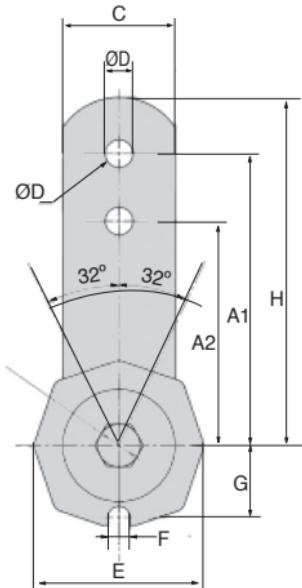
- Can be installation in any position

- Working temperature range: -42° to 80°C

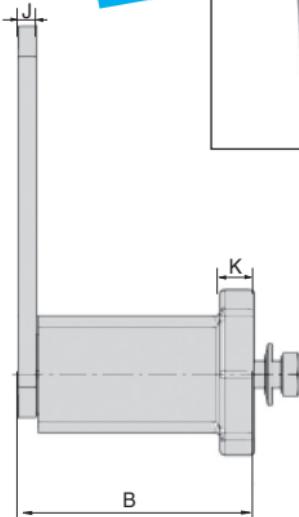
- Materiel:

Body: steel (except BTE6 and BTE7 which are cast iron)

Arm: steel



New
design



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	OM (Nm)	Tightening torque	Force (N)		Weight (kg)	Price each	Stock*
														D-32°	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	✓	23,84 €
BTE3-M8	100	80	63	25	10,5	48	8,5	21	122,5	5	10	M8	25	0-140	0,170	0,360	✓	30,21 €
BTE4-M10	100	80	78	30	10,5	59	8,5	25	115,0	6	12	M10	49	0-320	0,430	0,590	✓	36,55 €
BTE5-M12	130	100	108	50	12,5	76	10,5	32	155,0	8	15	M12	86	0-820	0,1050	1,640	✓	66,74 €
BTE6-M16	175	140	140	60	20,5	92	12,5	41	205,0	10	17	M16	210	0-1500	0-1880	3,330	-	114,41 €
BTE7-M20	220	175	198	70	20,5	112	12,5	51	255,0	12	18	M20	410	0-2500	0-3200	6,220	-	162,06 €

*Depending on availability - Dimensions in mm

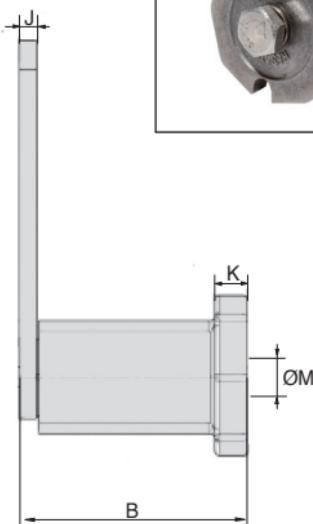
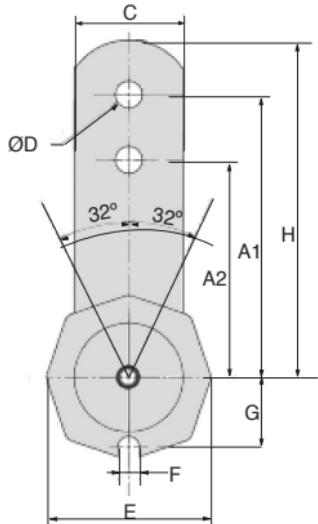
- Universal tensioner arm for applications in hostile environments

- Angle of rotation +/- 32°
- Can be mounted in any position
- Used with PTR/SS chain tensioners
- Working temp range -42 to +50°C
- Materials :

Body stainless steel XSC N18-10

Arm : stainless steel 304L

Screw : stainless steel A2

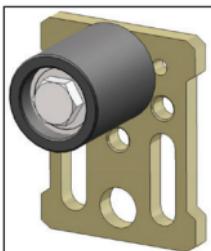
For hostile environments

DISCOUNTS

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

Part number	A1	A2	B	C	ØD	E	F	G	H	J	K	ØM	Tightening force	Force (N)	Weight (kg)	Price each	
													0-32°	(Nm)			
BTE2-M6/SS	80	60	52	20	8,5	38	8	16	90,0	5	7	M6	10	0-90	0-110	0,210	44,49 €
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	57,19 €
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	88,97 €
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	158,90 €
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	238,34 €

Dimensions in mm

Timing belt length



Each belt has a fixed length, therefore when designing your system include a mechanism for altering the distance between the pulleys so that the belt can be tensioned correctly. Please see our ranges of belt idlers (**TRE, TPX, MIX or AH**) and rollers (**RE or XRP**).

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

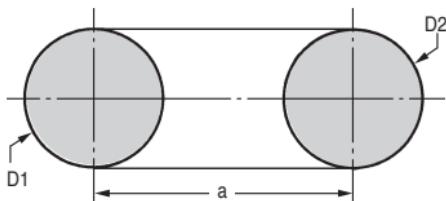
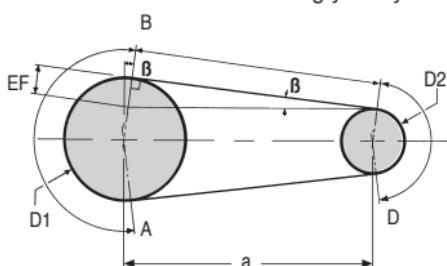
BC = Length of unattached belt

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;

$$L = \frac{D_1 + D_2}{0.6366} + (2 \times a)$$

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

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

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

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

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

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

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

24/48h delivery^{*}
for articles in stock

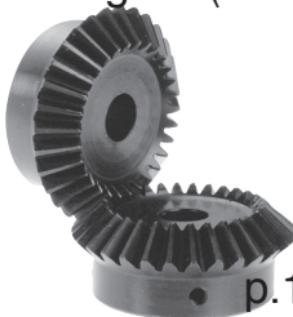


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*Contact us for full details

Bevel gears
p.116-p.135

Budget range ECO
bevel gear (1:1 à 4:1)



• p.116

Steel bevel gear



p.122

Stainless steel
bevel gear



*Stainless
steel*

p.128

Moulded plastic
bevel gear



p.130

Machined
plastic bevel
gear



p.133

Steel bevel gear



**RATIO
1:1**

Steel C43

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

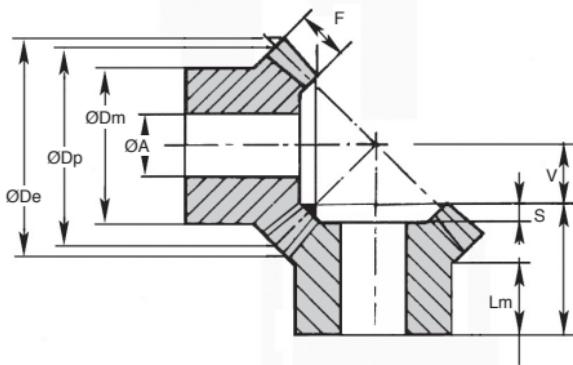


DISCOUNTS

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

Part number	Teeth	mod	ØD _p	ØD _e	F	L	ØD _m	ØA	V	S	Lm	Stock*	Price each 1 to 5
B1.5-16/ECO	16		24,0	26,12	6,0	18,9	20,3	8	7,10	-	12,0	✓	15,06 €
B1.5-20/ECO	20	1,5	30,0	32,12	10,0	20,0	22,0	10	7,40	2,0	8,5	✓	18,20 €
B1.5-25/ECO	25		37,0	39,62	10,0	23,0	28,0	10	11,09	2,0	12,0	-	21,70 €
B1.5-30/ECO	30		45,0	47,12	12,0	25,0	30,0	12	13,35	2,5	12,0	-	26,24 €
B2-16/ECO	16		32,0	34,83	8,0	23,5	25,3	8	9,50	-	14,0	✓	17,81 €
B2-20/ECO	20	2	40,0	42,83	12,0	25,0	32,0	10	10,78	3,0	12,0	✓	22,16 €
B2-25/ECO	25		50,0	52,82	14,0	28,0	40,0	12	14,28	3,0	12,3	✓	35,45 €
B2-30/ECO	30		60,0	62,83	16,0	30,0	50,0	12	17,78	3,0	12,8	✓	42,64 €
B2.5-16/ECO	16		40,0	43,53	10,0	28,1	30,3	12	11,90	-	15,0	✓	27,06 €
B2.5-20/ECO	20	2,5	50,0	53,53	12,0	30,5	40,0	12	15,43	3,5	16,0	-	35,45 €
B2.5-25/ECO	25		62,5	66,00	15,0	33,5	50,0	15	19,48	3,5	16,0	-	43,18 €
B2.5-30/ECO	30		75,0	78,53	18,0	35,5	55,0	15	23,63	3,5	16,0	-	50,97 €
B3-16/ECO	16		48,0	52,25	12,0	31,7	40,3	12	14,30	-	18,0	-	31,69 €
B3-20/ECO	20		60,0	64,24	18,0	35,0	45,0	15	16,00	4,0	13,6	-	39,37 €
B3-25/ECO	25		75,0	79,24	20,0	38,0	55,0	15	22,00	4,0	16,0	-	47,52 €
B3-30/ECO	30		90,0	94,24	22,0	40,0	60,0	20	28,00	4,0	17,0	-	57,44 €

*Depending of availability - Dimensions in mm



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	ØA	V	S	Lm	Price each 1 to 5
B3.5-16/ECO	16		56,0	60,95	14,0	36,4	45,3	16	16,60	-	20,0	35,41 €
B3.5-20/ECO	20	3,5	70,0	74,95	22,0	40,5	55,0	15	18,13	4,5	17,0	43,13 €
B3.5-25/ECO	25		87,5	92,45	26,0	43,5	65,0	20	23,97	4,5	18,0	60,51 €
B3.5-30/ECO	30		105,0	109,95	30,0	48,0	70,0	20	30,02	4,5	19,0	70,57 €
B4-16/ECO	16		64,0	69,65	15,0	44,3	50,3	16	19,70	-	25,0	41,53 €
B4-20/ECO	20	4	80,0	85,65	25,0	43,0	60,0	18	20,74	5,0	18,0	51,65 €
B4-25/ECO	25		100,0	105,65	28,0	45,0	70,0	20	28,50	5,0	18,0	65,24 €
B4-30/ECO	30		120,0	125,65	32,0	48,0	80,0	20	35,67	5,0	16,0	84,34 €
B4.5-16/ECO	16		72,0	78,38	17,5	46,3	55,3	20	21,70	-	25,0	45,93 €
B4.5-20/ECO	20	4,5	90,0	96,38	28,0	48,0	65,0	20	23,41	6,0	18,0	73,16 €
B4.5-25/ECO	25		112,5	118,80	32,0	50,0	75,0	20	31,76	6,0	18,0	88,92 €
B4.5-30/ECO	30		135,0	141,38	35,0	53,0	90,0	20	40,82	6,0	17,0	107,81 €
B5-16/ECO	16	5	80,0	87,07	18,0	48,9	60,3	20	25,10	-	25,0	50,08 €
B5-20/ECO	20		100,0	107,07	30,0	50,5	70,0	20	26,86	6,5	18,5	75,17 €
B5-25/ECO	25		125,0	132,07	34,0	53,5	90,0	20	36,36	6,5	18,0	96,73 €
B5-30/ECO	30		150,0	157,07	38,0	56,5	110,0	20	45,97	6,17	18,0	121,58 €

Dimensions in mm

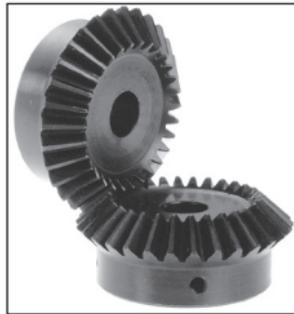
Steel bevel gear

Ste  Eco 

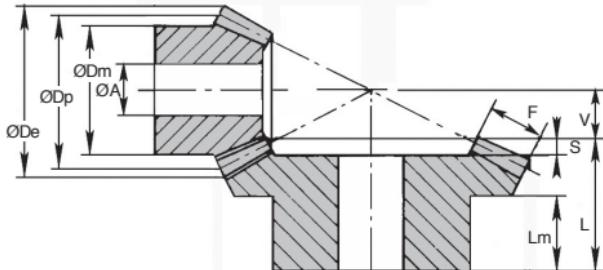
RATIO
2:1

Steel C43

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



CANNOT BE MODIFIED
BUDGET RANGE
BY YOURSELF



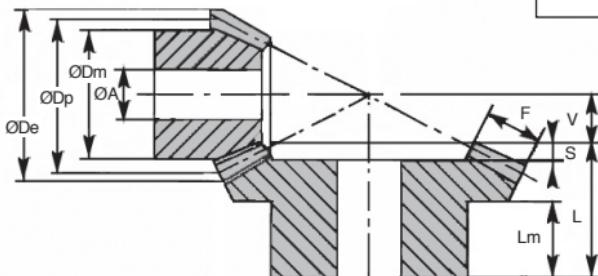
DISCOUNTS

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	ØA	V	S	L _m	Stock*	Price each 1 to 5
DB1.5-16/ECO	16	1,5	24	26,68	8	19,5	21	10	16,33	1,5	11,3	✓	15,66 €
DB1.5-32/ECO	32	1,5	48	49,34	8	20,0	32	12	7,45	3,0	10,0	✓	24,86 €
DB2-16/ECO	16	2	32	35,57	10	23,0	26	10	22,41	2,0	11,9	✓	19,85 €
DB2-32/ECO	32	2	64	65,78	10	25,0	40	12	10,21	4,0	10,0	✓	45,61 €
DB2.5-16/ECO	16	2,5	40	44,47	12	27,5	34	12	28,38	2,5	14,4	-	27,92 €
DB2.5-32/ECO	32	2,5	80	82,23	12	25,0	50	15	12,97	5,0	10,0	-	51,19 €
DB3-16/ECO	16	3	48	53,36	15	28,0	40	15	33,64	3,0	11,6	-	34,24 €
DB3-32/ECO	32	3	96	98,68	15	30,0	60	15	15,31	6,0	10,0	-	64,58 €
DB3.5-16/ECO	16	3,5	56	62,26	18	33,5	48	15	38,83	3,5	14,4	-	37,53 €
DB3.5-32/ECO	32	3,5	112	115,12	18	31,0	70	20	17,77	7,0	10,0	-	76,45 €
DB4-16/ECO	16	4	64	71,15	20	36,0	50	15	44,81	4,0	13,4	-	46,82 €
DB4-32/ECO	32	4	128	131,57	20	32,0	80	20	20,42	8,0,	10,0	-	80,41 €
DB4.5-16/ECO	16	4,5	72	80,05	22	39,5	60	20	51,00	4,5	15,4	-	51,04 €
DB4.5-32/ECO	32	4,5	144	148,00	22	36,0	90	20	23,21	9,0	10,0	-	105,90 €
DB5-16/ECO	16	5	80	88,94	25	50,0	60	20	56,06	5,0	21,1	-	55,72 €
DB5-32/ECO	32	5	160	164,46	25	38,0	100	20	25,52	10,0	10,0	-	127,46 €

*Depending of availability - Dimensions in mm

- 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	ØA	V	S	L _m	Price each 1 to 5
TB1.5-16/ECO	16	1,5	24	26,82	12	24,0	20	10	24,42	1,0	11,7	17,42 €
TB1.5-48/ECO	48	1,5	72	72,95	12	20,0	50	12	7,27	3,0	10,0	53,63 €
TB2-16/ECO	16	2	32	35,80	15	28,5	26	12	33,26	1,5	12,4	20,63 €
TB2-48/ECO	48	2	96	97,26	15	23,0	60	15	9,90	4,0	10,0	67,28 €
TB2.5-16/ECO	16	2,5	40	44,74	18	32,0	32	12	42,41	1,5	13,0	31,07 €
TB2.5-48/ECO	48	2,5	120	121,58	18	26,0	70	20	12,60	5,0	10,0	78,46 €
TB3-16/ECO	16	3	48	53,69	18	32,0	40	15	54,25	2,0	12,1	34,98 €
TB3-48/ECO	48	3	144	145,90	18	29,0	80	20	16,20	6,0	10,0	94,79 €
TB3.5-16/ECO	16	3,5	56	62,64	22	38,0	48	15	62,29	2,5	15,0	44,47 €
TB3.5-48/ECO	48	3,5	168	170,21	22	31,0	90	20	18,48	7,0	10,0	125,50 €
TB4-16/ECO	16	4	64	71,59	25	41,5	55	20	71,23	3,0	15,2	50,08 €
TB4-48/ECO	48	4	192	194,53	25	33,0	100	20	21,20	8,0	10,0	209,18 €
TB4.5-16/ECO	16	4,5	72	80,53	28	53,0	60	20	80,27	3,0	23,4	57,40 €
TB4.5-48/ECO	48	4,5	216	218,84	28	49,0	100	20	23,93	9,0	18,0	379,16 €
TB5-16/ECO	16	5	80	89,48	35	60,0	60	20	85,61	3,0	22,5	62,85 €
TB5-48/ECO	48	5	240	243,16	35	50,0	150	20	25,45	10,0	20,0	451,05 €

Dimensions in mm

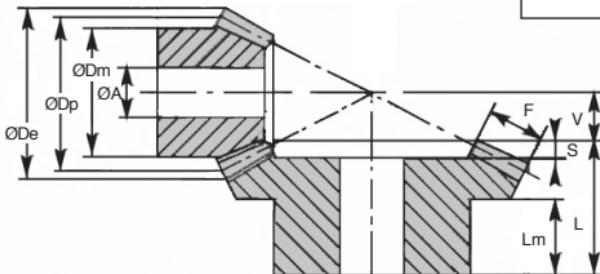
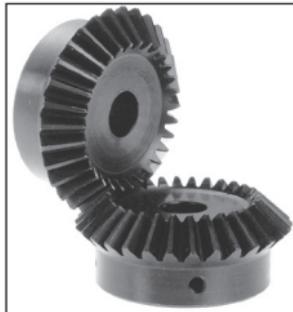
Steel bevel gear

Ste  Eco 

RATIO
4:1

Steel C43

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



DISCOUNTS

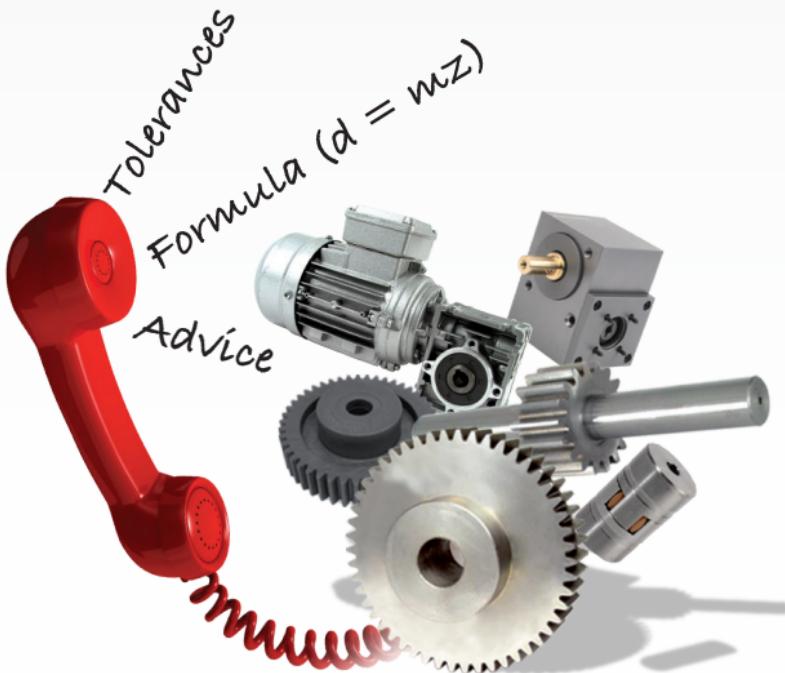
Qty.	1+	6+	20+	40+	60+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Teeth Z	mod	$\bar{\Omega}_{D_p}$	$\bar{\Omega}_{D_e}$	F	L	$\bar{\Omega}_{D_m}$	$\bar{\Omega}_A$	V	S	Lm	Price each 1 to 5
FB1.5-16/ECO	16	1,5	24	26,91	12	25,0	18	10	36,02	1,0	12,2	17,07 €
FB1.5-64/ECO	64		96	96,73	12	22,0	70	15	8,53	3,0	10,0	75,17 €
FB2-16/ECO	16	2	32	35,88	15	24,0	25	12	49,07	1,0	8,2	21,07 €
FB2-64/ECO	64		128	128,97	15	24,0	80	20	11,79	4,0	10,0	101,93 €
FB2.5-16/ECO	16	2,5	40	44,85	18	30,5	30	12	61,99	1,5	11,7	32,16 €
FB2.5-64/ECO	64		160	161,21	18	29,0	90	20	13,77	5,0	10,0	121,58 €
FB3-16/ECO	16	3	48	53,82	22	34,0	40	15	74,05	2,0	11,0	39,26 €
FB3-64/ECO	64		192	193,45	22	30,0	100	20	16,41	6,0	10,0	235,36 €
FB3.5-16/ECO	16	3,5	56	62,80	25	45,0	48	15	87,13	2,0	19,1	45,72 €
FB3.5-64/ECO	64		224	225,70	25	50,0	100	20	19,32	7,0	22,0	360,85 €
FB4-16/ECO	16	4	64	71,76	30	50,0	50	20	98,21	2,0	18,5	53,63 €
FB4-64/ECO	64		256	257,94	30	50,0	120	20	21,72	8,0	20,0	439,29 €
FB4.5-16/ECO	16	4,5	72	80,73	32	53,0	55	20	112,08	2,5	19,0	59,25 €
FB4.5-64/ECO	64		288	290,18	32	53,0	130	20	24,83	9,0	23,0	683,81 €
FB5-16/ECO	16		80	89,70	35	58,0	60	20	125,06	2,5	20,6	67,28 €
FB5-64/ECO	64	5	320	322,42	35	58,0	150	20	27,65	10,0	25,0	847,25 €

Dimensions in mm

Technical support

For all your questions
and requests for quotation



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Steel bevel gear

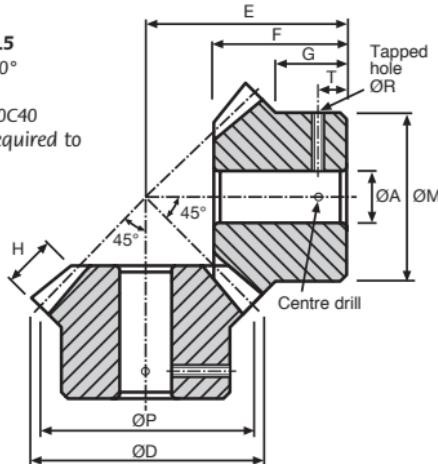


RATIO

1:1

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

Steel 60C40



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	

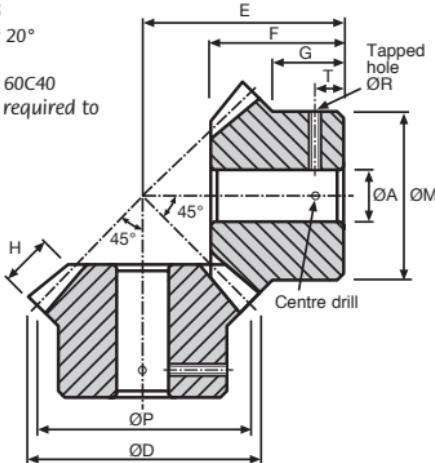
Part number	Teeth Z	Screw										Stock*	Price each 1 to 5	
		MOD	ØP	E	ØD	ØA	ØM	F	G	H	R	T		
B0.8-16	16		12,80	20	13,93	6	10	16,00	12,2	3,00	M3	7	✓	23,57 €
B0.8-20	20	0,8	16,00	20	17,13	6	13	14,76	10,5	3,40	M3	6	✓	24,65 €
B0.8-25	25		20,00	20	21,13	6	16	13,35	8,0	4,24	M3	5	-	25,57 €
B0.8-30	30		24,00	20	25,13	6	20	11,96	6,0	5,09	M3	4	-	27,64 €
B1-20	20		20,00	25	21,41	8	18	18,45	14,0	4,24	M4	8	✓	28,15 €
B1-25	25	1,0	25,00	25	26,41	8	22	16,68	10,8	5,28	M4	6	✓	30,04 €
B1-30	30		30,00	25	31,41	8	26	14,95	8,0	6,35	M4	5	✓	32,03 €
B1.25-20	20		25,00	23	26,70	8	22	15,27	9,0	6,00	M4	3	✓	29,56 €
B1.25-25	25	1,25	31,25	28	33,00	8	25	17,87	9,2	7,00	M4	3	✓	33,28 €
B1.25-30	30		37,50	36	39,30	10	30	23,47	13,5	8,00	M4	5	-	33,53 €
B1.5-20	20		30,00	35	32,12	10	26	25,17	18,0	6,35	M4	10	✓	30,50 €
B1.5-25	25	1,5	37,50	35	39,62	10	32	22,57	13,5	8,00	M4	7	-	35,42 €
B1.5-30	30		45,00	35	47,12	10	38	19,92	9,0	9,50	M4	5	✓	37,56 €
B2-20	20		40,00	42	43,00	12	34	29,00	19,0	8,50	M5	10	✓	35,72 €
B2-25	25	2,0	50,00	42	52,83	12	40	25,52	12,0	10,60	M5	7	✓	39,87 €
B2-30	30		60,00	42	63,00	12	50	21,87	7,0	12,70	M5	4	✓	44,74 €
B2.5-16	16		40,00	50	43,50	15	35	36,80	27,5	8,00	M5	15	✓	36,52 €
B2.5-20	20	2,5	50,00	50	54,00	15	40	33,50	20,0	10,60	M5	12	✓	45,51 €
B2.5-25	25		62,50	50	66,00	15	55	30,50	15,0	15,00	M5	8	✓	51,73 €

*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.

TOQUE 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	

Part number	Teeth Z	MOD	Screw								Price each		
			ØP	E	ØD	ØA	ØM	F	G	H	R	T	
B3-16	16		48	44,0	52,24	15	40,0	29,08	16,00	11	M5	8	61,37 €
B3-19	19		57	49,0	61,24	16	50,0	31,01	17,02	13	M5	9	77,84 €
B3-26	26		78	65,0	82,24	18	64,0	40,03	19,03	18	M6	10	104,39 €
B3-30	30		90	68,5	94,24	20	76,0	39,65	16,51	21	M6	8	112,89 €
B4-16	16		64	55,5	69,66	15	50,0	35,81	16,49	15	M5	8	87,78 €
B4-19	19		76	65,0	81,66	18	62,5	41,43	20,24	18	M6	10	109,47 €
B4-26	26		104	82,0	109,66	22	85,0	48,69	20,50	24	M6	10	123,88 €
B4-30	30		120	90,0	125,66	25	102,0	51,51	21,00	28	M8	11	135,17 €
B5-16	16		80	70,0	87,10	18	60,0	46,13	20,00	20	M8	11	142,24 €
B5-20	20		100	80,0	107,10	20	80,0	49,04	21,50	24	M8	12	151,19 €
B5-25	25		125	100,0	132,10	25	80,0	59,47	24,00	28	M10	14	160,06 €
B5-30	30		150	114,0	157,10	30	100,0	65,87	26,00	35	M10	15	168,29 €
B6-16	16		96	80,0	104,52	25	75,0	50,10	22,00	22	M10	12	174,72 €
B6-20	20		120	90,0	128,52	30	96,0	52,32	18,50	28	M10	12	182,73 €
B6-25	25		150	115,0	158,52	35	100,0	67,29	24,00	35	M10	14	190,86 €
B6-30	30		180	130,0	188,52	35	120,0	72,24	28,00	42	M10	16	202,78 €

Dimensions in mm

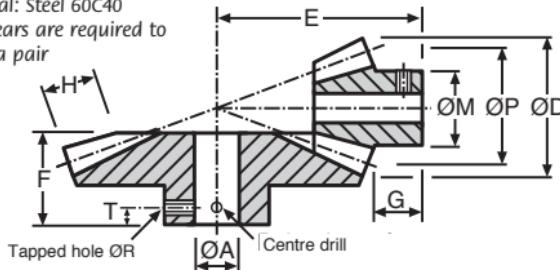
Steel bevel gear



**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

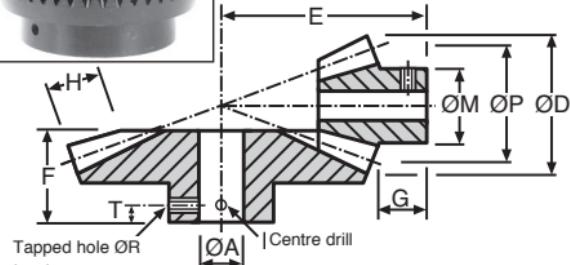
Part number	Teeth Z	Mod	Stock*									
			ØP	E	ØD	ØA	ØM	F	G	H	ØR	T
DB0.8-15	15	0,8	12,00	20,0	13,93	6	10	11,90	7,50	4,02	M3	3,5
DB0.8-30	30		24,00	14,0	24,64	8	20	10,08	5,50	4,02	M3	3,5
DB1-15	15	1,0	15,00	24,0	17,42	8	14	13,87	8,76	5,03	M4	4,0
DB1-30	30		30,00	18,0	30,58	10	25	13,11	7,00	5,03	M4	4,0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

*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

Part number	Z	Mod	Teeth										Price each	
			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	22,35 €	
TB0.8-45	45		36,0	20	36,30	8	28	16,07	8,00	5,69	M3	4,0	33,67 €	
TB1-15	15	1,0	15,0	32	17,67	8	13	16,54	9,18	7,12	M4	4,5	24,31 €	
TB1-45	45		45,0	24	45,37	10	40	19,09	10,00	7,12	M4	5,0	36,04 €	
TB1.5-15	15	1,5	22,5	45	26,51	10	18	21,80	10,51	10,67	M4	5,0	24,93 €	
TB1.5-45	45		67,5	32	68,06	15	50	24,63	12,00	10,67	M4	6,0	40,90 €	
TB2-15	15	2,0	30,0	62	35,37	12	24	31,77	16,00	15,00	M5	10,0		
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		90,0	160	106,11	25	72	69,31	22,00	45,00	M10	15,0		
TB6-45	45	6,0	270,0	95	272,22	40	140	66,17	28,00	45,00	M10	15,0		

Dimensions in mm

Steel bevel gear

Ste

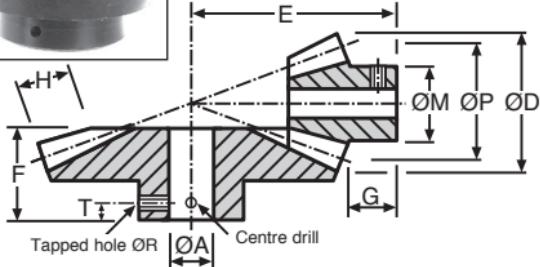
RATIO

4:1

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



Steel 60C40



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	Price each	
													1 to 5	1 to 5
FB0.8-15	15	0,8		12,0	35,0	14,23	6	10	18,07	10,58	7,10	M3	5	23,87 €
FB0.8-60	60			48,0	20,0	48,22	8	30	15,98	8,00	7,10	M3	4	36,27 €
FB1-15	15	1,0		15,0	45,0	17,79	8	13	24,22	14,73	9,28	M4	7	26,69 €
FB1-60	60			60,0	30,0	60,27	10	40	25,08	12,00	9,28	M4	6	38,72 €
FB1.5-15	15	1,5		22,5	60,0	26,69	10	18	28,82	12,08	13,91	M4	6	27,90 €
FB1.5-60	60			90,0	35,0	90,41	15	50	27,61	12,00	13,91	M4	6	43,18 €
FB2-15	15	2,0		30,0	76,1	35,57	12	24	33,05	15,36	17,00	M5	10	
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	44,0	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

On request



BEVEL GEARS

PRINCIPLE

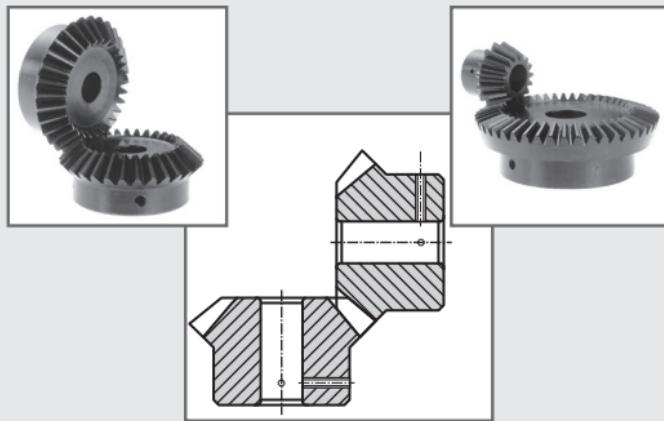
Bevel gears are used to change the direction of transfer in a power transfer system. Unlike straight spur gears, bevel gears with the same module are not interchangeable, a pinion can only be used with the wheel for which it was designed and manufactured

ASSEMBLY

When assembling a pair of gears, the two cones should be mated together. As this can result in axial and 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°.



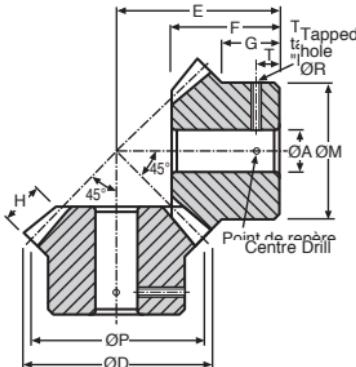
Stainless steel bevel gear



**RATIO
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

Stainless steel 304L



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

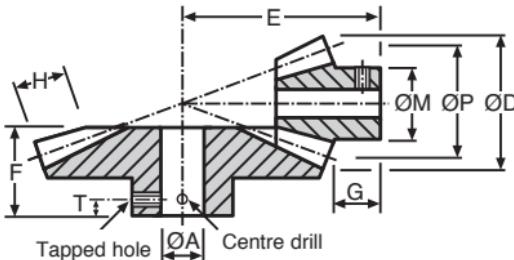
Part number	Z	Module	Teeth										Price each
			ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	
SSB0.8-16	16		12,80	20	13,93	6	10	16,00	12,21	3,00	M3	7,00	39,74 €
SSB0.8-25	25	0,8	20,00	20	21,13	6	16	13,35	8,00	4,24	M3	5,00	43,13 €
SSB0.8-30	30		24,00	20	25,13	6	20	11,96	6,00	5,09	M3	4,00	46,62 €
SSB1-20	20		20,00	25	21,41	8	18	18,45	14,00	4,24	M4	8,00	47,47 €
SSB1-30	30		30,00	25	31,41	8	26	14,95	8,00	6,35	M4	5,00	53,97 €
SSB1.25-20	20	1,25	25,00	23	26,70	8	22	15,27	9,00	6,00	M4	3,50	49,87 €
SSB1.25-30	30		37,50	36	39,30	10	30	23,47	13,50	8,00	M4	5,00	56,50 €
SSB1.5-20	20	1,5	30,00	35	32,12	10	26	25,17	18,00	6,35	M4	10,00	51,48 €
SSB1.5-30	30		45,00	35	47,12	10	38	19,92	9,00	9,50	M4	5,00	63,35 €
SSB2-20	20		40,00	42	43,00	12	34	29,00	19,00	8,50	M5	10,00	60,22 €
SSB2-30	30		60,00	42	63,00	12	50	21,87	7,00	12,70	M5	4,00	75,44 €
SSB2.5-16	16	2,5	40,00	50	43,50	15	35	36,80	27,50	8,00	M5	15,00	61,57 €
SSB2.5-25	25		62,50	50	66,00	15	55	30,50	15,00	15,00	M5	8,00	87,36 €

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

Part number	Teeth								Screw			Price each	
	Z	Module	OP	E	ØD	ØA	ØM	F	G	H	R	T	1 to 5
SSDB0.8-15	15	0,8	12,00	20,00	13,93	6	10	11,90	7,50	4,02	M3	3,50	41,75 €
SSDB0.8-30	30	0,8	24,00	14,00	24,64	8	20	10,08	5,50	4,02	M3	3,50	49,23 €
SSDB1-15	15	1,5	15,00	24,00	17,42	8	14	13,87	8,76	5,03	M4	4,00	47,35 €
SSDB1-30	30	1,5	30,00	18,00	30,58	10	25	13,11	7,00	5,03	M4	4,00	58,22 €
SSDB1.5-15	15	1,5	22,50	35,00	26,12	10	21	19,84	12,13	7,55	M4	5,00	51,54 €
SSDB1.5-30	30	1,5	45,00	27,00	45,87	10	30	19,66	11,00	7,55	M4	5,00	66,17 €
SSDB2-15	15	2	30,00	45,00	34,83	12	28	24,76	14,86	10,06	M5	7,50	57,14 €
SSDB2-30	30	2	60,00	35,00	61,16	12	40	25,21	14,00	10,06	M5	8,00	79,21 €
SSDB2.5-15	15	2,5	37,50	54,00	43,54	15	32	29,51	16,51	13,53	M5	8,00	78,06 €
SSDB2.5-30	30	2,5	75,00	41,50	76,45	15	30	29,31	13,31	13,53	M5	7,00	108,44 €
SSTB0.8-15	15	0,8	12,00	28,00	14,14	6	10	15,63	9,67	5,69	M3	5,00	
SSTB0.8-45	45	0,8	36,00	20,00	36,30	8	28	16,07	8,00	5,69	M3	4,00	
SSTB1-15	15	1,5	15,00	32,00	17,67	8	13	16,54	9,18	7,12	M4	4,50	
SSTB1-45	45	1,5	45,00	24,00	45,37	10	40	19,09	10,00	7,12	M4	5,00	
SSTB1.5-15	15	1,5	22,50	45,00	26,51	10	18	21,80	10,51	10,67	M4	5,00	
SSTB1.5-45	45	1,5	67,50	32,00	68,06	15	50	24,63	12,00	10,67	M4	6,00	
SSFB0.8-15	15	0,8	12,00	35,00	14,23	6	10	18,07	10,58	7,10	M3	5,00	
SSFB0.8-60	60	0,8	48,00	20,00	48,22	8	30	15,98	8,00	7,10	M3	4,00	
SSFB1-15	15	1,5	15,00	45,00	17,79	8	13	24,22	14,73	9,28	M4	7,00	
SSFB1-60	60	1,5	60,00	30,00	60,27	10	40	25,08	12,00	9,28	M4	6,00	
SSFB1.5-15	15	1,5	22,50	60,00	26,69	10	18	28,82	12,08	13,91	M4	6,00	
SSFB1.5-60	60	1,5	60,00	35,00	90,41	15	50	27,61	12,00	13,91	M4	6,00	

Dimensions in mm

Moulded plastic bevel gear



Nylon 6 moulded

RATIO 1:1

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

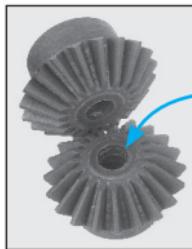
Options

- HPC are unable to modify these parts

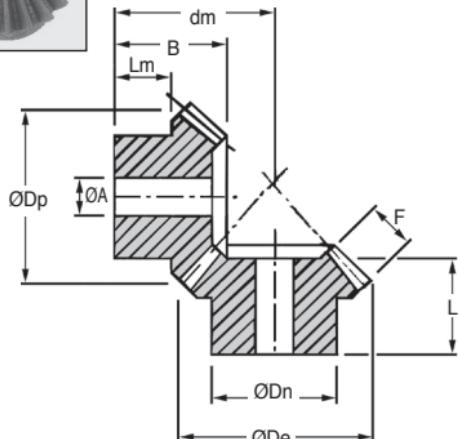
Please refer to the ZDB.. or ZTB.. ranges for parts that can be modified

Info.

- Two identical gears must be ordered to make a pair



ϕA : Pre-bored hole must be finished



Economy range

DISCOUNTS

Qty.	1+	10+	50+	100+	1000+
Disc.	List	-10%	-25%	-35%	On request

Part number	Teeth Z	Price each									
		Module	ϕDe	ϕDp	B	F	ϕDn	ϕA	dm	L	Lm
MEB1-16	16	1,0	17,8	16,0	14,0	4	13	5	18,59	14,0	9,0
MEB1.5-16	16	1,5	25,0	24,0	18,0	6	20	8	25,10	17,0	8,9
MEB1.5-20	20	1,5	32,1	30,0	20,0	8	22	6	28,70	18,0	9,0
MEB1.5-30	30	1,5	47,1	45,0	25,0	10	35	12	39,70	22,5	12,0
MEB2-16	16	2,0	34,8	32,0	20,0	9	25	10	28,80	17,0	9,3
MEB2-20	20	2,0	42,8	40,0	27,0	12	32	8	35,70	22,0	12,0
MEB2-30	30	2,0	62,8	60,0	30,0	16	50	12	47,80	27,0	12,8
MEB2.5-16	16	2,5	43,5	40,0	27,0	10	30	12	37,30	22,0	13,3
MEB2.5-20	20	2,5	53,5	50,0	30,0	12	38	12	45,90	27,0	16,0
MEB2.5-30	30	2,5	78,5	75,0	35,0	18	50	14	59,10	32,0	16,0
MEB3-16	16	3,0	52,2	48,0	30,0	12	38	11	44,20	26,0	16,2
MEB3-20	20	3,0	64,2	60,0	35,0	18	44	14	51,10	31,0	13,6
MEB3-30	30	3,0	94,2	90,0	40,0	22	60	20	68,10	36,0	19,0
MEB3.5-20	20	3,5	74,9	70,0	40,5	22	56	14	58,60	36,0	19,0

Dimensions in mm

Moulded plastic bevel gear

Nyl 

€
Eco 

Nylon 6

RATIO
2:1
3:1

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

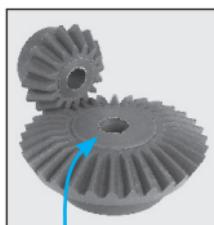
Options

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

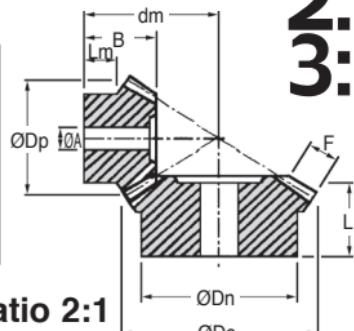
Info.

- Two identical gears must be ordered to make a pair

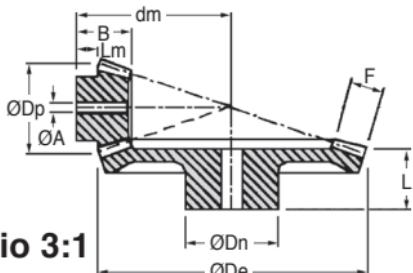
Economy range



ØA: Pre-bored hole must be finished



Ratio 2:1



Ratio 3:1

DISCOUNTS

Qty.	1+	10+	50+	100+	1000+
Disc.	List	-10%	-25%	-35%	On request

Part number	Z	Teeth							Price each			
		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	6,58 €
MDB1.5-32	32	1,5	49,3	48	20,0	8	32	12	27,5	17,5	10,0	12,20 €
MDB2-16	16	2,0	35,6	32	23,0	10	24	10	45,4	21,0	12,2	8,10 €
MDB2-32	32	2,0	65,8	64	25,0	10	40	12	35,2	22,0	10,0	18,08 €
MDB2.5-16	16	2,5	44,4	40	27,5	12	30	12	56,0	25,0	14,4	10,14 €
MDB2.5-32	32	2,5	82,2	80	30,0	12	50	15	43,5	26,5	10,0	23,14 €
MDB3-16	16	3,0	53,4	48	28,0	15	40	14	61,6	25,0	11,6	18,34 €
MDB3-32	32	3,0	98,7	96	33,0	15	60	15	50,4	30,5	15,0	38,36 €
Ratio 3:1												
MTB1.5-16	16	1,5	26,9	24	22,0	12	20	8	46,3	21,0	9,7	8,10 €
MTB1.5-48	48	1,5	72,9	72	21,0	12	42	15	29,2	19,0	12,0	17,37 €
MTB2.5-16	16	2,5	44,7	40	28,0	18	34	14	70,4	26,0	9,2	13,30 €
MTB2.5-48	48	2,5	121,6	120	32,0	18	60	20	44,6	27,0	16,0	26,13 €
MTB3-16	16	3,0	53,7	48	30,0	18	35	10	84,2	28,0	11,2	20,71 €
MTB3-48	48	3,0	145,9	144	38,0	18	50	20	54,1	32,0	19,0	38,36 €

Dimensions in mm

Moulded plastic bevel gear



Nylon 6 moulded

RATIO

1.5:1

4:1

- Module 2 to 3

- Moulded parts

- Material: Nylon 6 reinforced with 30% glass fibre

Options

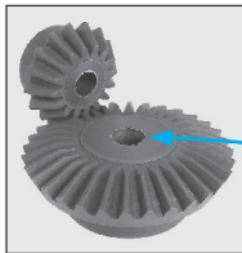
- HPC are unable to modify these parts

- Please refer to the ZDB.. or ZTB.. ranges for parts that can be modified

Info.

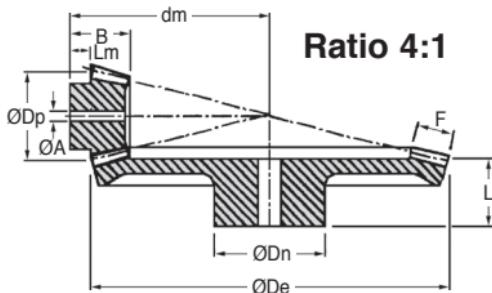
- Two identical gears must be ordered to make a pair

Economy range

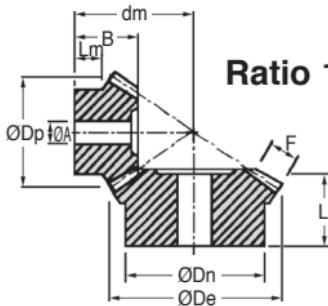


ØA: Pre-bored hole must be finished

Ratio 4:1



Ratio 1.5:1



DISCOUNTS

Qty.	1+	10+	50+	100+	1000+
Disc.	List -10%	-25%	-35%		On request

Part number	Teeth	Module	ØDe	ØDp	B	F	ØDn	ØA	dm	L	Lm	Price each
Ratio 4:1	Z											1 to 9

MFB2.5-16	16	2,5	44,9	40	30,5	18	32	15	92,6	29,0	11,7	12,39 €
MFB2.5-64	64	2,5	161,2	160	35,0	18	80	20	48,8	30,0	16,0	55,24 €
MFB3-16	16	3,0	53,8	48	32,0	20	35	10	108,0	30,0	11,1	23,14 €
MFB3-64	64	3,0	193,5	192	42,0	20	60	19	58,8	36,0	22,0	61,38 €

Ratio 1.5:1

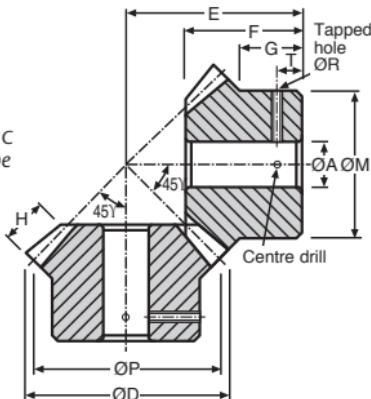
MHB2-20	20	2,0	43,3	40	23,0	10	30	8	43,3	23,0	10,2	12,54 €
MHB2-30	30	2,0	62,2	60	27,0	10	50	11	40,6	27,5	15,2	18,34 €



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											Price each		
Part number	Z	Module	ØP	E	ØD	ØA	ØM	F	G	H	ØR	T	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	8,78 €
ZB0.8-20	20		16,00	20	17,13	6	13	14,76	10,51	3,40	M3	3,40	11,44 €
ZB0.8-25	25		20,00	20	21,13	6	16	13,36	8,00	4,24	M3	4,24	15,88 €
ZB0.8-30	30		24,00	20	25,13	6	20	11,96	6,00	5,09	M3	5,09	17,15 €
ZB1-20	20		20,00	25	21,41	8	18	18,45	14,00	4,24	M4	4,24	17,52 €
ZB1-25	25	1,0	25,00	25	26,41	8	22	16,68	10,80	5,28	M4	5,28	18,67 €
ZB1-30	30		30,00	25	31,41	8	26	14,95	8,00	6,35	M4	6,35	19,91 €
ZB1.25-20	20		25,00	23	26,70	8	22	15,27	9,00	6,00	M4	6,00	17,80 €
ZB1.25-25	25		31,25	28	33,00	8	25	17,87	9,20	7,00	M4	7,00	on request
ZB1.25-30	30	1,25	37,50	36	39,30	10	30	23,47	13,50	8,00	M4	8,00	22,78 €
ZB1.5-20	20		30,00	35	32,12	10	26	25,17	18,00	6,35	M4	6,35	18,94 €
ZB1.5-25	25		37,50	35	39,62	10	32	22,57	13,50	8,00	M4	8,00	22,03 €
ZB1.5-30	30		45,00	35	47,12	10	38	19,92	9,00	9,50	M4	9,50	23,31 €
ZB2-20	20		40,00	42	43,00	12	34	29,00	19,00	8,50	M5	8,50	22,19 €
ZB2-25	25	2,0	50,00	42	52,83	12	40	25,52	12,00	10,60	M5	10,60	24,73 €
ZB2-30	30		60,00	42	63,00	12	50	21,87	7,00	12,70	M5	12,70	27,80 €
ZB2.5-16	16		40,00	50	43,50	15	35	36,80	27,50	8,00	M5	8,00	22,69 €
ZB2.5-20	20		50,00	50	54,00	15	40	33,50	20,00	10,60	M5	10,60	28,30 €
ZB2.5-25	25	2,5	62,50	50	66,00	15	55	30,50	15,00	15,00	M5	15,00	32,20 €

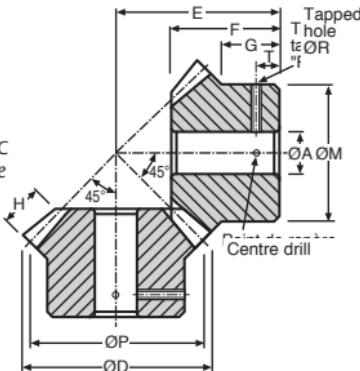
Dimensions in mm

Machined plastic bevel gear Delrin

**RATIO
1:1**

Delrin

- 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	

Part number	Z	Module	Teeth									Price each 1 to 5
			ØP	E	ØD	ØA	ØM	F	G	H	ØR	
ZB3-16	16		48	44,0	52,24	15	40,0	29,08	16,00	11	M5	8
ZB3-19	19		57	49,0	61,24	16	50,0	31,01	17,02	13	M5	9
ZB3-26	26	3	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		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		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	5	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		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

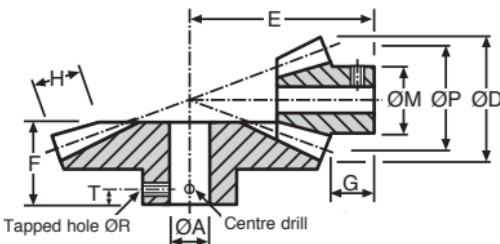
On request

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° 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	

Part number	Teeth	Z	Module	ØP	E	ØD	ØA	ØM	F	G	H	ØR	Price each	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	15,19 €	
ZDB0.8-30	30	0,8	24,00	14,00	24,64	8	20	10,08	5,50	4,02	M3	3,50	17,96 €	
ZDB1-15	15	1	15,00	24,00	17,42	8	14	13,87	8,76	5,03	M4	4,00	17,24 €	
ZDB1-30	30	1	30,00	18,00	30,58	10	25	13,11	7,00	5,03	M4	4,00	21,18 €	
ZDB1.5-15	15	1,5	22,50	35,00	26,12	10	21	19,84	12,13	7,55	M4	5,00	23,90 €	
ZDB1.5-30	30	1,5	45,00	27,00	45,87	10	30	19,66	11,00	7,55	M4	5,00	24,04 €	
ZDB2-15	15	2	30,00	45,00	34,83	12	28	24,76	14,86	10,06	M5	7,50	20,77 €	
ZDB2-30	30	2	60,00	35,00	61,16	12	40	25,21	14,00	10,06	M5	8,00	28,90 €	
ZDB2.5-15	15	2,5	37,50	54,00	43,54	15	32	29,51	16,51	13,53	M5	8,00	28,42 €	
ZDB2.5-30	30	2,5	75,00	41,50	76,45	15	50	29,31	13,31	13,53	M5	7,00	35,94 €	
ZTB0.8-15	15	0,8	12,00	28,00	14,14	6	10	15,63	9,67	5,69	M3	5,00		
ZTB0.8-45	45	0,8	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	1	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	1,5	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	0,8	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	1	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	1,5	60,00	35,00	90,41	15	50	27,61	12,00	13,91	M4	6,00		

Dimensions in mm

**Worms and
wheels**
p.138-p159



**Shaft type or bored
type worm and wheel**

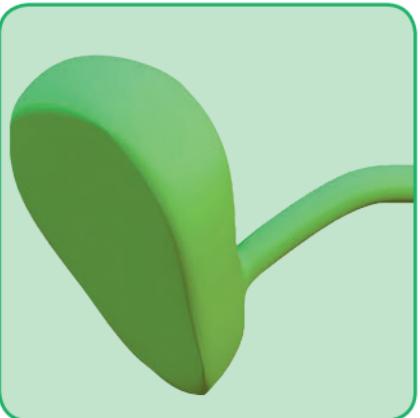
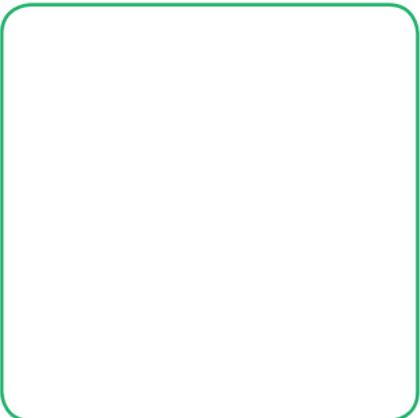


p.138



p.138

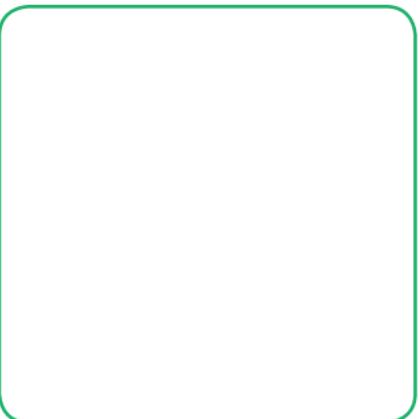




Anti-backlash wormwheel



p.158



Worm and wheel set



MODULE 0.4 Worm in steel or machined plastic

PITCH 1.257mm

- Machined parts

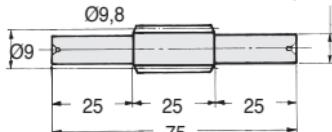
- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: Bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C



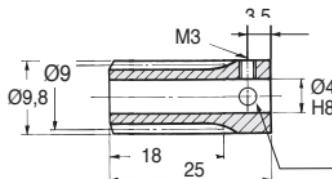
Options

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

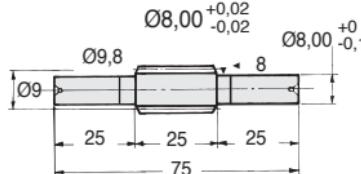
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Steel worm with shaft (SW)



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
Unhardened steel				
W0.4-1	SW0.4-1	1	2°32'	22,53 €
W0.4-2	SW0.4-2	2	5°04'	22,85 €
W0.4-3	SW0.4-3	3	7°35'	24,00 €
W0.4-4	SW0.4-4	4	10°40'	25,84 €
Unhardened steel				
WH0.4-1	SWH0.4-1	1	2°32'	31,31 €
WH0.4-2	SWH0.4-2	2	5°04'	32,47 €
WH0.4-3	SWH0.4-3	3	7°35'	33,58 €
WH0.4-4	SWH0.4-4	4	10°40'	36,69 €
Plastic				
ZW0.4-1	ZSW0.4-1	1	2°32'	15,49 €
ZW0.4-2	ZSW0.4-2	2	5°04'	16,15 €
ZW0.4-3	ZSW0.4-3	3	7°35'	16,89 €
ZW0.4-4	ZSW0.4-4	4	10°40'	18,18 €

Dimensions in mm



Wheel in bronze or machined plastic MODULE 0.4

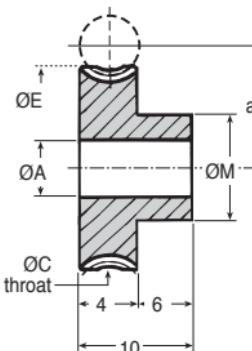
PAS 1.257mm

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

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

Info.

- 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.



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
M0.4-20/1	ZM0.4-20/1	20	8,00	8,50	8,80	9,20	8,80	3	18,50 €	9,30 €	
M0.4-24/1	ZM0.4-24/1	24	9,60	9,30	10,40	10,80	10,40	3	18,98 €	9,52 €	
M0.4-28/1	ZM0.4-28/1	28	11,20	10,10	12,00	12,40	10,40	3	20,27 €	10,16 €	
M0.4-30/1	ZM0.4-30/1	30	12,00	10,50	12,80	13,20	8,00	3	20,70 €	10,37 €	
M0.4-34/1	ZM0.4-34/1	34	13,60	11,30	14,40	14,80	8,00	3	21,14 €	10,64 €	
M0.4-36/1	ZM0.4-36/1	36	14,40	11,70	15,20	15,60	8,00	3	22,03 €	10,99 €	
M0.4-40/1	ZM0.4-40/1	40	16,00	12,50	16,80	17,20	12,00	4	22,79 €	11,44 €	
M0.4-45/1	ZM0.4-45/1	45	18,00	13,50	18,80	19,20	12,00	4	23,09 €	11,62 €	
M0.4-48/1	ZM0.4-48/1	48	19,20	14,10	20,00	20,40	12,00	4	23,09 €	11,68 €	
M0.4-50/1	ZM0.4-50/1	50	20,00	14,50	20,80	21,20	12,00	4	23,09 €	11,80 €	
M0.4-62/1	ZM0.4-62/1	62	24,80	16,90	25,60	26,00	12,00	4	23,24 €	12,25 €	
M0.4-72/1	ZM0.4-72/1	72	28,80	18,90	29,60	30,00	12,00	5	25,02 €	12,54 €	
M0.4-75/1	ZM0.4-75/1	75	30,00	19,50	30,80	31,20	12,00	5	25,14 €	13,90 €	
M0.4-84/1	ZM0.4-84/1	84	33,60	21,30	34,40	34,80	12,00	5	26,45 €	14,69 €	
M0.4-100/1	ZM0.4-100/1	100	40,00	24,50	40,80	41,20	12,00	5	32,55 €	17,42 €	
M0.4-120/1	ZM0.4-120/1	120	48,00	28,50	48,80	49,20	12,00	5	36,70 €	20,18 €	
M0.4-130/1	ZM0.4-130/1	130	52,00	30,50	52,80	53,20	12,00	5	42,14 €	22,00 €	
M0.4-140/1	ZM0.4-140/1	140	56,00	32,50	56,80	57,20	12,00	5	48,02 €	24,20 €	
M0.4-200/1	ZM0.4-200/1	200	80,00	44,50	80,80	81,20	20,00	6	90,82 €	45,70 €	
M0.4-300/1	ZM0.4-300/1	300	120,00	64,50	120,80	121,20	20,00	6	211,62 €	77,10 €	



Wheels available up to this size



M0.4-348 ZM0.4-348 348

Dimensions : contact us

On request On request

Worm and wheel set



MODULE 0.5 Worm in steel or machined plastic

PITCH 1.571mm

- Machined parts

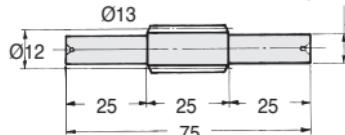
- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C



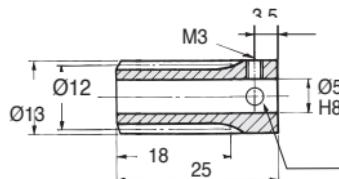
Options

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

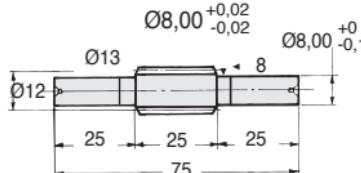
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Steel worm with shaft (SW)



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
Unhardened steel				
W0.5-1	SW0.5-1	1	22,03 €	43,36 €
W0.5-2	SW0.5-2	2	22,85 €	45,30 €
W0.5-3	SW0.5-3	3	24,00 €	47,78 €
W0.5-4	SW0.5-4	4	25,84 €	49,98 €
Hardened steel				
WH0.5-1	SWH0.5-1	1	31,31 €	61,64 €
WH0.5-2	SWH0.5-2	2	32,47 €	64,32 €
WH0.5-3	SWH0.5-3	3	34,13 €	67,90 €
WH0.5-4	SWH0.5-4	4	36,69 €	71,10 €
Plastic				
ZW0.5-1	ZSW0.5-1	1	15,49 €	30,63 €
ZW0.5-2	ZSW0.5-2	2	16,15 €	31,94 €
ZW0.5-3	ZSW0.5-3	3	16,89 €	33,67 €
ZW0.5-4	ZSW0.5-4	4	18,18 €	35,34 €

Dimensions in mm

Wheel in bronze or machined plastic MODULE 0.5

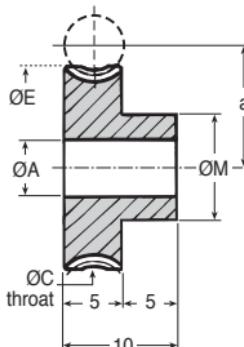
PITCH 1.571mm

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

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

Info.

- 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.

**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
M0.5-12	ZM0.5-12	12	6,00	9,00	7,00	7,50	5,00	3	17,11 €	8,58 €
M0.5-15	ZM0.5-15	15	7,50	9,75	8,50	9,00	6,50	4	18,08 €	9,08 €
M0.5-20	ZM0.5-20	20	10,00	11,00	11,00	11,50	8,50	4	20,00 €	10,05 €
M0.5-25	ZM0.5-25	25	12,50	12,25	13,50	14,00	10,00	4	21,36 €	10,74 €
M0.5-28	ZM0.5-28	28	14,00	13,00	15,00	15,50	10,00	4	21,74 €	10,90 €
M0.5-30	ZM0.5-30	30	15,00	13,50	16,00	16,50	13,00	6	21,81 €	10,93 €
M0.5-32	ZM0.5-32	32	16,00	14,00	17,00	17,50	13,00	6	22,76 €	11,44 €
M0.5-40	ZM0.5-40	40	20,00	16,00	21,00	21,50	13,00	6	26,56 €	13,36 €
M0.5-42	ZM0.5-42	42	21,00	16,50	22,00	22,50	13,00	6	26,97 €	13,52 €
M0.5-48	ZM0.5-48	48	24,00	18,00	25,00	25,50	13,00	6	28,32 €	14,20 €
M0.5-50	ZM0.5-50	50	25,00	18,50	26,00	26,50	13,00	6	28,71 €	14,42 €
M0.5-60	ZM0.5-60	60	30,00	21,00	31,00	31,50	13,00	6	33,84 €	18,75 €
M0.5-78	ZM0.5-78	78	39,00	25,50	40,00	40,50	13,00	6	42,98 €	23,81 €
M0.5-80	ZM0.5-80	80	40,00	26,00	41,00	41,50	13,00	6	44,35 €	27,94 €
M0.5-90	ZM0.5-90	90	45,00	28,50	46,00	46,50	13,00	6	59,52 €	37,46 €
M0.5-100	ZM0.5-100	100	50,00	31,00	51,00	51,50	13,00	6	70,72 €	44,59 €
M0.5-110	ZM0.5-110	110	55,00	33,50	56,00	56,50	13,00	6	73,64 €	46,39 €
M0.5-150	ZM0.5-150	150	75,00	43,50	76,00	76,50	13,00	6	79,37 €	49,91 €
M0.5-160	ZM0.5-160	160	80,00	46,00	81,00	81,50	13,00	6	90,54 €	57,07 €
M0.5-200	ZM0.5-200	200	100,00	56,00	101,00	101,50	13,00	6	171,81 €	62,63 €



Wheels available up to this size



M0.5-278 ZM0.5-278 278

Dimensions : contact us

On request On request

Dimensions in mm

Worm and wheel set



MODULE 0.8 Worm in steel or machined plastic

PITCH 2.513mm

- Machined parts

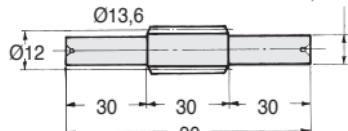
- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C



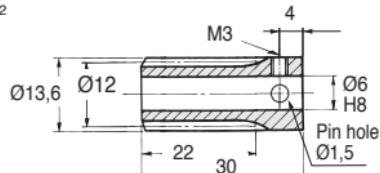
Options

- Left handed lead angle

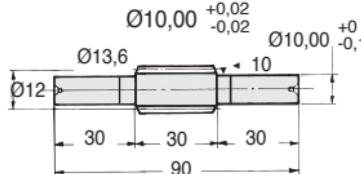
- Wheel can have from 12 to 170 teeth Ø10,00 $\pm 0,02$



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
Unhardened steel				
W0.8-1	SW0.8-1	1	3°48'	25,19 €
W0.8-2	SW0.8-2	2	7°35'	26,30 €
W0.8-3	SW0.8-3	3	11°18'	28,50 €
W0.8-4	SW0.8-4	4	14°55'	30,89 €
Hardened steel				
WH0.8-1	SWH0.8-1	1	3°48'	35,82 €
WH0.8-2	SWH0.8-2	2	7°35'	37,37 €
WH0.8-3	SWH0.8-3	3	11°18'	40,61 €
WH0.8-4	SWH0.8-4	4	14°55'	38,58 €
Plastic				
ZW0.8-1	ZSW0.8-1	1	3°48'	17,75 €
ZW0.8-2	ZSW0.8-2	2	7°35'	18,50 €
ZW0.8-3	ZSW0.8-3	3	11°18'	20,05 €
ZW0.8-4	ZSW0.8-4	4	14°55'	21,74 €

Dimensions in mm

Wheel in bronze or machined plastic MODULE 0.8

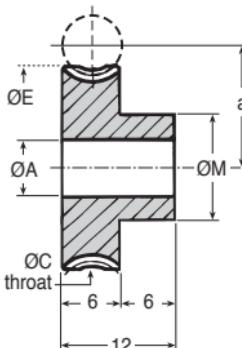
PITCH 2.513mm

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

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

Info.

- 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.



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
M0.8-12	ZM0.8-12	12	9,60	10,80	11,20	12,00	8	5	18,50 €	9,30 €
M0.8-15	ZM0.8-15	15	12,00	12,00	13,60	14,40	10	5	20,16 €	10,10 €
M0.8-18	ZM0.8-18	18	14,40	13,20	16,00	16,80	10	5	22,53 €	11,32 €
M0.8-20	ZM0.8-20	20	16,00	14,00	17,60	18,40	12	5	22,93 €	11,49 €
M0.8-24	ZM0.8-24	24	19,20	15,60	20,80	21,60	12	5	24,85 €	12,43 €
M0.8-25	ZM0.8-25	25	20,00	16,00	21,60	22,40	16	8	26,15 €	13,14 €
M0.8-28	ZM0.8-28	28	22,40	17,20	24,00	24,80	16	8	27,11 €	13,61 €
M0.8-30	ZM0.8-30	30	24,00	18,00	25,60	26,40	16	8	28,19 €	14,18 €
M0.8-32	ZM0.8-32	32	25,60	18,80	27,20	28,00	16	8	29,19 €	14,69 €
M0.8-40	ZM0.8-40	40	32,00	22,00	33,60	34,40	20	8	34,86 €	19,27 €
M0.8-42	ZM0.8-42	42	33,60	22,80	35,20	36,00	20	8	37,35 €	20,67 €
M0.8-48	ZM0.8-48	48	38,40	25,20	40,00	40,80	20	8	43,53 €	24,04 €
M0.8-50	ZM0.8-50	50	40,00	26,00	41,60	42,40	20	8	46,95 €	29,55 €
M0.8-60	ZM0.8-60	60	48,00	30,00	49,60	50,40	20	8	71,84 €	45,24 €
M0.8-78	ZM0.8-78	78	62,40	37,20	64,00	64,80	20	8	77,24 €	48,65 €
M0.8-80	ZM0.8-80	80	64,00	38,00	65,60	66,40	20	8	77,94 €	49,12 €
M0.8-90	ZM0.8-90	90	72,00	42,00	73,60	74,40	20	8	88,76 €	55,92 €
M0.8-100	ZM0.8-100	100	80,00	46,00	81,60	82,40	20	8	97,41 €	61,33 €
M0.8-110	ZM0.8-110	110	88,00	50,00	89,60	90,40	20	8	119,93 €	75,57 €
M0.8-150	ZM0.8-150	150	120,00	66,00	121,60	122,40	20	8	238,07 €	86,74 €



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 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or delrin plastic
 - Delrin: Working temp. -50°C to +80°C

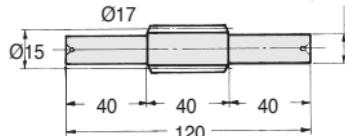


Options

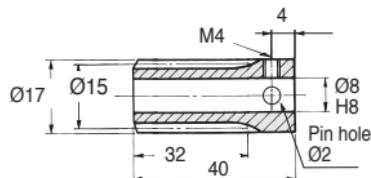
- Left handed lead angle

- **Wheel can have from 12 to 138 teeth**

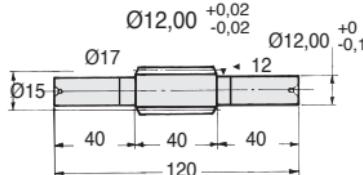
$\varnothing 12,00 \pm 0,02$



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
Unhardened steel				
W1-1	SW1-1	1	3°48'	29,00 € 53,56 €
W1-2	SW1-2	2	7°35'	30,68 € 55,00 €
W1-3	SW1-3	3	11°18'	33,67 € 58,70 €
W1-4	SW1-4	4	14°56'	35,15 € 59,58 €
Hardened steel				
WH1-1	SWH1-1	1	3°48'	41,33 € 76,09 €
WH1-2	SWH1-2	2	7°35'	43,61 € 78,17 €
WH1-3	SWH1-3	3	11°18'	47,82 € 83,37 €
WH1-4	SWH1-4	4	14°56"	49,98 € 84,62 €
Plastic				
ZW1-1	ZSW1-1	1	3°48'	20,51 € 37,81 €
ZW1-2	ZSW1-2	2	7°35'	21,64 € 38,77 €
ZW1-3	ZSW1-3	3	11°18'	23,76 € 41,39 €
ZW1-4	ZSW1-4	4	14°56'	24,76 € 42,02 €

Dimensions in mm

Wheel in bronze or machined plastic MODULE 1.0

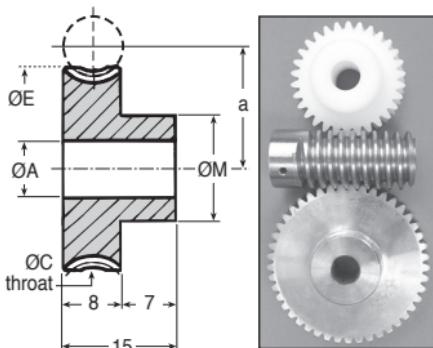
PITCH 3.142mm

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)

Info.

- 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.

**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
M1-12	ZM1-12	12	12	13,50	14	15	14	6	29,19 €	14,69 €
M1-15	ZM1-15	15	15	15,00	17	18	15	6	30,21 €	15,16 €
M1-18	ZM1-18	18	18	16,50	20	21	15	6	31,47 €	15,79 €
M1-20	ZM1-20	20	20	17,50	22	23	15	6	31,78 €	15,96 €
M1-24	ZM1-24	24	24	19,50	26	27	20	8	33,44 €	16,89 €
M1-25	ZM1-25	25	25	20,00	27	28	20	8	34,93 €	17,52 €
M1-28	ZM1-28	28	28	21,50	30	31	20	8	36,22 €	18,18 €
M1-30	ZM1-30	30	30	22,50	32	33	25	8	37,37 €	20,71 €
M1-32	ZM1-32	32	32	23,50	34	35	25	8	39,29 €	21,79 €
M1-40	ZM1-40	40	40	27,50	42	43	25	8	53,04 €	33,37 €
M1-42	ZM1-42	42	42	28,50	44	45	25	8	54,22 €	34,13 €
M1-48	ZM1-48	48	48	31,50	50	51	25	10	65,76 €	41,39 €
M1-50	ZM1-50	50	50	32,50	52	53	25	10	70,78 €	44,59 €
M1-60	ZM1-60	60	60	37,50	62	63	25	10	77,96 €	49,12 €
M1-78	ZM1-78	78	78	46,50	80	81	25	10	101,71 €	64,06 €
M1-80	ZM1-80	80	80	47,50	82	83	25	10	115,71 €	72,88 €
M1-90	ZM1-90	90	90	52,50	92	93	25	10	143,83 €	90,62 €
M1-100	ZM1-100	100	100	57,50	102	103	25	10	225,51 €	82,22 €
M1-110	ZM1-110	110	110	62,50	112	113	30	10	225,51 €	82,22 €

↓ ↓ Wheels available up to this size ↓ ↓

M1-138 ZM1-138 138 Dimensions : contact us On request On request

Dimensions in mm

Worm and wheel set



MODULE 1.25 Worm in steel or machined plastic

PITCH 3.927mm

- **Machined parts**

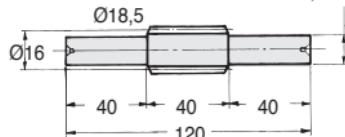
- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C



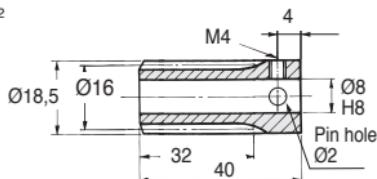
Options

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

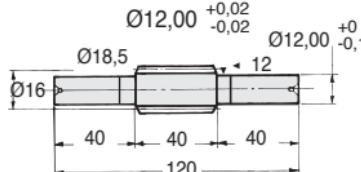
$\varnothing 12,00 \pm 0,02$



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
Unhardened steel				
W1.25-1	SW1.25-1	1	4°28'	29,00 € 53,56 €
W1.25-2	SW1.25-2	2	8°53'	30,68 € 55,00 €
W1.25-3	SW1.25-3	3	13°11'	33,67 € 58,70 €
W1.25-4	SW1.25-4	4	17°21'	35,15 € 59,58 €
Hardened steel				
WH1.25-1	SWH1.25-1	1	4°28'	41,33 € 76,09 €
WH1.25-2	SWH1.25-2	2	8°53'	43,61 € 78,17 €
WH1.25-3	SWH1.25-3	3	13°11'	47,82 € 83,37 €
WH1.25-4	SWH1.25-4	4	17°21'	49,98 € 84,62 €
Plastic				
ZW1.25-1	ZSW1.25-1	1	4°28'	20,51 € 37,71 €
ZW1.25-2	ZSW1.25-2	2	8°53'	21,57 € 38,69 €
ZW1.25-3	ZSW1.25-3	3	13°11'	23,69 € 41,34 €
ZW1.25-4	ZSW1.25-4	4	17°21'	24,73 € 38,13 €

Dimensions in mm

Wheel in bronze or **machined plastic** MODULE 1.25

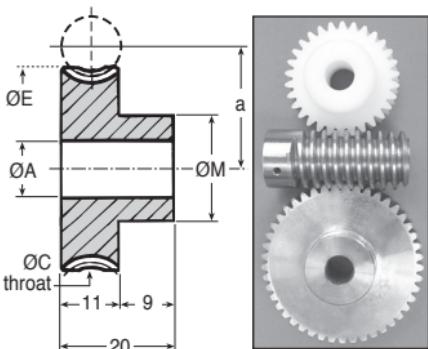
PITCH 3.927mm

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)

Info.

- 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.

**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
M1.25-12 ZM1.25-12	12		15,00	15,50	17,50	18,75	14,00	8	31,71 €	15,96 €
M1.25-15 ZM1.25-15	15		18,75	17,38	21,25	22,50	14,00	8	33,35 €	16,74 €
M1.25-20 ZM1.25-20	20		25,00	20,50	27,50	28,75	20,00	10	32,37 €	18,75 €
M1.25-38 ZM1.25-38	38		47,50	31,75	50,00	51,25	25,00	10	59,11 €	37,20 €
M1.25-45 ZM1.25-45	45		56,25	36,13	58,75	60,00	25,00	10	75,68 €	47,72 €
M1.25-60 ZM1.25-60	60		75,00	45,50	77,50	78,75	32,00	12	125,76 €	79,20 €

↓ ↓ **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**

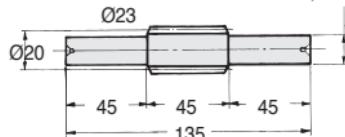
- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C



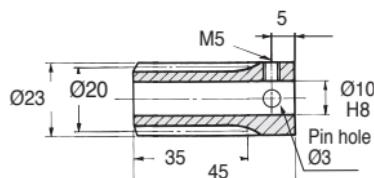
Options

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

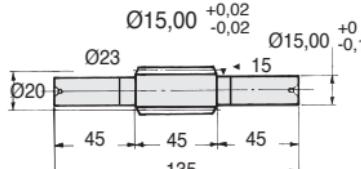
$\varnothing 15,00 \pm 0,02$



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
Unhardened steel				
W1.5-1	SW1.5-1	1	4°17'	33,62 €
W1.5-2	SW1.5-2	2	8°31'	39,05 €
W1.5-3	SW1.5-3	3	12°40'	40,98 €
W1.5-4	SW1.5-4	4	16°42'	44,45 €
Hardened steel				
WH1.5-1	SWH1.5-1	1	4°17'	47,78 €
WH1.5-2	SWH1.5-2	2	8°31'	55,44 €
WH1.5-3	SWH1.5-3	3	12°40'	58,22 €
WH1.5-4	SWH1.5-4	4	16°42'	63,09 €
Plastic				
ZW1.5-1	ZSW1.5-1	1	4°17'	23,68 €
ZW1.5-2	ZSW1.5-2	2	8°31'	27,42 €
ZW1.5-3	ZSW1.5-3	3	12°40'	28,82 €
ZW1.5-4	ZSW1.5-4	4	16°42'	31,25 €

Dimensions in mm

Wheel in bronze or machined plastic MODULE 1.5

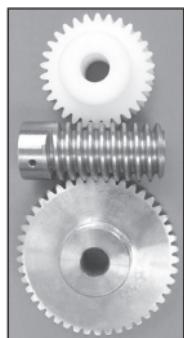
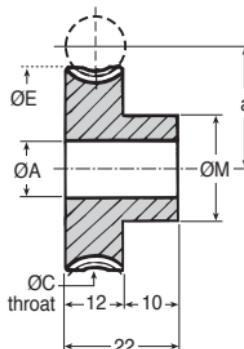
PITCH 4.712mm

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)

Info.

- 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.



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
M1.5-12	ZM1.5-12	12	18,00	19,00	21,00	22,50	15	8	35,00 €	17,61 €
M1.5-15	ZM1.5-15	15	22,50	21,25	25,50	27,00	18	8	43,18 €	21,68 €
M1.5-18	ZM1.5-18	18	27,00	23,50	30,00	31,50	18	8	46,16 €	23,24 €
M1.5-20	ZM1.5-20	20	30,00	25,00	33,00	34,50	20	10	47,62 €	26,31 €
M1.5-22	ZM1.5-22	22	33,00	26,50	36,00	37,50	20	10	49,12 €	27,23 €
M1.5-24	ZM1.5-24	24	36,00	28,00	39,00	40,50	20	10	50,74 €	28,06 €
M1.5-25	ZM1.5-25	25	37,50	28,75	40,50	42,00	25	10	52,27 €	28,98 €
M1.5-28	ZM1.5-28	28	42,00	31,00	45,00	46,50	25	10	54,91 €	34,54 €
M1.5-30	ZM1.5-30	30	45,00	32,50	48,00	49,50	30	15	57,51 €	36,26 €
M1.5-32	ZM1.5-32	32	48,00	34,00	51,00	52,50	30	15	59,46 €	37,46 €
M1.5-34	ZM1.5-34	34	51,00	35,50	54,00	55,50	30	15	66,31 €	41,76 €
M1.5-40	ZM1.5-40	40	60,00	40,00	63,00	64,50	30	15	89,14 €	56,18 €
M1.5-42	ZM1.5-42	42	63,00	41,50	66,00	67,50	30	15	98,54 €	62,06 €
M1.5-48	ZM1.5-48	48	72,00	46,00	75,00	76,50	30	15	125,19 €	78,87 €
M1.5-50	ZM1.5-50	50	75,00	47,50	78,00	79,50	30	15	134,72 €	84,87 €
M1.5-60	ZM1.5-60	60	90,00	55,00	93,00	94,50	30	15	187,91 €	118,34 €
M1.5-78	ZM1.5-78	78	117,00	68,50	120,50	121,50	30	15	370,35 €	134,93 €
M1.5-80	ZM1.5-80	80	120,00	70,00	123,00	124,50	30	15	370,35 €	134,93 €



Wheels available up to this size



M1.5-90 ZM1.5-90

Dimensions: contact us

476,70 € 160,24 €

Dimensions in mm

Worm and wheel set



MODULE 2.0 Worm in steel or machined plastic

PITCH 6.283mm

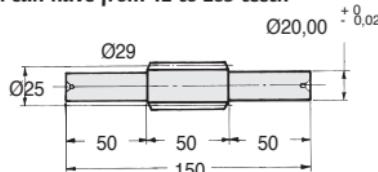
- **Machined parts**

- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C

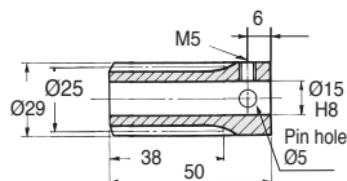


Options

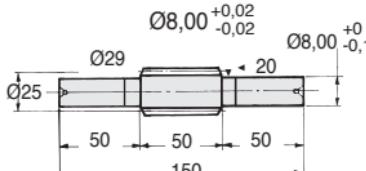
- Left handed lead angle
- Wheel can have from 12 to 285 teeth



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	

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
Unhardened steel				
W2-1	SW2-1	1	4°34'	58,53 €
W2-2	SW2-2	2	9°05'	62,74 €
W2-3	SW2-3	3	13°29'	67,34 €
W2-4	SW2-4	4	17°45'	74,24 €
Hardened steel				
WH2-1	SWH2-1	1	4°34'	83,15 €
WH2-2	SWH2-2	2	9°05'	89,14 €
WH2-3	SWH2-3	3	13°29'	95,63 €
WH2-4	SWH2-4	4	17°45'	105,42 €
Plastic				
ZW2-1	ZSW2-1	1	4°34'	41,13 €
ZW2-2	ZSW2-2	2	9°05'	44,13 €
ZW2-3	ZSW2-3	3	13°29'	47,36 €
ZW2-4	ZSW2-4	4	17°45'	52,22 €

Dimensions in mm

Wheel in bronze or machined plastic MODULE 2.0

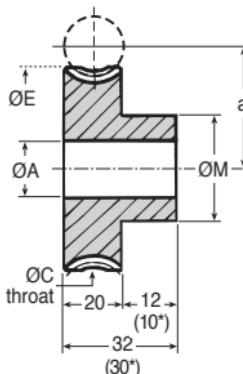
PITCH 6.283mm

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)

Info.

- To order, add the number of starts on the worm to the wheel's part number.
E.g: worm **M2-1**, 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.



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	ØM	ØA	Price each 1 to 5	
									Bronze	Plastic
M2-12	ZM2-12	12	24	24,50	28	30	20	12	72,18 €	36,30 €
M2-15	ZM2-15	15	30	27,50	34	36	25	15	88,02 €	48,77 €
M2-18	ZM2-18	18	36	30,50	40	42	30	15	96,55 €	52,82 €
M2-20	ZM2-20	20	40	32,50	44	46	30	15	100,17 €	63,04 €
M2-22	ZM2-22	22	44	34,50	48	50	30	15	112,11 €	66,84 €
M2-24	ZM2-24	24	48	36,50	52	54	30	15	118,10 €	70,59 €
M2-25	ZM2-25	25	50	37,50	54	56	40	20	121,18 €	74,38 €
M2-28	ZM2-28	28	56	40,50	60	62	40	20	127,19 €	81,19 €
M2-30	ZM2-30	30	60	42,50	64	66	50	20	130,20 €	81,96 €
M2-32	ZM2-32	32	64	44,50	68	70	50	20	135,24 €	84,37 €
M2-34	ZM2-34	34	68	46,50	72	74	50	20	150,65 €	94,95 €
M2-40	ZM2-40	40	80	52,50	84	86	50	20	201,97 €	127,30 €
M2-42	ZM2-42	42	84	54,50	88	90	50	20	220,76 €	139,06 €
M2-45	ZM2-45	45	90	57,50	94	96	50	20	250,48 €	157,88 €
M2-48	ZM2-48	48	96	60,50	100	102	50	20	408,07 €	140,95 €
M2-50	ZM2-50	50	100	62,50	104	106	50	20	408,07 €	140,95 €
M2-60	ZM2-60	60	120	72,50	124	126	50	20	502,63 €	173,49 €
M2-65	ZM2-65	65	130	77,50	134	136	50	20	On request 206,02 €	
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

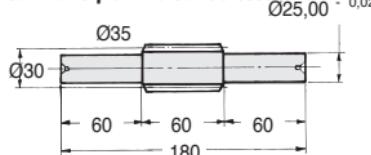
- **Machined parts**

- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C

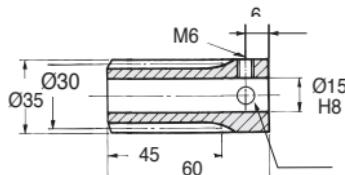


Options

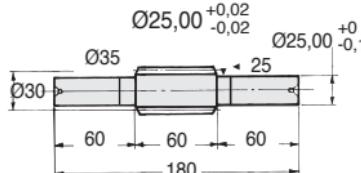
- Left handed lead angle
- **Wheel can have from 15 to 230 teeth**



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
Unhardened steel				
W2.5-1	SW2.5-1	1	4°34'	88,24 € 129,71 €
W2.5-2	SW2.5-2	2	9°50'	94,18 € 135,17 €
W2.5-3	SW2.5-3	3	13°29'	98,00 € 140,47 €
W2.5-4	SW2.5-4	4	17°45'	101,34 € 146,92 €
Hardened steel				
WH2.5-1	SWH2.5-1	1	4°34'	119,28 € 187,18 €
WH2.5-2	SWH2.5-2	2	9°50'	126,24 € 193,76 €
WH2.5-3	SWH2.5-3	3	13°29'	128,16 € 197,92 €
WH2.5-4	SWH2.5-4	4	17°45'	131,56 € 202,73 €
Plastic				
ZW2.5-1	ZSW2.5-1	1	4°34'	58,28 € 88,02 €
ZW2.5-2	ZSW2.5-2	2	9°50'	62,48 € 91,92 €
ZW2.5-3	ZSW2.5-3	3	13°29'	65,25 € 95,70 €
ZW2.5-4	ZSW2.5-4	4	17°45'	67,61 € 100,35 €

Dimensions in mm

Wheel in bronze or **machined plastic** MODULE 2.5

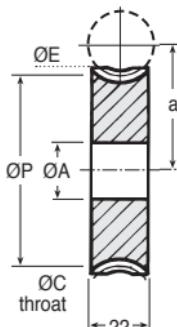
PITCH 7.854mm

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)

Info.

- 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.

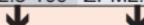
**BRONZE DISCOUNTS**

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	68,06 €	48,97 €		
PM2.5-20 ZPM2.5-20	20	50,00	40,00	55,00	57,50	20	83,42 €	60,02 €		
PM2.5-25 ZPM2.5-25	25	62,50	46,25	67,50	70,00	20	92,91 €	66,84 €		
PM2.5-30 ZPM2.5-30	30	75,00	52,50	80,00	82,50	20	97,03 €	69,79 €		
PM2.5-40 ZPM2.5-40	40	100,00	65,00	105,00	107,50	20	300,68 €	109,62 €		
PM2.5-50 ZPM2.5-50	50	125,00	77,50	130,00	132,50	20	476,70 €	160,24 €		
PM2.5-55 ZPM2.5-55	55	137,50	83,75	142,50	145,00	20	572,04 €	197,34 €		
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

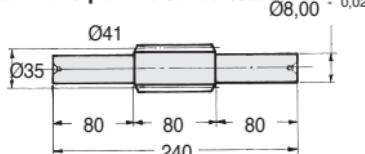
- **Machined parts**

- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C

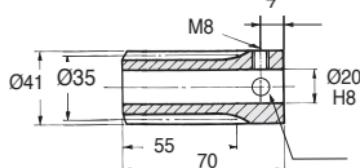


Options

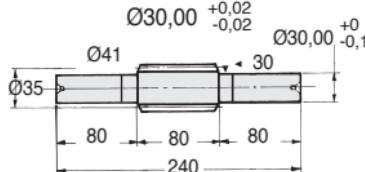
- Left handed lead angle
- **Wheel can have from 15 to 285 teeth**



Steel worm with shaft (SW)



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
Unhardened steel				
W3-1	SW3-1	1	4°54'	105,31 €
W3-2	SW3-2	2	9°44'	108,79 €
W3-3	SW3-3	3	14°25'	112,02 €
W3-4	SW3-4	4	18°55'	116,44 €
Hardened steel				
WH3-1	SWH3-1	1	4°54'	135,17 €
WH3-2	SWH3-2	2	9°44'	138,76 €
WH3-3	SWH3-3	3	14°25'	145,73 €
WH3-4	SWH3-4	4	18°55'	151,57 €
Plastic				
ZW3-1	ZSW3-1	1	4°54'	83,42 €
ZW3-2	ZSW3-2	2	9°44'	85,85 €
ZW3-3	ZSW3-3	3	14°25'	88,20 €
ZW3-4	ZSW3-4	4	18°55'	91,37 €

Dimensions in mm

Wheel in bronze or **machined plastic** MODULE 3.0

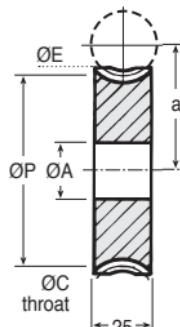
PITCH 9.425mm

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)

Info.

- 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.

**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
PM3-15	ZPM3-15	15	45	40,00	51	54	25	72,88 €	52,42 €		
PM3-20	ZPM3-20	20	60	47,50	66	69	25	92,11 €	66,27 €		
PM3-25	ZPM3-25	25	75	55,00	81	84	25	110,90 €	79,78 €		
PM3-30	ZPM3-30	30	90	62,50	96	99	25	159,74 €	114,96 €		
PM3-40	ZPM3-40	40	120	77,50	126	129	25	410,04 €	149,38 €		
PM3-50	ZPM3-50	50	150	92,50	156	159	25	On request	265,18 €		
PM3-55	ZPM3-55	55	165	100,00	171	174	25	On request	308,13 €		

↓ ↓ Wheels available up to this size ↓ ↓

PM3-285	ZPM3-285	285	Dimensions: contact us	On request	On request
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Dimensions in mm

Worm and wheel set



MODULE 4.0 Worm in steel or machined plastic

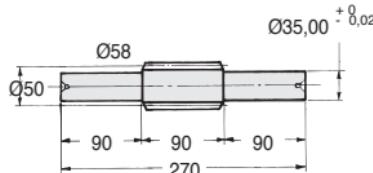
PITCH 12.566mm

- Machined parts

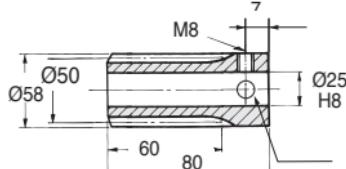
- Pressure angle 20°
- Right handed lead angle
- Materials:
 - Worm: Steel 13MF4 or Delrin plastic
 - Wheel: bronze CuAl10NiFe4 or Delrin plastic
 - Delrin: Working temp. -50°C to +80°C

Options

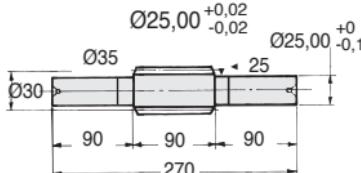
- Left handed lead angle
- Wheel can have from 15 to 140 teeth



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
Unhardened steel				
W4-1	SW4-1	1	4°34'	128,16 €
W4-2	SW4-2	2	9°50'	134,72 €
W4-3	SW4-3	3	13°30'	141,69 €
W4-4	SW4-4	4	17°45'	150,54 €
Hardened steel				
WH4-1	SWH4-1	1	4°34'	160,46 €
WH4-2	SWH4-2	2	9°50'	169,33 €
WH4-3	SWH4-3	3	13°30'	175,11 €
WH4-4	SWH4-4	4	17°45'	186,16 €
Plastic				
ZW4-1	ZSW4-1	1	4°34'	86,91 €
ZW4-2	ZSW4-2	2	9°50'	102,29 €
ZW4-3	ZSW4-3	3	13°30'	96,67 €
ZW4-4	ZSW4-4	4	17°45'	102,89 €

Dimensions in mm

Wheel in bronze or **machined** plastic MODULE 4.0

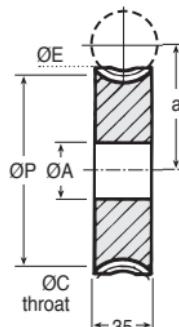
PITCH 12.566mm

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

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

Info.

- 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.

**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							Price each 1 to 5	
	Bronze	Plastic	ØP	Centres	ØC	ØE	ØA	Bronze	Plastic
PM4-15 ZPM4-15	15	60	55	68	72	25	135,53 €	97,59 €	
PM4-20 ZPM4-20	20	80	65	88	92	25	157,73 €	113,55 €	
PM4-25 ZPM4-25	25	100	75	108	112	35	440,29 €	160,54 €	
PM4-30 ZPM4-30	30	120	85	128	132	35	698,03 €	234,64 €	
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
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Dimensions in mm

Anti-backlash wormwheel



MODULE 0.5

TORQUE INDICATION

For 50 teeth at 1000 rpm

With a standard worm

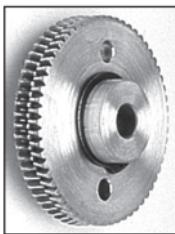
Torque (Nm)

0.10

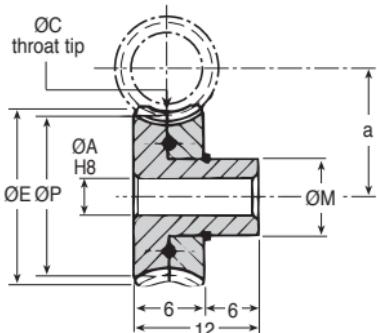
Power (kW)

0.0002

- 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



Bronze



Options

- Alternative number of teeth
- Alternative modules (>2)

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	63,71 €
ABM0.5-52	52	26,00	19,00	27,00	27,50	13	6	64,67 €
ABM0.5-55	55	27,50	19,75	28,50	29,00	13	6	65,72 €
ABM0.5-58	58	29,00	20,50	30,00	30,50	13	6	66,66 €
ABM0.5-60	60	30,00	21,00	31,00	31,50	13	6	67,73 €
ABM0.5-62	62	31,00	21,50	32,00	32,50	13	6	68,69 €
ABM0.5-65	65	32,50	22,25	33,50	34,00	13	6	69,76 €
ABM0.5-68	68	34,00	23,00	35,00	35,50	13	6	70,58 €
ABM0.5-70	70	35,00	23,50	36,00	36,50	13	6	72,10 €
ABM0.5-72	72	36,00	24,00	37,00	37,50	13	6	73,66 €
ABM0.5-75	75	37,50	24,75	38,50	39,00	13	6	75,17 €
ABM0.5-78	78	39,00	25,50	40,00	40,50	13	6	76,72 €
ABM0.5-80	80	40,00	26,00	41,00	41,50	13	6	78,30 €
ABM0.5-82	82	41,00	26,50	42,00	42,50	13	6	79,36 €
ABM0.5-85	85	42,50	27,25	43,50	44,00	13	6	80,47 €
ABM0.5-88	88	44,00	28,00	45,00	45,50	13	6	81,48 €
ABM0.5-90	90	45,00	28,50	46,00	46,50	13	6	82,57 €
ABM0.5-92	92	46,00	29,00	47,00	47,50	13	6	83,57 €
ABM0.5-95	95	47,50	29,75	48,50	49,00	13	6	84,65 €
ABM0.5-96	96	48,00	30,00	49,00	49,50	13	6	85,66 €
ABM0.5-98	98	49,00	30,50	50,00	50,50	13	6	86,74 €
ABM0.5-100	100	50,00	31,00	51,00	51,50	13	6	96,85 €
ABM0.5-110	110	55,00	33,50	56,00	56,50	13	6	106,95 €
ABM0.5-120	120	60,00	36,00	61,00	61,50	13	6	117,04 €
ABM0.5-140	140	70,00	41,00	71,00	71,50	13	6	127,10 €
ABM0.5-150	150	75,00	43,50	76,00	76,50	13	6	134,19 €
ABM0.5-160	160	80,00	46,00	81,00	81,50	13	6	141,24 €

Dimensions in mm

Bronze

MODULE

1.0

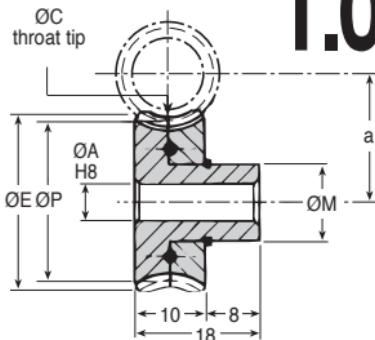
TORQUE INDICATION

For 50 teeth at 1000 rpm

With a standard worm

Torque (Nm)	0.584
Power (kW)	0.0012

- 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)

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	124,35 €
ABM1-50	50	50,00	32,50	52,00	53,00	25	10	129,08 €
ABM1-52	52	52,00	33,50	54,00	55,00	25	10	133,83 €
ABM1-54	54	54,00	34,50	56,00	57,00	25	10	138,52 €
ABM1-55	55	55,00	35,00	57,00	58,00	25	10	143,26 €
ABM1-58	58	58,00	36,50	60,00	61,00	25	10	148,01 €
ABM1-60	60	60,00	37,50	62,00	63,00	25	10	152,74 €
ABM1-62	62	62,00	38,50	64,00	65,00	25	10	158,61 €
ABM1-64	64	64,00	39,50	66,00	67,00	25	10	164,58 €
ABM1-65	65	65,00	40,00	67,00	68,00	25	10	170,47 €
ABM1-68	68	68,00	41,50	70,00	71,00	25	10	176,38 €
ABM1-70	70	70,00	42,50	72,00	73,00	25	10	182,31 €
ABM1-72	72	72,00	43,50	74,00	75,00	25	10	188,09 €
ABM1-75	75	75,00	45,00	77,00	78,00	25	10	193,67 €
ABM1-78	78	78,00	46,50	80,00	81,00	25	10	199,26 €
ABM1-80	80	80,00	47,50	82,00	83,00	25	10	204,85 €
ABM1-82	82	82,00	48,50	84,00	85,00	25	10	210,47 €
ABM1-85	85	85,00	50,00	87,00	88,00	25	10	215,98 €
ABM1-88	88	88,00	51,50	90,00	91,00	25	10	221,64 €
ABM1-90	90	90,00	52,50	92,00	93,00	25	10	227,08 €
ABM1-94	94	94,00	54,50	96,00	97,00	25	10	237,85 €
ABM1-96	96	96,00	55,50	98,00	99,00	25	10	248,57 €
ABM1-100	100	100,00	57,50	102,00	103,00	25	10	259,35 €
ABM1-110	110	110,00	62,50	112,00	113,00	30	10	324,79 €
ABM1-120	120	120,00	67,50	122,00	123,00	30	10	390,24 €

Dimensions in mm

Miscellaneous
gears
p.162-p.181

Double spur
gear



p.162

Anti-backlash
spur gear



p.166

Pinion shaft



p.168

Internal gear



p.172

Double spur gear



MODULE Stainless steel (303) Z10CNF18.09

0.4



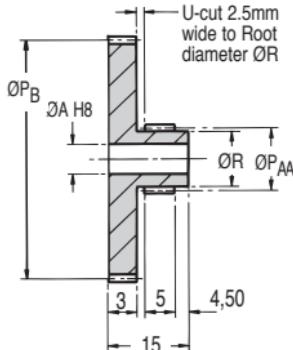
- Pressure angle 20°
- Material: Stainless steel (303)
Z10CNF18.09
- U shaped groove between the two sets of teeth

Options

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



stainless steel



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	35,55 €
DG0.4-16/48	16	6,80	48	19,20	3,00	5,13	37,68 €
DG0.4-16/80	16	6,80	80	32,00	3,00	5,13	39,18 €
DG0.4-20/30	20	8,00	30	12,00	4,00	6,43	37,68 €
Gears available up to this size							
DG0.4-30/150	30	12,00	150	60,00	5,00	10,75	On request

Dimensions in mm

Steel 34C10

MODULE

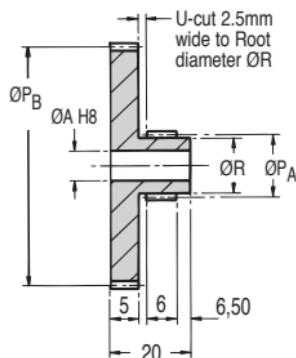
0.5



- Pressure angle 20°
- Material: Steel 34C10
- 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
DG0.5-16/48	16	8.50	48	24.00	4.00	6.45	43,08 €
DG0.5-24/60	24	12.00	60	30.00	6.00	10,45	43,62 €
↓ Gears available up to this size ↓							
DG0.5-24/144	24	12.00	144	72.00	6.00	10,45	On request

Dimensions in mm

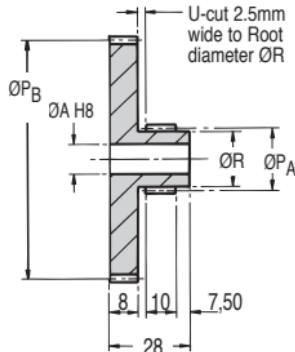
Double spur gear

**MODULE****Steel 34C10****1.0**

- Pressure angle 20°
- Material: Steel 34C10
- 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	45,36 €
DG1-15/45	15	16,00	45	45,00	8,00	12,05	47,46 €
DG1-15/60	15	16,00	60	60,00	8,00	12,05	49,38 €
DG1-15/70	15	16,00	70	70,00	8,00	12,05	51,03 €
↓ Gears available up to this size ↓							
DG1-20/70	20	20,00	70	70,00	10,00	17,05	on request

Dimensions in mm

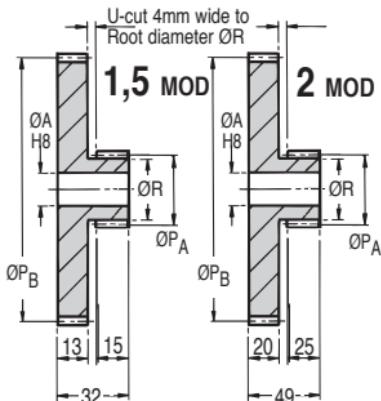
Steel 34C10

MODULE
1.5-2

- Pressure angle 20°
- Material: Steel 34C10
- 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	96,61 €
DG1.5-20/100		20	30,00	100	150,00	10	19,00	203,05 €
Gears available up to this size								
DG1.5-20/120		20	30,00	120	180,00	10	19,00	on request
DG2-15/45	2	15	30,00	45	90,00	15	24,00	137,52 €
DG2-15/60		15	30,00	60	120,00	15	24,00	249,69 €
Gears available up to this size								
DG2-20/120		20	40,00	120	240,00	15	34,00	on request

Dimensions in mm

Anti-backlash spur gear



**MODULE
0.5-1**

Stainless steel

- Backlash is only reduced in one direction

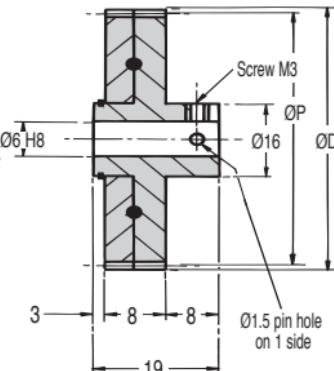
- Pressure angle 20°

- 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



stainless steel

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

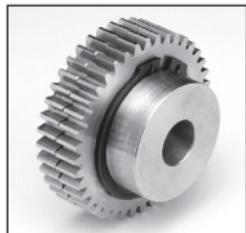
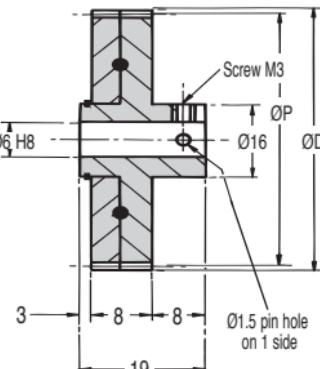
Part number	Z Teeth	Pitch ØP	External ØD	Price each 1 to 5
ABS0.5-56	MODULE 0,5	56	28,00	29,00 77,61 €
ABS0.5-60		60	30,00	31,00 83,21 €
ABS0.5-72		72	36,00	37,00 88,30 €
ABS0.5-84		84	42,00	43,00 88,87 €
ABS0.5-96		96	48,00	49,00 93,90 €
ABS0.5-108		108	54,00	55,00 98,98 €
ABS0.5-120		120	60,00	61,00 104,01 €
ABS0.5-132		132	66,00	67,00 109,08 €
ABS0.5-144		144	72,00	73,00 114,25 €
ABS0.8-48		48	38,40	40,00 87,02 €
ABS0.8-50	MODULE 0,8	50	40,00	41,60 88,87 €
ABS0.8-64		64	51,20	52,80 93,34 €
ABS0.8-72		72	57,60	59,20 99,08 €
ABS0.8-80		80	64,00	65,60 103,00 €
ABS0.8-88		88	70,40	72,00 106,79 €
ABS0.8-96		96	76,80	78,40 108,77 €
ABS0.8-100	MODULE 1	100	80,00	81,60 112,68 €
ABS1-48		48	48,00	50,00 110,11 €
ABS1-60		60	60,00	62,00 114,45 €
ABS1-72		72	72,00	74,00 116,64 €
ABS1-80		80	80,00	82,00 120,54 €
ABS1-84		84	84,00	86,00 126,07 €

Dimensions in mm

- The anti-backlash mechanism
only works in one direction
- Pressure angle 20°
- Material: steel 34C10
- Springs are placed in the gap Ø6 H8 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	

Part number	Z Teeth	Pitch ØP	External ØD	Price each 1 to 5
AB0.5-56	MODULE 0.5	56	28,00	59,07 €
AB0.5-60		60	30,00	59,59 €
AB0.5-72		72	36,00	60,22 €
AB0.5-84		84	42,00	60,73 €
AB0.5-96		96	48,00	61,15 €
AB0.5-108		108	54,00	62,03 €
AB0.5-120		120	60,00	63,20 €
AB0.5-132		132	66,00	64,80 €
AB0.5-144		144	72,00	65,36 €
AB0.8-48		48	38,40	60,40 €
AB0.8-50	MODULE 0.8	50	40,00	61,66 €
AB0.8-64		64	51,20	62,29 €
AB0.8-72		72	57,60	62,89 €
AB0.8-80		80	64,00	63,94 €
AB0.8-88		88	70,40	64,98 €
AB0.8-96		96	76,80	65,57 €
AB0.8-100		100	80,00	66,41 €
AB1-48		48	48,00	63,53 €
AB1-60		60	60,00	68,49 €
AB1-72		72	72,00	70,99 €
AB1-80	MODULE 1	80	80,00	74,20 €
AB1-84		84	84,00	76,34 €

Dimensions in mm

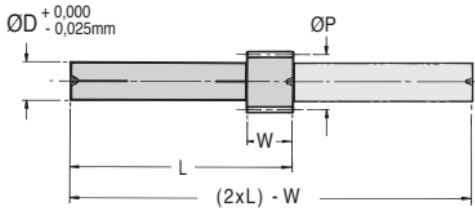
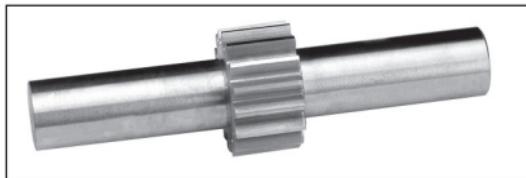
Pinion shaft

**MODULE****0.25-1.25****Steel 34C10**

- Pressure angle 20°
- Material: steel 34C10

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	33,40 €
DT0.25-18	0,25	18	4,50	20	2,50	3	36,12 €
DT0.3-16	0,3	16	4,80	20	2,50	3	33,40 €
DT0.3-20	0,3	20	6,00	20	2,50	3	36,12 €
DT0.4-18	0,4	18	7,20	25	3,00	5	34,42 €
DT0.4-27	0,4	27	10,80	25	3,00	5	37,08 €
DT0.5-16	0,5	16	8,00	25	3,00	6	36,07 €
DT0.5-20	0,5	20	10,00	25	3,00	6	36,76 €
DT0.5-24	0,5	24	12,00	25	3,00	6	38,62 €
DT0.8-15	0,8	15	12,00	32	5,00	8	40,23 €
DT0.8-16	0,8	16	12,80	32	5,00	8	42,08 €
DT0.8-18	0,8	18	14,40	32	5,00	8	43,04 €
DT1-14	1	14	14,00	38	8,00	10	48,71 €
DT1-16	1	16	16,00	38	8,00	10	50,25 €
DT1-20	1	20	20,00	38	8,00	10	52,06 €
DT1.25-12	1,25	12	15,00	50	10,00	12	50,44 €
DT1.25-15	1,25	15	18,75	50	10,00	12	51,38 €
DT1.25-18	1,25	18	22,50	50	10,00	12	52,40 €

Dimensions in mm

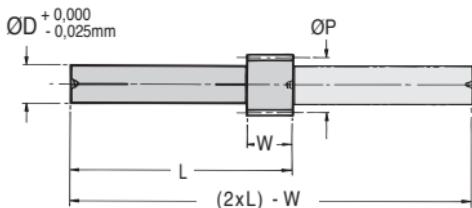
Steel 34C10

MODULE
1.5-4

- Pressure angle 20°
- Material: Steel 34C10

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	51,10 €
DT1.5-16	1,5	16	24,00	76	12	15	52,44 €
DT1.5-20	1,5	20	30,00	76	12	15	54,12 €
DT2-13	2	13	26,00	76	20	20	55,93 €
DT2-16	2	16	32,00	76	20	20	61,55 €
DT2-18	2	18	36,00	76	20	20	68,21 €
DT2,5-12	2,5	12	30,00	100	25	20	69,31 €
DT2,5-15	2,5	15	37,50	100	25	20	73,50 €
DT2,5-18	2,5	18	45,00	100	25	20	77,60 €
DT3-12	3	12	36,00	108	32	22	97,13 €
DT3-14	3	14	42,00	108	32	22	100,05 €
DT3-16	3	16	48,00	108	32	22	109,26 €
DT4-12	4	12	48,00	115	38	30	123,53 €
DT4-15	4	15	60,00	115	38	30	128,77 €
DT4-18	4	18	72,00	115	38	30	135,06 €

Dimensions in mm

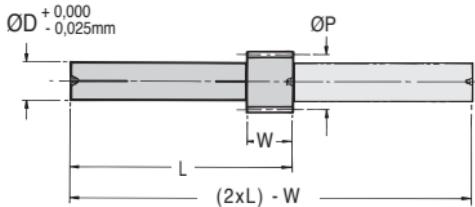
Pinion shaft

**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	49,62 €
DST0.25-18	0,25	18	4,50	20	2,50	3	51,11 €
DST0.3-16	0,3	16	4,80	20	2,50	3	49,62 €
DST0.3-20	0,3	20	6,00	20	2,50	3	51,11 €
DST0.4-18	0,4	18	7,20	25	3,00	5	51,32 €
DST0.4-27	0,4	27	10,80	25	3,00	5	51,93 €
DST0.5-16	0,5	16	8,00	25	3,00	6	53,97 €
DST0.5-20	0,5	20	10,00	25	3,00	6	55,41 €
DST0.5-24	0,5	24	12,00	25	3,00	6	57,57 €
DST0.8-15	0,8	15	12,00	32	5,00	8	60,07 €
DST0.8-16	0,8	16	12,80	32	5,00	8	60,31 €
DST0.8-18	0,8	18	14,40	32	5,00	8	64,21 €

Dimensions in mm

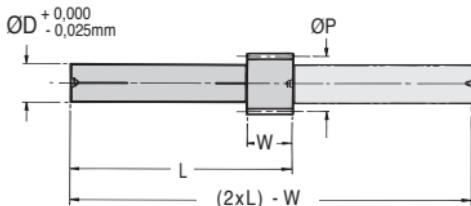
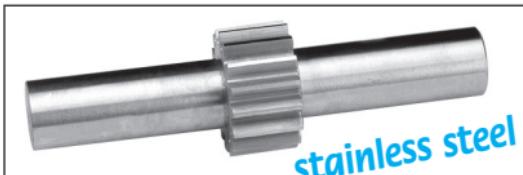
Stainless steel

MODULE
1-2

- 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	OP	L	W	ØD	Price each 1 to 5
DST1-14	1	14	14,00	38	8	10	72,80 €
DST1-16	1	16	16,00	38	8	10	74,33 €
DST1-20	1	20	20,00	38	8	10	77,55 €
DST1.25-12	1,25	12	15,00	50	10	12	98,67 €
DST1.25-15	1,25	15	18,75	50	10	12	99,88 €
DST1.25-18	1,25	18	22,50	50	10	12	108,56 €
DST1.5-13	1,5	13	19,50	76	12	15	115,88 €
DST1.5-16	1,5	16	24,00	76	12	15	117,47 €
DST1.5-20	1,5	20	30,00	76	12	15	119,74 €
DST2-13	2	13	26,00	76	20	20	122,52 €
DST2-16	2	16	32,00	76	20	20	130,80 €
DST2-18	2	18	36,00	76	20	20	140,80 €

Dimensions in mm

Internal gear



MODULE

Steel or **machined plastic**

0.4
mm

- Pressure angle 20°

- Materials:

steel 34C10 or

delrin plastic (machined parts)

Options

- Alternative number of teeth
(minimum 100 teeth)

- Alternative materials (stainless steel, brass..)

Accessories

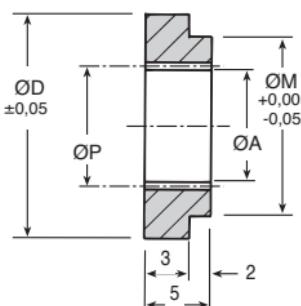
- Spur gears with the same module
eg G0.4.., ZG0.4..



IN: Steel



ZIN: Plastic



STEEL DISCOUNTS

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

PLASTIC DISCOUNTS

Qty.	1+	6+	30+	
Disc.	-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	Price each 1 to 5 PLASTIC ZIN
IN0.4-100	ZIN0.4-100	100	40	39.2	150	55	45,15 €	32,50 €
IN0.4-120	ZIN0.4-120	120	48	47,2	75	70	50,51 €	36,30 €
IN0.4-150	ZIN0.4-150	150	60	53,2	75	70	57,57 €	41,39 €
IN0.4-200	ZIN0.4-200	200	80	79,2	125	100	76,58 €	55,08 €

↓ Gears available up to this size ↓ ↓

IN0.4-400	ZIN0.4-400	400	160	159,2	225	200	on request	on request
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Dimensions in mm

Steel or machined plastic

MODULE

0.8



- Pressure angle 20°

- Materials:

 - steel 34C10 or

 - delrin plastic (machined parts)

Options

- Alternative number of teeth
(minimum 75 teeth)
- Alternative materials (stainless steel, brass..)

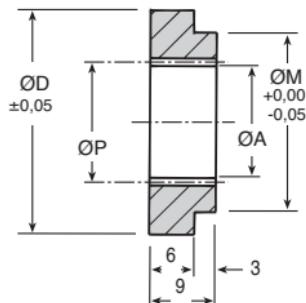
Accessories

- Spur gears with the same module
eg G0.8.., ZG0.8..



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 PLASTIC ZIN
IN0.8-75	ZIN0.8-75	75	60	58,4	75	70	55,77 € 40,15 €
IN0.8-80	ZIN0.8-80	80	64	62,4	100	74	58,31 € 41,96 €
IN0.8-100	ZIN0.8-100	100	80	78,4	100	94	64,83 € 46,66 €
↓ ↓ Gears available up to this size ↓ ↓							
IN0.8-250	ZIN0.8-250	250	200	198,4	250	225	on request on request

Dimensions in mm

Internal gear



MODULE

Steel or **machined** plastic

1.0



- Pressure angle 20°

- Materials:
 - steel 34C10 or
 - delrin plastic (machined parts)

Options

- Alternative number of teeth (minimum 58 teeth)
- Alternative materials (stainless steel, brass..)

Accessories

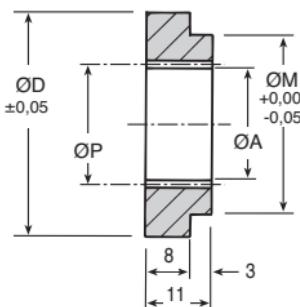
- Spur gears with the same module
eg G1.., ZG1..



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

STEEL IN	PLASTIC Z/N	Z Teeth	PCD ØP	Part number Internal ØA	ØD	Boss ØM	Price each 1 to 5 STEEL IN	Price each 1 to 5 PLASTIC Z/N
IN1-58	ZIN1-58	58	58	56	100	94	60,97 €	43,90 €
IN1-60	ZIN1-60	60	60	58	100	94	61,75 €	44,45 €
IN1-100	ZIN1-100	100	100	98	150	125	105,97 €	76,29 €
↓	↓	Gears available up to this size					↓	↓
IN1-200	ZIN1-200	200	200	198	250	225	on request	on request

Dimensions in mm

Steel or **machined plastic**

MODULE

1.25



- Pressure angle 20°

- Materials:

steel 34C10 or
delrin plastic (machined parts)

Options

- Alternative number of teeth (minimum 58 teeth)
- Alternative materials (stainless steel, brass..)

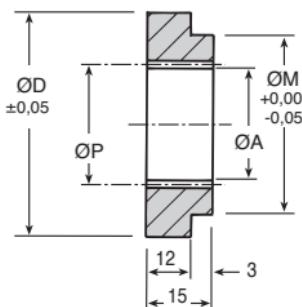
Accessories

- Spur gears with the same module eg **G1.25.., ZG1.25..**



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
IN1.25-51	ZIN1.25-51	51	63,75	61,75	100	94	62,55 € 45,04 €
IN1.25-60	ZIN1.25-60	60	75,00	72,50	100	94	67,05 € 48,28 €
IN1.25-100	ZIN1.25-100	100	125,00	122,50	175	150	117,31 € 84,46 €
↓ ↓ Gears available up to this size ↓ ↓							
IN1.25-160	ZIN1.25-160	160	200,00	197,50	250	225	on request on request

Dimensions in mm

Internal gear



MODULE

Steel or **machined** plastic

1.5



- Pressure angle 20°

- Materials:

steel 34C10 or

delrin plastic (machined parts)

Options

- Alternative number of teeth

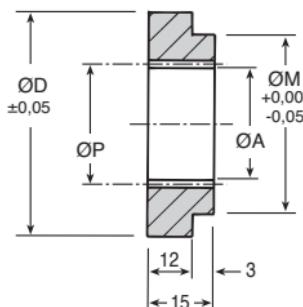
- Alternative materials (stainless steel, brass..)

Accessories

- Spur gears with the same module
eg **G1.5.., ZG1.5..**



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	Price each 1 to 5 PLASTIC ZIN
IN1.5-41	ZIN1.5-41	41	61,5	58	100	94	69,58 €	50,02 €
IN1.5-60	ZIN1.5-60	60	90,0	87	150	125	106,97 €	76,93 €
IN1.5-100	ZIN1.5-100	100	150,0	147	200	175	181,05 €	139,57 €
↓ ↓ Gears available up to this size ↓ ↓								
IN1.5-120	ZIN1.5-120	120	180,0	177	250	200	on request	on request

Dimensions in mm

Steel or **machined** plastic

MODULE

2.0



- **Pressure angle 20°**

- **Materials:**

steel 34C10 or
delrin plastic (machined parts)

Options

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

Accessories

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

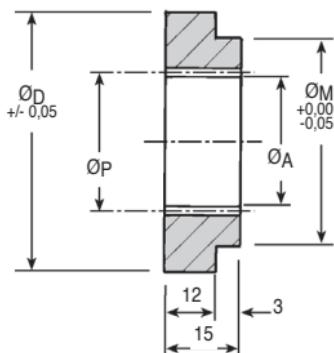


IN: Steel



ZIN: Plastic

NEW!



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	Price each 1 to 5 PLASTIC ZIN
IN2-40	ZIN2-40	40	80	76	150	125	96,05 €	67,23 €
IN2-60	ZIN2-60	60	120	116	175	150	149,65 €	104,75 €
IN2-80	ZIN2-80	80	160	156	220	200	196,94 €	137,86 €
IN2-100	ZIN2-100	100	200	196	250	220	253,33 €	177,33 €
↓ ↓ Gears available up to this size ↓ ↓								
IN2-110	ZIN2-110	110	220	216	280	250	295,14 €	206,60 €

Dimensions in mm

Internal gear

PlaSter New

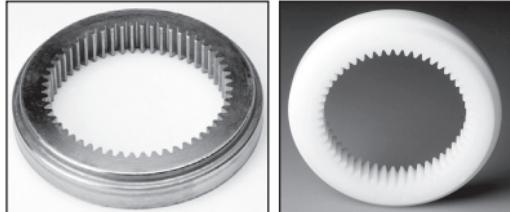
MODULE

Steel or **machined plastic**

2.5



NEW!



- Pressure angle 20°

- Materials:
steel 34C10 or
delrin plastic (machined parts)

Options

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

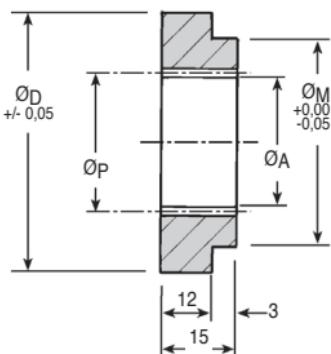
Accessories

- 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	Price each 1 to 5 PLASTIC ZIN
IN2.5-56	ZIN2.5-56	56	140,0	135,0	200	175	177,81 €	124,47 €
IN2.5-60	ZIN2.5-60	60	150,0	145,0	200	175	200,21 €	140,14 €
IN2.5-75	ZIN2.5-75	75	187,5	182,5	250	220	263,47 €	184,43 €
IN2.5-88	ZIN2.5-88	88	220,0	215,0	280	250	301,24 €	210,87 €

Dimensions in mm

Gears available up to this size

Steel or **machined** plastic**MODULE
3.0**

- Pressure angle 20°

- Materials:

steel 34C10 or

delrin plastic (machined parts)

Options

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

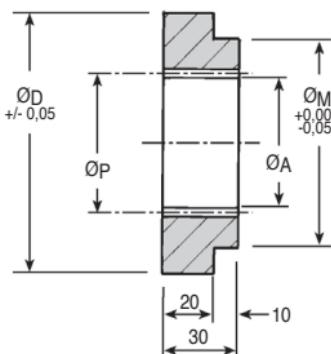
Accessories

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

**NEW!**

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	204,48 € 143,13 €
IN3-60	ZIN3-60	60	180	174	250	220	230,24 € 161,17 €
IN3-66	ZIN3-66	66	198	192	250	220	302,99 € 212,09 €
↓ ↓		Gears available up to this size				↓ ↓	
IN3-74	ZIN3-74	74	222	216	280	250	322,67 € 242,50 €

Dimensions in mm

MODULESteel or **machined plastic****4.0**

- Pressure angle 20°

- Materials:
- steel 34C10 or
- delrin plastic (machined parts)

Options

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

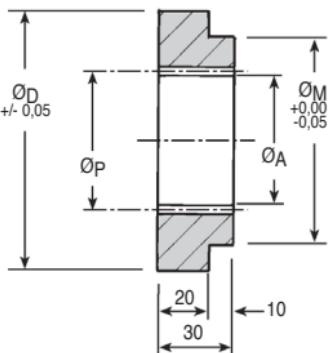
Accessories

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



IN: Steel

ZIN: Plastic

NEW!
**STEEL DISCOUNTS**

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

PLASTIC DISCOUNTS

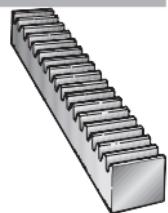
Qty.	1+	6+	30+
Disc.	List -22%		On request

STEEL IN	PLASTIC Z/N	Z Teeth	PCD ØP	Part number Internal ØA	ØD	Boss ØM	Price each 1 to 5 STEEL IN	Price each 1 to 5 PLASTIC Z/N
IN4-40	ZIN4-40	40	160	152	230	200	219,82 €	153,87 €
IN4-45	ZIN4-45	45	180	172	250	220	247,51 €	173,25 €
IN4-50	ZIN4-50	50	200	192	280	250	308,96 €	228,00 €
↓ ↓		Gears available up to this size					↓ ↓	
IN4-55	ZIN4-55	55	220	212	280	250	330,54 €	260,69 €

Dimensions in mm

Technical information for racks

Approximate size of rack teeth
Pressure angle 20°



Module 0.25



Module 0.3



Module 0.35



Module 0.4



Module 0.5



Module 0.6



Module 0.8



Module 1



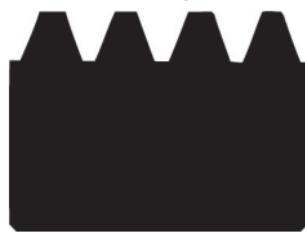
Module 1.25



Module 1.5



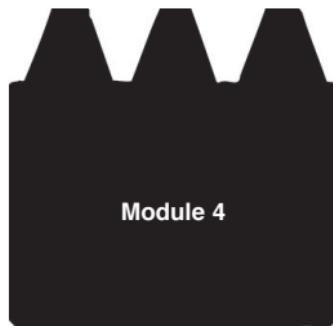
Module 2



Module 2.5



Module 3



Module 4

Racks
p.184-p.199

Steel spur rack



p.184

Stainless steel
spur rack

**Stainless
steel**



p.185

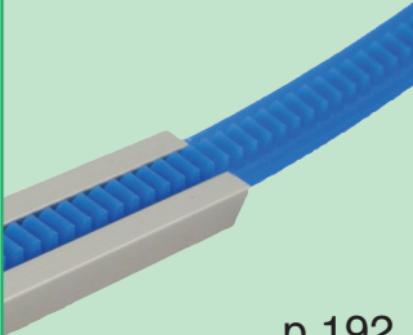
Spur round rack

stainless
steel



p.189

Flexible racks



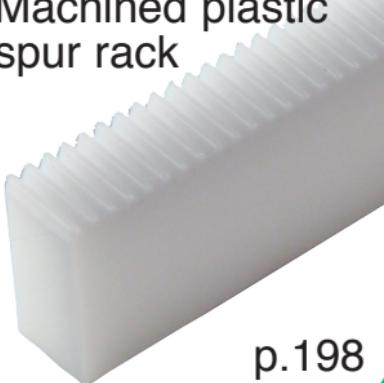
p.192

Moulded plastic
spur rack



p.196

Machined plastic
spur rack



p.198

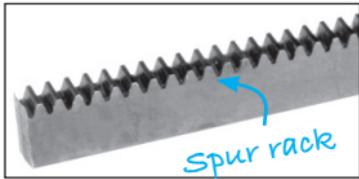
Narrow spur rack

Ste Stock

MODULE 0.25-2.0

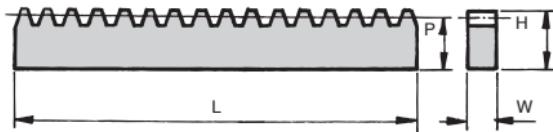
- Pressure angle 20°
- Max length from 400 to 1800 depending on module
- 1 metre lengths can be joined end to end
- Materials:
 - Module 0.25 to 0.7 mild steel
 - Module 0.8 to 2.0 steel 60C40
- Max. pitch error up to module 0.7: 1mm/300mm
- Max. pitch error from module 0.8: 0.1mm/300mm

Steel



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
R0.25-400	0,25	8,75	4	9	400	✓	42,92 €
R0.4-400	0,4	11,60	6	12	400	✓	44,37 €
R0.5-400	0,5	11,50	6	12	400	✓	56,28 €
R0.7-400	0,7	11,30	6	12	400	-	47,39 €
R0.8-1000	0,8	11,20	6	12	1000	✓	124,00 €
R0.8-1800	0,8	11,20	6	12	1828	-	200,61 €
R1-1000	1	14,00	8	15	1000	✓	128,16 €
R1-1800	1	14,00	8	15	1828	✓	209,76 €
R1.25-1000	1,25	13,75	8	15	1000	✓	137,93 €
R1.25-1800	1,25	13,75	8	15	1828	✓	225,83 €
RR1.5-1000	1,5	16,50	18	18	1000	✓	141,87 €
RR1.5-1800	1,5	16,50	18	18	1828	✓	232,21 €
RR1.75-1000	1,75	16,25	18	18	1000	-	151,00 €
RR1.75-1800	1,75	16,25	18	18	1828	-	247,17 €
RR2-1000	2	16,00	18	18	1000	✓	152,05 €
RR2-1800	2	16,00	18	18	1828	-	254,94 €
RC1-400	1mm CP	11,67	6	12	400	-	on request
RC2-400	2mm CP	11,36	6	12	400	-	on request

*Depending on availability - Dimensions in mm

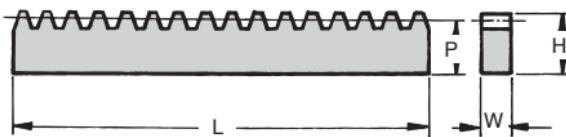
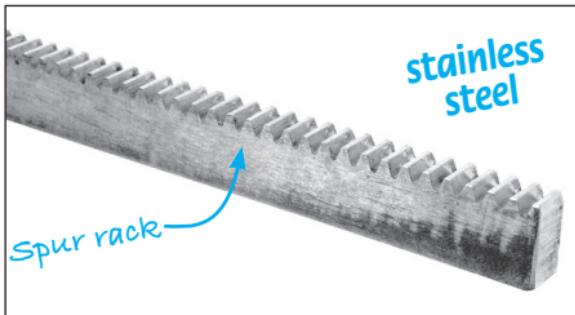
Stainless steel

MODULE
0.25-2.0

- Pressure angle 20°
- Max. pitch error 1mm/300mm
- Material: Stainless steel Z10CNF18.09 (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	0,25	8,75	4,00	9	400	✓	93,89 €
SR0,4	0,40	11,60	6,00	12	400	-	115,78 €
SR0,5	0,50	11,50	6,00	12	400	✓	119,77 €
SR0,7	0,70	11,30	6,00	12	400	-	123,61 €
SR0,8	0,80	11,20	6,00	12	400	✓	127,41 €
SR1	1,00	14,00	8,00	15	400	✓	136,60 €
SR1,25	1,25	13,75	8,00	15	400	-	141,68 €
SR1,5	1,50	16,50	18,00	18	400	-	162,20 €
SR1,75	1,75	16,25	18,00	18	400	-	164,05 €
SR2	2,00	16,00	18,00	18	400	✓	169,34 €
SRC1	1mm CP	11,67	6,00	12	400	-	on request
SRC2	2mm CP	11,36	6,00	12	400	-	on request

Dimensions in mm

Metric section rack

Ste Stock

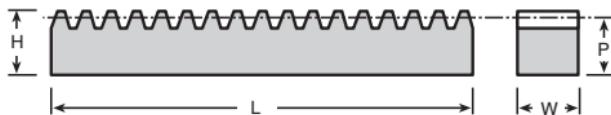
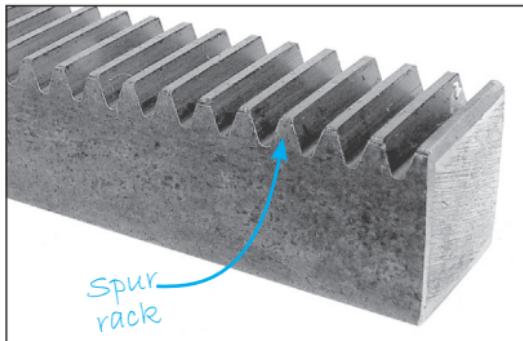
MODULE 1.0-6.0

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	✓	43,66 €
MR1.25-1000	1,25	15	15	13,75	1001	✓	35,13 €
MR1.25-2000	1,25	15	15	13,75	1997	✓	82,81 €
MR1.5-1000	1,5	15	15	13,50	997	✓	35,13 €
MR1.5-2000	1,5	15	15	13,50	1997	✓	82,81 €
MR1.75-2000	1,75	15	15	13,25	2002	-	82,81 €
MR2-1000	2	20	20	18,00	999	✓	29,81 €
MR2-2000	2	20	20	18,00	1997	✓	63,53 €
MR2.5-1000	2,5	25	25	22,50	997	✓	42,60 €
MR2.5-2000	2,5	25	25	22,50	2002	✓	88,59 €
MR3-1000	3	30	30	27,00	999	✓	54,85 €
MR3-2000	3	30	30	27,00	1997	✓	115,57 €
MMR4-1000	4	40	25	21,00	1005	✓	90,57 €
MMR4-2000	4	40	25	21,00	2002	✓	212,87 €
MMR5-1000	5	50	30	25,00	1005	✓	149,22 €
MMR5-2000	5	50	30	25,00	2010	✓	283,20 €
MMR6-1000	6	60	40	34,00	999	-	226,58 €
MMR6-2000	6	60	40	34,00	1997	-	430,13 €

*Depending on availability - Dimensions in mm

Stainless steel

**MODULE
1.0-3.0**

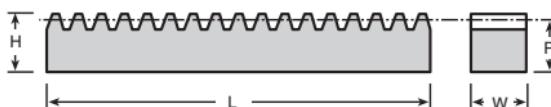
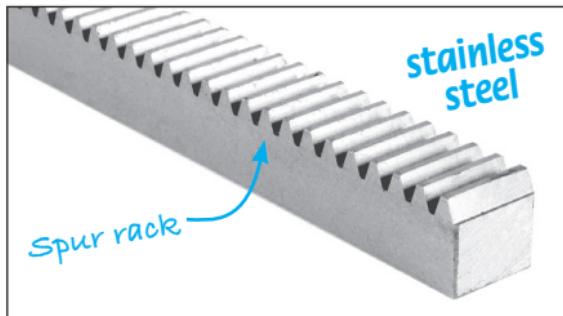
- Racks can be joined end to end

- 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	✓	114,49 €
MRS1.5-1000	1,5	15	15	13,50	999	✓	191,88 €
MRS2-1000	2,0	20	20	18,00	999	✓	209,74 €
MRS2.5-1000	2,5	25	25	22,50	999	-	297,53 €
MRS3-1000	3,0	30	30	27,00	999	✓	368,18 €

*Depending on availability - Dimensions in mm

Imperial section rack

Ste Stock inch

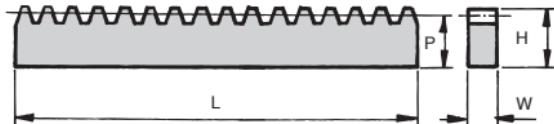
MODULE 0.8-5.0

- Pressure angle 20°
- Maximum length 1800mm
- **1 metre lengths can be joined end to end**
- Materials: steel 60C40
- Max. pitch error: 0.1mm/300mm

Options

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

Steel



Allowable load on teeth assuming a 30 tooth gear used for 12 hours per day at 10 rpm	CR0,8	34 kg
	CR1	56 kg
	CR1,25	65 kg
	CR1,5	111 kg
	CR1,75	127 kg
	CR2	136 kg
	CR2,5	226 kg
	CR3	326 kg
	CR4	500 kg
	CR5	877 kg
	CCR6	1180 kg

DISCOUNTS

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

Part number	Module	P	W	H	L	Stock*	Price each 1 to 5
CR0.8-1000	0,8	8,72	9,52	9,52	1000	✓	79,15 €
CR0.8-1800	0,8	8,72	9,52	9,52	1828	-	136,07 €
CR1-1000	1	11,70	12,70	12,70	1000	✓	81,79 €
CR1-1800	1	11,70	12,70	12,70	1828	✓	140,61 €
CR1.25-1000	1,25	11,45	12,70	12,70	1000	✓	88,00 €
CR1.25-1800	1,25	11,45	12,70	12,70	1828	✓	151,28 €
CR1.5-1000	1,5	17,55	19,05	19,05	1000	✓	94,49 €
CR1.5-1800	1,5	17,55	19,05	19,05	1828	✓	162,43 €
CR1.75-1000	1,75	17,30	19,05	19,05	1000	-	96,33 €
CR1.75-1800	1,75	17,30	19,05	19,05	1828	-	165,60 €
CR2-1000	2	17,05	19,05	19,05	1000	✓	99,35 €
CR2-1800	2	17,05	19,05	19,05	1828	-	170,77 €
CR2.5-1000	2,5	22,90	25,40	25,40	1000	✓	121,75 €
CR2.5-1800	2,5	22,90	25,40	25,40	1828	✓	209,29 €
CR3-1000	3	28,75	31,75	31,75	1000	✓	126,31 €
CR3-1800	3	28,75	31,75	31,75	1828	-	381,03 €
CR4-1000	4	34,10	38,10	38,10	1000	✓	176,42 €
CR4-1800	4	34,10	38,10	38,10	1828	-	367,77 €
CR5-1000	5	45,80	50,80	50,80	1000	✓	226,75 €
CR5-1800	5	45,80	50,80	50,80	1828	-	706,88 €

*Depending on availability - Dimensions in mm

Stainless steel

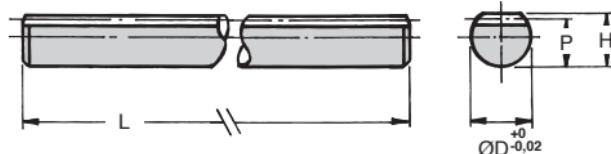
MODULE
0.25-1.5

- 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	0,25	5,30	6,00	5,55	400	✓	58,61 €
TR0,4	0,40	8,80	10,00	9,20	400	-	60,65 €
TR0,5	0,50	8,70	10,00	9,20	400	✓	62,69 €
TR0,7	0,70	9,80	12,00	10,50	400	✓	64,68 €
TR0,8	0,80	9,70	12,00	10,50	400	✓	66,68 €
TR1	1,00	9,50	12,00	10,50	400	✓	73,26 €
TR1,25	1,25	11,75	15,00	13,00	400	✓	79,78 €
TR1,5	1,50	16,00	20,00	17,50	400	✓	171,77 €
TRC1	1mm CP	8,88	10,00	9,20	400	-	58,61 €
TRC2	2mm CP	8,56	10,00	9,20	400	-	59,89 €

*Depending on availability - Dimensions in mm

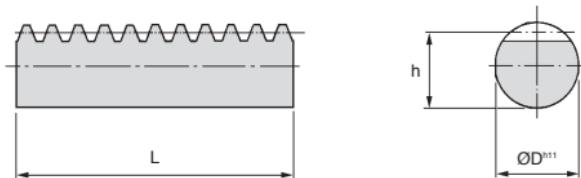
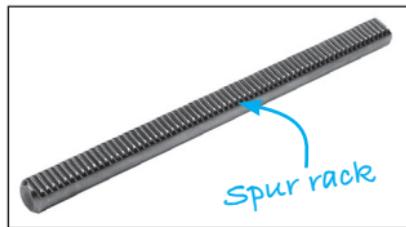
Spur round rack

Ste Stock

MODULE 1.0-6.0

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

Steel



DISCOUNTS

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

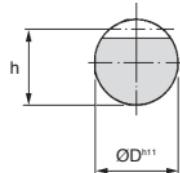
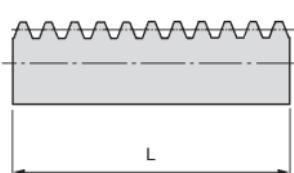
Part number	Module	h (mm)	ØD (mm)	L (mm)	Stock*	Price each 1 to 5
TRM1-1000	1	9,00	10	999	✓	92,20 €
TRM1.5-1000	1,5	13,50	15	999	✓	135,34 €
TRM2-1000	2	18,00	20	999	✓	132,36 €
TRM2.5-1000	2,5	22,50	25	997	✓	168,07 €
TRM3-1000	3	27,00	30	999	✓	170,29 €
TRM4-1000	4	36,00	40	1005	✓	211,94 €
TRM5-1000	5	45,00	50	1005	-	265,54 €
TRM6-1000	6	54,00	60	999	-	357,79 €

*Depending on availability - Dimensions in mm

Stainless steel

MODULE
1.0-5.0

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

NEW!

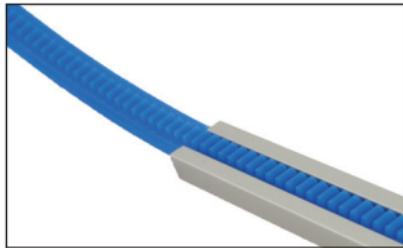
DISCOUNTS

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

Part number	Module	h (mm)	ØD (mm)	L (mm)	Price each 1 to 5
TRM1-1000/SS	1	9,00	10	999	104,50 €
TRM1.5-1000/SS	1,5	13,50	15	999	150,96 €
TRM2-1000/SS	2	18,00	20	999	146,88 €
TRM2.5-1000/SS	2,5	22,50	25	997	199,52 €
TRM3-1000/SS	3	27,00	30	999	240,69 €
TRM4-1000/SS	4	36,00	40	1005	348,38 €
TRM5-1000/SS	5	45,00	50	1005	617,57 €

*Depending on availability - Dimensions in mm

- 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

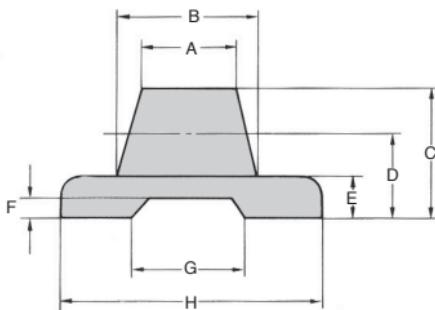
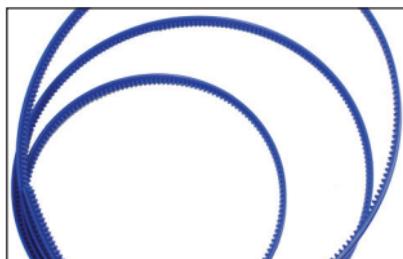


Accessories

- 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.



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	Allowable bending strength (N)	Weight kg	Price each
DR0.8-2000	0,8	2000	3	3,8	3,3	2,5	1,5	0,7	3,7	8	111,8	0,10	83,46 €
DR1-2000	1,0	2000	4	5,0	4,3	3,3	2,0	0,9	4,9	10	160,9	0,15	107,82 €
DR1.5-2000	1,5	2000	5	6,5	5,7	4,2	2,3	1,0	8,0	12	161,4	0,20	135,71 €
DR2-2000	2,0	2000	6	6,0	7,0	5,0	2,5	1,1	10,1	15	264,9	0,30	163,51 €

Dimensions in mm

Clamp and guide rail

ARL
SRS

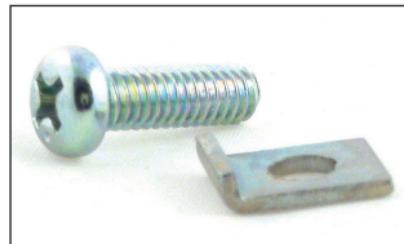
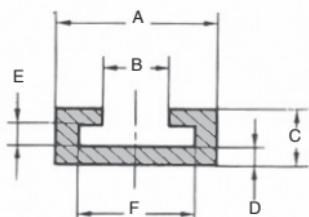
- Accessories for flexible rack

- Material:

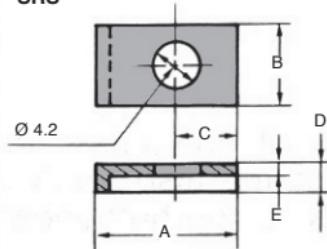
Guide: aluminium A6063S-T5

Clamps: SS400 unichromic plating

ARL



SRS

**Rack guide rail****DISCOUNTS**

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

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	30,32 €
ARL-1	1000	12,3	5,6	5,2	2,0	2,2	10,3	34,71 €
ARL-1.5	1000	14,3	7,2	5,5	2,0	2,5	12,3	38,86 €
ARL-2	1000	17,3	8,8	6,2	2,5	2,7	15,3	51,48 €

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	15,44 €
SRS2/B	DR1.5-2000 et DR2-2000	11,4	8	5,6	3,9	1,4	10	15,44 €

Dimensions in mm

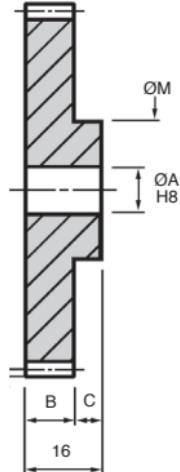
ZGDR

To be used with rack DR

- Machined parts
- Quality standard 9
- Pressure angle 20°
- Material: Delrin
- Working temp. -50°C to +80°C

Advantages

- Designed specially to work with DR flexible racks.



DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	B	C	Price each 1 to 5
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Module 0,8

ZGDR0.8-20	20	16,00	17,60	14	4	4	6	17,90 €
ZGDR0.8-25	25	20,00	21,60	14	4	4	6	18,76 €
ZGDR0.8-30	30	24,00	25,60	15	5	4	6	19,59 €
ZGDR0.8-40	40	32,00	33,60	15	5	4	6	22,14 €

Module 1

ZGDR1-20	20	20,00	22,00	18	6	5	5	15,75 €
ZGDR1-25	25	25,00	27,00	18	6	5	5	16,94 €
ZGDR1-30	30	30,00	32,00	18	6	5	5	19,24 €
ZGDR1-40	40	40,00	42,00	18	6	5	5	27,33 €

Dimensions in mm

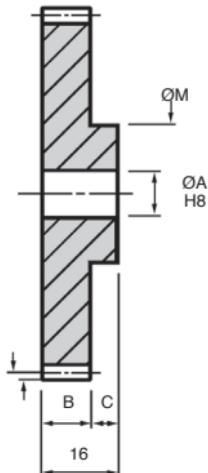
To be used with rack DR

ZGDR
- Machined parts

- Quality standard 9
- Pressure angle 20°
- Material: Delrin
- Working temp. -50°C to +80°C

Advantages

- Designed specially to work with DR flexible racks.


DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	B	C	Price each 1 to 5
Module 1.5								
ZGDR1.5-20	20	30,00	33,00	25	8	6	10	23,67 €
ZGDR1.5-25	25	37,50	40,50	25	8	6	10	26,17 €
ZGDR1.5-30	30	45,00	48,00	25	8	6	10	34,59 €
ZGDR1.5-40	40	60,00	63,00	25	8	6	10	57,43 €
Module 2								
ZGDR2-20	20	40,00	44,00	35	12	8	8	33,25 €
ZGDR2-25	25	50,00	54,00	35	12	8	8	53,47 €
ZGDR2-30	30	60,00	64,00	35	12	8	8	69,25 €
ZGDR2-40	40	80,00	84,00	35	12	8	8	100,65 €

Dimensions in mm

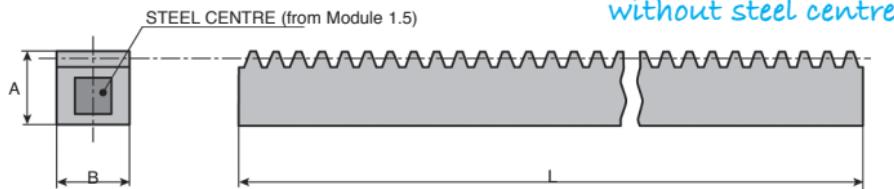
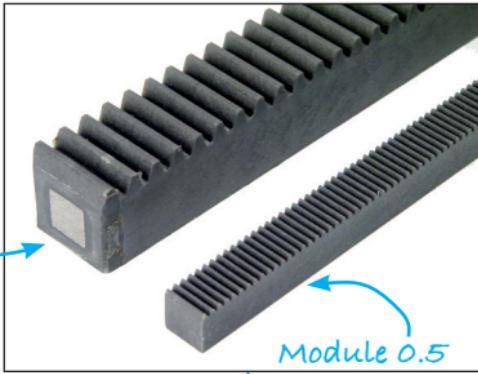
Moulded nylon rack



MODULE Nylon 6 reinforced with 30% glass fibre
0.5-4.0

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

Racks with
modules 1.5-4
have steel centres



DISCOUNTS

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

Part number	Module	A	B	Length L (mm)	Stock*	Price each 1 to 9
Without steel centre						
CRM0.5-250	0,5	8	8	0250	✓	6,29 €
With steel centre						
CRM1.5-250	1,5	17	17	0250	✓	8,33 €
CRM1.5-500	1,5	17	17	0500	✓	16,54 €
CRM1.5-1000	1,5	17	17	1000	✓	33,07 €
CRM2-250	2,0	20	20	0248	✓	10,55 €
CRM2-500	2,0	20	20	0496	✓	21,02 €
CRM2-1000	2,0	20	20	0992	✓	41,82 €
CRM3-250	3,0	30	30	0250	✓	12,08 €
CRM3-500	3,0	30	30	0500	✓	27,88 €
CRM3-1000	3,0	30	30	1000	✓	44,65 €
CRM4-1000	4,0	28	20	1000	-	50,77 €

*Depending on availability - Dimensions in mm

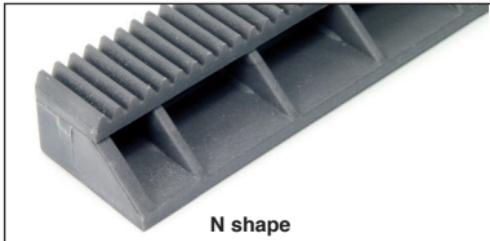
Nylon 6 reinforced with 30% glass fibre MODULE 1.0

- Rack with fixing base

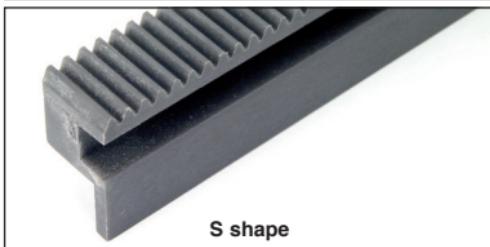
- Pressure angle 20°
- Material: Nylon 6 reinforced with 30% glass fibre

Assembly

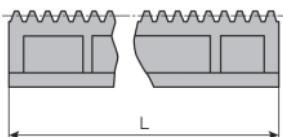
- Racks will require mounting holes to be drilled



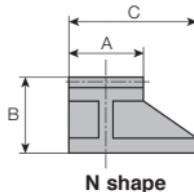
N shape



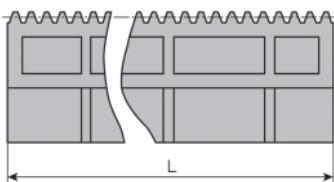
S shape



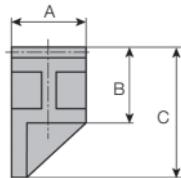
L



N shape



L



S shape

DISCOUNTS

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

Part number	Module	A	B	C	Length L (mm)	Stock*	Price each 1 to 9
N shape							
CRM1-150N	1	15	15,66	26,00	150	✓	3,70 €
CRM1-250N	1	15	15,66	26,00	248	✓	4,60 €
S shape							
CRM1-150S	1	15	15,66	26,66	150	-	3,70 €
CRM1-250S	1	15	15,66	26,66	248	✓	4,60 €

*Depending on availability - Dimensions in mm

Plastic rack



MODULE 0.4-2.0

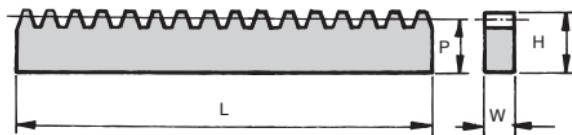
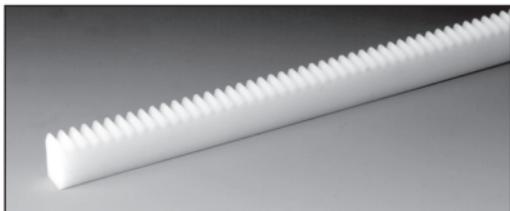
- Machined parts

- 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)

Machined Delrin



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	0,4	11,60	6	12	400	✓	40,24 €
ZR0,5	0,5	11,50	6	12	400	✓	41,02 €
ZR0,7	0,7	11,30	6	12	400	-	43,18 €
ZR0,8	0,8	11,20	6	12	400	✓	43,73 €
ZR1	1,0	14,00	8	15	400	✓	45,22 €
ZR1,25	1,25	13,75	10	15	400	✓	48,56 €
ZRR1,5	1,5	16,50	12	18	400	✓	51,02 €
ZRR2	2,0	18,00	15	20	400	✓	56,89 €
ZRC1	1mm CP	11,67	6	12	400	-	on request
ZRC2	2mm CP	11,36	6	12	400	-	on request

*Depending on availability - Dimensions in mm

Approximate size of gear teeth Pressure angle 20°

Module 0.25



Module 0.3



Module 0.4



Module 0.5



Module 0.6



Module 0.7



Module 0.75



Module 0.8



Module 0.9



Module 1



Module 1.25



Module 1.5



Module 1.75



Module 2



Module 2.5



Module 3



Module 4



Module 5



Module 6



Module 8



Spur gears
p.202-p301

Stainless steel
spur gear



inox

p.204

Steel spur gear



p.208

Machined plastic
spur gear



p.210

Brass spur gear



p.216

Moulded plastic
spur gear



p.238

Toothed bar machined to order AluBrass

**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

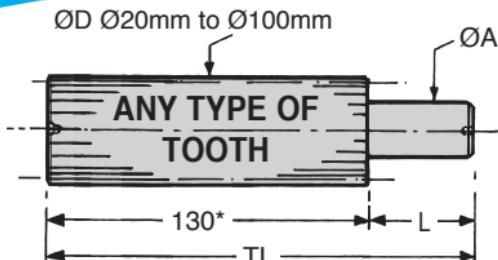
Option

- 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

Choose your tooth form



ALUMINIUM 6082

DISCOUNTS

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

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
AAG2	20 and 30	30	160	12	86,90 €
AAG3	31 and 40	30	160	15	97,69 €
AAG4	41 and 50	40	170	20	173,91 €
AAG5	51 and 60	40	170	25	196,99 €
AAG6	61 and 100	40	170	25	350,54 €

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	100,32 €
ABG3	31 and 40	30	160	15	122,15 €
ABG4	41 and 50	40	170	20	208,61 €
ABG5	51 and 60	40	170	25	250,38 €
ABG6	61 and 100	40	170	25	394,70 €

ØD GREATER THAN 100mm ON REQUEST

Dimensions in mm



Toothed bar machined to order

Steel or Delrin

ASG
ADG

- 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

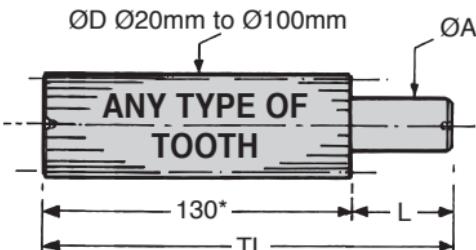
Option

- 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

Choose your tooth form



DISCOUNTS

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

STEEL 34C10

Part number	ØD between	L**	TL	Boss ØA**	Price each 1 to 5
ASG2	20 et 30	30	160	12	67,14 €
ASG3	31 et 40	30	160	15	87,92 €
ASG4	41 et 50	40	170	20	145,52 €
ASG5	51 et 60	40	170	25	191,10 €
ASG6	61 et 100	40	170	25	341,93 €

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	65,89 €
ADG3	31 et 40	30	160	15	85,49 €
ADG4	41 et 50	40	170	20	113,70 €
ADG5	51 et 60	40	170	25	170,73 €
ADG6	61 et 100	40	170	25	322,78 €

ØD GREATER THAN 100mm ON REQUEST

Dimensions in mm

MODULE 0.25

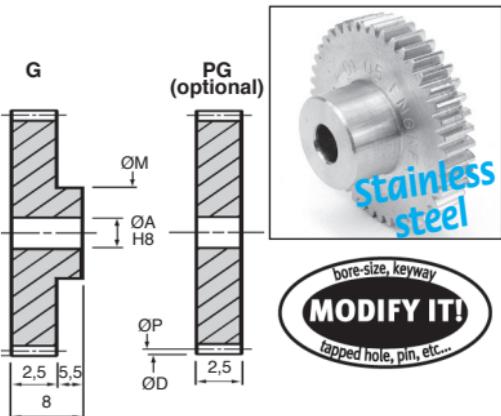
Stainless steel 303



- 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				
	34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm	0.050	0.230	0.024	0.019
kW	0.005	0.024	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	18,33	€
G0.25-21	21	5,25	5,75	5,75	2	0,0004	0,0004	18,51	€
G0.25-22	22	5,50	6,00	6,00	2	0,0005	0,0004	18,62	€
G0.25-23	23	5,75	6,25	6,25	2	0,0005	0,0004	23,23	€
G0.25-24	24	6,00	6,50	6,50	2	0,0005	0,0005	18,97	€
G0.25-25	25	6,25	6,75	6,75	2	0,0006	0,0005	23,67	€
G0.25-26	26	6,50	7,00	7,00	2	0,0006	0,0006	19,25	€
G0.25-27	27	6,75	7,25	7,25	2	0,0007	0,0006	24,01	€
G0.25-28	28	7,00	7,50	7,50	2	0,0007	0,0007	24,14	€
G0.25-29	29	7,25	7,75	7,75	2	0,0008	0,0007	24,39	€
G0.25-30	30	7,50	8,00	8,00	3	0,0008	0,0007	24,62	€
G0.25-31	31	7,75	8,25	8,00	3	0,0009	0,0008	24,77	€
G0.25-32	32	8,00	8,50	8,00	3	0,0010	0,0008	24,96	€
G0.25-33	33	8,25	8,75	8,00	3	0,0010	0,0009	25,20	€
G0.25-34	34	8,50	9,00	8,00	3	0,0011	0,0010	25,39	€
G0.25-35	35	8,75	9,25	8,00	3	0,0012	0,0010	25,65	€
G0.25-36	36	9,00	9,50	8,00	3	0,0012	0,0011	25,88	€
G0.25-37	37	9,25	9,75	8,00	3	0,0013	0,0012	26,07	€
G0.25-38	38	9,50	10,00	8,00	3	0,0014	0,0012	21,27	€
G0.25-39	39	9,75	10,25	8,00	3	0,0014	0,0013	21,39	€
G0.25-40	40	10,00	10,50	8,00	3	0,0015	0,0014	21,57	€
G0.25-41	41	10,25	10,75	8,00	3	0,0016	0,0014	26,85	€
G0.25-42	42	10,50	11,00	8,00	3	0,0017	0,0015	27,08	€

Dimensions in mm

On request

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
G0.25-43	43	10,75	11,25	8,00	3	0,0017	0,0016	27,24	€
G0.25-44	44	11,00	11,50	8,00	3	0,0018	0,0017	27,41	€
G0.25-45	45	11,25	11,75	8,00	3	0,0019	0,0018	27,60	€
G0.25-46	46	11,50	12,00	8,00	3	0,0020	0,0019	27,82	€
G0.25-47	47	11,75	12,25	8,00	3	0,0021	0,0019	28,03	€
G0.25-48	48	12,00	12,50	10,00	3	0,0022	0,0020	28,22	€
G0.25-49	49	12,25	12,75	10,00	3	0,0023	0,0021	28,41	€
G0.25-50	50	12,50	13,00	10,00	3	0,0023	0,0022	28,60	€
G0.25-52	52	13,00	13,50	10,00	3	0,0025	0,0024	28,74	€
G0.25-55	55	13,75	14,25	10,00	3	0,0028	0,0027	23,76	€
G0.25-60	60	15,00	15,50	12,00	4	0,0034	0,0031	29,97	€
G0.25-62	62	15,50	16,00	12,00	4	0,0036	0,0034	30,17	€
G0.25-63	63	15,75	16,25	12,00	4	0,0037	0,0035	30,33	€
G0.25-64	64	16,00	16,50	12,00	4	0,0038	0,0036	30,64	€
G0.25-65	65	16,25	16,75	12,00	4	0,0040	0,0037	30,95	€
G0.25-68	68	17,00	17,50	12,00	4	0,0043	0,0041	25,24	€
G0.25-70	70	17,50	18,00	12,00	4	0,0046	0,0044	25,39	€
G0.25-72	72	18,00	18,50	12,00	4	0,0049	0,0046	31,74	€
G0.25-75	75	18,75	19,25	12,00	4	0,0053	0,0050	31,97	€
G0.25-76	76	19,00	19,50	12,00	4	0,0054	0,0052	32,29	€
G0.25-80	80	20,00	20,50	12,00	4	0,0060	0,0058	32,61	€
G0.25-84	84	21,00	21,50	12,00	4	0,0066	0,0064	26,48	€
G0.25-86	86	21,50	22,00	12,00	4	0,0069	0,0067	26,60	€
G0.25-88	88	22,00	22,50	12,00	4	0,0073	0,0070	33,03	€
G0.25-90	90	22,50	23,00	12,00	4	0,0076	0,0074	33,13	€
G0.25-93	93	23,25	23,75	12,00	4	0,0081	0,0079	33,32	€
G0.25-95	95	23,75	24,25	12,00	4	0,0085	0,0082	33,61	€
G0.25-96	96	24,00	24,50	12,00	4	0,0087	0,0084	33,74	€
G0.25-97	97	24,25	24,75	12,00	4	0,0088	0,0086	33,89	€
G0.25-99	99	24,75	25,25	12,00	4	0,0092	0,0090	34,02	€
G0.25-100	100	25,00	25,50	12,00	4	0,0094	0,0092	34,22	€
G0.25-108	108	27,00	27,50	12,00	4	0,0110	0,0107	34,48	€
G0.25-110	110	27,50	28,00	12,00	4	0,0114	0,0111	34,69	€
G0.25-115	115	28,75	29,25	12,00	4	0,0124	0,0122	35,03	€
G0.25-120	120	30,00	30,50	12,00	4	0,0135	0,0133	35,63	€
G0.25-124	124	31,00	31,50	12,00	4	0,0144	0,0142	36,13	€
G0.25-127	127	31,75	32,25	12,00	4	0,0151	0,0149	36,60	€
G0.25-130	130	32,50	33,00	12,00	4	0,0159	0,0156	37,17	€
G0.25-132	132	33,00	33,50	12,00	4	0,0164	0,0161	37,86	€
G0.25-136	136	34,00	34,50	12,00	4	0,0174	0,0171	39,57	€
G0.25-140	140	35,00	35,50	12,00	4	0,0184	0,0182	41,19	€
G0.25-148	148	37,00	37,50	12,00	4	0,0206	0,0203	43,95	€
G0.25-150	150	37,50	38,00	12,00	4	0,0211	0,0209	47,96	€
G0.25-156	156	39,00	39,50	12,00	4	0,0229	0,0226	51,33	€
G0.25-180	180	45,00	45,50	12,00	4	0,0304	0,0302	44,42	€
G0.25-200	200	50,00	50,50	12,00	4	0,0376	0,0373	64,40	€
G0.25-250	250	62,50	63,00	20,00	6	0,0587	0,0585	56,19	€



Gears available up to this size



G0.25-558 558 139,50 140,00 Dimensions: contact us

On request

MODULE

0.3

Stainless steel 303

- Quality standard 9

- Pressure angle 20°

- Material: stainless steel (303)

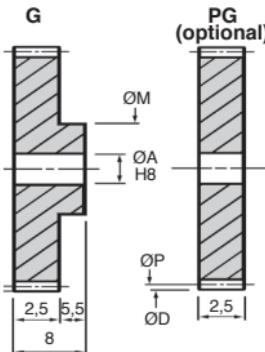
Z10CNF18.09

- Linear speed 300m/min

Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 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	14,30	€
G0.3-21	21	6,30	6,90	6,90	2	0,0020	0,0005	14,55	€
G0.3-22	22	6,60	7,20	7,20	2	0,0022	0,0006	14,77	€
G0.3-23	23	6,90	7,50	7,50	2	0,0024	0,0007	14,89	€
G0.3-24	24	7,20	7,80	7,80	2	0,0026	0,0007	15,04	€
G0.3-25	25	7,50	8,10	8,10	2	0,0028	0,0008	15,31	€
G0.3-26	26	7,80	8,40	8,40	3	0,0028	0,0008	15,48	€
G0.3-27	27	8,10	8,70	8,70	3	0,0031	0,0009	15,63	€
G0.3-28	28	8,40	9,00	9,00	3	0,0033	0,0009	15,78	€
G0.3-29	29	8,70	9,30	9,30	3	0,0036	0,0010	16,03	€
G0.3-30	30	9,00	9,60	8,00	3	0,0038	0,0011	16,24	€
G0.3-31	31	9,30	9,90	8,00	3	0,0039	0,0012	16,45	€
G0.3-32	32	9,60	10,20	8,00	3	0,0041	0,0012	16,52	€
G0.3-33	33	9,90	10,50	8,00	3	0,0042	0,0013	16,75	€
G0.3-34	34	10,20	10,80	8,00	3	0,0043	0,0014	16,90	€
G0.3-35	35	10,50	11,10	8,00	3	0,0044	0,0015	17,03	€
G0.3-36	36	10,80	11,40	10,00	3	0,0046	0,0016	17,11	€
G0.3-37	37	11,10	11,70	10,00	3	0,0047	0,0017	17,24	€
G0.3-38	38	11,40	12,00	10,00	3	0,0048	0,0018	17,52	€
G0.3-39	39	11,70	12,30	10,00	3	0,0049	0,0019	17,69	€
G0.3-40	40	12,00	12,60	10,00	3	0,0050	0,0020	17,80	€
G0.3-41	41	12,30	12,90	10,00	3	0,0051	0,0021	17,93	€
G0.3-42	42	12,60	13,20	10,00	3	0,0053	0,0023	18,15	€

Dimensions in mm

On request

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
G0.3-43	43	12,90	13,50	10,00	3	0,0054	0,0024	18,29 €	
G0.3-44	44	13,20	13,80	10,00	3	0,0055	0,0025	18,45 €	
G0.3-45	45	13,50	14,10	10,00	3	0,0056	0,0026	18,56 €	
G0.3-46	46	13,80	14,40	10,00	3	0,0057	0,0027	18,78 €	
G0.3-47	47	14,10	14,70	10,00	3	0,0059	0,0029	18,96 €	
G0.3-48	48	14,40	15,00	10,00	3	0,0060	0,0030	19,07 €	
G0.3-49	49	14,70	15,30	10,00	3	0,0061	0,0031	19,21 €	
G0.3-50	50	15,00	15,60	10,00	3	0,0063	0,0032	19,41 €	
G0.3-52	52	15,60	16,20	10,00	3	0,0065	0,0035	19,54 €	
G0.3-54	54	16,20	16,80	10,00	3	0,0068	0,0038	19,73 €	
G0.3-55	55	16,50	17,10	12,00	4	0,0081	0,0039	19,80 €	
G0.3-58	58	17,40	18,00	12,00	4	0,0085	0,0043	20,03 €	
G0.3-60	60	18,00	18,60	12,00	4	0,0089	0,0046	20,30 €	
G0.3-62	62	18,60	19,20	12,00	4	0,0092	0,0050	20,56 €	
G0.3-63	63	18,90	19,50	12,00	4	0,0094	0,0051	20,88 €	
G0.3-64	64	19,20	19,80	12,00	4	0,0095	0,0053	21,11 €	
G0.3-65	65	19,50	20,10	12,00	4	0,0097	0,0055	21,34 €	
G0.3-68	68	20,40	21,00	12,00	4	0,0102	0,0060	21,62 €	
G0.3-70	70	21,00	21,60	12,00	4	0,0106	0,0064	21,91 €	
G0.3-72	72	21,60	22,20	12,00	4	0,0110	0,0068	22,14 €	
G0.3-75	75	22,50	23,10	12,00	4	0,0116	0,0074	22,38 €	
G0.3-76	76	22,80	23,40	12,00	4	0,0018	0,0076	22,67 €	
G0.3-80	80	24,00	24,60	12,00	4	0,0126	0,0084	22,83 €	
G0.3-84	84	25,20	25,80	12,00	4	0,0135	0,0093	22,99 €	
G0.3-86	86	25,80	26,40	12,00	4	0,0140	0,0098	23,13 €	
G0.3-88	88	26,40	27,00	12,00	4	0,0145	0,0102	23,25 €	
G0.3-90	90	27,00	27,60	12,00	4	0,0149	0,0107	23,47 €	
G0.3-93	93	27,90	28,50	12,00	4	0,0157	0,0115	23,66 €	
G0.3-95	95	28,50	29,10	12,00	4	0,0162	0,0120	23,76 €	
G0.3-96	96	28,80	29,40	12,00	4	0,0165	0,0122	23,87 €	
G0.3-97	97	29,10	29,70	12,00	4	0,0167	0,0125	24,04 €	
G0.3-99	99	29,70	30,30	12,00	4	0,0172	0,0130	24,31 €	
G0.3-100	100	30,00	30,60	12,00	4	0,0175	0,0133	24,45 €	
G0.3-108	108	32,40	33,00	12,00	4	0,0198	0,0155	24,64 €	
G0.3-110	110	33,00	33,60	12,00	4	0,0204	0,0161	24,74 €	
G0.3-115	115	34,50	35,10	12,00	4	0,0219	0,0176	24,86 €	
G0.3-120	120	36,00	36,60	12,00	4	0,0235	0,0192	25,00 €	
G0.3-124	124	37,20	37,80	12,00	4	0,0248	0,0206	25,09 €	
G0.3-127	127	38,10	38,70	12,00	4	0,0258	0,0216	25,17 €	
G0.3-130	130	39,00	39,60	12,00	4	0,0268	0,0226	25,27 €	
G0.3-132	132	39,60	40,20	12,00	4	0,0276	0,0233	25,36 €	
G0.3-136	136	40,80	41,40	12,00	4	0,0290	0,0248	26,16 €	
G0.3-140	140	42,00	42,60	12,00	4	0,0305	0,0263	26,74 €	
G0.3-148	148	44,40	45,00	12,00	4	0,0336	0,0294	28,87 €	
G0.3-150	150	45,00	45,60	12,00	4	0,0344	0,0302	29,71 €	
G0.3-156	156	46,80	47,40	12,00	4	0,0369	0,0327	31,44 €	
G0.3-160	160	48,00	48,60	12,00	4	0,0386	0,0344	40,08 €	
G0.3-180	180	54,00	54,60	12,00	5	0,0478	0,0436	46,26 €	
G0.3-200	200	60,00	60,60	20,00	5	0,0581	0,0538	47,39 €	
G0.3-240	240	72,00	72,60	20,00	8	0,0819	0,0776	51,35 €	



Gears available up to this size



G0.3-464 464 139,20 139,80

Dimensions: contact us

On request

Dimensions in mm

Steel spur gear



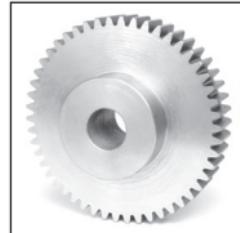
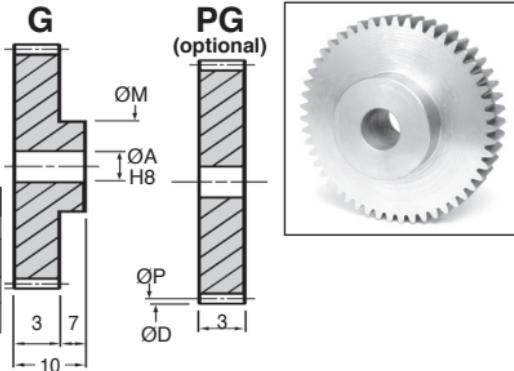
MODULE

0.4



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

Steel 34C10



Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 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	14,60 €	
G0.4-11	11	4,80	5,60	5,60	2	0,0015	0,0003	14,60 €	
G0.4-12	12	4,80	5,60	5,60	2	0,0015	0,0003	14,60 €	
G0.4-13	13	5,20	6,00	6,00	2	0,0018	0,0004	14,60 €	
G0.4-14	14	5,60	6,40	6,40	2	0,0020	0,0005	14,77 €	
G0.4-15	15	6,00	6,80	6,80	2	0,0024	0,0006	14,77 €	
G0.4-16	16	6,40	7,20	7,20	2	0,0027	0,0007	14,77 €	
G0.4-17	17	6,80	7,60	7,60	2	0,0030	0,0008	14,77 €	
G0.4-18	18	7,20	8,00	8,00	3	0,0031	0,0008	14,77 €	
G0.4-19	19	7,60	8,40	8,40	3	0,0035	0,0009	14,77 €	
G0.4-20	20	8,00	8,80	8,80	3	0,0039	0,0010	14,77 €	
G0.4-21	21	8,40	9,20	9,20	3	0,0043	0,0011	14,77 €	
G0.4-22	22	8,80	9,60	9,60	3	0,0047	0,0012	14,55 €	
G0.4-23	23	9,20	10,00	10,00	3	0,0052	0,0014	14,60 €	
G0.4-24	24	9,60	10,40	10,40	3	0,0057	0,0015	14,67 €	
G0.4-25	25	10,00	10,80	10,80	3	0,0062	0,0016	14,73 €	
G0.4-26	26	10,40	11,20	8,00	3	0,0041	0,0018	14,77 €	
G0.4-27	27	10,80	11,60	8,00	3	0,0043	0,0019	14,81 €	
G0.4-28	28	11,20	12,00	8,00	3	0,0044	0,0021	14,87 €	
G0.4-29	29	11,60	12,40	8,00	3	0,0046	0,0023	14,89 €	
G0.4-30	30	12,00	12,80	8,00	3	0,0047	0,0024	14,97 €	
G0.4-31	31	12,40	13,20	8,00	3	0,0049	0,0026	14,98 €	
G0.4-32	32	12,80	13,60	8,00	3	0,0051	0,0028	15,04 €	

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G PG	Price each 1 to 5 G PG
G0.4-33	33	13,20	14,00	8,00	3	0,0053 0,0030	15,04 €
G0.4-34	34	13,60	14,40	8,00	3	0,0055 0,0032	15,18 €
G0.4-35	35	14,00	14,80	8,00	3	0,0057 0,0034	15,26 €
G0.4-36	36	14,40	15,20	8,00	3	0,0059 0,0036	15,26 €
G0.4-37	37	14,80	15,60	8,00	3	0,0061 0,0038	15,35 €
G0.4-38	38	15,20	16,00	8,00	3	0,0063 0,0040	15,44 €
G0.4-39	39	15,60	16,40	8,00	3	0,0065 0,0042	15,51 €
G0.4-40	40	16,00	16,80	12,00	4	0,0097 0,0043	15,62 €
G0.4-41	41	16,40	17,20	12,00	4	0,0099 0,0046	15,73 €
G0.4-42	42	16,80	17,60	12,00	4	0,0102 0,0048	15,81 €
G0.4-43	43	17,20	18,00	12,00	4	0,0104 0,0050	15,97 €
G0.4-44	44	17,60	18,40	12,00	4	0,0107 0,0053	16,08 €
G0.4-45	45	18,00	18,80	12,00	4	0,0109 0,0056	16,14 €
G0.4-46	46	18,40	19,20	12,00	4	0,0112 0,0058	16,24 €
G0.4-47	47	18,80	19,60	12,00	4	0,0115 0,0061	16,33 €
G0.4-48	48	19,20	20,00	12,00	4	0,0117 0,0064	16,45 €
G0.4-49	49	19,60	20,40	12,00	4	0,0120 0,0066	16,52 €
G0.4-50	50	20,00	20,80	12,00	4	0,0123 0,0069	16,73 €
G0.4-51	51	20,40	21,20	12,00	4	0,0126 0,0072	16,84 €
G0.4-52	52	20,80	21,60	12,00	4	0,0129 0,0075	16,90 €
G0.4-53	53	21,20	22,00	12,00	4	0,0132 0,0078	17,00 €
G0.4-54	54	21,60	22,40	12,00	4	0,0135 0,0081	17,10 €
G0.4-55	55	22,00	22,80	12,00	4	0,0138 0,0084	17,11 €
G0.4-56	56	22,40	23,20	12,00	4	0,0141 0,0088	17,26 €
G0.4-57	57	22,80	23,60	12,00	4	0,0145 0,0091	17,48 €
G0.4-58	58	23,20	24,00	12,00	4	0,0148 0,0094	17,59 €
G0.4-59	59	23,60	24,40	12,00	4	0,0151 0,0098	17,77 €
G0.4-60	60	24,00	24,80	12,00	4	0,0155 0,0101	17,93 €
G0.4-61	61	24,40	25,20	12,00	4	0,0158 0,0104	18,07 €
G0.4-62	62	24,80	25,60	12,00	4	0,0162 0,0108	18,26 €
G0.4-63	63	25,20	26,00	12,00	4	0,0165 0,0112	18,40 €
G0.4-64	64	25,60	26,40	12,00	4	0,0169 0,0115	18,52 €
G0.4-65	65	26,00	26,80	12,00	4	0,0173 0,0119	18,78 €
G0.4-68	68	27,20	28,00	12,00	4	0,0184 0,0131	18,96 €
G0.4-70	70	28,00	28,80	12,00	4	0,0192 0,0138	19,07 €
G0.4-72	72	28,80	29,60	12,00	4	0,0201 0,0147	19,18 €
G0.4-75	75	30,00	30,80	12,00	4	0,0213 0,0159	19,25 €
G0.4-77	77	30,80	31,60	12,00	4	0,0222 0,0168	19,41 €
G0.4-80	80	32,00	32,80	12,00	5	0,0230 0,0180	19,58 €
G0.4-84	84	33,60	34,40	12,00	5	0,0249 0,0199	19,98 €
G0.4-86	86	34,40	35,20	12,00	5	0,0259 0,0209	20,31 €
G0.4-88	88	35,20	36,00	12,00	5	0,0269 0,0219	20,68 €
G0.4-90	90	36,00	36,80	12,00	5	0,0279 0,0229	21,11 €
G0.4-96	96	38,40	39,20	12,00	5	0,0311 0,0261	21,52 €
G0.4-100	100	40,00	40,80	12,00	5	0,0334 0,0284	21,84 €
G0.4-120	120	48,00	48,80	12,00	5	0,0461 0,0411	22,22 €
G0.4-140	140	56,00	56,80	12,00	5	0,0611 0,0561	24,14 €
G0.4-150	150	60,00	60,80	12,00	5	0,0695 0,0645	28,68 €
G0.4-180	180	72,00	72,80	15,00	6	0,1008 0,0928	34,97 €



Gears available up to this size



G0.4-348 348 139,20 140,00 Dimensions: contact us On request

Plastic spur gear



MODULE

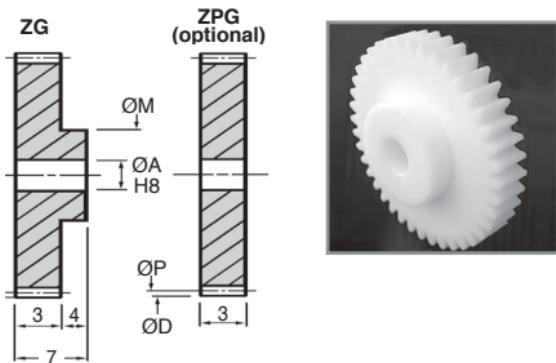
0.4



- Machined parts
- Quality standard 9
- Pressure angle 20°
- Working temp.: -50°C to +80°C

Torque indication	
For 50 teeth at 1000 rpm	
Deirlin	
Nm	0.04

Machined Delrin



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	Price each 1 to 5 ZG	Weight (kg) ZPG	Price each 1 to 5 ZPG
ZG0.4-10	10	4,40	5,20	5,20	1,50	0,0002	0,0001	6,46 €	
ZG0.4-11	11	4,80	5,60	5,60	1,50	0,0002	0,0001	6,47 €	
ZG0.4-12	12	4,80	5,60	5,60	1,50	0,0002	0,0001	6,48 €	
ZG0.4-13	13	5,20	6,00	6,00	1,50	0,0002	0,0001	6,50 €	
ZG0.4-14	14	5,60	6,40	6,40	2,00	0,0002	0,0001	6,52 €	
ZG0.4-15	15	6,00	6,80	6,80	2,00	0,0002	0,0001	6,55 €	
ZG0.4-16	16	6,40	7,20	7,00	2,00	0,0002	0,0001	6,57 €	
ZG0.4-17	17	6,80	7,60	7,00	2,00	0,0002	0,0001	6,60 €	
ZG0.4-18	18	7,20	8,00	7,00	2,00	0,0003	0,0001	7,36 €	
ZG0.4-19	19	7,60	8,40	7,00	2,00	0,0003	0,0002	7,36 €	
ZG0.4-20	20	8,00	8,80	7,00	2,00	0,0004	0,0002	7,36 €	
ZG0.4-21	21	8,40	9,20	7,00	2,00	0,0004	0,0002	7,36 €	
ZG0.4-22	22	8,80	9,60	7,00	2,00	0,0004	0,0002	7,29 €	
ZG0.4-23	23	9,20	10,00	9,00	2,00	0,0006	0,0002	7,29 €	
ZG0.4-24	24	9,60	10,40	9,00	2,00	0,0006	0,0003	7,29 €	
ZG0.4-25	25	10,00	10,80	9,00	2,00	0,0006	0,0003	7,36 €	
ZG0.4-26	26	10,40	11,20	9,00	2,00	0,0006	0,0003	7,36 €	
ZG0.4-27	27	10,80	11,60	9,00	2,00	0,0007	0,0003	7,44 €	
ZG0.4-28	28	11,20	12,00	11,00	3,00	0,0008	0,0004	7,44 €	
ZG0.4-29	29	11,60	12,40	11,00	3,00	0,0008	0,0004	7,44 €	
ZG0.4-30	30	12,00	12,80	11,00	3,00	0,0009	0,0004	7,44 €	
ZG0.4-31	31	12,40	13,20	11,00	3,00	0,0009	0,0004	7,48 €	
ZG0.4-32	32	12,80	13,60	11,00	3,00	0,0009	0,0005	7,48 €	

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	Price each 1 to 5 ZG
ZG0.4-33	33	13,20	14,00	11	3,00	0,0010	0,0005 7,48 €
ZG0.4-34	34	13,60	14,40	11	3,00	0,0010	0,0005 7,59 €
ZG0.4-35	35	14,00	14,80	11	3,00	0,0010	0,0006 7,59 €
ZG0.4-36	36	14,40	15,20	11	3,00	0,0011	0,0006 7,59 €
ZG0.4-37	37	14,80	15,60	11	3,00	0,0011	0,0006 7,67 €
ZG0.4-38	38	15,20	16,00	11	3,00	0,0011	0,0007 7,79 €
ZG0.4-39	39	15,60	16,40	11	3,00	0,0012	0,0007 7,79 €
ZG0.4-40	40	16,00	16,80	11	3,00	0,0012	0,0007 7,85 €
ZG0.4-41	41	16,40	17,20	11	3,00	0,0012	0,0008 7,85 €
ZG0.4-42	42	16,80	17,60	11	3,00	0,0013	0,0008 7,91 €
ZG0.4-43	43	17,20	18,00	11	3,00	0,0013	0,0009 7,99 €
ZG0.4-44	44	17,60	18,40	11	3,00	0,0014	0,0009 8,02 €
ZG0.4-45	45	18,00	18,80	11	3,00	0,0014	0,0010 8,02 €
ZG0.4-46	46	18,40	19,20	11	3,00	0,0015	0,0010 8,17 €
ZG0.4-47	47	18,80	19,60	11	3,00	0,0015	0,0010 8,23 €
ZG0.4-48	48	19,20	20,00	11	3,00	0,0015	0,0011 8,23 €
ZG0.4-49	49	19,60	20,40	14	4,00	0,0018	0,0011 8,30 €
ZG0.4-50	50	20,00	20,80	14	4,00	0,0019	0,0012 8,33 €
ZG0.4-51	51	20,40	21,20	14	4,00	0,0019	0,0012 8,39 €
ZG0.4-52	52	20,80	21,60	14	4,00	0,0020	0,0013 8,39 €
ZG0.4-53	53	21,20	22,00	14	4,00	0,0020	0,0013 8,53 €
ZG0.4-54	54	21,60	22,40	14	4,00	0,0021	0,0014 8,55 €
ZG0.4-55	55	22,00	22,80	14	4,00	0,0021	0,0014 8,55 €
ZG0.4-56	56	22,40	23,20	14	4,00	0,0022	0,0015 8,68 €
ZG0.4-57	57	22,80	23,60	14	4,00	0,0023	0,0015 8,76 €
ZG0.4-58	58	23,20	24,00	14	4,00	0,0023	0,0016 8,84 €
ZG0.4-59	59	23,60	24,40	14	4,00	0,0024	0,0016 8,91 €
ZG0.4-60	60	24,00	24,80	14	4,00	0,0024	0,0017 8,96 €
ZG0.4-61	61	24,40	25,20	14	4,00	0,0025	0,0018 9,06 €
ZG0.4-62	62	24,80	25,60	14	4,00	0,0025	0,0018 9,11 €
ZG0.4-63	63	25,20	26,00	14	4,00	0,0026	0,0019 9,25 €
ZG0.4-64	64	25,60	26,40	14	4,00	0,0027	0,0019 9,28 €
ZG0.4-65	65	26,00	26,80	14	4,00	0,0027	0,0020 9,42 €
ZG0.4-68	68	27,20	28,00	14	4,00	0,0029	0,0022 9,50 €
ZG0.4-70	70	28,00	28,80	14	4,00	0,0031	0,0023 9,59 €
ZG0.4-72	72	28,80	29,60	14	4,00	0,0032	0,0025 9,59 €
ZG0.4-75	75	30,00	30,80	14	4,00	0,0034	0,0027 10,61 €
ZG0.4-77	77	30,80	31,60	14	4,00	0,0036	0,0028 10,71 €
ZG0.4-80	80	32,00	32,80	14	4,00	0,0038	0,0031 10,71 €
ZG0.4-84	84	33,60	34,40	14	4,00	0,0041	0,0034 10,90 €
ZG0.4-86	86	34,40	35,20	14	4,00	0,0043	0,0035 11,00 €
ZG0.4-88	88	35,20	36,00	14	4,00	0,0044	0,0037 11,12 €
ZG0.4-90	90	36,00	36,80	14	4,00	0,0046	0,0039 11,30 €
ZG0.4-96	96	38,40	39,20	14	4,00	0,0051	0,0044 11,56 €
ZG0.4-100	100	40,00	40,80	14	4,00	0,0055	0,0048 13,37 €
ZG0.4-120	120	48,00	48,80	14	4,00	0,0077	0,0069 13,59 €
ZG0.4-140	140	56,00	56,80	14	4,00	0,0102	0,0095 15,11 €
ZG0.4-150	150	60,00	60,80	20	6,00	0,0116	0,0109 16,90 €
ZG0.4-180	180	72,00	72,80	20	6,00	0,0164	0,0157 18,67 €



Gears available up to this size



ZG0.4-348 348 139,20 140,00 Dimensions: contact us

On request

Dimensions in mm

Steel spur gear



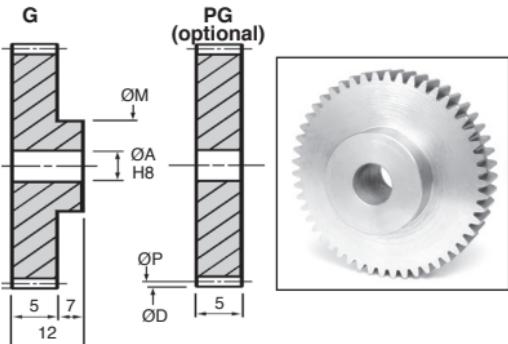
MODULE

0.5



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

Steel 34C10



Torque and power indication			
For 50 teeth at 1000 rpm			
34C10 Z10CNF18.09	34C10 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	Price each 1 to 5 G	Price each 1 to 5 PG
G0.5-10	10	5,50	6,50	6,50	3	-	0,0020	0,0006	15,26 €
G0.5-11	11	6,00	7,00	7,00	3	-	0,0025	0,0008	15,26 €
G0.5-12	12	6,00	7,00	7,00	3	✓	0,0025	0,0008	15,26 €
G0.5-13	13	6,50	7,50	7,50	3	-	0,0030	0,0010	15,44 €
G0.5-14	14	7,00	8,00	8,00	3	✓	0,0035	0,0012	15,62 €
G0.5-15	15	7,50	8,50	8,50	3	✓	0,0037	0,0014	15,81 €
G0.5-16	16	8,00	9,00	8,50	4	✓	0,0038	0,0014	16,08 €
G0.5-17	17	8,50	9,50	8,50	4	-	0,0041	0,0017	16,22 €
G0.5-18	18	9,00	10,00	8,50	4	✓	0,0043	0,0020	16,33 €
G0.5-19	19	9,50	10,50	8,50	4	-	0,0046	0,0022	16,52 €
G0.5-20	20	10,00	11,00	8,50	4	✓	0,0049	0,0025	16,84 €
G0.5-21	21	10,50	11,50	8,50	4	-	0,0052	0,0028	17,00 €
G0.5-22	22	11,00	12,00	8,50	4	-	0,0055	0,0032	17,19 €
G0.5-23	23	11,50	12,50	8,50	4	✓	0,0059	0,0035	17,42 €
G0.5-24	24	12,00	13,00	10,00	5	✓	0,0067	0,0036	17,59 €
G0.5-25	25	12,50	13,50	10,00	5	✓	0,0071	0,0039	17,80 €
G0.5-26	26	13,00	14,00	10,00	5	-	0,0075	0,0043	18,02 €
G0.5-27	27	13,50	14,50	10,00	5	-	0,0079	0,0047	18,26 €
G0.5-28	28	14,00	15,00	10,00	5	-	0,0083	0,0051	18,52 €
G0.5-29	29	14,50	15,50	10,00	5	-	0,0087	0,0056	18,52 €
G0.5-30	30	15,00	16,00	10,00	5	✓	0,0092	0,0060	18,62 €
G0.5-31	31	15,50	16,50	10,00	5	-	0,0096	0,0065	18,85 €
G0.5-32	32	16,00	17,00	10,00	5	✓	0,0101	0,0069	19,07 €
G0.5-33	33	16,50	17,50	10,00	5	-	0,0106	0,0074	19,25 €
G0.5-34	34	17,00	18,00	10,00	5	-	0,0111	0,0079	19,43 €
G0.5-35	35	17,50	18,50	10,00	5	✓	0,0116	0,0085	19,73 €

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G	Price each 1 to 5 PG
G0.5-36	36	18,00	19,00	10,00	5	✓	0,0121	0,0090 19,93 €
G0.5-37	37	18,50	19,50	10,00	5	-	0,0127	0,0095 20,14 €
G0.5-38	38	19,00	20,00	10,00	5	-	0,0133	0,0101 20,30 €
G0.5-39	39	19,50	20,50	10,00	5	-	0,0138	0,0107 20,54 €
G0.5-40	40	20,00	21,00	10,00	5	✓	0,0144	0,0113 20,73 €
G0.5-41	41	20,50	21,50	10,00	5	-	0,0150	0,0119 20,96 €
G0.5-42	42	21,00	22,00	10,00	5	-	0,0157	0,0125 21,17 €
G0.5-43	43	21,50	22,50	10,00	5	-	0,0163	0,0131 21,34 €
G0.5-44	44	22,00	23,00	10,00	5	-	0,0169	0,0138 21,57 €
G0.5-45	45	22,50	23,50	10,00	5	-	0,0176	0,0145 21,77 €
G0.5-46	46	23,00	24,00	10,00	5	-	0,0183	0,0151 22,00 €
G0.5-47	47	23,50	24,50	10,00	5	-	0,0190	0,0158 22,19 €
G0.5-48	48	24,00	25,00	10,00	5	-	0,0197	0,0166 22,67 €
G0.5-49	49	24,50	25,50	10,00	5	✓	0,0204	0,0173 22,67 €
G0.5-50	50	25,00	26,00	12,00	6	✓	0,0222	0,0177 22,90 €
G0.5-51	51	25,50	26,50	12,00	6	-	0,0230	0,0185 23,05 €
G0.5-52	52	26,00	27,00	12,00	6	-	0,0238	0,0192 23,17 €
G0.5-53	53	26,50	27,50	12,00	6	-	0,0246	0,0200 23,39 €
G0.5-54	54	27,00	28,00	12,00	6	-	0,0254	0,0208 23,50 €
G0.5-55	55	27,50	28,50	12,00	6	-	0,0262	0,0216 23,67 €
G0.5-56	56	28,00	29,00	12,00	6	-	0,0270	0,0225 23,81 €
G0.5-57	57	28,50	29,50	12,00	6	-	0,0279	0,0233 23,99 €
G0.5-58	58	29,00	30,00	12,00	6	-	0,0287	0,0242 24,14 €
G0.5-59	59	29,50	30,50	12,00	6	-	0,0296	0,0251 24,31 €
G0.5-60	60	30,00	31,00	12,00	6	✓	0,0305	0,0260 24,45 €
G0.5-61	61	30,50	31,50	12,00	6	-	0,0314	0,0269 24,56 €
G0.5-62	62	31,00	32,00	12,00	6	-	0,0323	0,0278 24,74 €
G0.5-64	64	32,00	33,00	12,00	6	-	0,0342	0,0297 25,09 €
G0.5-65	65	32,50	33,50	12,00	6	-	0,0352	0,0307 25,27 €
G0.5-68	68	34,00	35,00	12,00	6	-	0,0382	0,0337 25,42 €
G0.5-70	70	35,00	36,00	12,00	6	✓	0,0403	0,0357 25,72 €
G0.5-72	72	36,00	37,00	12,00	6	✓	0,0424	0,0379 25,97 €
G0.5-75	75	37,50	38,50	12,00	6	-	0,0457	0,0412 26,18 €
G0.5-77	77	38,50	39,50	12,00	6	-	0,0480	0,0435 26,48 €
G0.5-80	80	40,00	41,00	12,00	6	✓	0,0515	0,0470 26,74 €
G0.5-84	84	42,00	43,00	12,00	6	-	0,0565	0,0519 26,95 €
G0.5-86	86	43,00	44,00	12,00	6	-	0,0590	0,0545 27,29 €
G0.5-88	88	44,00	45,00	12,00	6	-	0,0616	0,0571 27,49 €
G0.5-90	90	45,00	46,00	12,00	6	✓	0,0643	0,0598 27,82 €
G0.5-96	96	48,00	49,00	12,00	6	-	0,0727	0,0682 28,07 €
G0.5-100	100	50,00	51,00	12,00	6	✓	0,0786	0,0740 28,17 €
G0.5-120	120	60,00	61,00	18,00	6	✓	0,1116	0,1071 34,10 €
G0.5-140	140	70,00	71,00	18,00	6	-	0,1507	0,1462 40,75 €
G0.5-150	150	75,00	76,00	18,00	6	-	0,1725	0,1679 44,30 €
G0.5-180	180	90,00	91,00	20,00	8	-	0,2469	0,2423 50,11 €
G0.5-200	200	100,00	101,00	20,00	8	-	0,3040	0,2994 54,73 €
G0.5-220	220	110,00	111,00	20,00	10	-	0,3671	0,3625 59,67 €
G0.5-250	250	125,00	126,00	20,00	10	-	0,4730	0,4684 65,59 €



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

Plastic spur gear



**MODULE
0.5**



- Machined parts

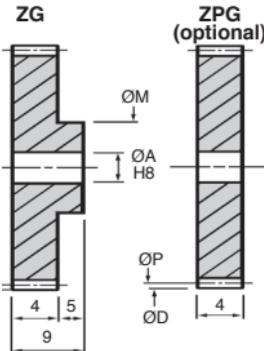
- Quality standard 9
- Pressure angle 20°
- Working temp. -50°C to +80°C

Torque indication	
For 50 teeth at 1000 rpm	
	Delrin
Nm	0.1



in STOCK*

otherwise contact us



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock* ZG	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG0.5-10	10	5,50	6,50	6,5	2	-	0,0003	0,0001	6,99 €	
ZG0.5-11	11	6,00	7,00	7	2	-	0,0003	0,0001	6,99 €	
ZG0.5-12	12	6,00	7,00	7	2	✓	0,0003	0,0001	7,91 €	
ZG0.5-13	13	6,50	7,50	7	2	-	0,0004	0,0002	7,91 €	
ZG0.5-14	14	7,00	8,00	7	2	-	0,0004	0,0002	7,08 €	
ZG0.5-15	15	7,50	8,50	7	2	✓	0,0004	0,0002	7,91 €	
ZG0.5-16	16	8,00	9,00	7	2	✓	0,0005	0,0002	7,04 €	
ZG0.5-17	17	8,50	9,50	8	2	-	0,0006	0,0003	8,17 €	
ZG0.5-18	18	9,00	10,00	8	2	-	0,0006	0,0003	8,23 €	
ZG0.5-19	19	9,50	10,50	9	3	-	0,0007	0,0003	8,30 €	
ZG0.5-20	20	10,00	11,00	9	3	✓	0,0007	0,0004	8,39 €	
ZG0.5-21	21	10,50	11,50	9	3	-	0,0008	0,0004	8,53 €	
ZG0.5-22	22	11,00	12,00	9	3	-	0,0008	0,0005	8,55 €	
ZG0.5-23	23	11,50	12,50	10	3	-	0,0010	0,0005	8,76 €	
ZG0.5-24	24	12,00	13,00	10	3	✓	0,0010	0,0005	8,84 €	
ZG0.5-25	25	12,50	13,50	10	3	✓	0,0011	0,0006	8,91 €	
ZG0.5-26	26	13,00	14,00	10	3	✓	0,0011	0,0006	9,06 €	
ZG0.5-27	27	13,50	14,50	10	3	-	0,0012	0,0007	9,11 €	
ZG0.5-28	28	14,00	15,00	10	3	✓	0,0012	0,0008	9,28 €	
ZG0.5-29	29	14,50	15,50	10	3	-	0,0013	0,0008	9,28 €	
ZG0.5-30	30	15,00	16,00	12	4	✓	0,0015	0,0008	9,33 €	
ZG0.5-31	31	15,50	16,50	12	4	-	0,0016	0,0009	9,42 €	
ZG0.5-32	32	16,00	17,00	12	4	✓	0,0016	0,0010	9,59 €	
ZG0.5-33	33	16,50	17,50	12	4	-	0,0017	0,0010	9,63 €	

*Depending on availability- Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) ZG	ZPG	Price each 1 to 5 ZG
ZG0.5-34	34	17,00	18,00	12	4	✓	0,0017	0,0011	9,66 €
ZG0.5-35	35	17,50	18,50	12	4	✓	0,0018	0,0012	9,87 €
ZG0.5-36	36	18,00	19,00	12	4	✓	0,0019	0,0012	9,97 €
ZG0.5-40	40	20,00	21,00	12	4	✓	0,0022	0,0016	10,39 €
ZG0.5-41	41	20,50	21,50	12	4	-	0,0023	0,0016	10,47 €
ZG0.5-42	42	21,00	22,00	12	4	-	0,0024	0,0017	10,61 €
ZG0.5-43	43	21,50	22,50	12	4	-	0,0024	0,0018	10,71 €
ZG0.5-44	44	22,00	23,00	12	4	-	0,0025	0,0019	10,90 €
ZG0.5-45	45	22,50	23,50	12	4	✓	0,0026	0,0020	10,93 €
ZG0.5-46	46	23,00	24,00	12	4	-	0,0027	0,0021	11,00 €
ZG0.5-47	47	23,50	24,50	12	4	-	0,0028	0,0022	11,12 €
ZG0.5-48	48	24,00	25,00	12	4	-	0,0029	0,0023	11,42 €
ZG0.5-49	49	24,50	25,50	12	4	-	0,0030	0,0024	11,42 €
ZG0.5-50	50	25,00	26,00	12	4	✓	0,0031	0,0025	11,48 €
ZG0.5-51	51	25,50	26,50	12	4	✓	0,0032	0,0026	11,56 €
ZG0.5-52	52	26,00	27,00	12	4	-	0,0033	0,0027	11,60 €
ZG0.5-53	53	26,50	27,50	12	4	-	0,0034	0,0028	11,66 €
ZG0.5-54	54	27,00	28,00	14	4	-	0,0038	0,0029	11,79 €
ZG0.5-55	55	27,50	28,50	14	4	-	0,0039	0,0030	11,85 €
ZG0.5-56	56	28,00	29,00	14	4	✓	0,0040	0,0031	11,96 €
ZG0.5-57	57	28,50	29,50	14	4	-	0,0041	0,0032	12,02 €
ZG0.5-58	58	29,00	30,00	14	4	-	0,0042	0,0033	13,37 €
ZG0.5-59	59	29,50	30,50	14	4	-	0,0044	0,0035	13,42 €
ZG0.5-60	60	30,00	31,00	14	4	✓	0,0045	0,0036	13,49 €
ZG0.5-61	61	30,50	31,50	14	4	-	0,0046	0,0037	13,59 €
ZG0.5-62	62	31,00	32,00	14	4	-	0,0047	0,0038	13,64 €
ZG0.5-63	63	31,50	32,50	14	4	-	0,0049	0,0039	13,74 €
ZG0.5-64	64	32,00	33,00	14	4	-	0,0050	0,0041	13,93 €
ZG0.5-65	65	32,50	33,50	14	4	✓	0,0051	0,0042	14,00 €
ZG0.5-68	68	34,00	35,00	14	4	-	0,0055	0,0046	14,02 €
ZG0.5-70	70	35,00	36,00	14	4	✓	0,0058	0,0049	14,18 €
ZG0.5-72	72	36,00	37,00	14	4	✓	0,0061	0,0052	14,33 €
ZG0.5-75	75	37,50	38,50	14	4	-	0,0065	0,0056	14,49 €
ZG0.5-77	77	38,50	39,50	14	4	-	0,0068	0,0059	14,70 €
ZG0.5-80	80	40,00	41,00	16	5	✓	0,0075	0,0064	16,73 €
ZG0.5-84	84	42,00	43,00	16	5	-	0,0082	0,0070	16,90 €
ZG0.5-86	86	43,00	44,00	16	5	-	0,0085	0,0074	17,19 €
ZG0.5-88	88	44,00	45,00	16	5	-	0,0089	0,0077	17,28 €
ZG0.5-90	90	45,00	46,00	16	5	✓	0,0092	0,0081	17,42 €
ZG0.5-96	96	48,00	49,00	16	5	-	0,0104	0,0092	17,59 €
ZG0.5-100	100	50,00	51,00	16	5	✓	0,0112	0,0100	21,34 €
ZG0.5-120	120	60,00	61,00	16	5	✓	0,0156	0,0144	29,17 €
ZG0.5-150	150	75,00	76,00	20	8	✓	0,0238	0,0226	40,22 €
ZG0.5-180	180	90,00	91,00	20	8	-	0,0338	0,0326	50,56 €
ZG0.5-200	200	100,00	101,00	30	10	-	0,0415	0,0403	41,07 €
ZG0.5-220	220	110,00	111,00	30	10	-	0,0499	0,0488	41,07 €
ZG0.5-250	250	125,00	126,00	50	12	-	0,0642	0,0630	50,56 €



Gears available up to this size



ZG0.5-278 278 139,00 140,00

Dimensions: contact us

On request

Brass spur gear



**MODULE
0.5**



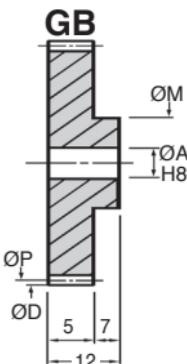
Torque and power indication	
For 50 teeth at 1000 rpm	
34C10	Brass
Nm	0.391
kW	0.041

- Quality standard 9

- Pressure angle 20°



Brass CuZn40Pb3



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
GB0.5-10	10	5,50	6,50	6,50	3	-	10,02 €
GB0.5-12	12	6,00	7,00	7,00	3	✓	10,51 €
GB0.5-15	15	7,50	8,50	8,50	3	✓	11,01 €
GB0.5-18	18	9,00	10,00	8,50	4	-	11,55 €
GB0.5-20	20	10,00	11,00	8,50	4	✓	12,03 €
GB0.5-22	22	11,00	12,00	8,50	4	-	12,53 €
GB0.5-25	25	12,50	13,50	10,00	5	✓	13,79 €
GB0.5-28	28	14,00	15,00	10,00	5	✓	14,79 €
GB0.5-30	30	15,00	16,00	10,00	5	✓	15,03 €
GB0.5-35	35	17,50	18,50	10,00	5	-	15,54 €
GB0.5-40	40	20,00	21,00	10,00	5	✓	16,55 €
GB0.5-45	45	22,50	23,50	10,00	5	-	18,05 €
GB0.5-50	50	25,00	26,00	12,00	6	✓	20,06 €
GB0.5-55	55	27,50	28,50	12,00	6	-	21,06 €
GB0.5-60	60	30,00	31,00	12,00	6	✓	22,08 €
GB0.5-70	70	35,00	36,00	12,00	6	✓	25,09 €
GB0.5-80	80	40,00	41,00	12,00	6	✓	32,62 €
GB0.5-90	90	45,00	46,00	12,00	6	-	35,12 €
GB0.5-100	100	50,00	51,00	12,00	6	✓	36,64 €
GB0.5-120	120	60,00	61,00	18,00	6	✓	47,69 €
GB0.5-140	140	70,00	71,00	18,00	6	-	90,36 €
GB0.5-150	150	75,00	76,00	18,00	6	-	95,39 €
GB0.5-180	180	90,00	91,00	20,00	8	✓	165,67 €

↓ Gears available up to this size ↓

GB0.5-278	278	139,00	140,00	Dimensions: contact us	On request
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Dimensions in mm

Stainless steel 303

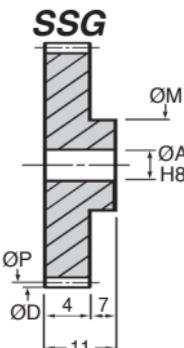
MODULE

0.5



- Quality standard 9
- Pressure angle 20°

Torque and power indication			
For 50 teeth at 1000 rpm			
	STS 303	brass	fibre
Nm			
kW			



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Price each 1 to 5
SSG0.5-12-303	12	6,0	7,0	7,0	3	-	16,29 €
SSG0.5-15-303	15	7,5	8,5	8,5	3	-	16,84 €
SSG0.5-16-303	16	8,0	9,0	8,5	4	-	17,14 €
SSG0.5-18-303	18	9,0	10,0	8,5	4	-	17,36 €
SSG0.5-20-303	20	10,0	11,0	8,5	4	-	17,88 €
SSG0.5-22-303	22	11,0	12,0	8,5	4	-	18,29 €
SSG0.5-24-303	24	12,0	13,0	10,0	5	-	18,78 €
SSG0.5-25-303	25	12,5	13,5	10,0	5	-	18,93 €
SSG0.5-26-303	26	13,0	14,0	10,0	5	-	19,20 €
SSG0.5-28-303	28	14,0	15,0	10,0	5	-	19,73 €
SSG0.5-30-303	30	15,0	16,0	10,0	5	-	19,83 €
SSG0.5-32-303	32	16,0	17,0	10,0	5	-	20,30 €
SSG0.5-36-303	36	18,0	19,0	10,0	5	-	21,18 €
SSG0.5-40-303	40	20,0	21,0	10,0	5	-	22,09 €
SSG0.5-44-303	44	22,0	23,0	10,0	5	-	22,97 €
SSG0.5-48-303	48	24,0	25,0	10,0	5	-	24,06 €
SSG0.5-50-303	50	25,0	26,0	12,0	6	-	24,37 €
SSG0.5-54-303	54	27,0	28,0	12,0	6	-	25,00 €
SSG0.5-56-303	56	28,0	29,0	12,0	6	-	25,36 €
SSG0.5-60-303	60	30,0	31,0	12,0	6	-	26,03 €
SSG0.5-64-303	64	32,0	33,0	12,0	6	-	28,54 €
SSG0.5-70-303	70	35,0	36,0	12,0	6	-	29,27 €
SSG0.5-80-303	80	40,0	41,0	12,0	6	-	30,41 €



Gears available up to this size



SSG0.5-278-303 278 139,0 140,0 Dimensions: contact us On request

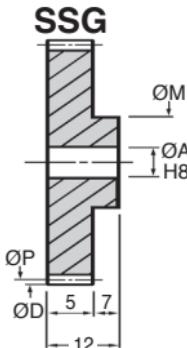
*Depending on availability - Dimensions in mm

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	



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	20,35 €
SSG0.5-15-304L	15	7,5	8,5	8,5	3	21,08 €
SSG0.5-16-304L	16	8	9	8,5	4	21,43 €
SSG0.5-18-304L	18	9	10	8,5	4	21,69 €
SSG0.5-20-304L	20	10	11	8,5	4	22,35 €
SSG0.5-22-304L	22	11	12	8,5	4	22,90 €
SSG0.5-24-304L	24	12	13	10	5	23,49 €
SSG0.5-25-304L	25	12,5	13,5	10	5	23,72 €
SSG0.5-26-304L	26	13	14	10	5	24,04 €
SSG0.5-28-304L	28	14	15	10	5	24,67 €
SSG0.5-30-304L	30	15	16	10	5	24,83 €
SSG0.5-32-304L	32	16	17	10	5	25,41 €
SSG0.5-36-304L	36	18	19	10	5	26,56 €
SSG0.5-40-304L	40	20	21	10	5	27,63 €
SSG0.5-44-304L	44	22	23	10	5	28,76 €
SSG0.5-48-304L	48	24	25	10	5	30,17 €
SSG0.5-50-304L	50	25	26	12	6	30,47 €
SSG0.5-54-304L	54	27	28	12	6	31,28 €
SSG0.5-56-304L	56	28	29	12	6	31,74 €
SSG0.5-60-304L	60	30	31	12	6	32,58 €
SSG0.5-64-304L	64	32	33	12	6	35,71 €
SSG0.5-70-304L	70	35	36	12	6	36,58 €
SSG0.5-80-304L	80	40	41	12	6	38,02 €



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

Stainless steel 316L

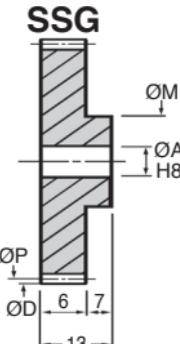
MODULE 0.5



- Quality standard 9

- Pressure angle 20°

Torque and power indication			
For 50 teeth at 1000 rpm			
	STS 316L	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
SSG0.5-12-316L	12	6,0	7,0	7,0	3	30,54 €
SSG0.5-16-316L	16	8,0	9,0	8,5	4	32,16 €
SSG0.5-18-316L	18	9,0	10,0	8,5	4	32,55 €
SSG0.5-20-316L	20	10,0	11,0	8,5	4	33,54 €
SSG0.5-22-316L	22	11,0	12,0	8,5	4	34,31 €
SSG0.5-24-316L	24	12,0	13,0	10,0	5	35,25 €
SSG0.5-25-316L	25	12,5	13,5	10,0	5	35,50 €
SSG0.5-26-316L	26	13,0	14,0	10,0	5	36,01 €
SSG0.5-28-316L	28	14,0	15,0	10,0	5	36,99 €
SSG0.5-30-316L	30	15,0	16,0	10,0	5	37,19 €
SSG0.5-32-316L	32	16,0	17,0	10,0	5	38,07 €
SSG0.5-36-316L	36	18,0	19,0	10,0	5	39,72 €
SSG0.5-40-316L	40	20,0	21,0	10,0	5	41,43 €
SSG0.5-44-316L	44	22,0	23,0	10,0	5	43,07 €
SSG0.5-48-316L	48	24,0	25,0	10,0	5	45,13 €
SSG0.5-50-316L	50	25,0	26,0	12,0	6	45,71 €
SSG0.5-54-316L	54	27,0	28,0	12,0	6	46,89 €
SSG0.5-56-316L	56	28,0	29,0	12,0	6	47,56 €
SSG0.5-60-316L	60	30,0	31,0	12,0	6	48,80 €
SSG0.5-64-316L	64	32,0	33,0	12,0	6	53,53 €
SSG0.5-70-316L	70	35,0	36,0	12,0	6	54,87 €
SSG0.5-80-316L	80	40,0	41,0	12,0	6	57,05 €



Gears available up to this size



SSG0.5-278-316L 278 139,0 140,0 Dimensions: contact us On request

*Depending on availability - Dimensions in mm

MODULE

0.6

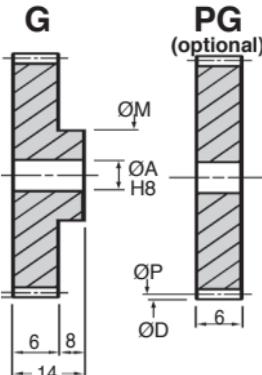


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Steel 34C10

Option

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



Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 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	Weight (kg) PG	Stock*	Price each 1 to 5 G	Price each 1 to 5 PG
G0.6-10	10	6,60	7,80	7,80	3	0,004	0,001	-	16,03 €	
G0.6-12	12	7,80	9,00	9,00	3	0,005	0,002	✓	16,03 €	
G0.6-14	14	8,40	9,60	9,60	4	0,006	0,002	-	16,03 €	
G0.6-16	16	9,60	10,80	10,80	4	0,008	0,003	✓	16,41 €	
G0.6-18	18	10,80	12,00	12,00	4	0,010	0,004	✓	17,11 €	
G0.6-20	20	12,00	13,20	12,00	4	0,011	0,005	✓	18,10 €	
G0.6-22	22	13,20	14,40	12,00	4	0,012	0,006	-	18,74 €	
G0.6-24	24	14,40	15,60	12,00	4	0,013	0,007	✓	18,89 €	
G0.6-28	28	16,80	18,00	12,00	4	0,016	0,010	-	19,65 €	
G0.6-29	29	17,40	18,60	12,00	4	0,016	0,010	-	19,89 €	
G0.6-35	35	21,00	22,20	15,00	5	0,025	0,015	-	20,66 €	
G0.6-40	40	24,00	25,20	15,00	5	0,029	0,020	✓	20,89 €	
G0.6-50	50	30,00	31,60	20,00	6	0,049	0,030	-	21,27 €	
G0.6-55	55	33,00	34,20	20,00	6	0,055	0,038	-	21,53 €	
G0.6-60	60	36,00	37,20	20,00	6	0,063	0,045	-	21,91 €	
G0.6-63	63	37,80	39,00	20,00	6	0,068	0,050	-	22,19 €	
G0.6-80	80	48,00	49,20	20,00	6	0,099	0,082	-	23,47 €	
G0.6-84	84	50,40	51,60	30,00	8	0,129	0,089	-	24,04 €	
G0.6-120	120	72,00	73,20	30,00	8	0,225	0,185	-	36,59 €	
G0.6-150	150	90,00	91,20	30,00	8	0,330	0,290	-	48,68 €	



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

On request

Steel 34C10

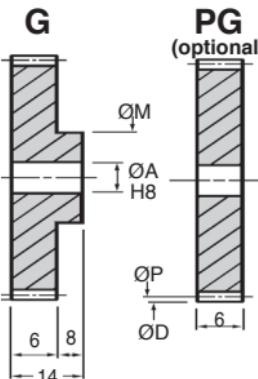
MODULE
0.7

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

Option

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

Torque and power indication			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	1	5	0.54
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	-	17,11 €	
G0.7-10	10	7,70	9,10	9,10	4	0,005	0,003	✓	17,11 €	
G0.7-11	11	8,40	9,80	9,80	4	0,006	0,004	-	17,11 €	
G0.7-12	12	8,40	9,80	9,80	5	0,006	0,005	✓	17,11 €	
G0.7-13	13	9,10	10,50	10,50	5	0,007	0,005	-	17,58 €	
G0.7-15	15	10,50	11,90	11,90	5	0,009	0,006	✓	18,36 €	
G0.7-18	18	12,60	14,00	12,00	5	0,011	0,008	✓	19,80 €	
G0.7-20	20	14,00	15,40	12,00	5	0,012	0,009	✓	20,22 €	
G0.7-24	24	16,80	18,20	12,00	5	0,015	0,012	✓	21,03 €	
G0.7-26	26	18,20	19,60	12,00	5	0,017	0,014	-	21,50 €	
G0.7-28	28	19,60	21,00	12,00	5	0,019	0,016	-	21,77 €	
G0.7-30	30	21,00	22,40	12,00	5	0,021	0,018	-	22,13 €	
G0.7-35	35	24,50	25,90	16,00	6	0,031	0,025	-	22,33 €	
G0.7-40	40	28,00	29,40	16,00	6	0,038	0,031	✓	22,57 €	
G0.7-42	42	29,40	30,80	16,00	6	0,040	0,034	✓	22,70 €	
G0.7-48	48	33,60	35,00	16,00	6	0,050	0,044	-	23,13 €	
G0.7-50	50	35,00	36,40	16,00	6	0,053	0,047	✓	23,39 €	
G0.7-60	60	42,00	43,40	16,00	6	0,073	0,067	-	24,38 €	
G0.7-70	70	49,00	50,40	16,00	8	0,094	0,092	-	25,39 €	
G0.7-76	76	53,20	54,60	16,00	8	0,109	0,107	-	26,74 €	
G0.7-175	175	122,50	123,90	25,00	12	0,566	0,547	-	70,80 €	



Gears available up to this size



G0.7-198 198 138,60 140,00 Dimensions: contact us

On request

*Depending on availability - Dimensions in mm

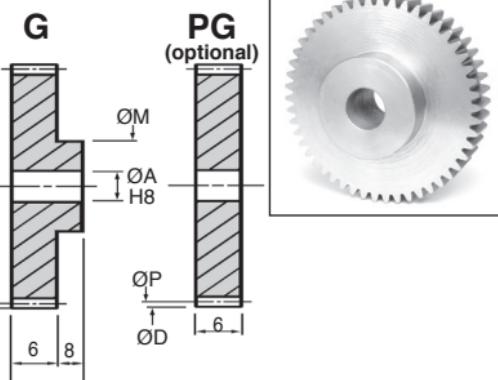
MODULE

0.75



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

Steel 34C10



Option

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

Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 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	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	16,03 €
G0.75-11	11	9,00	10,50	10,50	4	0,007	0,002	16,41 €
G0.75-13	13	9,75	11,25	11,25	5	0,008	0,003	16,75 €
G0.75-14	14	10,50	12,00	12,00	5	0,009	0,003	17,13 €
G0.75-15	15	11,25	12,75	12,00	5	0,009	0,004	17,58 €
G0.75-17	17	12,75	14,25	12,00	5	0,011	0,005	18,52 €
G0.75-18	18	13,50	15,00	12,00	5	0,011	0,006	18,89 €
G0.75-20	20	15,00	16,50	12,00	5	0,013	0,007	19,25 €
G0.75-22	22	16,50	18,00	12,00	5	0,015	0,009	19,65 €
G0.75-24	24	18,00	19,50	12,00	5	0,017	0,011	20,03 €
G0.75-25	25	18,75	20,25	12,00	5	0,017	0,012	20,25 €
G0.75-28	28	21,00	22,50	12,00	5	0,021	0,015	20,66 €
G0.75-30	30	22,50	24,00	12,00	5	0,023	0,017	20,84 €
G0.75-40	40	30,00	31,50	16,00	6	0,042	0,031	21,27 €
G0.75-45	45	33,75	35,25	16,00	6	0,050	0,040	21,62 €
G0.75-60	60	45,00	46,50	16,00	6	0,082	0,072	23,17 €
G0.75-70	70	52,50	54,00	16,00	8	0,106	0,097	24,31 €
G0.75-72	72	54,00	55,50	16,00	8	0,112	0,103	25,00 €
G0.75-100	100	75,00	76,50	16,00	8	0,210	0,201	41,11 €
G0.75-150	150	112,50	114,00	20,00	10	0,470	0,454	67,26 €
G0.75-180	180	135,00	136,50	30,00	12	0,671	0,655	91,59 €

↓ Gears available up to this size ↓

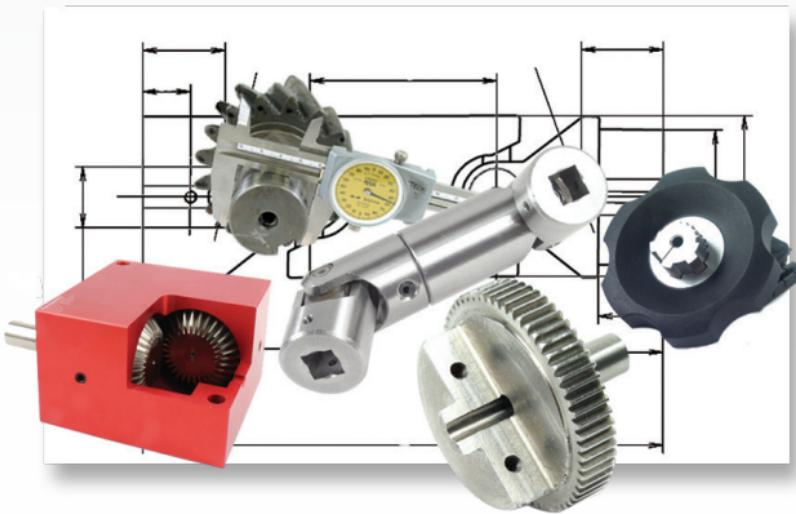
G0.75-184 184 138,00 139,50 Dimensions: contact us On request

Dimensions in mm

On request

Your parts made to measure

Bore, keyway,
standard modification...
Machined to drawings or
from samples...



Send us your requests to
cial2@hpceurope.com

Steel spur gear

Stock Ste ✓ 1 2 3

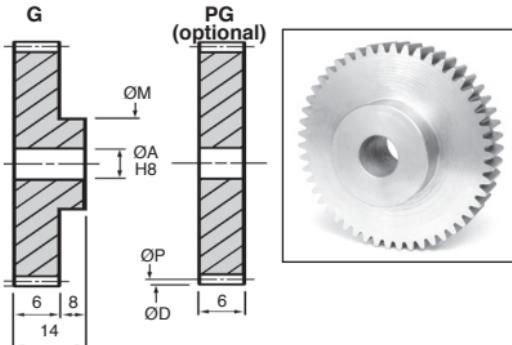
MODULE

0.8



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

Steel 34C10



Torque and power indication				
For 50 teeth at 1000 rpm				
	34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm	1	5	0.54	0.450
KW	0.104	0.522	0.06	0.045



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	Stock*	Weight (kg) G	Weight (kg) PG	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	17,11 €	
G0.8-10	10	8,80	10,40	10,40	5	✓	0,007	0,003	17,11 €	
G0.8-11	11	9,60	11,20	11,20	5	✓	0,009	0,004	17,11 €	
G0.8-12	12	9,60	11,20	11,20	5	✓	0,009	0,004	17,11 €	
G0.8-13	13	10,40	12,00	12,00	5	-	0,011	0,005	17,58 €	
G0.8-14	14	11,20	12,80	12,00	5	✓	0,012	0,006	17,93 €	
G0.8-15	15	12,00	13,60	12,00	5	✓	0,013	0,007	18,36 €	
G0.8-16	16	12,80	14,40	12,00	5	✓	0,014	0,008	18,81 €	
G0.8-17	17	13,60	15,20	12,00	5	-	0,015	0,010	19,41 €	
G0.8-18	18	14,40	16,00	12,00	5	✓	0,017	0,011	19,80 €	
G0.8-19	19	15,20	16,80	12,00	5	-	0,018	0,012	20,16 €	
G0.8-20	20	16,00	17,60	12,00	5	✓	0,020	0,014	20,22 €	
G0.8-21	21	16,80	18,40	12,00	5	-	0,021	0,015	20,42 €	
G0.8-22	22	17,60	19,20	12,00	5	-	0,023	0,017	20,66 €	
G0.8-23	23	18,40	20,00	12,00	5	-	0,025	0,019	20,88 €	
G0.8-24	24	19,20	20,80	12,00	5	✓	0,026	0,021	21,03 €	
G0.8-25	25	20,00	21,60	12,00	5	✓	0,028	0,023	21,27 €	
G0.8-26	26	20,80	22,40	12,00	5	-	0,030	0,024	21,50 €	
G0.8-27	27	21,60	23,20	12,00	5	-	0,032	0,027	21,68 €	
G0.8-28	28	22,40	24,00	12,00	5	-	0,034	0,029	21,77 €	
G0.8-29	29	23,20	24,80	12,00	5	✓	0,037	0,031	21,95 €	
G0.8-30	30	24,00	25,60	16,00	6	✓	0,043	0,032	22,13 €	
G0.8-31	31	24,80	26,40	16,00	6	-	0,045	0,035	22,14 €	
G0.8-32	32	25,60	27,20	16,00	6	✓	0,048	0,037	22,19 €	

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G PG	Price each 1 to 5 PG
G0.8-33	33	26,40	28,00	16,00	6	-	0,050 0,040	22,28 €
G0.8-34	34	27,20	28,80	16,00	6	-	0,053 0,042	22,29 €
G0.8-35	35	28,00	29,60	16,00	6	-	0,056 0,045	22,33 €
G0.8-36	36	28,80	30,40	16,00	6	✓	0,058 0,048	22,38 €
G0.8-37	37	29,60	31,20	16,00	6	-	0,061 0,050	22,44 €
G0.8-38	38	30,40	32,00	16,00	6	✓	0,064 0,053	22,51 €
G0.8-39	39	31,20	32,80	16,00	6	-	0,067 0,056	22,51 €
G0.8-40	40	32,00	33,60	16,00	6	✓	0,070 0,059	22,67 €
G0.8-41	41	32,80	34,40	16,00	6	-	0,073 0,062	22,70 €
G0.8-42	42	33,60	35,20	16,00	6	-	0,076 0,066	22,74 €
G0.8-43	43	34,40	36,00	16,00	6	-	0,080 0,069	22,77 €
G0.8-44	44	35,20	36,80	16,00	6	-	0,083 0,072	22,83 €
G0.8-45	45	36,00	37,60	16,00	6	-	0,086 0,076	22,90 €
G0.8-46	46	36,80	38,40	16,00	6	-	0,090 0,079	22,99 €
G0.8-47	47	37,60	39,20	16,00	6	-	0,093 0,083	23,05 €
G0.8-48	48	38,40	40,00	16,00	6	-	0,097 0,086	23,13 €
G0.8-49	49	39,20	40,80	16,00	6	-	0,101 0,090	23,17 €
G0.8-50	50	40,00	41,60	16,00	6	✓	0,105 0,094	23,22 €
G0.8-51	51	40,80	42,40	16,00	6	-	0,108 0,098	23,39 €
G0.8-52	52	41,60	43,20	16,00	6	-	0,112 0,102	21,72 €
G0.8-53	53	42,40	44,00	16,00	6	✓	0,116 0,106	23,56 €
G0.8-54	54	43,20	44,80	16,00	6	-	0,121 0,110	23,67 €
G0.8-55	55	44,00	45,60	16,00	6	-	0,125 0,114	23,76 €
G0.8-56	56	44,80	46,40	16,00	6	-	0,129 0,118	23,86 €
G0.8-57	57	45,60	47,20	16,00	6	-	0,133 0,123	23,99 €
G0.8-58	58	46,40	48,00	16,00	6	-	0,138 0,127	24,04 €
G0.8-59	59	47,20	48,80	16,00	6	-	0,142 0,132	24,18 €
G0.8-60	60	48,00	49,60	16,00	8	✓	0,144 0,135	24,31 €
G0.8-61	61	48,80	50,40	16,00	8	-	0,149 0,139	24,38 €
G0.8-62	62	49,60	51,20	16,00	8	-	0,153 0,144	24,51 €
G0.8-63	63	50,40	52,00	16,00	8	✓	0,158 0,149	24,56 €
G0.8-64	64	51,20	52,80	16,00	8	-	0,163 0,154	24,68 €
G0.8-66	66	52,80	54,40	16,00	8	-	0,173 0,164	24,78 €
G0.8-68	68	54,40	56,00	16,00	8	-	0,183 0,174	24,90 €
G0.8-70	70	56,00	57,60	16,00	8	✓	0,194 0,185	25,09 €
G0.8-75	75	60,00	61,60	16,00	8	-	0,222 0,213	25,39 €
G0.8-76	76	60,80	62,40	16,00	8	-	0,228 0,218	26,03 €
G0.8-80	80	64,00	65,60	16,00	8	-	0,252 0,242	26,74 €
G0.8-86	86	68,80	70,40	16,00	8	-	0,290 0,281	27,19 €
G0.8-88	88	70,40	72,00	16,00	8	-	0,303 0,294	27,58 €
G0.8-90	90	72,00	73,60	20,00	8	✓	0,324 0,308	28,17 €
G0.8-96	96	76,80	78,40	20,00	8	-	0,367 0,351	28,68 €
G0.8-100	100	80,00	81,60	20,00	8	✓	0,397 0,381	31,41 €
G0.8-112	112	89,60	91,20	20,00	8	-	0,495 0,479	36,40 €
G0.8-120	120	96,00	97,60	20,00	8	-	0,566 0,550	41,45 €
G0.8-127	127	101,60	103,20	25,00	10	-	0,633 0,617	49,77 €
G0.8-128	128	102,40	104,00	25,00	10	-	0,653 0,626	51,35 €
G0.8-140	140	112,00	113,60	25,00	10	-	0,777 0,750	54,22 €
G0.8-150	150	120,00	121,60	25,00	12	-	0,889 0,862	62,74 €



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

MODULE

0.8

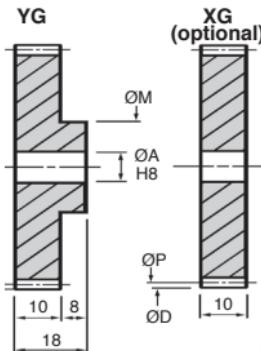


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material 20NCD2 case-hardened

Torque and power indication			
For 50 teeth at 1000 rpm			
	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	4.000	5.800	4.000
kW	0.418	0.612	0.418
			11.000
			1.119



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	Stock*	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG0.8-9	9	8,00	9,60	9,60	5	✓	0,008	0,002	21,34 €	
YG0.8-10	10	8,80	10,40	10,40	5	✓	0,010	0,003	21,34 €	
YG0.8-11	11	9,60	11,20	11,20	5	-	0,011	0,004	21,34 €	
YG0.8-12	12	9,60	11,20	11,20	5	✓	0,011	0,004	21,34 €	
YG0.8-13	13	10,40	12,00	12,40	5	✓	0,014	0,005	21,91 €	
YG0.8-14	14	11,20	12,80	12,80	5	-	0,015	0,006	22,33 €	
YG0.8-15	15	12,00	13,60	13,60	5	✓	0,017	0,007	22,90 €	
YG0.8-16	16	12,80	14,40	14,00	5	✓	0,019	0,008	23,47 €	
YG0.8-17	17	13,60	15,20	14,00	5	-	0,020	0,010	24,18 €	
YG0.8-18	18	14,40	16,00	14,00	5	✓	0,022	0,011	24,68 €	
YG0.8-19	19	15,20	16,80	14,00	5	-	0,023	0,012	25,00 €	
YG0.8-20	20	16,00	17,60	14,00	5	✓	0,025	0,014	25,27 €	
YG0.8-21	21	16,80	18,40	14,00	5	-	0,026	0,015	25,42 €	
YG0.8-22	22	17,60	19,20	14,00	5	-	0,028	0,017	25,77 €	
YG0.8-23	23	18,40	20,00	14,00	5	-	0,030	0,019	26,03 €	
YG0.8-24	24	19,20	20,80	14,00	5	✓	0,031	0,021	26,19 €	
YG0.8-25	25	20,00	21,60	14,00	5	✓	0,033	0,023	26,53 €	
YG0.8-26	26	20,80	22,40	14,00	5	-	0,035	0,024	26,79 €	
YG0.8-27	27	21,60	23,20	14,00	5	-	0,037	0,027	27,01 €	
YG0.8-28	28	22,40	24,00	14,00	5	-	0,039	0,029	27,19 €	
YG0.8-29	29	23,20	24,80	14,00	5	-	0,042	0,031	27,36 €	
YG0.8-30	30	24,00	25,60	20,00	6	✓	0,054	0,032	27,52 €	
YG0.8-31	31	24,80	26,40	20,00	6	-	0,056	0,035	27,58 €	
YG0.8-33	33	26,40	28,00	20,00	6	-	0,061	0,040	27,82 €	

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) YG XG	Price each 1 to 5 YG XG
YG0.8-34	34	27,20	28,80	20,00	6	-	0,063	0,042 27,84 €
YG0.8-35	35	28,00	29,60	20,00	6	✓	0,066	0,045 27,92 €
YG0.8-36	36	28,80	30,40	20,00	6	-	0,069	0,048 27,95 €
YG0.8-37	37	29,60	31,20	20,00	6	-	0,072	0,050 28,00 €
YG0.8-38	38	30,40	32,00	20,00	6	✓	0,075	0,053 28,08 €
YG0.8-39	39	31,20	32,80	20,00	6	-	0,078	0,056 28,15 €
YG0.8-40	40	32,00	33,60	20,00	6	✓	0,081	0,059 28,17 €
YG0.8-41	41	32,80	34,40	20,00	6	-	0,084	0,062 28,23 €
YG0.8-42	42	33,60	35,20	20,00	6	-	0,087	0,066 28,30 €
YG0.8-43	43	34,40	36,00	20,00	6	-	0,090	0,069 28,32 €
YG0.8-44	44	35,20	36,80	20,00	6	-	0,093	0,072 28,48 €
YG0.8-45	45	36,00	37,60	20,00	6	-	0,097	0,076 28,60 €
YG0.8-46	46	36,80	38,40	20,00	6	-	0,100	0,079 28,69 €
YG0.8-47	47	37,60	39,20	20,00	6	-	0,104	0,083 28,74 €
YG0.8-48	48	38,40	40,00	20,00	6	-	0,108	0,086 28,87 €
YG0.8-49	49	39,20	40,80	20,00	6	-	0,111	0,090 28,90 €
YG0.8-50	50	40,00	41,60	20,00	6	✓	0,115	0,094 28,92 €
YG0.8-51	51	40,80	42,40	20,00	6	-	0,119	0,098 29,15 €
YG0.8-52	52	41,60	43,20	20,00	6	✓	0,123	0,102 29,27 €
YG0.8-53	53	42,40	44,00	20,00	6	-	0,127	0,106 29,34 €
YG0.8-54	54	43,20	44,80	20,00	6	✓	0,131	0,110 29,49 €
YG0.8-55	55	44,00	45,60	20,00	6	-	0,135	0,114 29,66 €
YG0.8-56	56	44,80	46,40	20,00	6	-	0,140	0,118 29,73 €
YG0.8-57	57	45,60	47,20	20,00	6	-	0,144	0,123 29,94 €
YG0.8-58	58	46,40	48,00	20,00	6	-	0,148	0,127 30,03 €
YG0.8-59	59	47,20	48,80	20,00	6	-	0,153	0,132 30,11 €
YG0.8-60	60	48,00	49,60	20,00	6	-	0,157	0,136 30,26 €
YG0.8-61	61	48,80	50,40	20,00	6	-	0,162	0,141 30,40 €
YG0.8-62	62	49,60	51,20	20,00	6	-	0,167	0,146 30,54 €
YG0.8-63	63	50,40	52,00	20,00	6	-	0,172	0,151 30,70 €
YG0.8-64	64	51,20	52,80	20,00	6	-	0,177	0,155 30,82 €
YG0.8-66	66	52,80	54,40	30,00	8	-	0,210	0,164 30,89 €
YG0.8-68	68	54,40	56,00	40,00	8	-	0,254	0,174 31,04 €
YG0.8-70	70	56,00	57,60	40,00	8	-	0,265	0,185 31,29 €
YG0.8-75	75	60,00	61,60	40,00	8	-	0,293	0,213 31,67 €
YG0.8-76	76	60,80	62,40	40,00	8	✓	0,299	0,218 32,40 €
YG0.8-80	80	64,00	65,60	40,00	8	-	0,323	0,242 33,35 €
YG0.8-86	86	68,80	70,40	40,00	8	-	0,361	0,281 33,82 €
YG0.8-88	88	70,40	72,00	40,00	8	-	0,374	0,294 34,40 €
YG0.8-90	90	72,00	73,60	40,00	8	✓	0,388	0,308 35,13 €
YG0.8-96	96	76,80	78,40	40,00	8	-	0,431	0,351 35,70 €
YG0.8-100	100	80,00	81,60	40,00	8	✓	0,461	0,381 39,19 €
YG0.8-112	112	89,60	91,20	40,00	8	-	0,559	0,479 45,45 €
YG0.8-120	120	96,00	97,60	40,00	8	-	0,630	0,550 51,65 €
YG0.8-127	127	101,60	103,20	40,00	10	-	0,697	0,617 62,02 €
YG0.8-128	128	102,40	104,00	50,00	10	-	0,750	0,624 64,02 €
YG0.8-140	140	112,00	113,60	50,00	10	-	0,873	0,748 67,66 €
YG0.8-150	150	120,00	121,60	50,00	12	-	0,985	0,859 78,21 €
YG0.8-175	175	140,00	141,60	50,00	12	-	1,298	1,172 99,39 €
YG0.8-200	200	160,00	161,60	50,00	15	-	1,658	1,533 111,44 €



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

Plastic spur gear



MODULE

0.8



- Machined parts

- Quality standard 9
- Pressure angle 20°
- Working temp. -50°C to +80°C

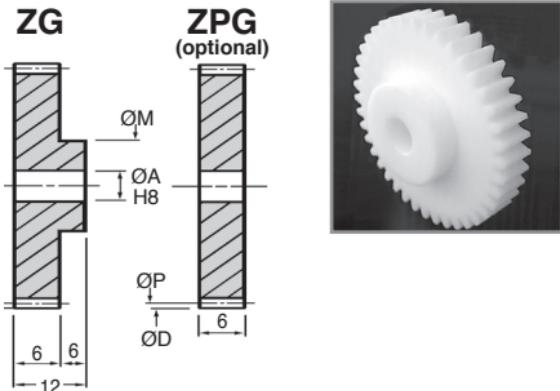
Torque indication

For 50 teeth at 1000 rpm

Delrin

Nm	0.3
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Machined Delrin



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
ZG0.8-9	9	8,00	9,60	9,60	3	0,0008	0,0003	8,55 €	
ZG0.8-10	10	8,80	10,40	10,40	3	0,0010	0,0004	8,55 €	
ZG0.8-11	11	9,60	11,20	11,20	3	0,0012	0,0005	8,55 €	
ZG0.8-12	12	9,60	11,20	11,20	3	0,0012	0,0005	8,55 €	
ZG0.8-13	13	10,40	12,00	12,00	3	0,0014	0,0006	8,84 €	
ZG0.8-14	14	11,20	12,80	12,80	3	0,0016	0,0007	8,96 €	
ZG0.8-15	15	12,00	13,60	13,60	3	0,0019	0,0008	9,25 €	
ZG0.8-16	16	12,80	14,40	14,40	3	0,0021	0,0009	9,42 €	
ZG0.8-17	17	13,60	15,20	15,20	3	0,0024	0,0011	9,66 €	
ZG0.8-18	18	14,40	16,00	14,00	4	0,0023	0,0012	9,97 €	
ZG0.8-19	19	15,20	16,80	14,00	4	0,0024	0,0013	10,03 €	
ZG0.8-20	20	16,00	17,60	14,00	4	0,0025	0,0015	10,13 €	
ZG0.8-21	21	16,80	18,40	14,00	4	0,0027	0,0016	10,23 €	
ZG0.8-22	22	17,60	19,20	14,00	4	0,0029	0,0018	10,36 €	
ZG0.8-23	23	18,40	20,00	14,00	4	0,0030	0,0020	10,47 €	
ZG0.8-24	24	19,20	20,80	14,00	4	0,0032	0,0021	10,51 €	
ZG0.8-25	25	20,00	21,60	14,00	4	0,0034	0,0023	10,61 €	
ZG0.8-26	26	20,80	22,40	14,00	4	0,0036	0,0025	10,78 €	
ZG0.8-27	27	21,60	23,20	14,00	4	0,0038	0,0027	10,90 €	
ZG0.8-28	28	22,40	24,00	14,00	4	0,0040	0,0029	10,93 €	
ZG0.8-29	29	23,20	24,80	14,00	4	0,0043	0,0032	11,00 €	
ZG0.8-30	30	24,00	25,60	15,00	5	0,0046	0,0033	11,08 €	
ZG0.8-31	31	24,80	26,40	15,00	5	0,0048	0,0036	11,08 €	

Dimensions in mm

On request

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
ZG0.8-32	32	25,60	27,20	15,00	5	0,0050	0,0038	11,12	€
ZG0.8-33	33	26,40	28,00	15,00	5	0,0053	0,0041	11,12	€
ZG0.8-34	34	27,20	28,80	15,00	5	0,0055	0,0043	11,12	€
ZG0.8-35	35	28,00	29,60	15,00	5	0,0058	0,0046	11,23	€
ZG0.8-36	36	28,80	30,40	15,00	5	0,0061	0,0049	12,37	€
ZG0.8-38	38	30,40	32,00	15,00	5	0,0067	0,0054	12,47	€
ZG0.8-39	39	31,20	32,80	15,00	5	0,0070	0,0057	12,47	€
ZG0.8-40	40	32,00	33,60	15,00	5	0,0073	0,0061	12,53	€
ZG0.8-41	41	32,80	34,40	15,00	5	0,0076	0,0064	12,53	€
ZG0.8-42	42	33,60	35,20	15,00	5	0,0079	0,0067	12,53	€
ZG0.8-43	43	34,40	36,00	15,00	5	0,0082	0,0070	12,55	€
ZG0.8-44	44	35,20	36,80	15,00	5	0,0086	0,0074	12,55	€
ZG0.8-45	45	36,00	37,60	15,00	5	0,0089	0,0077	12,66	€
ZG0.8-46	46	36,80	38,40	15,00	5	0,0093	0,0081	12,66	€
ZG0.8-47	47	37,60	39,20	15,00	5	0,0096	0,0084	12,77	€
ZG0.8-48	48	38,40	40,00	15,00	5	0,0100	0,0088	14,54	€
ZG0.8-49	49	39,20	40,80	15,00	5	0,0104	0,0092	14,54	€
ZG0.8-50	50	40,00	41,60	15,00	5	0,0108	0,0095	14,54	€
ZG0.8-51	51	40,80	42,40	15,00	5	0,0111	0,0099	14,70	€
ZG0.8-52	52	41,60	43,20	15,00	5	0,0115	0,0103	14,73	€
ZG0.8-53	53	42,40	44,00	15,00	5	0,0120	0,0107	14,83	€
ZG0.8-54	54	43,20	44,80	15,00	5	0,0124	0,0112	14,89	€
ZG0.8-55	55	44,00	45,60	15,00	5	0,0128	0,0116	14,97	€
ZG0.8-57	57	45,60	47,20	18,00	6	0,0141	0,0124	15,04	€
ZG0.8-58	58	46,40	48,00	18,00	6	0,0146	0,0128	15,11	€
ZG0.8-59	59	47,20	48,80	18,00	6	0,0150	0,0133	15,21	€
ZG0.8-60	60	48,00	49,60	18,00	6	0,0155	0,0137	15,24	€
ZG0.8-61	61	48,80	50,40	18,00	6	0,0160	0,0142	18,45	€
ZG0.8-62	62	49,60	51,20	18,00	6	0,0164	0,0147	18,52	€
ZG0.8-63	63	50,40	52,00	18,00	6	0,0169	0,0152	18,55	€
ZG0.8-64	64	51,20	52,80	18,00	6	0,0174	0,0157	18,67	€
ZG0.8-66	66	52,80	54,40	18,00	6	0,0184	0,0167	18,74	€
ZG0.8-68	68	54,40	56,00	18,00	6	0,0195	0,0177	18,81	€
ZG0.8-70	70	56,00	57,60	18,00	6	0,0205	0,0188	19,00	€
ZG0.8-75	75	60,00	61,60	18,00	6	0,0233	0,0216	21,77	€
ZG0.8-76	76	60,80	62,40	18,00	6	0,0239	0,0222	22,90	€
ZG0.8-80	80	64,00	65,60	18,00	6	0,0263	0,0246	23,23	€
ZG0.8-86	86	68,80	70,40	18,00	6	0,0302	0,0285	23,69	€
ZG0.8-88	88	70,40	72,00	18,00	6	0,0316	0,0298	24,10	€
ZG0.8-90	90	72,00	73,60	22,00	6	0,0339	0,0312	24,10	€
ZG0.8-96	96	76,80	78,40	22,00	6	0,0382	0,0355	26,06	€
ZG0.8-100	100	80,00	81,60	22,00	8	0,0413	0,0386	28,48	€
ZG0.8-112	112	89,60	91,20	22,00	8	0,0511	0,0484	36,81	€
ZG0.8-120	120	96,00	97,60	30,00	10	0,0583	0,0556	41,78	€
ZG0.8-140	140	112,00	113,60	30,00	10	0,0785	0,0758	49,29	€
ZG0.8-150	150	120,00	121,60	30,00	12	0,0898	0,0870	60,67	€



Gears available up to this size



ZG0.8-173 173 138,40 140,00 Dimensions: contact us

On request

Dimensions in mm

Brass spur gear

MODULE

0.8

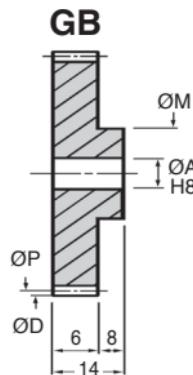


- Quality standard 9
- Pressure angle 20°

Torque and power indication		
For 50 teeth at 1000 rpm		
	34C10	Brass
Nm	1.000	0.54
kW	0.104	0.06



Brass CuZn40Pb3



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	-	12,03 €
GB0.8-12	12	9,60	11,20	11,20	5	✓	12,53 €
GB0.8-15	15	12,00	13,60	12,00	5	✓	13,52 €
GB0.8-18	18	14,40	16,00	12,00	5	-	14,55 €
GB0.8-20	20	16,00	17,60	12,00	5	✓	16,04 €
GB0.8-22	22	17,60	19,20	12,00	5	-	16,55 €
GB0.8-25	25	20,00	21,60	12,00	5	✓	17,56 €
GB0.8-28	28	22,40	24,00	12,00	5	-	18,54 €
GB0.8-30	30	24,00	25,60	16,00	6	✓	20,06 €
GB0.8-35	35	28,00	29,60	16,00	6	-	21,06 €
GB0.8-40	40	32,00	33,60	16,00	6	✓	23,08 €
GB0.8-45	45	36,00	37,60	16,00	6	-	25,09 €
GB0.8-50	50	40,00	41,60	16,00	6	✓	26,34 €
GB0.8-55	55	44,00	45,60	16,00	6	-	28,59 €
GB0.8-60	60	48,00	49,60	16,00	8	✓	35,12 €
GB0.8-66	66	52,80	54,40	16,00	8	-	43,64 €
GB0.8-70	70	56,00	57,60	16,00	8	✓	44,83 €
GB0.8-75	75	60,00	61,60	16,00	8	-	45,67 €
GB0.8-80	80	64,00	65,60	16,00	8	✓	48,87 €
GB0.8-86	86	68,80	70,40	16,00	8	-	50,19 €
GB0.8-90	90	72,00	73,60	20,00	8	-	51,18 €
GB0.8-100	100	80,00	81,60	20,00	8	✓	92,86 €
GB0.8-120	120	96,00	97,60	20,00	8	-	113,88 €

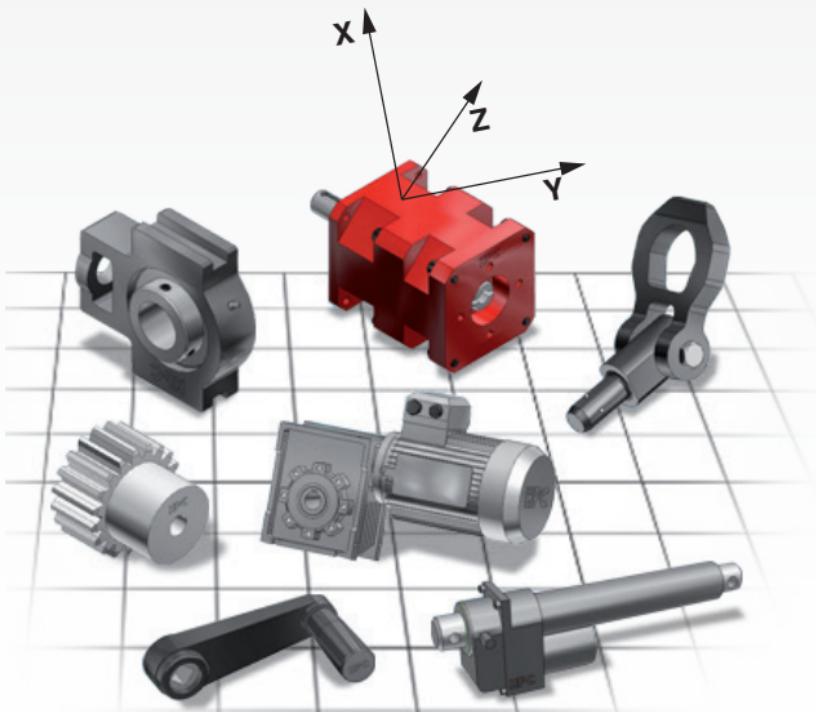
↓ Gears available up to this size ↓

GB0.8-173 173 138,40 140,00 Dimensions: contact us On request

*Depending on availability - Dimensions in mm

3D Portal

Free access
from our website



*+ than 1000
different product ranges
available for download*

Steel spur gear



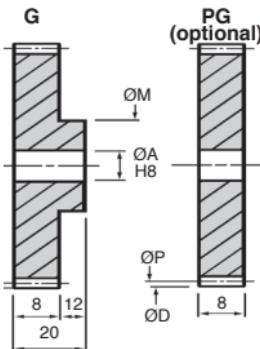
MODULE

Steel 34C10

1.0



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



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	Stock*	Weight (kg) G	Price each 1 to 5 G	Price each 1 to 5 PG
G1-9	9	10,00	12,00	12	6	✓	0,011	0,003	15,26 €
G1-10	10	11,00	13,00	13	6	✓	0,014	0,004	15,26 €
G1-11	11	12,00	14,00	14	6	-	0,017	0,005	15,26 €
G1-12	12	12,00	14,00	14	6	✓	0,017	0,005	7,88 €
G1-13	13	13,00	15,00	15	6	✓	0,020	0,006	15,48 €
G1-14	14	14,00	16,00	15	6	✓	0,021	0,008	15,78 €
G1-15	15	15,00	17,00	12	8	✓	0,014	0,008	8,29 €
G1-16	16	16,00	18,00	12	8	✓	0,015	0,009	8,39 €
G1-17	17	17,00	19,00	12	8	✓	0,017	0,011	16,63 €
G1-18	18	18,00	20,00	15	8	✓	0,024	0,013	8,77 €
G1-19	19	19,00	21,00	15	8	-	0,026	0,014	17,24 €
G1-20	20	20,00	22,00	15	8	✓	0,028	0,016	9,15 €
G1-21	21	21,00	23,00	15	8	✓	0,030	0,018	17,93 €
G1-22	22	22,00	24,00	15	8	✓	0,032	0,020	14,31 €
G1-23	23	23,00	25,00	15	8	✓	0,034	0,022	18,26 €
G1-24	24	24,00	26,00	15	8	✓	0,036	0,025	9,50 €
G1-25	25	25,00	27,00	15	8	✓	0,039	0,027	9,87 €
G1-26	26	26,00	28,00	15	8	✓	0,041	0,029	18,26 €
G1-27	27	27,00	29,00	15	8	✓	0,044	0,032	20,22 €
G1-28	28	28,00	30,00	15	8	✓	0,046	0,035	20,36 €
G1-29	29	29,00	31,00	15	8	✓	0,049	0,037	21,22 €
G1-30	30	30,00	32,00	20	8	✓	0,064	0,040	11,12 €
G1-31	31	31,00	33,00	20	8	-	0,067	0,043	21,84 €
G1-32	32	32,00	34,00	20	8	✓	0,070	0,046	11,42 €
G1-33	33	33,00	35,00	20	8	-	0,074	0,049	22,33 €
G1-34	34	34,00	36,00	20	8	✓	0,077	0,053	22,67 €

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G PG	Price each 1 to 5 G PG
G1-35	35	35,00	37,00	20	8	-	0,080	0,056 22,90 €
G1-36	36	36,00	38,00	20	8	✓	0,083	0,059 11,92 €
G1-37	37	37,00	39,00	20	8	✓	0,087	0,063 23,42 €
G1-38	38	38,00	40,00	20	8	-	0,091	0,066 23,81 €
G1-39	39	39,00	41,00	20	8	-	0,094	0,070 24,26 €
G1-40	40	40,00	42,00	20	8	✓	0,098	0,074 12,76 €
G1-41	41	41,00	43,00	20	8	-	0,102	0,078 24,74 €
G1-42	42	42,00	44,00	20	8	✓	0,106	0,082 24,86 €
G1-43	43	43,00	45,00	20	8	-	0,110	0,086 25,00 €
G1-44	44	44,00	46,00	20	8	✓	0,114	0,090 25,00 €
G1-45	45	45,00	47,00	20	8	✓	0,119	0,094 25,17 €
G1-46	46	46,00	48,00	20	8	✓	0,123	0,099 25,27 €
G1-47	47	47,00	49,00	20	8	-	0,127	0,103 25,36 €
G1-48	48	48,00	50,00	20	8	✓	0,132	0,108 25,39 €
G1-49	49	49,00	51,00	20	8	-	0,137	0,112 26,74 €
G1-50	50	50,00	52,00	30	10	✓	0,173	0,115 14,49 €
G1-51	51	51,00	53,00	30	10	-	0,178	0,120 28,46 €
G1-52	52	52,00	54,00	30	10	✓	0,183	0,125 28,87 €
G1-53	53	53,00	55,00	30	10	-	0,188	0,130 29,22 €
G1-54	54	54,00	56,00	30	10	✓	0,193	0,135 29,62 €
G1-55	55	55,00	57,00	30	10	✓	0,198	0,141 30,09 €
G1-56	56	56,00	58,00	30	10	✓	0,204	0,146 30,11 €
G1-57	57	57,00	59,00	30	10	-	0,209	0,151 30,63 €
G1-58	58	58,00	60,00	30	10	-	0,215	0,157 30,99 €
G1-59	59	59,00	61,00	30	10	-	0,220	0,163 31,34 €
G1-60	60	60,00	62,00	30	10	✓	0,226	0,168 16,44 €
G1-61	61	61,00	63,00	30	10	-	0,232	0,174 32,18 €
G1-62	62	62,00	64,00	30	10	-	0,238	0,180 32,76 €
G1-63	63	63,00	65,00	30	10	✓	0,244	0,186 33,66 €
G1-64	64	64,00	66,00	30	10	✓	0,250	0,192 34,32 €
G1-65	65	65,00	67,00	30	10	✓	0,256	0,198 35,11 €
G1-66	66	66,00	68,00	30	10	-	0,262	0,205 35,83 €
G1-68	68	68,00	70,00	30	10	✓	0,275	0,218 37,19 €
G1-70	70	70,00	72,00	30	10	✓	0,288	0,231 37,70 €
G1-72	72	72,00	74,00	30	10	✓	0,302	0,244 38,46 €
G1-73	73	73,00	75,00	30	10	-	0,309	0,251 39,52 €
G1-74	74	74,00	76,00	30	10	-	0,316	0,258 40,54 €
G1-76	76	76,00	78,00	30	10	✓	0,331	0,273 41,05 €
G1-78	78	78,00	80,00	30	10	✓	0,345	0,288 41,71 €
G1-80	80	80,00	82,00	30	10	✓	0,361	0,303 42,54 €
G1-84	84	84,00	86,00	30	10	-	0,392	0,334 43,13 €
G1-88	88	88,00	90,00	30	10	-	0,425	0,368 44,09 €
G1-90	90	90,00	92,00	30	10	✓	0,442	0,385 45,45 €
G1-96	96	96,00	98,00	30	10	✓	0,496	0,438 50,32 €
G1-100	100	100,00	102,00	30	10	✓	0,534	0,476 51,03 €
G1-112	112	112,00	114,00	30	10	-	0,656	0,598 63,85 €
G1-120	120	120,00	122,00	30	12	✓	0,745	0,688 72,18 €
G1-130	130	130,00	132,00	30	12	-	0,865	0,808 81,89 €
G1-150	150	150,00	152,00	40	15	✓	1,135	1,077 96,08 €



Gears available up to this size



G1-590 590 590,00 592,00

Dimensions: contact us

On request

*Depending on availability - Dimensions in mm

MODULE

Steel 35NCD6

1.0

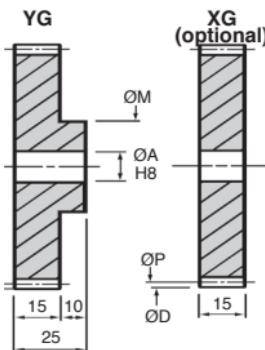


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material 20NCD2 case-hardened

Torque and power indication				
For 50 teeth at 1000 rpm				
Nm	35NCD6 hardened	35NCD6 hardened	20NCD2 hardened	20NCD2 hardened
10.600	15.500	10.600	29.300	
kW	1.119	1.626	1.119	3.074



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	Stock*	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG1-9	9	10,00	12,00	12	6	-	0,017	0,006	19,00	€
YG1-10	10	11,00	13,00	13	6	✓	0,020	0,008	19,00	€
YG1-11	11	12,00	14,00	14	6	-	0,024	0,010	19,00	€
YG1-12	12	12,00	14,00	14	6	✓	0,024	0,010	19,00	€
YG1-13	13	13,00	15,00	15	6	-	0,028	0,012	19,30	€
YG1-14	14	14,00	16,00	16	6	✓	0,032	0,014	19,73	€
YG1-15	15	15,00	17,00	17	6	✓	0,037	0,017	20,00	€
YG1-16	16	16,00	18,00	18	8	-	0,041	0,017	20,38	€
YG1-17	17	17,00	19,00	18	8	✓	0,044	0,020	20,73	€
YG1-18	18	18,00	20,00	18	8	-	0,047	0,023	21,17	€
YG1-19	19	19,00	21,00	18	8	-	0,051	0,027	21,53	€
YG1-20	20	20,00	22,00	20	8	✓	0,059	0,030	22,28	€
YG1-21	21	21,00	23,00	20	8	-	0,063	0,034	22,44	€
YG1-22	22	22,00	24,00	20	8	✓	0,066	0,038	22,67	€
YG1-23	23	23,00	25,00	20	8	-	0,071	0,042	22,74	€
YG1-24	24	24,00	26,00	20	8	✓	0,075	0,046	22,96	€
YG1-25	25	25,00	27,00	20	8	✓	0,079	0,051	23,86	€
YG1-26	26	26,00	28,00	25	8	-	0,097	0,055	24,68	€
YG1-27	27	27,00	29,00	25	8	-	0,102	0,060	25,24	€
YG1-28	28	28,00	30,00	25	8	✓	0,107	0,065	25,83	€
YG1-29	29	29,00	31,00	25	8	-	0,112	0,070	26,43	€
YG1-30	30	30,00	32,00	25	8	✓	0,117	0,075	26,92	€
YG1-31	31	31,00	33,00	25	8	-	0,123	0,081	27,21	€
YG1-32	32	32,00	34,00	25	8	✓	0,129	0,087	27,52	€
YG1-33	33	33,00	35,00	25	8	-	0,135	0,092	27,92	€

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) YG XG	Price each 1 to 5 YG XG
YG1-34	34	34,00	36,00	25	8	✓	0,141 0,098	28,17 €
YG1-35	35	35,00	37,00	25	8	-	0,147 0,105	28,60 €
YG1-36	36	36,00	38,00	30	8	✓	0,170 0,111	28,87 €
YG1-37	37	37,00	39,00	30	8	-	0,176 0,118	29,17 €
YG1-38	38	38,00	40,00	30	8	-	0,183 0,124	29,71 €
YG1-39	39	39,00	41,00	30	8	-	0,190 0,131	30,22 €
YG1-40	40	40,00	42,00	30	8	✓	0,197 0,138	30,70 €
YG1-41	41	41,00	43,00	30	8	-	0,204 0,146	30,86 €
YG1-42	42	42,00	44,00	30	8	✓	0,212 0,153	30,99 €
YG1-43	43	43,00	45,00	30	8	-	0,220 0,161	31,07 €
YG1-44	44	44,00	46,00	30	8	-	0,227 0,169	31,29 €
YG1-45	45	45,00	47,00	30	8	-	0,235 0,177	31,41 €
YG1-46	46	46,00	48,00	30	8	-	0,244 0,185	31,47 €
YG1-47	47	47,00	49,00	30	8	-	0,252 0,193	31,65 €
YG1-48	48	48,00	50,00	30	8	✓	0,261 0,202	31,67 €
YG1-49	49	49,00	51,00	30	8	-	0,269 0,211	33,35 €
YG1-50	50	50,00	52,00	35	10	✓	0,297 0,216	34,95 €
YG1-51	51	51,00	53,00	35	10	-	0,307 0,225	35,52 €
YG1-52	52	52,00	54,00	35	10	✓	0,316 0,235	35,95 €
YG1-53	53	53,00	55,00	35	10	-	0,325 0,244	36,47 €
YG1-54	54	54,00	56,00	35	10	✓	0,335 0,254	36,92 €
YG1-55	55	55,00	57,00	35	10	-	0,345 0,264	37,50 €
YG1-56	56	56,00	58,00	35	10	✓	0,355 0,274	37,57 €
YG1-57	57	57,00	59,00	35	10	✓	0,365 0,284	38,09 €
YG1-58	58	58,00	60,00	35	10	-	0,375 0,294	38,66 €
YG1-59	59	59,00	61,00	35	10	-	0,386 0,305	39,12 €
YG1-60	60	60,00	62,00	35	10	✓	0,397 0,316	39,57 €
YG1-61	61	61,00	63,00	35	10	-	0,406 0,326	40,16 €
YG1-62	62	62,00	64,00	35	10	-	0,419 0,338	40,83 €
YG1-63	63	63,00	65,00	35	10	-	0,430 0,349	42,04 €
YG1-64	64	64,00	66,00	35	10	-	0,441 0,360	42,81 €
YG1-65	65	65,00	67,00	35	10	-	0,453 0,372	43,80 €
YG1-66	66	66,00	68,00	35	10	-	0,465 0,384	44,69 €
YG1-68	68	68,00	70,00	35	10	-	0,489 0,408	46,01 €
YG1-70	70	70,00	72,00	35	10	✓	0,514 0,433	46,96 €
YG1-72	72	72,00	74,00	35	10	-	0,539 0,458	47,97 €
YG1-73	73	73,00	75,00	35	10	-	0,553 0,471	49,94 €
YG1-74	74	74,00	76,00	45	10	-	0,614 0,485	50,47 €
YG1-76	76	76,00	78,00	45	10	-	0,641 0,512	51,14 €
YG1-78	78	78,00	80,00	45	10	-	0,669 0,539	51,95 €
YG1-80	80	80,00	82,00	45	10	✓	0,697 0,568	53,00 €
YG1-84	84	84,00	86,00	45	10	-	0,756 0,627	53,79 €
YG1-88	88	88,00	90,00	45	10	-	0,818 0,689	55,04 €
YG1-90	90	90,00	92,00	45	10	✓	0,850 0,721	56,62 €
YG1-96	96	96,00	98,00	45	10	-	0,951 0,822	62,76 €
YG1-100	100	100,00	102,00	45	10	✓	1,022 0,892	63,58 €
YG1-112	112	112,00	114,00	45	10	-	1,251 1,122	73,13 €
YG1-120	120	120,00	122,00	45	12	✓	1,418 1,289	90,02 €
YG1-130	130	130,00	132,00	45	12	-	1,644 1,515	102,20 €
YG1-150	150	150,00	152,00	45	15	-	2,149 2,019	119,74 €



Gears available up to this size



YG1-590 590 590,00 592,00

Dimensions: contact us

On request

*Depending on availability - Dimensions in mm

Plastic spur gear



MODULE

1.0



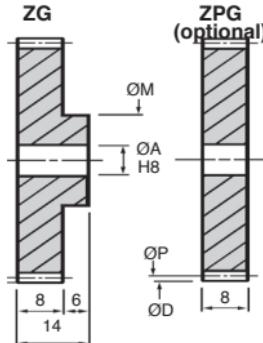
- Machined parts

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

Torque indication

For 50 teeth at 1000 rpm

	Delrin
Nm	0.7



in STOCK*

otherwise contact us

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	Price each 1 to 5 ZG	Weight (kg) ZPG	Price each 1 to 5 ZPG
ZG1-9	9	10,00	12,00	12	4	✓	0,0015	0,0007	7,59	€
ZG1-10	10	11,00	13,00	12	4	✓	0,0016	0,0008	7,59	€
ZG1-11	11	12,00	14,00	12	4	-	0,0018	0,0010	7,59	€
ZG1-12	12	12,00	14,00	12	4	✓	0,0018	0,0010	7,59	€
ZG1-13	13	13,00	15,00	12	4	-	0,0020	0,0012	7,79	€
ZG1-14	14	14,00	16,00	12	4	✓	0,0022	0,0015	7,91	€
ZG1-15	15	15,00	17,00	12	4	✓	0,0025	0,0017	8,02	€
ZG1-16	16	16,00	18,00	15	6	✓	0,0029	0,0018	8,23	€
ZG1-17	17	17,00	19,00	15	6	-	0,0032	0,0020	8,33	€
ZG1-18	18	18,00	20,00	15	6	✓	0,0035	0,0023	8,53	€
ZG1-19	19	19,00	21,00	15	6	-	0,0038	0,0026	8,55	€
ZG1-20	20	20,00	22,00	15	6	✓	0,0041	0,0029	8,91	€
ZG1-21	21	21,00	23,00	18	6	-	0,0050	0,0033	8,96	€
ZG1-22	22	22,00	24,00	18	6	✓	0,0054	0,0036	9,11	€
ZG1-23	23	23,00	25,00	18	6	-	0,0057	0,0040	9,11	€
ZG1-24	24	24,00	26,00	18	6	✓	0,0061	0,0044	9,25	€
ZG1-25	25	25,00	27,00	18	6	✓	0,0065	0,0048	9,59	€
ZG1-26	26	26,00	28,00	18	6	✓	0,0069	0,0052	9,97	€
ZG1-27	27	27,00	29,00	18	6	✓	0,0073	0,0056	10,13	€
ZG1-28	28	28,00	30,00	18	6	-	0,0078	0,0060	10,36	€
ZG1-29	29	29,00	31,00	18	6	-	0,0082	0,0065	10,61	€
ZG1-30	30	30,00	32,00	18	6	✓	0,0087	0,0070	10,90	€
ZG1-31	31	31,00	33,00	18	6	-	0,0092	0,0075	12,03	€
ZG1-32	32	32,00	34,00	18	6	✓	0,0097	0,0080	12,24	€

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	ZPG	Price each 1 to 5 ZG	ZPG
ZG1-33	33	33,00	35,00	18	6	-	0,0103	0,0085	12,37 €
ZG1-34	34	34,00	36,00	18	6	✓	0,0108	0,0090	12,53 €
ZG1-35	35	35,00	37,00	18	6	✓	0,0114	0,0096	12,66 €
ZG1-36	36	36,00	38,00	18	6	✓	0,0119	0,0102	12,77 €
ZG1-38	38	38,00	40,00	18	6	✓	0,0131	0,0114	13,12 €
ZG1-39	39	39,00	41,00	18	6	✓	0,0137	0,0120	15,24 €
ZG1-40	40	40,00	42,00	18	6	✓	0,0144	0,0126	15,48 €
ZG1-42	42	42,00	44,00	18	6	-	0,0157	0,0140	15,62 €
ZG1-43	43	43,00	45,00	18	6	-	0,0164	0,0146	15,78 €
ZG1-44	44	44,00	46,00	18	6	✓	0,0171	0,0154	15,93 €
ZG1-45	45	45,00	47,00	18	6	✓	0,0178	0,0161	16,03 €
ZG1-46	46	46,00	48,00	18	6	✓	0,0186	0,0168	16,45 €
ZG1-47	47	47,00	49,00	18	6	-	0,0193	0,0176	17,11 €
ZG1-48	48	48,00	50,00	18	6	✓	0,0201	0,0183	19,21 €
ZG1-50	50	50,00	52,00	22	8	✓	0,0222	0,0197	21,17 €
ZG1-51	51	51,00	53,00	22	8	-	0,0230	0,0205	21,42 €
ZG1-52	52	52,00	54,00	22	8	-	0,0239	0,0213	21,88 €
ZG1-53	53	53,00	55,00	22	8	✓	0,0247	0,0222	22,13 €
ZG1-54	54	54,00	56,00	22	8	-	0,0256	0,0230	22,33 €
ZG1-55	55	55,00	57,00	22	8	-	0,0265	0,0239	22,77 €
ZG1-56	56	56,00	58,00	22	8	-	0,0274	0,0248	23,07 €
ZG1-58	58	58,00	60,00	22	8	-	0,0292	0,0267	23,42 €
ZG1-59	59	59,00	61,00	22	8	-	0,0302	0,0276	26,84 €
ZG1-60	60	60,00	62,00	22	8	✓	0,0311	0,0286	27,21 €
ZG1-61	61	61,00	63,00	22	8	✓	0,0321	0,0295	27,58 €
ZG1-62	62	62,00	64,00	22	8	-	0,0331	0,0305	28,07 €
ZG1-63	63	63,00	65,00	22	8	-	0,0341	0,0316	28,87 €
ZG1-64	64	64,00	66,00	22	8	-	0,0351	0,0326	29,39 €
ZG1-65	65	65,00	67,00	22	8	-	0,0362	0,0336	30,09 €
ZG1-66	66	66,00	68,00	22	8	-	0,0372	0,0347	30,70 €
ZG1-68	68	68,00	70,00	22	8	-	0,0394	0,0368	31,65 €
ZG1-70	70	70,00	72,00	22	8	✓	0,0416	0,0391	32,29 €
ZG1-72	72	72,00	74,00	22	8	✓	0,0439	0,0414	32,99 €
ZG1-73	73	73,00	75,00	22	8	-	0,0451	0,0425	33,89 €
ZG1-74	74	74,00	76,00	22	8	✓	0,0463	0,0437	36,81 €
ZG1-76	76	76,00	78,00	22	8	-	0,0487	0,0462	37,32 €
ZG1-78	78	78,00	80,00	22	8	-	0,0512	0,0486	37,84 €
ZG1-80	80	80,00	82,00	22	8	✓	0,0537	0,0512	38,59 €
ZG1-84	84	84,00	86,00	22	8	-	0,0590	0,0565	39,16 €
ZG1-88	88	88,00	90,00	22	8	-	0,0646	0,0621	40,03 €
ZG1-90	90	90,00	92,00	26	8	✓	0,0686	0,0649	45,85 €
ZG1-96	96	96,00	98,00	26	8	-	0,0777	0,0739	50,80 €
ZG1-100	100	100,00	102,00	30	10	-	0,0840	0,0803	50,16 €
ZG1-112	112	112,00	114,00	30	10	-	0,1045	0,1008	54,78 €
ZG1-120	120	120,00	122,00	40	12	-	0,1195	0,1158	67,42 €
ZG1-130	130	130,00	132,00	40	12	-	0,1397	0,1360	80,07 €
ZG1-140	140	140,00	142,00	40	12	✓	0,1616	0,1579	98,60 €



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

Nyl  €  Stock

MODULE

Nylon 6 moulded

1.0



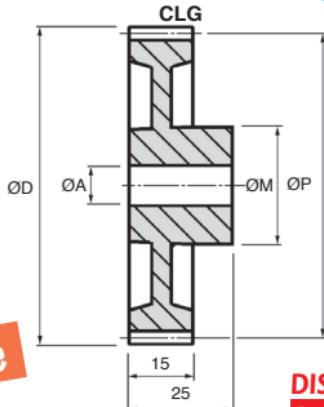
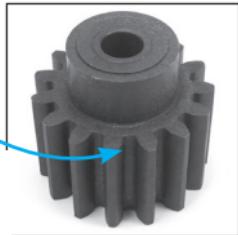
- Moulded parts

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

Options

- Alternative number of teeth, a datasheet is available from www.hpc-europe.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+	50+	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	✓	3,48 €
CLG1-15	15	17	15	10	4	✓	3,48 €
CLG1-16	16	18	16	13	5	✓	3,65 €
CLG1-20	20	22	20	16	5	✓	3,65 €
CLG1-24	24	26	24	20	6	✓	3,83 €
CLG1-25	25	27	25	20	6	✓	3,83 €
CLG1-28	28	30	28	22	6	✓	4,76 €
CLG1-30	30	32	30	25	6	✓	4,76 €
CLG1-32	32	34	32	25	6	✓	4,95 €
CLG1-35	35	37	35	30	8	✓	4,95 €
CLG1-40	40	42	40	30	8	✓	5,85 €
CLG1-45	45	47	45	35	10	✓	6,25 €
CLG1-50	50	52	50	35	10	✓	6,98 €
CLG1-55	55	57	55	35	14	✓	7,54 €
CLG1-60	60	62	60	40	14	✓	8,48 €
CLG1-70	70	72	70	40	20	✓	9,78 €
CLG1-72	72	74	72	40	20	✓	9,78 €
CLG1-75	75	77	75	50	20	-	on request
CLG1-77	77	79	77	50	20		on request

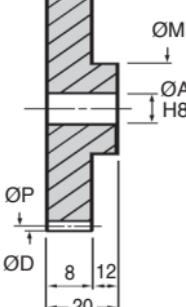
Gears available up to this size

*Depending on availability - Dimensions in mm

Brass CuZn40Pb3

MODULE

1.0

GB


- Quality standard 9
- Pressure angle 20°

Torque and power indication	
For 50 teeth at 1000 rpm	
34C10	Brass
Nm 2.600	1.250
kW 0.254	0.134


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	Stock*	Price each 1 to 5
GB1-12	12	12,00	14,00	14	6	✓	13,52 €
GB1-15	15	15,00	17,00	12	8	✓	14,05 €
GB1-18	18	18,00	20,00	15	8	-	15,03 €
GB1-20	20	20,00	22,00	15	8	✓	15,54 €
GB1-22	22	22,00	24,00	15	8	-	17,06 €
GB1-25	25	25,00	27,00	15	8	✓	18,54 €
GB1-28	28	28,00	30,00	15	8	-	20,06 €
GB1-30	30	30,00	32,00	20	8	✓	22,08 €
GB1-32	32	32,00	34,00	20	8	-	23,57 €
GB1-36	36	36,00	38,00	20	8	-	25,09 €
GB1-40	40	40,00	42,00	20	8	✓	26,34 €
GB1-44	44	44,00	46,00	20	8	-	28,59 €
GB1-48	48	48,00	50,00	20	8	-	35,12 €
GB1-50	50	50,00	52,00	30	10	✓	36,64 €
GB1-54	54	54,00	56,00	30	10	-	43,15 €
GB1-56	56	56,00	58,00	30	10	-	44,67 €
GB1-60	60	60,00	62,00	30	10	✓	46,42 €
GB1-64	64	64,00	66,00	30	10	-	49,21 €
GB1-66	66	66,00	68,00	30	10	-	50,19 €
GB1-70	70	70,00	72,00	30	10	-	55,22 €
GB1-80	80	80,00	82,00	30	10	-	97,88 €
GB1-90	90	90,00	92,00	30	10	-	125,52 €
GB1-100	100	100,00	102,00	30	10	-	190,78 €


Gears available up to this size

GB1-590 **590** **590,00** **592,00** Dimensions: contact us On request

**Depending on availability - Dimensions in mm*

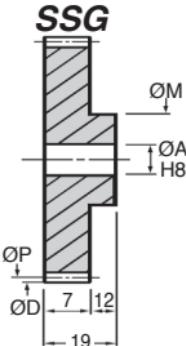
MODULE

1.0



- Quality standard 9
- Pressure angle 20°

Torque and power indication			
For 50 teeth at 1000 rpm			
	StS 303	brass	fibre
Nm	2.600	1.250	1
kW	0.254	0.134	0.104



DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Price each 1 to 5
SSG1-12-303	12	12	14	14	6	-	18,54 €
SSG1-15-303	15	15	17	12	8	-	19,07 €
SSG1-16-303	16	16	18	12	8	-	20,03 €
SSG1-18-303	18	18	20	15	8	-	20,76 €
SSG1-20-303	20	20	22	15	8	-	20,76 €
SSG1-22-303	22	22	24	15	8	-	21,57 €
SSG1-24-303	24	24	26	15	8	-	21,64 €
SSG1-25-303	25	25	27	15	8	-	22,17 €
SSG1-26-303	26	26	28	15	8	-	23,11 €
SSG1-28-303	28	28	30	15	8	-	24,02 €
SSG1-30-303	30	30	32	20	8	-	22,45 €
SSG1-32-303	32	32	34	20	8	-	26,57 €
SSG1-36-303	36	36	38	20	8	-	30,03 €
SSG1-40-303	40	40	42	20	8	-	32,55 €
SSG1-44-303	44	44	46	20	8	-	35,02 €
SSG1-48-303	48	48	50	20	8	-	37,24 €
SSG1-50-303	50	50	52	30	10	-	39,87 €
SSG1-54-303	54	54	56	30	10	-	43,41 €
SSG1-56-303	56	56	58	30	10	-	44,21 €
SSG1-60-303	60	60	62	30	10	-	49,80 €
SSG1-64-303	64	64	66	30	10	-	55,10 €
SSG1-66-303	66	66	68	30	10	-	63,35 €
SSG1-70-303	70	70	72	30	10	-	66,67 €



Gears available up to this size



SSG1-590-303	590	590	592	Dimensions: contact us	On request
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*Depending on availability - Dimensions in mm

Stainless steel 304L

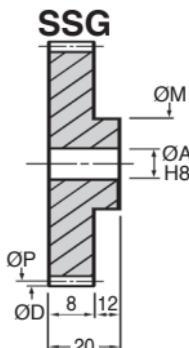
MODULE

1.0


- Quality standard 9
- Pressure angle 20°

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

Nm	kW	StS 304L	brass	fibre
0.254	0.134	0.104		



DISCOUNTS

Qty.	1+	6+	20+
Disc.	-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	23,24 €
SSG1-15-304L	15	15	17	12	8	23,83 €
SSG1-16-304L	16	16	18	12	8	25,10 €
SSG1-18-304L	18	18	20	15	8	25,89 €
SSG1-20-304L	20	20	22	15	8	25,96 €
SSG1-22-304L	22	22	24	15	8	26,98 €
SSG1-24-304L	24	24	26	15	8	27,08 €
SSG1-25-304L	25	25	27	15	8	27,68 €
SSG1-26-304L	26	26	28	15	8	28,87 €
SSG1-28-304L	28	28	30	15	8	30,01 €
SSG1-30-304L	30	30	32	20	8	28,07 €
SSG1-32-304L	32	32	34	20	8	33,22 €
SSG1-36-304L	36	36	38	20	8	37,49 €
SSG1-40-304L	40	40	42	20	8	40,68 €
SSG1-44-304L	44	44	46	20	8	43,68 €
SSG1-48-304L	48	48	50	20	8	46,51 €
SSG1-50-304L	50	50	52	30	10	49,77 €
SSG1-54-304L	54	54	56	30	10	54,17 €
SSG1-56-304L	56	56	58	30	10	55,12 €
SSG1-60-304L	60	60	62	30	10	62,19 €
SSG1-64-304L	64	64	66	30	10	68,74 €
SSG1-66-304L	66	66	68	30	10	78,98 €
SSG1-70-304L	70	70	72	30	10	83,14 €

↓ Gears available up to this size ↓

SSG1-590-304L	590	592	Dimensions: contact us	On request
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*Depending on availability - Dimensions in mm

MODULE

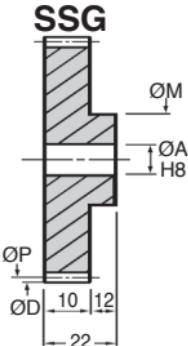
Stainless steel 316L

1.0

- Quality standard 9

- Pressure angle 20°

Torque and power indication For 50 teeth at 1000 rpm		
StS 316L	brass	fibre
Nm 2.600	1.250	1
kW 0.254	0.134	0.104



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
SSG1-12-316L	12	12	14	14	6	34,78 €
SSG1-15-316L	15	15	17	12	8	35,76 €
SSG1-16-316L	16	16	18	12	8	37,56 €
SSG1-18-316L	18	18	20	15	8	38,95 €
SSG1-20-316L	20	20	22	15	8	38,95 €
SSG1-22-316L	22	22	24	15	8	40,45 €
SSG1-24-316L	24	24	26	15	8	40,60 €
SSG1-25-316L	25	25	27	15	8	41,58 €
SSG1-26-316L	26	26	28	15	8	43,33 €
SSG1-28-316L	28	28	30	15	8	45,04 €
SSG1-30-316L	30	30	32	20	8	42,09 €
SSG1-32-316L	32	32	34	20	8	49,83 €
SSG1-36-316L	36	36	38	20	8	56,32 €
SSG1-40-316L	40	40	42	20	8	61,06 €
SSG1-44-316L	44	44	46	20	8	65,65 €
SSG1-48-316L	48	48	50	20	8	69,83 €
SSG1-50-316L	50	50	52	30	10	74,77 €
SSG1-54-316L	54	54	56	30	10	81,42 €
SSG1-56-316L	56	56	58	30	10	82,92 €
SSG1-60-316L	60	60	62	30	10	93,39 €
SSG1-64-316L	64	64	66	30	10	103,33 €
SSG1-66-316L	66	66	68	30	10	118,78 €
SSG1-70-316L	70	70	72	30	10	125,04 €



Gears available up to this size



SSG1-590-316L 590 590 592 Dimensions: contact us On request

*Depending on availability - Dimensions in mm

Free delivery*

For orders over 50,00 € excl. VAT
mainland France only



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*Products less than 1m in length only

Steel spur gear

Ste Stock

MODULE

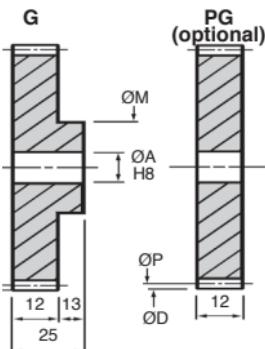
Steel 34C10

1.5



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

Torque and power indication			
For 50 teeth at 1000 rpm			
Nm	34C10 Z10CNF18.09	34C10 hardened	brass
8.88	41.50	4.44	3.55
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) G	Weight (kg) PG	Stock*	Price each 1 to 5 G	Price each 1 to 5 PG
G1.25-9	9	12,50	15,00	15,00	6	0,019	0,006	✓	64,38 €	
G1.25-10	10	13,75	16,25	16,25	6	0,024	0,007	✓	19,73 €	
G1.25-11	11	15,00	17,50	17,50	6	0,029	0,009	-	19,73 €	
G1.25-12	12	15,00	17,50	17,50	6	0,029	0,009	✓	19,73 €	
G1.25-13	13	16,25	18,75	18,25	6	0,032	0,011	-	20,66 €	
G1.25-14	14	17,50	20,00	20,00	6	0,039	0,013	✓	21,03 €	
G1.25-15	15	18,75	21,25	12,00	6	0,023	0,015	✓	21,39 €	
G1.25-16	16	20,00	22,50	12,00	8	0,022	0,016	✓	22,13 €	
G1.25-17	17	21,25	23,75	12,00	8	0,024	0,019	✓	22,70 €	
G1.25-18	18	22,50	25,00	15,00	8	0,033	0,021	✓	23,25 €	
G1.25-19	19	23,75	26,25	15,00	8	0,036	0,024	-	24,18 €	
G1.25-20	20	25,00	27,50	15,00	8	0,039	0,027	✓	24,51 €	
G1.25-21	21	26,25	28,75	15,00	8	0,042	0,030	-	24,86 €	
G1.25-22	22	27,50	30,00	15,00	8	0,045	0,033	✓	25,09 €	
G1.25-23	23	28,75	31,25	15,00	8	0,048	0,037	-	25,39 €	
G1.25-24	24	30,00	32,50	15,00	8	0,052	0,040	✓	25,83 €	
G1.25-25	25	31,25	33,75	15,00	8	0,055	0,044	-	26,39 €	
G1.25-26	26	32,50	35,00	15,00	8	0,059	0,048	✓	26,69 €	
G1.25-27	27	33,75	36,25	15,00	8	0,063	0,052	-	27,30 €	
G1.25-28	28	35,00	37,50	15,00	8	0,067	0,056	✓	28,48 €	
G1.25-29	29	36,25	38,75	15,00	8	0,072	0,060	✓	29,22 €	
G1.25-30	30	37,50	40,00	20,00	8	0,089	0,065	-	30,19 €	
G1.25-31	31	38,75	41,25	20,00	8	0,093	0,069	-	30,82 €	
G1.25-32	32	40,00	42,50	20,00	8	0,098	0,074	✓	31,44 €	
G1.25-33	33	41,25	43,75	20,00	8	0,103	0,079	-	32,03 €	

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) PG	Stock*	Price each 1 to 5 PG
G1.25-34	34	42,50	45,00	20,00	8	0,108	0,084	✓ 32,45 €
G1.25-35	35	43,75	46,25	20,00	8	0,113	0,089	- 33,18 €
G1.25-36	36	45,00	47,50	20,00	8	0,119	0,094	✓ 33,59 €
G1.25-37	37	46,25	48,75	20,00	8	0,124	0,100	- 33,92 €
G1.25-38	38	47,50	50,00	20,00	8	0,130	0,105	- 34,29 €
G1.25-39	39	48,75	51,25	20,00	8	0,135	0,111	- 34,74 €
G1.25-40	40	50,00	52,50	30,00	10	0,173	0,115	✓ 34,97 €
G1.25-41	41	51,25	53,75	30,00	10	0,179	0,121	✓ 35,13 €
G1.25-42	42	52,50	55,00	30,00	10	0,185	0,128	- 35,29 €
G1.25-43	43	53,75	56,25	30,00	10	0,192	0,134	- 35,52 €
G1.25-44	44	55,00	57,50	30,00	10	0,198	0,141	- 35,65 €
G1.25-45	45	56,25	58,75	30,00	10	0,205	0,147	✓ 35,80 €
G1.25-46	46	57,50	60,00	30,00	10	0,212	0,154	- 35,92 €
G1.25-47	47	58,75	61,25	30,00	10	0,219	0,161	- 36,15 €
G1.25-48	48	60,00	62,50	30,00	10	0,226	0,168	- 36,27 €
G1.25-49	49	61,25	63,75	30,00	10	0,233	0,176	- 37,05 €
G1.25-50	50	62,50	65,00	30,00	10	0,241	0,183	✓ 37,35 €
G1.25-51	51	63,75	66,25	30,00	10	0,248	0,191	- 37,74 €
G1.25-52	52	65,00	67,50	30,00	10	0,256	0,198	- 38,09 €
G1.25-53	53	66,25	68,75	30,00	10	0,264	0,206	✓ 38,45 €
G1.25-54	54	67,50	70,00	30,00	10	0,272	0,214	- 38,70 €
G1.25-55	55	68,75	71,25	30,00	10	0,280	0,222	- 38,98 €
G1.25-56	56	70,00	72,50	30,00	10	0,288	0,231	- 40,68 €
G1.25-57	57	71,25	73,75	30,00	10	0,297	0,239	- 42,59 €
G1.25-58	58	72,50	75,00	30,00	10	0,306	0,248	- 43,13 €
G1.25-59	59	73,75	76,25	30,00	10	0,314	0,257	- 44,09 €
G1.25-60	60	75,00	77,50	30,00	10	0,323	0,266	✓ 45,07 €
G1.25-61	61	76,25	78,75	30,00	10	0,332	0,275	- 45,47 €
G1.25-62	62	77,50	80,00	30,00	10	0,342	0,284	- 46,15 €
G1.25-63	63	78,75	81,25	30,00	10	0,351	0,293	- 46,60 €
G1.25-64	64	80,00	82,50	30,00	10	0,361	0,303	- 47,12 €
G1.25-65	65	81,25	83,75	30,00	10	0,370	0,313	- 47,76 €
G1.25-66	66	82,50	85,00	30,00	10	0,380	0,322	- 48,43 €
G1.25-68	68	85,00	87,50	30,00	10	0,400	0,343	- 49,55 €
G1.25-70	70	87,50	90,00	30,00	10	0,421	0,363	✓ 50,46 €
G1.25-72	72	90,00	92,50	30,00	10	0,442	0,385	- 50,71 €
G1.25-73	73	91,25	93,75	30,00	10	0,453	0,396	- 50,95 €
G1.25-74	74	92,50	95,00	30,00	10	0,464	0,407	- 51,25 €
G1.25-76	76	95,00	97,50	30,00	10	0,487	0,429	- 52,15 €
G1.25-78	78	97,50	100,00	30,00	10	0,510	0,452	- 53,96 €
G1.25-80	80	100,00	102,50	30,00	10	0,534	0,476	- 57,54 €
G1.25-84	84	105,00	107,50	30,00	10	0,583	0,525	- 58,05 €
G1.25-88	88	110,00	112,50	30,00	10	0,635	0,577	- 63,80 €
G1.25-90	90	112,50	115,00	30,00	10	0,661	0,604	✓ 64,38 €
G1.25-96	96	120,00	122,50	30,00	12	0,745	0,688	- 74,08 €
G1.25-100	100	125,00	127,50	30,00	12	0,804	0,746	- 75,26 €
G1.25-112	112	140,00	142,50	30,00	12	0,995	0,938	- 83,27 €
G1.25-120	120	150,00	152,50	40,00	15	1,135	1,077	- 89,07 €
G1.25-130	130	162,50	165,00	40,00	15	1,323	1,265	- 99,27 €
G1.25-140	140	175,00	177,50	40,00	15	1,525	1,468	- 107,27 €



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

Steel 35NCD6

1.25



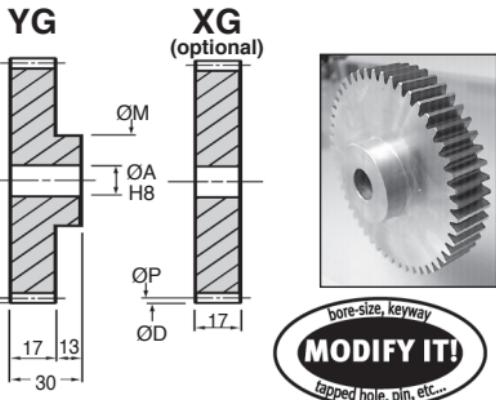
- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

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	24,56 €	
YG1.25-10	10	13,75	16,25	16,25	6	0,033	0,016	24,56 €	
YG1.25-11	11	15,00	17,50	17,50	6	0,040	0,019	24,56 €	
YG1.25-12	12	15,00	17,50	17,50	6	0,040	0,019	24,56 €	
YG1.25-13	13	16,25	18,75	18,75	6	0,048	0,023	25,77 €	
YG1.25-14	14	17,50	20,00	20,00	6	0,056	0,028	26,19 €	
YG1.25-15	15	18,75	21,25	20,00	6	0,061	0,032	26,74 €	
YG1.25-16	16	20,00	22,50	20,00	8	0,061	0,034	27,52 €	
YG1.25-17	17	21,25	23,75	20,00	8	0,066	0,040	28,23 €	
YG1.25-18	18	22,50	25,00	25,00	8	0,089	0,045	29,04 €	
YG1.25-19	19	23,75	26,25	25,00	8	0,095	0,051	30,11 €	
YG1.25-20	20	25,00	27,50	25,00	8	0,101	0,057	30,54 €	
YG1.25-21	21	26,25	28,75	25,00	8	0,108	0,064	30,99 €	
YG1.25-22	22	27,50	30,00	25,00	8	0,115	0,071	31,29 €	
YG1.25-23	23	28,75	31,25	25,00	8	0,122	0,078	31,67 €	
YG1.25-24	24	30,00	32,50	25,00	8	0,129	0,085	32,18 €	
YG1.25-25	25	31,25	33,75	25,00	8	0,137	0,093	32,85 €	
YG1.25-26	26	32,50	35,00	25,00	8	0,145	0,101	33,23 €	
YG1.25-27	27	33,75	36,25	25,00	8	0,154	0,110	34,03 €	
YG1.25-28	28	35,00	37,50	25,00	8	0,162	0,119	35,57 €	
YG1.25-29	29	36,25	38,75	25,00	8	0,172	0,128	36,47 €	
YG1.25-30	30	37,50	40,00	35,00	8	0,228	0,137	37,64 €	
YG1.25-31	31	38,75	41,25	35,00	8	0,238	0,147	38,45 €	
YG1.25-32	32	40,00	42,50	35,00	8	0,248	0,157	39,23 €	
YG1.25-33	33	41,25	43,75	35,00	8	0,258	0,167	39,96 €	

Dimensions in mm

On request

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
YG1.25-34	34	42,50	45,00	35,00	8	0,269 0,178	40,48 €
YG1.25-35	35	43,75	46,25	35,00	8	0,280 0,189	41,36 €
YG1.25-36	36	45,00	47,50	35,00	8	0,291 0,200	41,95 €
YG1.25-37	37	46,25	48,75	35,00	8	0,303 0,212	42,26 €
YG1.25-38	38	47,50	50,00	35,00	8	0,315 0,224	42,74 €
YG1.25-39	39	48,75	51,25	35,00	8	0,327 0,236	43,28 €
YG1.25-40	40	50,00	52,50	45,00	10	0,396 0,245	43,64 €
YG1.25-41	41	51,25	53,75	45,00	10	0,409 0,258	43,89 €
YG1.25-42	42	52,50	55,00	45,00	10	0,422 0,271	44,07 €
YG1.25-43	43	53,75	56,25	45,00	10	0,435 0,285	44,25 €
YG1.25-44	44	55,00	57,50	45,00	10	0,449 0,299	44,47 €
YG1.25-45	45	56,25	58,75	45,00	10	0,463 0,313	44,67 €
YG1.25-46	46	57,50	60,00	45,00	10	0,478 0,328	44,82 €
YG1.25-47	47	58,75	61,25	45,00	10	0,493 0,342	45,04 €
YG1.25-48	48	60,00	62,50	45,00	10	0,508 0,358	45,22 €
YG1.25-49	49	61,25	63,75	45,00	10	0,523 0,373	46,21 €
YG1.25-50	50	62,50	65,00	45,00	10	0,539 0,389	46,63 €
YG1.25-51	51	63,75	66,25	45,00	10	0,555 0,405	47,00 €
YG1.25-52	52	65,00	67,50	45,00	10	0,572 0,421	47,59 €
YG1.25-53	53	66,25	68,75	45,00	10	0,589 0,438	47,81 €
YG1.25-54	54	67,50	70,00	45,00	10	0,606 0,455	48,24 €
YG1.25-55	55	68,75	71,25	45,00	10	0,623 0,473	48,62 €
YG1.25-56	56	70,00	72,50	45,00	10	0,641 0,490	50,73 €
YG1.25-57	57	71,25	73,75	45,00	10	0,659 0,508	53,10 €
YG1.25-58	58	72,50	75,00	45,00	10	0,677 0,527	53,79 €
YG1.25-59	59	73,75	76,25	45,00	10	0,696 0,545	55,04 €
YG1.25-60	60	75,00	77,50	45,00	10	0,715 0,564	56,15 €
YG1.25-61	61	76,25	78,75	45,00	10	0,734 0,584	58,01 €
YG1.25-62	62	77,50	80,00	60,00	10	0,877 0,603	57,54 €
YG1.25-63	63	78,75	81,25	60,00	10	0,897 0,623	58,05 €
YG1.25-64	64	80,00	82,50	60,00	10	0,917 0,644	58,72 €
YG1.25-65	65	81,25	83,75	60,00	10	0,938 0,664	59,52 €
YG1.25-66	66	82,50	85,00	60,00	10	0,959 0,685	60,31 €
YG1.25-68	68	85,00	87,50	60,00	10	1,001 0,728	61,78 €
YG1.25-70	70	87,50	90,00	60,00	10	1,045 0,772	62,85 €
YG1.25-72	72	90,00	92,50	60,00	10	1,091 0,817	63,28 €
YG1.25-73	73	91,25	93,75	60,00	10	1,114 0,841	63,50 €
YG1.25-74	74	92,50	95,00	60,00	10	1,137 0,864	63,92 €
YG1.25-76	76	95,00	97,50	60,00	10	1,185 0,912	64,99 €
YG1.25-78	78	97,50	100,00	60,00	10	1,234 0,961	67,28 €
YG1.25-80	80	100,00	102,50	60,00	10	1,285 1,011	71,78 €
YG1.25-84	84	105,00	107,50	60,00	10	1,390 1,116	72,45 €
YG1.25-88	88	110,00	112,50	60,00	10	1,499 1,226	79,53 €
YG1.25-90	90	112,50	115,00	60,00	10	1,556 1,283	92,27 €
YG1.25-96	96	120,00	122,50	60,00	12	1,734 1,461	92,92 €
YG1.25-100	100	125,00	127,50	60,00	12	1,860 1,586	93,73 €
YG1.25-112	112	140,00	142,50	60,00	12	2,266 1,992	119,20 €
YG1.25-120	120	150,00	152,50	60,00	15	2,562 2,289	119,20 €
YG1.25-130	130	162,50	165,00	60,00	15	2,961 2,688	129,58 €
YG1.25-140	140	175,00	177,50	60,00	15	3,392 3,119	150,79 €



Gears available up to this size



YG1.25-142 142 177,50 180,00

Dimensions: contact us

On request

Dimensions in mm

Plastic spur gear



MODULE

1.25

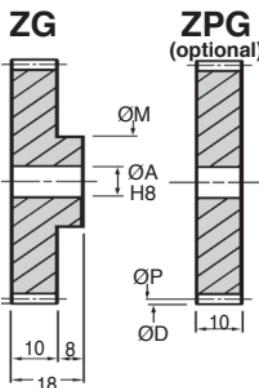


- Machined parts

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

Torque indication	
For 50 teeth at 1000 rpm	
Delrin	
Nm	1.0

Machined Delrin



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	9,87	€
ZG1.25-10	10	13,75	16,25	15	5	0,003	0,002	9,87	€
ZG1.25-11	11	15,00	17,50	15	5	0,004	0,002	9,87	€
ZG1.25-12	12	15,00	17,50	15	5	0,004	0,002	9,87	€
ZG1.25-13	13	16,25	18,75	15	5	0,004	0,002	9,87	€
ZG1.25-14	14	17,50	20,00	15	5	0,004	0,003	9,97	€
ZG1.25-15	15	18,75	21,25	15	5	0,005	0,003	10,24	€
ZG1.25-16	16	20,00	22,50	16	6	0,005	0,004	10,50	€
ZG1.25-17	17	21,25	23,75	16	6	0,006	0,004	10,90	€
ZG1.25-18	18	22,50	25,00	16	6	0,007	0,005	11,12	€
ZG1.25-19	19	23,75	26,25	16	6	0,007	0,005	12,16	€
ZG1.25-20	20	25,00	27,50	16	6	0,008	0,006	12,29	€
ZG1.25-21	21	26,25	28,75	18	6	0,009	0,007	12,47	€
ZG1.25-22	22	27,50	30,00	18	6	0,010	0,007	12,55	€
ZG1.25-23	23	28,75	31,25	18	6	0,010	0,008	14,02	€
ZG1.25-24	24	30,00	32,50	18	6	0,011	0,009	14,30	€
ZG1.25-25	25	31,25	33,75	18	6	0,012	0,009	14,54	€
ZG1.25-26	26	32,50	35,00	18	6	0,013	0,010	14,73	€
ZG1.25-27	27	33,75	36,25	18	6	0,013	0,011	15,11	€
ZG1.25-28	28	35,00	37,50	18	6	0,014	0,012	15,78	€
ZG1.25-29	29	36,25	38,75	18	6	0,015	0,013	16,14	€
ZG1.25-30	30	37,50	40,00	18	6	0,016	0,014	16,68	€
ZG1.25-31	31	38,75	41,25	18	6	0,017	0,015	19,41	€

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG	ZPG	Price each 1 to 5 ZG
ZG1.25-32	32	40,00	42,50	18	6	0,018	0,016	19,77 €
ZG1.25-33	33	41,25	43,75	18	6	0,019	0,017	20,16 €
ZG1.25-34	34	42,50	45,00	18	6	0,020	0,018	20,42 €
ZG1.25-35	35	43,75	46,25	18	6	0,021	0,019	20,88 €
ZG1.25-36	36	45,00	47,50	18	6	0,022	0,020	21,17 €
ZG1.25-38	38	47,50	50,00	18	6	0,025	0,022	21,55 €
ZG1.25-39	39	48,75	51,25	18	6	0,026	0,024	26,25 €
ZG1.25-40	40	50,00	52,50	22	8	0,028	0,025	26,43 €
ZG1.25-41	41	51,25	53,75	22	8	0,029	0,026	26,53 €
ZG1.25-42	42	52,50	55,00	22	8	0,031	0,027	26,69 €
ZG1.25-44	44	55,00	57,50	22	8	0,033	0,030	26,95 €
ZG1.25-45	45	56,25	58,75	22	8	0,035	0,031	27,05 €
ZG1.25-46	46	57,50	60,00	22	8	0,036	0,033	27,16 €
ZG1.25-47	47	58,75	61,25	22	8	0,038	0,034	30,99 €
ZG1.25-48	48	60,00	62,50	22	8	0,039	0,036	31,07 €
ZG1.25-49	49	61,25	63,75	22	8	0,041	0,037	31,78 €
ZG1.25-50	50	62,50	65,00	22	8	0,042	0,039	32,02 €
ZG1.25-51	51	63,75	66,25	22	8	0,044	0,040	32,38 €
ZG1.25-52	52	65,00	67,50	22	8	0,045	0,042	32,68 €
ZG1.25-53	53	66,25	68,75	22	8	0,047	0,044	32,93 €
ZG1.25-54	54	67,50	70,00	22	8	0,049	0,045	33,11 €
ZG1.25-55	55	68,75	71,25	26	10	0,051	0,047	33,44 €
ZG1.25-56	56	70,00	72,50	26	10	0,053	0,048	34,91 €
ZG1.25-57	57	71,25	73,75	26	10	0,055	0,050	36,45 €
ZG1.25-58	58	72,50	75,00	26	10	0,057	0,052	36,97 €
ZG1.25-59	59	73,75	76,25	26	10	0,059	0,054	40,03 €
ZG1.25-60	60	75,00	77,50	26	10	0,060	0,056	40,93 €
ZG1.25-61	61	76,25	78,75	26	10	0,062	0,058	41,34 €
ZG1.25-62	62	77,50	80,00	26	10	0,064	0,060	41,95 €
ZG1.25-63	63	78,75	81,25	26	10	0,066	0,062	42,30 €
ZG1.25-64	64	80,00	82,50	26	10	0,068	0,064	42,74 €
ZG1.25-65	65	81,25	83,75	26	10	0,070	0,066	43,33 €
ZG1.25-66	66	82,50	85,00	26	10	0,072	0,068	43,86 €
ZG1.25-68	68	85,00	87,50	26	10	0,077	0,072	45,06 €
ZG1.25-70	70	87,50	90,00	26	10	0,081	0,076	45,79 €
ZG1.25-72	72	90,00	92,50	26	10	0,085	0,081	51,22 €
ZG1.25-73	73	91,25	93,75	26	10	0,088	0,083	51,46 €
ZG1.25-74	74	92,50	95,00	26	10	0,090	0,085	51,72 €
ZG1.25-76	76	95,00	97,50	26	10	0,095	0,090	52,62 €
ZG1.25-78	78	97,50	100,00	26	10	0,100	0,095	54,49 €
ZG1.25-80	80	100,00	102,50	30	10	0,106	0,100	63,87 €
ZG1.25-84	84	105,00	107,50	30	10	0,117	0,110	57,21 €
ZG1.25-88	88	110,00	112,50	30	10	0,128	0,121	62,92 €
ZG1.25-90	90	112,50	115,00	30	10	0,133	0,127	63,43 €
ZG1.25-96	96	120,00	122,50	30	12	0,151	0,144	79,61 €
ZG1.25-100	100	125,00	127,50	30	12	0,163	0,157	80,82 €
ZG1.25-112	112	140,00	142,50	30	12	0,203	0,197	104,41 €
ZG1.25-120	120	150,00	152,50	40	15	0,233	0,226	103,49 €

Gears available up to this size

ZG1.25-142 142 177,50 180,00 Dimensions: contact us On request

Dimensions in mm

Steel spur gear

Ste Stock

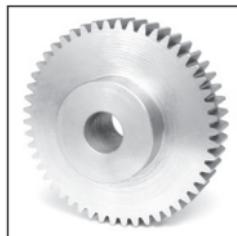
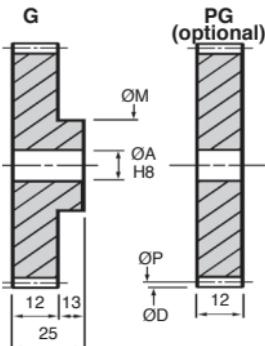
MODULE

Steel 34C10



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

Torque and power indication			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	8.88	41.50	4.44
KW	0.93	4.23	0.46
			3.55
			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	Stock*	Weight (kg) G PG	Price each 1 G PG
G1.5-9	9	15,00	18,00	18	8	✓	0,032	0,012 19,75 €
G1.5-10	10	16,50	19,50	18	8	✓	0,035	0,015 19,75 €
G1.5-11	11	18,00	21,00	18	8	-	0,039	0,019 19,75 €
G1.5-12	12	18,00	21,00	14	8	✓	0,029	0,019 9,70 €
G1.5-13	13	19,50	22,50	15	8	✓	0,035	0,023 19,41 €
G1.5-14	14	21,00	24,00	15	8	✓	0,040	0,027 19,89 €
G1.5-15	15	22,50	25,50	18	8	✓	0,052	0,032 10,51 €
G1.5-16	16	24,00	27,00	20	10	✓	0,058	0,034 10,80 €
G1.5-17	17	25,50	28,50	20	10	✓	0,063	0,040 21,57 €
G1.5-18	18	27,00	30,00	20	10	✓	0,069	0,045 17,69 €
G1.5-19	19	28,50	31,50	20	10	✓	0,075	0,051 23,07 €
G1.5-20	20	30,00	33,00	20	10	✓	0,081	0,058 12,51 €
G1.5-21	21	31,50	34,50	20	10	✓	0,088	0,064 12,51 €
G1.5-22	22	33,00	36,00	20	10	✓	0,095	0,071 12,78 €
G1.5-23	23	34,50	37,50	20	10	✓	0,102	0,079 25,14 €
G1.5-24	24	36,00	39,00	25	10	✓	0,127	0,086 13,13 €
G1.5-25	25	37,50	40,50	25	10	✓	0,135	0,094 26,74 €
G1.5-26	26	39,00	42,00	25	10	-	0,144	0,102 28,00 €
G1.5-27	27	40,50	43,50	25	10	✓	0,152	0,111 28,87 €
G1.5-28	28	42,00	45,00	25	10	✓	0,161	0,120 29,73 €
G1.5-29	29	43,50	46,50	25	10	-	0,170	0,129 30,22 €
G1.5-30	30	45,00	48,00	25	10	✓	0,180	0,139 16,08 €
G1.5-31	31	46,50	49,50	25	10	✓	0,190	0,149 31,58 €
G1.5-32	32	48,00	51,00	25	10	✓	0,200	0,159 16,63 €
G1.5-33	33	49,50	52,50	25	10	✓	0,211	0,170 32,45 €
G1.5-34	34	51,00	54,00	25	10	✓	0,221	0,180 32,76 €

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G PG	Price each 1 to 5 G PG
G1.5-35	35	52,50	55,50	30	15	-	0,235 0,183	33,13 €
G1.5-36	36	54,00	57,00	30	15	✓	0,247 0,194	18,00 €
G1.5-37	37	55,50	58,50	30	15	✓	0,259 0,206	35,59 €
G1.5-38	38	57,00	60,00	30	15	✓	0,271 0,218	36,36 €
G1.5-39	39	58,50	61,50	30	15	✓	0,283 0,231	37,13 €
G1.5-40	40	60,00	63,00	40	15	✓	0,351 0,243	37,92 €
G1.5-41	41	61,50	64,50	40	15	-	0,364 0,257	37,92 €
G1.5-42	42	63,00	66,00	40	15	✓	0,377 0,270	37,96 €
G1.5-43	43	64,50	67,50	40	15	-	0,391 0,284	38,02 €
G1.5-44	44	66,00	69,00	40	15	✓	0,405 0,298	38,02 €
G1.5-45	45	67,50	70,50	40	15	-	0,420 0,312	38,79 €
G1.5-46	46	69,00	72,00	40	15	✓	0,435 0,327	39,64 €
G1.5-47	47	70,50	73,50	40	15	-	0,450 0,342	40,59 €
G1.5-48	48	72,00	75,00	40	15	✓	0,465 0,358	41,45 €
G1.5-49	49	73,50	76,50	40	15	✓	0,481 0,373	41,45 €
G1.5-50	50	75,00	78,00	40	15	✓	0,497 0,389	46,32 €
G1.5-51	51	76,50	79,50	40	15	✓	0,513 0,406	47,73 €
G1.5-52	52	78,00	81,00	40	15	✓	0,530 0,423	48,70 €
G1.5-53	53	79,50	82,50	40	15	-	0,547 0,440	49,48 €
G1.5-54	54	81,00	84,00	40	15	✓	0,564 0,457	49,66 €
G1.5-55	55	82,50	85,50	40	15	-	0,582 0,475	49,87 €
G1.5-56	56	84,00	87,00	40	15	✓	0,600 0,493	50,28 €
G1.5-57	57	85,50	88,50	40	15	-	0,618 0,511	50,73 €
G1.5-58	58	87,00	90,00	40	15	-	0,637 0,530	50,73 €
G1.5-59	59	88,50	91,50	40	15	-	0,656 0,549	51,25 €
G1.5-60	60	90,00	93,00	40	15	✓	0,675 0,568	51,54 €
G1.5-62	62	93,00	96,00	40	15	-	0,715 0,608	52,55 €
G1.5-64	64	96,00	99,00	40	15	-	0,756 0,648	53,20 €
G1.5-65	65	97,50	100,50	40	15	✓	0,777 0,669	54,49 €
G1.5-66	66	99,00	102,00	40	15	-	0,798 0,691	56,48 €
G1.5-68	68	102,00	105,00	40	15	-	0,842 0,734	57,77 €
G1.5-70	70	105,00	108,00	40	15	✓	0,886 0,779	59,83 €
G1.5-71	71	106,50	109,50	50	15	-	0,980 0,802	61,49 €
G1.5-72	72	108,00	111,00	50	15	-	1,003 0,825	63,28 €
G1.5-73	73	109,50	112,50	50	15	-	1,026 0,849	64,80 €
G1.5-74	74	111,00	114,00	50	15	-	1,050 0,872	67,03 €
G1.5-75	75	112,50	115,50	50	15	-	1,074 0,897	67,42 €
G1.5-76	76	114,00	117,00	50	15	-	1,099 0,921	67,70 €
G1.5-78	78	117,00	120,00	50	15	-	1,149 0,971	71,11 €
G1.5-80	80	120,00	123,00	50	15	✓	1,200 1,022	73,71 €
G1.5-86	86	129,00	132,00	50	15	-	1,362 1,184	79,21 €
G1.5-90	90	135,00	138,00	50	15	✓	1,476 1,298	84,85 €
G1.5-96	96	144,00	147,00	50	15	-	1,657 1,479	90,46 €
G1.5-98	98	147,00	150,00	50	15	-	1,720 1,542	96,08 €
G1.5-100	100	150,00	153,00	50	15	✓	1,784 1,606	102,35 €
G1.5-105	105	157,50	160,50	50	15	-	1,951 1,773	109,04 €
G1.5-110	110	165,00	168,00	50	15	-	2,125 1,947	117,66 €
G1.5-115	115	172,50	175,50	50	15	-	2,308 2,130	131,04 €
G1.5-120	120	180,00	183,00	50	15	-	2,498 2,320	146,47 €



Gears available up to this size



G1.5-298 298 447,00 450,00

Dimensions: contact us

On request

*Depending on availability

MODULE

Steel 35NCD6

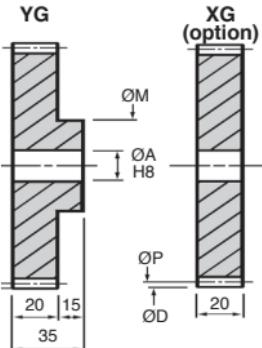
1.5



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

Options

- Material 20NCD2 case-hardened



in STOCK*
otherwise contact us

Torque and power indication				
For 50 teeth at 1000 rpm				
	35NCD6 hardened	35NCD6 hardened	20NCD2	20NCD2 hardened
Nm	32	46	32	88
kW	3.342	4.879	3.342	8.952



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) YG	Price each 1 to 5 YG
YG1.5-9	9	15,00	18,00	18,00	8	✓	0,043	0,019 24,64 €
YG1.5-10	10	16,50	19,50	19,50	8	✓	0,054	0,025 24,64 €
YG1.5-11	11	18,00	21,00	21,00	8	-	0,065	0,031 24,64 €
YG1.5-12	12	18,00	21,00	21,00	8	✓	0,065	0,031 23,47 €
YG1.5-13	13	19,50	22,50	20,00	8	✓	0,068	0,038 24,18 €
YG1.5-14	14	21,00	24,00	20,00	8	-	0,076	0,045 24,78 €
YG1.5-15	15	22,50	25,50	20,00	8	✓	0,083	0,053 25,42 €
YG1.5-16	16	24,00	27,00	25,00	10	✓	0,105	0,057 26,13 €
YG1.5-17	17	25,50	28,50	25,00	10	-	0,113	0,066 26,92 €
YG1.5-18	18	27,00	30,00	25,00	10	-	0,123	0,076 27,82 €
YG1.5-19	19	28,50	31,50	25,00	10	-	0,133	0,086 29,04 €
YG1.5-20	20	30,00	33,00	25,00	10	✓	0,143	0,096 30,22 €
YG1.5-21	21	31,50	34,50	25,00	10	-	0,155	0,107 30,54 €
YG1.5-22	22	33,00	36,00	30,00	10	✓	0,191	0,119 30,86 €
YG1.5-23	23	34,50	37,50	30,00	10	-	0,203	0,131 31,29 €
YG1.5-24	24	36,00	39,00	30,00	10	✓	0,216	0,144 31,67 €
YG1.5-25	25	37,50	40,50	30,00	10	✓	0,229	0,157 33,35 €
YG1.5-26	26	39,00	42,00	30,00	10	-	0,243	0,171 34,91 €
YG1.5-27	27	40,50	43,50	30,00	10	✓	0,257	0,185 35,95 €
YG1.5-28	28	42,00	45,00	30,00	10	✓	0,272	0,200 37,10 €
YG1.5-29	29	43,50	46,50	30,00	10	-	0,288	0,215 37,70 €
YG1.5-30	30	45,00	48,00	30,00	10	✓	0,304	0,231 38,79 €
YG1.5-31	31	46,50	49,50	30,00	10	-	0,320	0,248 39,36 €
YG1.5-32	32	48,00	51,00	30,00	10	-	0,337	0,265 40,16 €
YG1.5-33	33	49,50	52,50	30,00	10	✓	0,355	0,283 40,48 €

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) YG XG	Price each 1 to 5 YG XG
YG1.5-34	34	51,00	54,00	30,00	10	-	0,373 0,301	40,83 €
YG1.5-35	35	52,50	55,50	50,00	15	-	0,509 0,304	41,34 €
YG1.5-36	36	54,00	57,00	50,00	15	-	0,529 0,323	43,41 €
YG1.5-37	37	55,50	58,50	50,00	15	-	0,548 0,343	44,30 €
YG1.5-38	38	57,00	60,00	50,00	15	✓	0,569 0,363	45,33 €
YG1.5-39	39	58,50	61,50	50,00	15	-	0,589 0,384	46,26 €
YG1.5-40	40	60,00	63,00	50,00	15	✓	0,611 0,406	47,27 €
YG1.5-41	41	61,50	64,50	50,00	15	-	0,633 0,428	47,32 €
YG1.5-42	42	63,00	66,00	50,00	15	-	0,655 0,450	47,39 €
YG1.5-43	43	64,50	67,50	50,00	15	-	0,678 0,473	47,41 €
YG1.5-44	44	66,00	69,00	50,00	15	-	0,702 0,497	47,81 €
YG1.5-45	45	67,50	70,50	50,00	15	-	0,726 0,521	48,43 €
YG1.5-46	46	69,00	72,00	50,00	15	-	0,750 0,545	49,48 €
YG1.5-47	47	70,50	73,50	50,00	15	-	0,775 0,570	50,56 €
YG1.5-48	48	72,00	75,00	50,00	15	-	0,801 0,596	51,65 €
YG1.5-49	49	73,50	76,50	50,00	15	-	0,827 0,622	53,96 €
YG1.5-50	50	75,00	78,00	50,00	15	✓	0,854 0,649	58,70 €
YG1.5-51	51	76,50	79,50	50,00	15	-	0,881 0,676	59,49 €
YG1.5-52	52	78,00	81,00	50,00	15	-	0,909 0,704	60,67 €
YG1.5-53	53	79,50	82,50	60,00	15	-	1,037 0,733	61,57 €
YG1.5-54	54	81,00	84,00	60,00	15	✓	1,066 0,762	61,88 €
YG1.5-55	55	82,50	85,50	60,00	15	-	1,095 0,791	62,23 €
YG1.5-56	56	84,00	87,00	60,00	15	-	1,125 0,821	62,67 €
YG1.5-57	57	85,50	88,50	60,00	15	-	1,156 0,852	63,28 €
YG1.5-58	58	87,00	90,00	60,00	15	-	1,187 0,883	63,58 €
YG1.5-59	59	88,50	91,50	60,00	15	-	1,219 0,914	63,92 €
YG1.5-60	60	90,00	93,00	60,00	15	✓	1,251 0,947	64,21 €
YG1.5-62	62	93,00	96,00	60,00	15	-	1,317 1,013	65,49 €
YG1.5-64	64	96,00	99,00	60,00	15	-	1,385 1,081	66,31 €
YG1.5-65	65	97,50	100,50	60,00	15	✓	1,420 1,116	70,81 €
YG1.5-66	66	99,00	102,00	60,00	15	✓	1,455 1,151	70,81 €
YG1.5-68	68	102,00	105,00	60,00	15	-	1,528 1,224	71,95 €
YG1.5-70	70	105,00	108,00	60,00	15	-	1,602 1,298	74,56 €
YG1.5-71	71	106,50	109,50	60,00	15	-	1,641 1,336	76,63 €
YG1.5-72	72	108,00	111,00	60,00	15	-	1,679 1,375	78,82 €
YG1.5-73	73	109,50	112,50	60,00	15	-	1,718 1,414	80,79 €
YG1.5-74	74	111,00	114,00	60,00	15	-	1,758 1,454	83,58 €
YG1.5-75	75	112,50	115,50	60,00	15	-	1,798 1,494	89,06 €
YG1.5-76	76	114,00	117,00	60,00	15	-	1,839 1,535	89,06 €
YG1.5-78	78	117,00	120,00	75,00	15	-	2,105 1,618	89,06 €
YG1.5-80	80	120,00	123,00	75,00	15	-	2,191 1,704	91,89 €
YG1.5-86	86	129,00	132,00	75,00	15	-	2,460 1,973	104,10 €
YG1.5-90	90	135,00	138,00	75,00	15	-	2,650 2,164	105,83 €
YG1.5-96	96	144,00	147,00	75,00	15	-	2,952 2,465	135,77 €
YG1.5-98	98	147,00	150,00	75,00	15	-	3,057 2,570	135,77 €
YG1.5-100	100	150,00	153,00	75,00	15	-	3,164 2,677	135,77 €
YG1.5-105	105	157,50	160,50	75,00	15	-	3,441 2,955	147,57 €
YG1.5-110	110	165,00	168,00	75,00	15	-	3,732 3,245	171,72 €
YG1.5-115	115	172,50	175,50	75,00	15	-	4,036 3,550	171,72 €
YG1.5-120	120	180,00	183,00	75,00	15	-	4,354 3,867	214,66 €



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

Plastic spur gear



MODULE

1.5



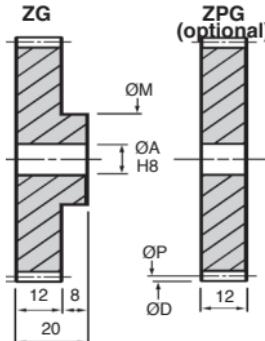
- Machined parts

- 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



in STOCK*
otherwise contact us

DISCOUNTS

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

Part number	Teeth <i>Z</i>	PCD <i>ØP</i>	Outside <i>ØD</i>	Boss <i>ØM</i>	Bore <i>ØA</i>	Stock*	Weight (kg) <i>ZG</i>	Price each 1 to 5 <i>ZG</i>	Weight (kg) <i>ZPG</i>	Price each 1 to 5 <i>ZPG</i>
ZG1.5-9	9	15,00	18,00	18	6	✓	0,005	0,002	9,88	€
ZG1.5-10	10	16,50	19,50	18	6	✓	0,005	0,003	9,88	€
ZG1.5-11	11	18,00	21,00	18	6	-	0,006	0,003	9,88	€
ZG1.5-12	12	18,00	21,00	18	6	✓	0,006	0,003	9,88	€
ZG1.5-13	13	19,50	22,50	18	6	-	0,006	0,004	10,37	€
ZG1.5-14	14	21,00	24,00	20	8	-	0,007	0,005	10,59	€
ZG1.5-15	15	22,50	25,50	20	8	✓	0,008	0,005	10,73	€
ZG1.5-16	16	24,00	27,00	20	8	✓	0,009	0,006	11,08	€
ZG1.5-17	17	25,50	28,50	20	8	-	0,010	0,007	11,43	€
ZG1.5-18	18	27,00	30,00	24	8	✓	0,012	0,008	11,68	€
ZG1.5-19	19	28,50	31,50	25	8	-	0,014	0,009	12,76	€
ZG1.5-20	20	30,00	33,00	25	8	✓	0,015	0,010	13,42	€
ZG1.5-21	21	31,50	34,50	25	8	-	0,016	0,011	13,49	€
ZG1.5-22	22	33,00	36,00	25	8	-	0,017	0,012	13,65	€
ZG1.5-23	23	34,50	37,50	25	8	-	0,018	0,014	13,93	€
ZG1.5-24	24	36,00	39,00	25	8	✓	0,019	0,015	14,02	€
ZG1.5-25	25	37,50	40,50	25	8	✓	0,021	0,016	14,83	€
ZG1.5-26	26	39,00	42,00	25	8	-	0,022	0,017	15,48	€
ZG1.5-27	27	40,50	43,50	25	8	-	0,024	0,019	18,15	€
ZG1.5-28	28	42,00	45,00	25	8	✓	0,025	0,020	18,66	€
ZG1.5-29	29	43,50	46,50	25	8	-	0,027	0,022	19,06	€
ZG1.5-30	30	45,00	48,00	25	8	✓	0,028	0,024	19,58	€
ZG1.5-31	31	46,50	49,50	28	10	-	0,031	0,025	19,93	€
ZG1.5-32	32	48,00	51,00	28	10	-	0,032	0,026	20,29	€

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA		Weight (kg) ZG	ZPG	Price each 1 to 5 ZG
ZG1.5-33	33	49,50	52,50	28	10	✓	0,034	0,028	20,42 €
ZG1.5-34	34	51,00	54,00	28	10	✓	0,036	0,030	24,82 €
ZG1.5-35	35	52,50	55,50	28	10	✓	0,038	0,032	25,02 €
ZG1.5-36	36	54,00	57,00	28	10	✓	0,040	0,034	26,29 €
ZG1.5-37	37	55,50	58,50	28	10	-	0,042	0,036	26,93 €
ZG1.5-38	38	57,00	60,00	28	10	-	0,044	0,038	31,19 €
ZG1.5-39	39	58,50	61,50	28	10	-	0,046	0,040	31,82 €
ZG1.5-40	40	60,00	63,00	30	12	✓	0,048	0,041	32,53 €
ZG1.5-41	41	61,50	64,50	30	12	-	0,050	0,044	32,59 €
ZG1.5-42	42	63,00	66,00	30	12	-	0,052	0,046	32,68 €
ZG1.5-43	43	64,50	67,50	30	12	-	0,055	0,048	32,75 €
ZG1.5-44	44	66,00	69,00	30	12	-	0,057	0,051	32,96 €
ZG1.5-45	45	67,50	70,50	30	12	-	0,060	0,053	33,18 €
ZG1.5-46	46	69,00	72,00	30	12	-	0,062	0,055	33,82 €
ZG1.5-47	47	70,50	73,50	30	12	-	0,065	0,058	34,81 €
ZG1.5-48	48	72,00	75,00	30	12	-	0,067	0,060	35,50 €
ZG1.5-49	49	73,50	76,50	30	12	-	0,070	0,063	39,29 €
ZG1.5-50	50	75,00	78,00	30	12	✓	0,073	0,066	42,06 €
ZG1.5-51	51	76,50	79,50	36	12	✓	0,078	0,068	43,28 €
ZG1.5-52	52	78,00	81,00	36	12	-	0,081	0,071	44,18 €
ZG1.5-53	53	79,50	82,50	36	12	-	0,084	0,074	44,83 €
ZG1.5-54	54	81,00	84,00	36	12	✓	0,087	0,077	45,22 €
ZG1.5-55	55	82,50	85,50	36	12	-	0,090	0,080	45,62 €
ZG1.5-56	56	84,00	87,00	36	12	-	0,093	0,083	45,93 €
ZG1.5-57	57	85,50	88,50	36	12	-	0,096	0,086	46,13 €
ZG1.5-58	58	87,00	90,00	36	12	-	0,099	0,089	46,32 €
ZG1.5-59	59	88,50	91,50	36	12	-	0,102	0,092	51,72 €
ZG1.5-60	60	90,00	93,00	36	12	✓	0,106	0,095	52,00 €
ZG1.5-62	62	93,00	96,00	36	12	✓	0,112	0,102	52,99 €
ZG1.5-64	64	96,00	99,00	36	12	-	0,119	0,109	53,61 €
ZG1.5-65	65	97,50	100,50	36	12	-	0,123	0,112	60,47 €
ZG1.5-66	66	99,00	102,00	48	12	-	0,134	0,116	62,67 €
ZG1.5-68	68	102,00	105,00	48	12	-	0,142	0,123	64,10 €
ZG1.5-70	70	105,00	108,00	48	12	✓	0,149	0,131	66,44 €
ZG1.5-71	71	106,50	109,50	48	12	-	0,153	0,134	68,23 €
ZG1.5-72	72	108,00	111,00	48	12	✓	0,157	0,138	62,29 €
ZG1.5-73	73	109,50	112,50	48	12	-	0,161	0,142	63,80 €
ZG1.5-74	74	111,00	114,00	48	12	-	0,165	0,146	66,07 €
ZG1.5-75	75	112,50	115,50	48	12	-	0,169	0,150	74,89 €
ZG1.5-76	76	114,00	117,00	48	12	-	0,173	0,154	78,83 €
ZG1.5-78	78	117,00	120,00	48	12	-	0,182	0,163	78,87 €
ZG1.5-80	80	120,00	123,00	48	12	✓	0,190	0,171	79,22 €
ZG1.5-86	86	129,00	132,00	48	12	-	0,217	0,198	95,93 €
ZG1.5-90	90	135,00	138,00	48	12	✓	0,237	0,217	91,27 €
ZG1.5-96	96	144,00	147,00	48	12	-	0,267	0,247	118,74 €
ZG1.5-100	100	150,00	153,00	48	15	-	0,288	0,268	121,66 €



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

Moulded plastic spur gear

Nyl  €  Stock

MODULE

1.5

Nylon 6 moulded

ϕA : Pre-bored
hole must be
finished

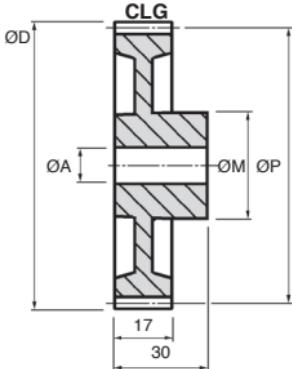
Economy range

Moulded parts

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

Options

- Alternative number of teeth, a datasheet is available from www.hpc-europe.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.



DISCOUNTS

Qty.	1+	10+	50+	100+	1000+
Disc.	List -10%	-25%	-35%	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	✓	3,65 €
CLG1.5-15	15	25,5	22,5	18	5	✓	3,65 €
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	✓	4,23 €
CLG1.5-24	24	39,0	36,0	28	8	✓	4,59 €
CLG1.5-25	25	40,0	37,5	30	8	-	4,59 €
CLG1.5-28	28	45,0	42,0	30	8	-	on request
CLG1.5-30	30	48,0	45,0	35	12	✓	5,69 €
CLG1.5-32	32	51,0	48,0	35	12	-	on request
CLG1.5-36	36	57,0	54,0	35	16	✓	8,28 €
CLG1.5-38	38	60,0	57,0	35	16	-	on request
CLG1.5-40	40	63,0	60,0	40	16	✓	8,28 €
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	✓	10,34 €
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	✓	13,48 €
CLG1.5-65	65	100,0	97,5	60	20	-	on request
CLG1.5-70	70	108,0	105,0	60	20	✓	19,23 €
CLG1.5-75	75	115,5	112,5	60	20	-	On request

Gears available up to this size

*Depending on availability - Dimensions in mm

Stainless steel 303

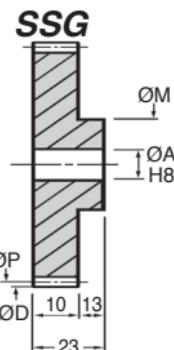
MODULE

1.5



- Quality standard 9
- Pressure angle 20°

Torque and power indication			
For 50 teeth at 1000 rpm			
	SIS 303	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	Stock*	Price each 1 to 5
SSG1.5-12-303	12	18,0	21,0	14	8	-	20,08 €
SSG1.5-15-303	15	22,5	25,5	18	8	-	22,17 €
SSG1.5-16-303	16	24,0	27,0	20	10	-	23,11 €
SSG1.5-18-303	18	27,0	30,0	20	10	-	25,99 €
SSG1.5-20-303	20	30,0	33,0	20	10	-	27,61 €
SSG1.5-22-303	22	33,0	36,0	20	10	-	30,52 €
SSG1.5-24-303	24	36,0	39,0	25	10	-	31,93 €
SSG1.5-30-303	30	45,0	48,0	25	10	-	40,48 €
SSG1.5-32-303	32	48,0	51,0	25	10	-	43,46 €
SSG1.5-36-303	36	54,0	57,0	30	15	-	49,96 €
SSG1.5-40-303	40	60,0	63,0	40	15	-	53,04 €
SSG1.5-44-303	44	66,0	69,0	40	15	-	53,18 €
SSG1.5-46-303	46	69,0	72,0	40	15	-	55,46 €
SSG1.5-48-303	48	72,0	75,0	40	15	-	58,01 €
SSG1.5-50-303	50	75,0	78,0	40	15	-	80,34 €
SSG1.5-54-303	54	81,0	84,0	40	15	-	80,34 €
SSG1.5-56-303	56	84,0	87,0	40	15	-	80,34 €
SSG1.5-60-303	60	90,0	93,0	40	15	-	110,42 €
SSG1.5-64-303	64	96,0	99,0	40	15	-	110,42 €
SSG1.5-66-303	66	99,0	102,0	40	15	-	126,65 €
SSG1.5-70-303	70	105,0	108,0	40	15	-	126,65 €



Gears available up to this size



SSG1.5-298-303 298 447,0 450,0 Dimensions: contact us On request

*Depending on availability - Dimensions in mm

Stainless steel spur gear

Sta

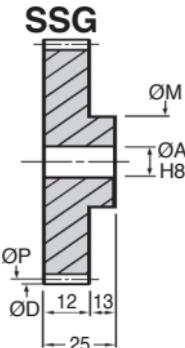
MODULE

Stainless steel 304L

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	<i>4,44</i>	<i>3,55</i>
kW	0,93	<i>0,46</i>	<i>0,37</i>



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	25,19 €
SSG1.5-15-304L	15	22,5	25,5	18	8	27,68 €
SSG1.5-16-304L	16	24	27	20	10	28,87 €
SSG1.5-18-304L	18	27	30	20	10	32,50 €
SSG1.5-20-304L	20	30	33	20	10	34,53 €
SSG1.5-22-304L	22	33	36	20	10	38,20 €
SSG1.5-24-304L	24	36	39	25	10	39,98 €
SSG1.5-30-304L	30	45	48	25	10	50,49 €
SSG1.5-32-304L	32	48	51	25	10	54,25 €
SSG1.5-36-304L	36	54	57	30	15	62,35 €
SSG1.5-40-304L	40	60	63	40	15	66,23 €
SSG1.5-44-304L	44	66	69	40	15	66,37 €
SSG1.5-46-304L	46	69	72	40	15	69,25 €
SSG1.5-48-304L	48	72	75	40	15	72,35 €
SSG1.5-50-304L	50	75	78	40	15	100,42 €
SSG1.5-54-304L	54	81	84	40	15	100,42 €
SSG1.5-56-304L	56	84	87	40	15	100,42 €
SSG1.5-60-304L	60	90	93	40	15	138,02 €
SSG1.5-64-304L	64	96	99	40	15	138,02 €
SSG1.5-66-304L	66	99	102	40	15	158,32 €
SSG1.5-70-304L	70	105	108	40	15	158,32 €

Gears avail
SSG1.5-298-304L 298 447 45

Gears available up to this size

Stainless steel 316L

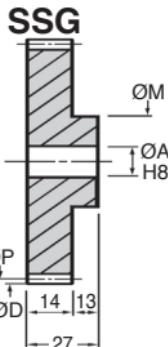
MODULE

1.5



- Quality standard 9
- Pressure angle 20°

Torque and power indication For 50 teeth at 1000 rpm			
	StS 316L	brass	fibre
Nm			
kW			



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
SSG1.5-12-316L	12	18,0	21,0	14	8	37,65 €
SSG1.5-15-316L	15	22,5	25,5	18	8	41,58 €
SSG1.5-16-316L	16	24,0	27,0	20	10	43,33 €
SSG1.5-18-316L	18	27,0	30,0	20	10	48,74 €
SSG1.5-20-316L	20	30,0	33,0	20	10	51,78 €
SSG1.5-22-316L	22	33,0	36,0	20	10	57,25 €
SSG1.5-24-316L	24	36,0	39,0	25	10	59,88 €
SSG1.5-30-316L	30	45,0	48,0	25	10	75,90 €
SSG1.5-32-316L	32	48,0	51,0	25	10	81,48 €
SSG1.5-36-316L	36	54,0	57,0	30	15	93,69 €
SSG1.5-40-316L	40	60,0	63,0	40	15	99,47 €
SSG1.5-44-316L	44	66,0	69,0	40	15	99,72 €
SSG1.5-46-316L	46	69,0	72,0	40	15	104,00 €
SSG1.5-48-316L	48	72,0	75,0	40	15	108,79 €
SSG1.5-50-316L	50	75,0	78,0	40	15	150,65 €
SSG1.5-54-316L	54	81,0	84,0	40	15	150,65 €
SSG1.5-56-316L	56	84,0	87,0	40	15	150,65 €
SSG1.5-60-316L	60	90,0	93,0	40	15	207,03 €
SSG1.5-64-316L	64	96,0	99,0	40	15	207,03 €
SSG1.5-66-316L	66	99,0	102,0	40	15	237,49 €
SSG1.5-70-316L	70	105,0	108,0	40	15	237,49 €



Gears available up to this size



SSG1.5-298-316L 298 447,0 450,0 Dimensions: contact us On request

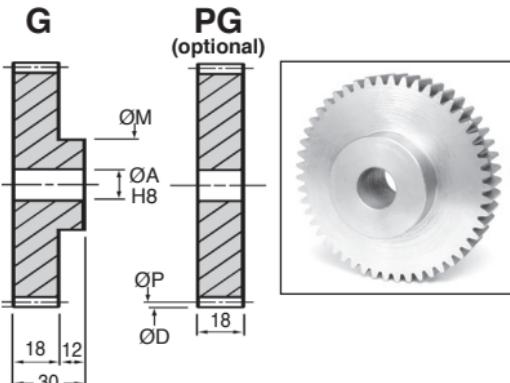
*Depending on availability - Dimensions in mm

Steel spur gear

**MODULE****Steel 34C10****1.75**

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

Torque and power indication				
For 50 teeth at 1000 rpm				
	34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm	16	75	8	6.40
kW	1.72	7.83	0.86	0.67

**DISCOUNTS**

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

Part number	Teeth Z	PCD ØP	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	20,68	€
G1.75-10	10	19,25	22,75	22,75	10	0,059	0,029	20,68	€
G1.75-11	11	21,00	24,50	24,50	10	0,073	0,037	20,68	€
G1.75-12	12	21,00	24,50	24,50	10	0,073	0,037	20,68	€
G1.75-13	13	22,75	26,25	25,00	10	0,083	0,045	21,22	€
G1.75-14	14	24,50	28,00	25,00	10	0,092	0,054	22,38	€
G1.75-15	15	26,25	29,75	25,00	10	0,102	0,064	23,39	€
G1.75-16	16	28,00	31,50	25,00	12	0,104	0,069	23,81	€
G1.75-17	17	29,75	33,25	25,00	12	0,115	0,080	24,45	€
G1.75-18	18	31,50	35,00	25,00	12	0,126	0,092	25,50	€
G1.75-19	19	33,25	36,75	25,00	12	0,139	0,104	26,53	€
G1.75-20	20	35,00	38,50	30,00	12	0,171	0,117	28,32	€
G1.75-21	21	36,75	40,25	30,00	12	0,185	0,131	28,98	€
G1.75-22	22	38,50	42,00	30,00	12	0,199	0,145	29,43	€
G1.75-23	23	40,25	43,75	30,00	12	0,214	0,160	30,95	€
G1.75-24	24	42,00	45,50	30,00	12	0,230	0,175	32,32	€
G1.75-25	25	43,75	47,25	30,00	12	0,246	0,191	32,54	€
G1.75-26	26	45,50	49,00	30,00	12	0,263	0,208	32,76	€
G1.75-27	27	47,25	50,75	30,00	12	0,280	0,226	33,33	€
G1.75-28	28	49,00	52,50	40,00	15	0,335	0,235	33,42	€
G1.75-29	29	50,75	54,25	40,00	15	0,353	0,254	33,80	€
G1.75-30	30	52,50	56,00	40,00	15	0,373	0,274	34,74	€
G1.75-31	31	54,25	57,75	40,00	15	0,393	0,294	35,50	€
G1.75-32	32	56,00	59,50	40,00	15	0,414	0,315	35,83	€
G1.75-33	33	57,75	61,25	40,00	15	0,436	0,336	36,02	€

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) PG	Price each 1 to 5 PG
G1.75-34	34	59,50	63,00	40,00	15	0,458	0,359 36,61 €
G1.75-35	35	61,25	64,75	40,00	15	0,481	0,382 36,68 €
G1.75-36	36	63,00	66,50	50,00	15	0,569	0,405 37,92 €
G1.75-37	37	64,75	68,25	50,00	15	0,593	0,429 39,64 €
G1.75-38	38	66,50	70,00	50,00	15	0,618	0,454 40,54 €
G1.75-39	39	68,25	71,75	50,00	15	0,644	0,480 41,71 €
G1.75-40	40	70,00	73,50	50,00	15	0,670	0,506 42,62 €
G1.75-41	41	71,75	75,25	50,00	15	0,697	0,533 43,23 €
G1.75-42	42	73,50	77,00	50,00	15	0,724	0,560 44,18 €
G1.75-43	43	75,25	78,75	50,00	15	0,752	0,588 45,85 €
G1.75-44	44	77,00	80,50	50,00	15	0,781	0,617 46,48 €
G1.75-45	45	78,75	82,25	60,00	20	0,858	0,628 47,14 €
G1.75-46	46	80,50	84,00	60,00	20	0,889	0,658 48,07 €
G1.75-47	47	82,25	85,75	60,00	20	0,919	0,689 48,94 €
G1.75-48	48	84,00	87,50	60,00	20	0,951	0,720 50,22 €
G1.75-49	49	85,75	89,25	60,00	20	0,983	0,752 52,11 €
G1.75-50	50	87,50	91,00	60,00	20	1,016	0,785 52,70 €
G1.75-51	51	89,25	92,75	60,00	20	1,049	0,818 54,02 €
G1.75-52	52	91,00	94,50	60,00	20	1,083	0,853 55,36 €
G1.75-53	53	92,75	96,25	60,00	20	1,118	0,887 56,78 €
G1.75-54	54	94,50	98,00	80,00	20	1,356	0,923 61,29 €
G1.75-55	55	96,25	99,75	80,00	20	1,392	0,959 63,10 €
G1.75-56	56	98,00	101,50	80,00	20	1,428	0,996 65,80 €
G1.75-57	57	99,75	103,25	80,00	20	1,466	1,033 67,92 €
G1.75-58	58	101,50	105,00	80,00	20	1,504	1,071 70,01 €
G1.75-59	59	103,25	106,75	80,00	20	1,543	1,110 72,26 €
G1.75-60	60	105,00	108,50	80,00	20	1,582	1,149 75,18 €
G1.75-62	62	108,50	112,00	80,00	20	1,663	0,230 77,03 €
G1.75-64	64	112,00	115,50	80,00	20	1,746	1,314 79,29 €
G1.75-65	65	113,75	117,25	80,00	20	1,789	1,356 81,77 €
G1.75-66	66	115,50	119,00	80,00	20	1,833	1,400 84,29 €
G1.75-68	68	119,00	122,50	80,00	20	1,921	1,489 86,75 €
G1.75-70	70	122,50	126,00	100,00	20	2,272	1,580 89,13 €
G1.75-71	71	124,25	127,75	100,00	20	2,319	1,627 90,38 €
G1.75-72	72	126,00	129,50	100,00	20	2,367	1,674 92,07 €
G1.75-73	73	127,75	131,25	100,00	20	2,415	1,722 93,42 €
G1.75-74	74	129,50	133,00	100,00	20	2,463	1,771 94,83 €
G1.75-75	75	131,25	134,75	100,00	20	2,513	1,820 96,23 €
G1.75-76	76	133,00	136,50	100,00	20	2,563	1,870 97,63 €
G1.75-78	78	136,50	140,00	100,00	20	2,665	1,972 105,24 €
G1.75-80	80	140,00	143,50	100,00	20	2,769	2,077 111,44 €
G1.75-86	86	150,50	154,00	100,00	20	3,099	2,407 125,32 €
G1.75-90	90	157,50	161,00	100,00	20	3,333	2,640 137,19 €
G1.75-96	96	168,00	171,50	100,00	20	3,702	3,010 151,79 €
G1.75-98	98	171,50	175,00	100,00	20	3,831	3,139 157,92 €
G1.75-100	100	175,00	178,50	100,00	20	3,962	3,270 164,87 €
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

MODULE

1.75

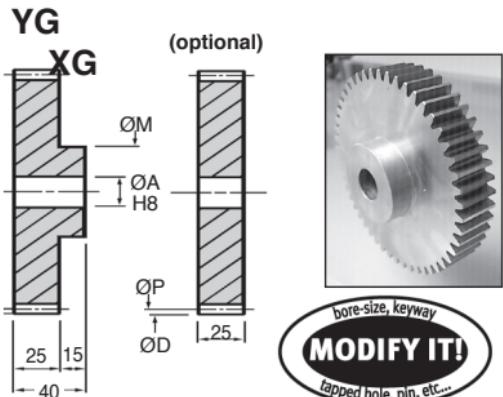


- Greater torque
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Options

- Material 20NCD2 case-hardened

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	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG1.75-9	9	17,50	21,00	21,00	10	0,062	0,031	25,94 €	
YG1.75-10	10	19,25	22,75	22,75	10	0,078	0,041	25,94 €	
YG1.75-11	11	21,00	24,50	24,50	10	0,096	0,051	25,94 €	
YG1.75-12	12	21,00	24,50	24,50	10	0,096	0,051	25,94 €	
YG1.75-13	13	22,75	26,25	25,00	10	0,110	0,063	26,60 €	
YG1.75-14	14	24,50	28,00	25,00	10	0,122	0,075	28,07 €	
YG1.75-15	15	26,25	29,75	25,00	10	0,136	0,089	29,27 €	
YG1.75-16	16	28,00	31,50	25,00	12	0,140	0,096	29,78 €	
YG1.75-17	17	29,75	33,25	25,00	12	0,155	0,111	30,63 €	
YG1.75-18	18	31,50	35,00	25,00	12	0,171	0,127	31,97 €	
YG1.75-19	19	33,25	36,75	25,00	12	0,188	0,144	33,23 €	
YG1.75-20	20	35,00	38,50	30,00	12	0,231	0,162	35,52 €	
YG1.75-21	21	36,75	40,25	30,00	12	0,249	0,181	36,32 €	
YG1.75-22	22	38,50	42,00	30,00	12	0,269	0,201	36,88 €	
YG1.75-23	23	40,25	43,75	30,00	12	0,290	0,222	38,74 €	
YG1.75-24	24	42,00	45,50	30,00	12	0,312	0,243	40,48 €	
YG1.75-25	25	43,75	47,25	30,00	12	0,334	0,266	40,75 €	
YG1.75-26	26	45,50	49,00	30,00	12	0,358	0,289	40,98 €	
YG1.75-27	27	47,25	50,75	30,00	12	0,382	0,314	41,71 €	
YG1.75-28	28	49,00	52,50	40,00	15	0,451	0,327	41,86 €	
YG1.75-29	29	50,75	54,25	40,00	15	0,477	0,353	42,23 €	
YG1.75-30	30	52,50	56,00	40,00	15	0,504	0,380	43,42 €	
YG1.75-31	31	54,25	57,75	40,00	15	0,532	0,408	44,30 €	
YG1.75-32	32	56,00	59,50	40,00	15	0,561	0,437	44,82 €	
YG1.75-33	33	57,75	61,25	40,00	15	0,591	0,467	45,07 €	

Dimensions in mm

On request

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	45,85 €
YG1.75-35	35	61,25	64,75	40,00	15	0,654 0,530	45,94 €
YG1.75-36	36	63,00	66,50	50,00	15	0,768 0,563	47,41 €
YG1.75-37	37	64,75	68,25	50,00	15	0,801 0,596	49,55 €
YG1.75-38	38	66,50	70,00	50,00	15	0,836 0,631	50,71 €
YG1.75-39	39	68,25	71,75	50,00	15	0,871 0,666	52,15 €
YG1.75-40	40	70,00	73,50	50,00	15	0,908 0,702	53,28 €
YG1.75-41	41	71,75	75,25	50,00	15	0,945 0,740	54,09 €
YG1.75-42	42	73,50	77,00	50,00	15	0,983 0,778	55,34 €
YG1.75-43	43	75,25	78,75	50,00	15	1,022 0,817	57,37 €
YG1.75-44	44	77,00	80,50	50,00	15	1,062 0,857	58,15 €
YG1.75-45	45	78,75	82,25	60,00	20	1,160 0,872	58,99 €
YG1.75-46	46	80,50	84,00	60,00	20	1,202 0,914	60,09 €
YG1.75-47	47	82,25	85,75	60,00	20	1,245 0,956	61,20 €
YG1.75-48	48	84,00	87,50	60,00	20	1,289 1,000	62,85 €
YG1.75-49	49	85,75	89,25	60,00	20	1,333 1,045	65,13 €
YG1.75-50	50	87,50	91,00	60,00	20	1,379 1,090	65,91 €
YG1.75-51	51	89,25	92,75	60,00	20	1,425 1,137	67,59 €
YG1.75-52	52	91,00	94,50	60,00	20	1,473 0,184	69,25 €
YG1.75-53	53	92,75	96,25	60,00	20	1,521 1,232	71,02 €
YG1.75-54	54	94,50	98,00	80,00	20	1,823 1,282	76,60 €
YG1.75-55	55	96,25	99,75	80,00	20	1,873 1,332	78,98 €
YG1.75-56	56	98,00	101,50	80,00	20	1,924 1,383	82,34 €
YG1.75-57	57	99,75	103,25	80,00	20	1,976 1,435	84,95 €
YG1.75-58	58	101,50	105,00	80,00	20	2,029 1,488	87,58 €
YG1.75-59	59	103,25	106,75	80,00	20	2,083 1,542	90,38 €
YG1.75-60	60	105,00	108,50	80,00	20	2,137 1,596	94,02 €
YG1.75-62	62	108,50	112,00	80,00	20	2,250 1,709	96,30 €
YG1.75-64	64	112,00	115,50	80,00	20	2,366 1,825	99,93 €
YG1.75-65	65	113,75	117,25	80,00	20	2,425 1,884	102,32 €
YG1.75-66	66	115,50	119,00	80,00	20	2,485 1,944	105,33 €
YG1.75-68	68	119,00	122,50	80,00	20	2,608 2,068	108,49 €
YG1.75-70	70	122,50	126,00	100,00	20	3,060 2,195	111,37 €
YG1.75-71	71	124,25	127,75	100,00	20	3,125 2,259	112,99 €
YG1.75-72	72	126,00	129,50	100,00	20	3,191 2,325	115,11 €
YG1.75-73	73	127,75	131,25	100,00	20	3,257 2,392	116,83 €
YG1.75-74	74	129,50	133,00	100,00	20	3,325 2,460	118,62 €
YG1.75-75	75	131,25	134,75	100,00	20	3,394 2,528	120,30 €
YG1.75-76	76	133,00	136,50	100,00	20	3,463 2,598	122,09 €
YG1.75-78	78	136,50	140,00	100,00	20	3,605 2,739	131,55 €
YG1.75-80	80	140,00	143,50	100,00	20	3,750 2,885	152,33 €
YG1.75-86	86	150,50	154,00	100,00	20	4,209 3,343	192,67 €
YG1.75-90	90	157,50	161,00	100,00	20	4,532 3,667	171,51 €
YG1.75-96	96	168,00	171,50	100,00	20	5,046 4,181	190,23 €
YG1.75-98	98	171,50	175,00	100,00	20	5,225 4,359	197,48 €
YG1.75-100	100	175,00	178,50	100,00	20	5,407 4,541	206,10 €
YG1.75-100	105	183,75	187,25	100,00	20	5,878 5,013	206,10 €
YG1.75-110	110	192,50	196,00	100,00	20	6,373 5,508	On request
YG1.75-115	115	201,25	204,75	100,00	20	6,891 6,025	On request
YG1.75-120	120	210,00	213,50	100,00	20	7,431 6,566	On request



Gears available up to this size



YG1.75-335 335 586,25 589,75 Dimensions: contact us On request

Dimensions in mm

Steel spur gear

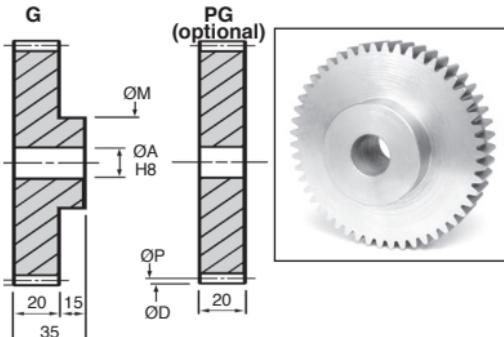
MODULE

2.0



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

Steel 34C10



Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm	25	119	12.50	10
kW	2.61	12.51	1.32	1.04

24/48 HOURS 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	Stock*	Weight (kg) G	Price each 1 to 5 G	Price each 1 to 5 PG
G2-9	9	20,00	24,00	24	12	✓	0,070	0,031	25,72 €
G2-10	10	22,00	26,00	26	12	✓	0,089	0,041	25,72 €
G2-11	11	24,00	28,00	28	12	-	0,110	0,052	25,72 €
G2-12	12	24,00	28,00	28	12	✓	0,110	0,052	13,28 €
G2-13	13	26,00	30,00	20	12	✓	0,087	0,064	27,21 €
G2-14	14	28,00	32,00	20	12	✓	0,100	0,077	28,75 €
G2-15	15	30,00	34,00	25	15	✓	0,117	0,081	15,64 €
G2-16	16	32,00	36,00	25	15	✓	0,132	0,096	16,44 €
G2-17	17	34,00	38,00	25	15	✓	0,148	0,112	32,45 €
G2-18	18	36,00	40,00	30	15	✓	0,190	0,129	17,24 €
G2-19	19	38,00	42,00	30	15	-	0,207	0,147	34,18 €
G2-20	20	40,00	44,00	30	15	✓	0,226	0,165	18,02 €
G2-21	21	42,00	46,00	30	15	-	0,246	0,185	35,80 €
G2-22	22	44,00	48,00	35	15	✓	0,296	0,206	37,13 €
G2-23	23	46,00	50,00	35	15	✓	0,317	0,227	37,13 €
G2-24	24	48,00	52,00	35	15	✓	0,340	0,250	19,63 €
G2-25	25	50,00	54,00	35	15	✓	0,364	0,273	40,08 €
G2-26	26	52,00	56,00	35	15	✓	0,388	0,298	41,34 €
G2-27	27	54,00	58,00	40	20	✓	0,411	0,302	42,81 €
G2-28	28	56,00	60,00	40	20	✓	0,437	0,329	43,73 €
G2-29	29	58,00	62,00	40	20	-	0,464	0,356	44,82 €
G2-30	30	60,00	64,00	40	20	✓	0,493	0,385	23,69 €
G2-31	31	62,00	66,00	40	20	✓	0,522	0,414	47,61 €
G2-32	32	64,00	68,00	40	20	✓	0,552	0,444	25,75 €
G2-33	33	66,00	70,00	40	20	-	0,584	0,476	50,71 €

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) G PG	Price each 1 to 5 PG
G2-34	34	68,00	72,00	40	20	✓	0,616	0,508 53,20 €
G2-35	35	70,00	74,00	50	20	✓	0,730	0,541 54,90 €
G2-36	36	72,00	76,00	50	20	✓	0,764	0,575 30,03 €
G2-37	37	74,00	78,00	50	20	-	0,799	0,610 58,72 €
G2-38	38	76,00	80,00	50	20	-	0,836	0,646 60,29 €
G2-39	39	78,00	82,00	50	20	✓	0,873	0,683 61,72 €
G2-40	40	80,00	84,00	50	20	✓	0,911	0,721 62,85 €
G2-41	41	82,00	86,00	50	20	-	0,949	0,760 64,02 €
G2-42	42	84,00	88,00	50	20	-	0,989	0,800 64,75 €
G2-43	43	86,00	90,00	50	20	-	1,030	0,841 65,54 €
G2-44	44	88,00	92,00	50	20	✓	1,072	0,883 66,57 €
G2-45	45	90,00	94,00	50	20	✓	1,115	0,926 67,59 €
G2-46	46	92,00	96,00	50	20	✓	1,159	0,969 69,13 €
G2-47	47	94,00	98,00	50	20	-	1,203	1,014 70,68 €
G2-48	48	96,00	100,00	50	20	✓	1,249	1,060 72,77 €
G2-49	49	98,00	102,00	50	20	✓	1,296	1,106 75,05 €
G2-50	50	100,00	104,00	50	20	✓	1,343	1,154 77,91 €
G2-51	51	102,00	106,00	50	20	-	1,392	1,202 79,42 €
G2-52	52	104,00	108,00	50	20	-	1,441	1,252 80,79 €
G2-53	53	106,00	110,00	50	20	-	1,492	1,302 81,72 €
G2-54	54	108,00	112,00	50	20	✓	1,543	1,354 83,10 €
G2-55	55	110,00	114,00	50	20	-	1,596	1,406 91,25 €
G2-56	56	112,00	116,00	50	20	-	1,649	1,460 93,18 €
G2-57	57	114,00	118,00	50	20	-	1,703	1,514 95,04 €
G2-58	58	116,00	120,00	50	20	-	1,759	1,569 96,70 €
G2-59	59	118,00	122,00	50	20	-	1,815	1,626 97,84 €
G2-60	60	120,00	124,00	50	20	✓	1,872	1,683 99,19 €
G2-62	62	124,00	128,00	50	20	-	1,989	1,800 101,63 €
G2-64	64	128,00	132,00	50	20	-	2,211	1,921 104,09 €
G2-65	65	130,00	134,00	50	20	✓	2,173	1,983 109,04 €
G2-66	66	132,00	136,00	50	20	-	2,236	2,046 110,89 €
G2-68	68	136,00	140,00	50	20	-	2,364	2,175 112,54 €
G2-70	70	140,00	144,00	50	20	✓	2,497	2,308 115,37 €
G2-71	71	142,00	146,00	70	20	-	2,781	2,376 121,78 €
G2-72	72	144,00	148,00	70	20	-	2,850	2,444 129,18 €
G2-73	73	146,00	150,00	70	20	-	2,920	2,514 134,40 €
G2-74	74	148,00	152,00	70	20	-	2,990	2,585 138,18 €
G2-75	75	150,00	154,00	70	20	-	3,062	2,656 142,81 €
G2-76	76	152,00	156,00	70	20	-	3,135	2,729 149,77 €
G2-78	78	156,00	160,00	70	20	-	3,283	2,877 157,54 €
G2-80	80	160,00	164,00	70	20	✓	3,435	3,029 172,83 €
G2-86	86	172,00	176,00	70	20	-	3,914	3,508 185,95 €
G2-90	90	180,00	184,00	70	20	✓	4,252	3,846 206,36 €
G2-96	96	192,00	196,00	70	20	-	4,789	4,383 220,93 €
G2-98	98	196,00	200,00	70	20	-	4,975	4,570 240,46 €
G2-100	100	200,00	204,00	70	20	-	5,166	4,760 256,60 €
G2-105	105	210,00	214,00	70	20	-	5,658	5,253 266,13 €
G2-110	110	220,00	224,00	70	20	-	6,175	5,770 284,34 €
G2-115	115	230,00	234,00	70	20	-	6,716	6,311 304,12 €
G2-120	120	240,00	244,00	70	20	-	7,281	6,875 330,45 €



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

Options

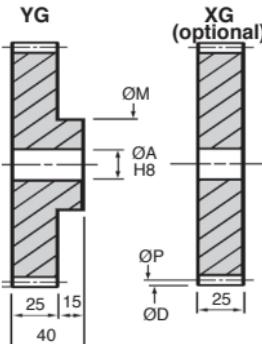
- Material 20NCD2 case-hardened

Steel 35NCD6



in STOCK*

otherwise contact us



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	Stock*	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG2-9	9	20,00	24,00	24	12	-	0,077	0,038	32,03 €	32,03 €
YG2-10	10	22,00	26,00	26	12	-	0,099	0,051	32,03 €	32,03 €
YG2-11	11	24,00	28,00	28	12	-	0,123	0,065	32,03 €	32,03 €
YG2-12	12	24,00	28,00	28	12	✓	0,123	0,065	32,03 €	32,03 €
YG2-13	13	26,00	30,00	30	12	-	0,148	0,080	33,92 €	33,92 €
YG2-14	14	28,00	32,00	30	12	-	0,164	0,096	35,87 €	35,87 €
YG2-15	15	30,00	34,00	30	15	✓	0,162	0,101	37,74 €	37,74 €
YG2-16	16	32,00	36,00	30	15	-	0,181	0,120	39,57 €	39,57 €
YG2-17	17	34,00	38,00	35	15	-	0,230	0,140	40,48 €	40,48 €
YG2-18	18	36,00	40,00	35	15	✓	0,251	0,161	41,55 €	41,55 €
YG2-19	19	38,00	42,00	35	15	-	0,273	0,183	42,62 €	42,62 €
YG2-20	20	40,00	44,00	35	15	✓	0,297	0,207	43,50 €	43,50 €
YG2-21	21	42,00	46,00	35	15	✓	0,321	0,231	44,67 €	44,67 €
YG2-22	22	44,00	48,00	35	15	-	0,347	0,257	45,45 €	45,45 €
YG2-23	23	46,00	50,00	35	15	✓	0,374	0,284	46,26 €	46,26 €
YG2-24	24	48,00	52,00	35	15	✓	0,403	0,312	47,27 €	47,27 €
YG2-25	25	50,00	54,00	35	15	✓	0,432	0,342	50,02 €	50,02 €
YG2-26	26	52,00	56,00	35	15	-	0,463	0,372	51,54 €	51,54 €
YG2-27	27	54,00	58,00	50	20	-	0,567	0,378	53,32 €	53,32 €
YG2-28	28	56,00	60,00	50	20	-	0,600	0,411	54,49 €	54,49 €
YG2-29	29	58,00	62,00	50	20	-	0,635	0,445	55,92 €	55,92 €
YG2-30	30	60,00	64,00	50	20	✓	0,670	0,481	57,10 €	57,10 €
YG2-31	31	62,00	66,00	50	20	-	0,707	0,517	59,35 €	59,35 €
YG2-32	32	64,00	68,00	50	20	-	0,745	0,555	62,02 €	62,02 €
YG2-33	33	66,00	70,00	50	20	-	0,784	0,594	63,28 €	63,28 €

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) YG XG	Price each 1 to 5 YG XG
YG2-34	34	68,00	72,00	50	20	-	0,824 0,635	66,31 €
YG2-35	35	70,00	74,00	50	20	✓	0,865 0,676	68,45 €
YG2-36	36	72,00	76,00	50	20	-	0,908 0,719	72,36 €
YG2-37	37	74,00	78,00	50	20	-	0,952 0,763	73,27 €
YG2-38	38	76,00	80,00	50	20	-	0,997 0,808	75,13 €
YG2-39	39	78,00	82,00	50	20	-	1,043 0,854	76,93 €
YG2-40	40	80,00	84,00	50	20	✓	1,091 0,902	78,32 €
YG2-41	41	82,00	86,00	50	20	-	1,139 0,950	79,74 €
YG2-42	42	84,00	88,00	50	20	-	1,189 1,000	80,71 €
YG2-43	43	86,00	90,00	60	20	-	1,340 1,051	81,70 €
YG2-44	44	88,00	92,00	60	20	-	1,392 1,103	83,03 €
YG2-45	45	90,00	94,00	60	20	✓	1,445 1,157	84,26 €
YG2-46	46	92,00	96,00	60	20	-	1,500 1,212	86,20 €
YG2-47	47	94,00	98,00	60	20	-	1,556 1,268	88,15 €
YG2-48	48	96,00	100,00	60	20	✓	1,613 1,325	90,67 €
YG2-49	49	98,00	102,00	60	20	-	1,671 1,383	93,55 €
YG2-50	50	100,00	104,00	60	20	✓	1,731 1,442	97,06 €
YG2-51	51	102,00	106,00	60	20	-	1,792 1,503	99,03 €
YG2-52	52	104,00	108,00	60	20	-	1,853 1,565	100,72 €
YG2-53	53	106,00	110,00	60	20	-	1,917 1,628	101,91 €
YG2-54	54	108,00	112,00	60	20	-	1,981 1,692	103,57 €
YG2-55	55	110,00	114,00	60	20	✓	2,046 1,758	113,67 €
YG2-56	56	112,00	116,00	60	20	-	2,113 1,825	116,10 €
YG2-57	57	114,00	118,00	60	20	-	2,181 1,893	118,43 €
YG2-58	58	116,00	120,00	60	20	-	2,250 1,962	120,59 €
YG2-59	59	118,00	122,00	60	20	-	2,320 2,032	121,93 €
YG2-60	60	120,00	124,00	60	20	✓	2,392 2,104	123,77 €
YG2-62	62	124,00	128,00	75	20	-	2,721 2,250	126,66 €
YG2-64	64	128,00	132,00	75	20	-	2,873 2,402	129,77 €
YG2-65	65	130,00	134,00	75	20	-	2,950 2,479	135,89 €
YG2-66	66	132,00	136,00	75	20	-	3,029 2,558	138,18 €
YG2-68	68	136,00	140,00	75	20	-	3,190 2,719	140,33 €
YG2-70	70	140,00	144,00	75	20	-	3,356 2,885	152,33 €
YG2-71	71	142,00	146,00	75	20	-	3,441 2,970	152,33 €
YG2-72	72	144,00	148,00	75	20	-	3,527 3,055	160,99 €
YG2-73	73	146,00	150,00	75	20	-	3,614 3,143	167,43 €
YG2-74	74	148,00	152,00	75	20	-	3,702 3,231	172,20 €
YG2-75	75	150,00	154,00	75	20	-	3,792 3,321	177,92 €
YG2-76	76	152,00	156,00	75	20	-	3,882 3,411	186,66 €
YG2-78	78	156,00	160,00	100	20	-	4,462 3,596	196,37 €
YG2-80	80	160,00	164,00	100	20	-	4,652 3,786	215,45 €
YG2-86	86	172,00	176,00	100	20	-	5,250 4,385	231,79 €
YG2-90	90	180,00	184,00	100	20	-	5,673 4,808	257,19 €
YG2-96	96	192,00	196,00	100	20	-	6,344 5,479	275,33 €
YG2-98	98	196,00	200,00	100	20	-	6,577 5,712	275,33 €
YG2-100	100	200,00	204,00	100	20	-	6,815 5,950	319,74 €
YG2-105	105	210,00	214,00	100	20	-	7,431 6,566	331,59 €
YG2-110	110	220,00	224,00	100	20	-	8,077 7,212	354,33 €
YG2-115	115	230,00	234,00	100	20	-	8,754 7,888	378,94 €
YG2-120	120	240,00	244,00	100	20	-	9,460 8,594	411,81 €



Gears available up to this size



YG2-290 290 580,00 584,00

Dimensions: contact us

On request

*Depending on availability - Dimensions in mm

Plastic spur gear



MODULE

2.0



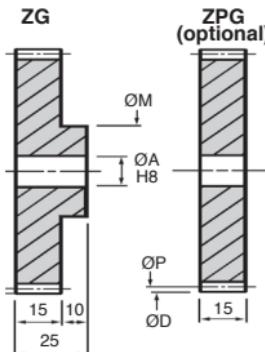
- Machined parts

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

Torque indication

For 50 teeth at 1000 rpm

	Delrin
Nm	6



in STOCK*

otherwise contact us

DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØM	Stock*	Weight (kg) ZG	Weight (kg) ZPG	Price each 1 to 5 ZG	Price each 1 to 5 ZPG
ZG2-9	9	20,00	24,00	24	10	✓	0,009	0,005	12,91 €	
ZG2-10	10	22,00	26,00	24	10	-	0,011	0,006	12,91 €	
ZG2-11	11	24,00	28,00	24	10	-	0,012	0,007	12,91 €	
ZG2-12	12	24,00	28,00	24	10	✓	0,012	0,007	12,91 €	
ZG2-13	13	26,00	30,00	24	10	-	0,014	0,009	13,64 €	
ZG2-14	14	28,00	32,00	24	10	✓	0,015	0,010	14,40 €	
ZG2-15	15	30,00	34,00	25	12	✓	0,016	0,011	15,21 €	
ZG2-16	16	32,00	36,00	27	12	✓	0,019	0,013	16,36 €	
ZG2-17	17	34,00	38,00	30	12	-	0,023	0,015	16,90 €	
ZG2-18	18	36,00	40,00	30	12	✓	0,025	0,017	17,66 €	
ZG2-19	19	38,00	42,00	30	12	✓	0,027	0,020	18,29 €	
ZG2-20	20	40,00	44,00	30	12	✓	0,030	0,022	18,81 €	
ZG2-21	21	42,00	46,00	30	12	✓	0,032	0,025	22,51 €	
ZG2-22	22	44,00	48,00	35	12	✓	0,038	0,027	22,90 €	
ZG2-23	23	46,00	50,00	35	12	-	0,041	0,030	23,39 €	
ZG2-24	24	48,00	52,00	35	12	✓	0,044	0,033	23,87 €	
ZG2-25	25	50,00	54,00	35	12	✓	0,047	0,036	30,29 €	
ZG2-26	26	52,00	56,00	35	12	-	0,050	0,039	31,22 €	
ZG2-27	27	54,00	58,00	35	12	✓	0,053	0,042	32,38 €	
ZG2-28	28	56,00	60,00	35	12	-	0,056	0,045	33,07 €	
ZG2-29	29	58,00	62,00	35	12	-	0,060	0,049	33,89 €	
ZG2-30	30	60,00	64,00	35	12	✓	0,063	0,052	39,27 €	
ZG2-31	31	62,00	66,00	35	12	-	0,067	0,056	40,78 €	
ZG2-32	32	64,00	68,00	35	12	-	0,071	0,060	42,70 €	
ZG2-33	33	66,00	70,00	35	12	✓	0,075	0,064	43,48 €	

*Depending on availability - Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Weight (kg) ZG	ZPG	Price each 1 to 5 ZG	ZPG
ZG2-34	34	68,00	72,00	35	12	✓	0,079	0,068	45,62	€
ZG2-35	35	70,00	74,00	35	12	✓	0,083	0,072	47,07	€
ZG2-36	36	72,00	76,00	45	15	✓	0,093	0,075	49,72	€
ZG2-37	37	74,00	78,00	45	15	-	0,098	0,080	53,39	€
ZG2-38	38	76,00	80,00	45	15	✓	0,102	0,084	54,73	€
ZG2-39	39	78,00	82,00	45	15	✓	0,107	0,089	55,96	€
ZG2-40	40	80,00	84,00	45	15	✓	0,112	0,094	57,04	€
ZG2-41	41	82,00	86,00	45	15	-	0,117	0,098	58,15	€
ZG2-42	42	84,00	88,00	45	15	-	0,122	0,103	58,77	€
ZG2-43	43	86,00	90,00	45	15	-	0,127	0,109	59,52	€
ZG2-44	44	88,00	92,00	45	15	-	0,132	0,114	67,14	€
ZG2-45	45	90,00	94,00	45	15	✓	0,137	0,119	68,23	€
ZG2-46	46	92,00	96,00	45	15	-	0,143	0,125	69,69	€
ZG2-47	47	94,00	98,00	45	15	-	0,149	0,130	71,41	€
ZG2-48	48	96,00	100,00	45	15	✓	0,154	0,136	71,66	€
ZG2-49	49	98,00	102,00	45	15	-	0,160	0,142	73,92	€
ZG2-50	50	100,00	104,00	45	15	✓	0,166	0,148	76,81	€
ZG2-51	51	102,00	106,00	45	15	-	0,172	0,154	78,35	€
ZG2-52	52	104,00	108,00	45	15	-	0,179	0,160	79,64	€
ZG2-53	53	106,00	110,00	45	15	-	0,185	0,167	80,53	€
ZG2-54	54	108,00	112,00	45	15	✓	0,191	0,173	81,89	€
ZG2-55	55	110,00	114,00	45	15	-	0,198	0,180	84,92	€
ZG2-56	56	112,00	116,00	45	15	-	0,205	0,187	91,89	€
ZG2-57	57	114,00	118,00	45	15	✓	0,212	0,193	93,64	€
ZG2-58	58	116,00	120,00	45	15	-	0,219	0,200	104,15	€
ZG2-59	59	118,00	122,00	60	15	-	0,242	0,208	104,51	€
ZG2-60	60	120,00	124,00	60	15	✓	0,249	0,215	104,51	€
ZG2-62	62	124,00	128,00	60	15	-	0,264	0,230	104,51	€
ZG2-64	64	128,00	132,00	60	15	-	0,279	0,245	111,92	€
ZG2-65	65	130,00	134,00	60	15	-	0,287	0,253	117,23	€
ZG2-66	66	132,00	136,00	60	15	✓	0,295	0,261	119,27	€
ZG2-68	68	136,00	140,00	60	15	-	0,311	0,277	124,12	€
ZG2-70	70	140,00	144,00	60	15	✓	0,328	0,294	134,45	€
ZG2-71	71	142,00	146,00	60	15	-	0,336	0,302	142,01	€
ZG2-72	72	144,00	148,00	60	15	✓	0,345	0,311	150,64	€
ZG2-73	73	146,00	150,00	60	15	-	0,354	0,320	152,86	€
ZG2-74	74	148,00	152,00	60	15	-	0,363	0,328	152,86	€
ZG2-75	75	150,00	154,00	60	15	✓	0,372	0,337	152,86	€
ZG2-76	76	152,00	156,00	60	15	-	0,381	0,347	174,60	€
ZG2-78	78	156,00	160,00	60	15	-	0,399	0,365	185,53	€
ZG2-80	80	160,00	164,00	60	15	-	0,419	0,384	185,53	€
ZG2-86	86	172,00	176,00	60	15	-	0,479	0,445	215,59	€
ZG2-90	90	180,00	184,00	60	15	-	0,522	0,487	267,87	€
ZG2-96	96	192,00	196,00	60	15	-	0,589	0,555	267,87	€



Gears available up to this size



ZG2-290 290 580,00 584,00

Dimensions: contact us

On request

*Depending on availability - Dimensions in mm

Moulded plastic spur gear

Nyl  €  Stock

MODULE

Nylon 6 moulded

2.0



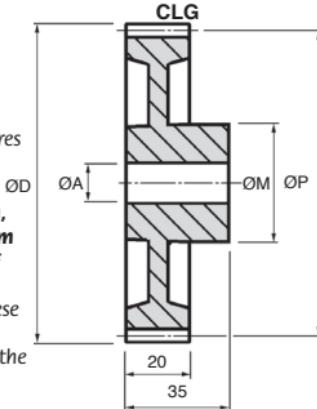
Economy range

- Moulded parts

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

Options

- Alternative number of teeth, a datasheet is available from www.hpc-europe.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+	50+	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
CLG2-12	12	28	24	18	8	✓	4,23 €
CLG2-15	15	35	30	22	8	✓	4,23 €
CLG2-16	16	36	32	25	8	✓	5,49 €
CLG2-20	20	44	40	30	10	✓	5,49 €
CLG2-24	24	52	48	35	10	✓	7,54 €
CLG2-25	25	54	50	35	10	✓	7,54 €
CLG2-26	26	56	52	40	14	-	on request
CLG2-30	30	64	60	40	14	✓	9,59 €
CLG2-32	32	68	64	45	16	✓	11,42 €
CLG2-34	34	72	68	45	16	-	on request
CLG2-35	35	74	70	45	16	-	on request
CLG2-36	36	76	72	50	16	✓	13,65 €
CLG2-40	40	84	80	50	16	✓	13,65 €
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	✓	17,75 €
CLG2-60	60	124	120	60	20	✓	22,76 €
CLG2-65	65	134	130	60	20	✓	25,19 €
CLG2-70	70	144	140	60	20	✓	25,19 €
CLG2-72	72	148	144	60	20	-	on request
CLG2-75	75	154	150	60	20	-	on request
CLG2-78	78	160	156	60	25	-	On request

Gears available up to this size

*Depending on availability - Dimensions in mm

Stainless steel 303

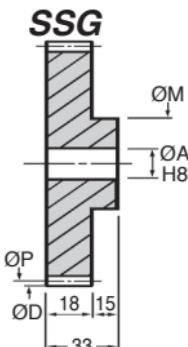
MODULE

2.0

- Quality standard 9

- Pressure angle 20°

Torque and power indication			
For 50 teeth at 1000 rpm			
Nm	StS 303	brass	fibre
kW			



stainless steel

DISCOUNTS

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

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Stock*	Price each 1 to 5
SSG2-12-303	12	24	28	28	12	-	30,52 €
SSG2-15-303	15	30	34	25	15	-	26,45 €
SSG2-16-303	16	32	36	25	15	-	28,17 €
SSG2-18-303	18	36	40	30	15	-	31,93 €
SSG2-20-303	20	40	44	30	15	-	34,13 €
SSG2-22-303	22	44	48	35	15	-	38,47 €
SSG2-24-303	24	48	52	35	15	-	42,31 €
SSG2-30-303	30	60	64	40	20	-	55,22 €
SSG2-32-303	32	64	68	40	20	-	57,03 €
SSG2-36-303	36	72	76	50	20	-	66,32 €
SSG2-40-303	40	80	84	50	20	-	106,26 €
SSG2-44-303	44	88	92	60	20	-	146,04 €
SSG2-46-303	46	92	96	50	20	-	146,04 €
SSG2-48-303	48	96	100	50	20	-	146,04 €
SSG2-50-303	50	100	104	50	20	-	167,51 €
SSG2-54-303	54	108	112	50	20	-	167,37 €
SSG2-56-303	56	112	116	50	20	-	191,14 €
SSG2-60-303	60	120	124	50	20	-	191,14 €
SSG2-64-303	64	128	132	50	20	-	217,38 €
SSG2-66-303	66	132	136	50	20	-	231,51 €
SSG2-70-303	70	140	144	50	20	-	240,97 €

↓ Gears available up to this size ↓

SSG2-290-303	290	580	584	Dimensions: contact us	On request
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*Depending on availability - Dimensions in mm

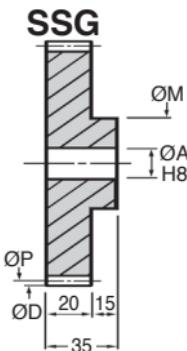
MODULE

2.0



- Quality standard 9
- Pressure angle 20°

Torque and power indication For 50 teeth at 1000 rpm			
	SIS 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	38,19 €
SSG2-15-304L	15	30	34	25	15	33,07 €
SSG2-16-304L	16	32	36	25	15	35,21 €
SSG2-18-304L	18	36	40	30	15	39,95 €
SSG2-20-304L	20	40	44	30	15	42,69 €
SSG2-22-304L	22	44	48	35	15	48,00 €
SSG2-24-304L	24	48	52	35	15	52,85 €
SSG2-30-304L	30	60	64	40	20	68,90 €
SSG2-32-304L	32	64	68	40	20	71,18 €
SSG2-36-304L	36	72	76	50	20	82,73 €
SSG2-40-304L	40	80	84	50	20	132,83 €
SSG2-44-304L	44	88	92	60	20	182,55 €
SSG2-46-304L	46	92	96	50	20	182,55 €
SSG2-48-304L	48	96	100	50	20	182,55 €
SSG2-50-304L	50	100	104	50	20	209,40 €
SSG2-54-304L	54	108	112	50	20	209,40 €
SSG2-56-304L	56	112	116	50	20	238,93 €
SSG2-60-304L	60	120	124	50	20	238,93 €
SSG2-64-304L	64	128	132	50	20	271,72 €
SSG2-66-304L	66	132	136	50	20	288,55 €
SSG2-70-304L	70	140	144	50	20	300,31 €



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

Stainless steel 316L

MODULE

2.0



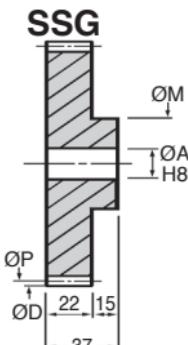
- Quality standard 9

- Pressure angle 20°

Torque and power indication

For 50 teeth at 1000 rpm

	StS 316L	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
SSG2-12-316L	12	24	28	28	12	57,25 €
SSG2-15-316L	15	30	34	25	15	49,62 €
SSG2-16-316L	16	32	36	25	15	52,82 €
SSG2-18-316L	18	36	40	30	15	59,88 €
SSG2-20-316L	20	40	44	30	15	64,00 €
SSG2-22-316L	22	44	48	35	15	72,15 €
SSG2-24-316L	24	48	52	35	15	79,37 €
SSG2-30-316L	30	60	64	40	20	103,55 €
SSG2-32-316L	32	64	68	40	20	106,94 €
SSG2-36-316L	36	72	76	50	20	124,36 €
SSG2-40-316L	40	80	84	50	20	199,24 €
SSG2-44-316L	44	88	92	60	20	273,83 €
SSG2-46-316L	46	92	96	50	20	273,83 €
SSG2-48-316L	48	96	100	50	20	273,83 €
SSG2-50-316L	50	100	104	50	20	314,10 €
SSG2-54-316L	54	108	112	50	20	314,10 €
SSG2-56-316L	56	112	116	50	20	358,40 €
SSG2-60-316L	60	120	124	50	20	358,40 €
SSG2-64-316L	64	128	132	50	20	407,60 €
SSG2-66-316L	66	132	136	50	20	434,10 €
SSG2-70-316L	70	140	144	50	20	451,83 €



Gears available up to this size



SSG2-290-316L 290 580 584 Dimensions: contact us On request

*Depending on availability - Dimensions in mm

Steel spur gear



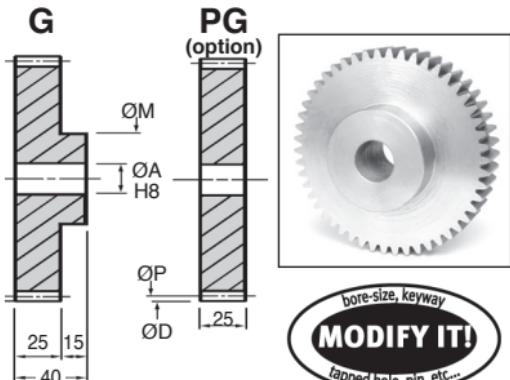
MODULE

2.5



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

Steel 34C10



Torque and power indication
For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 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	35,62	€
G2.5-10	10	27,50	32,50	20	12	0,115	0,092	35,62	€
G2.5-11	11	30,00	35,00	20	12	0,137	0,114	35,62	€
G2.5-12	12	30,00	35,00	22	15	0,125	0,101	35,62	€
G2.5-13	13	32,50	37,50	22	15	0,148	0,125	36,47	€
G2.5-14	14	35,00	40,00	25	15	0,186	0,150	38,16	€
G2.5-15	15	37,50	42,50	30	15	0,238	0,177	40,56	€
G2.5-16	16	40,00	45,00	30	15	0,267	0,207	42,93	€
G2.5-17	17	42,50	47,50	30	15	0,298	0,238	43,80	€
G2.5-18	18	45,00	50,00	30	15	0,331	0,270	45,40	€
G2.5-19	19	47,50	52,50	30	15	0,366	0,305	46,60	€
G2.5-20	20	50,00	55,00	40	20	0,424	0,316	48,29	€
G2.5-21	21	52,50	57,50	40	20	0,462	0,354	49,48	€
G2.5-22	22	55,00	60,00	40	20	0,503	0,394	51,24	€
G2.5-23	23	57,50	62,50	40	20	0,545	0,437	52,50	€
G2.5-24	24	60,00	65,00	40	20	0,589	0,481	54,12	€
G2.5-25	25	62,50	67,50	40	20	0,635	0,527	56,98	€
G2.5-26	26	65,00	70,00	45	20	0,721	0,575	59,88	€
G2.5-27	27	67,50	72,50	45	20	0,771	0,624	61,13	€
G2.5-28	28	70,00	75,00	45	20	0,823	0,676	62,76	€
G2.5-29	29	72,50	77,50	45	20	0,876	0,730	64,80	€
G2.5-30	30	75,00	80,00	45	20	0,932	0,785	67,00	€
G2.5-31	31	77,50	82,50	45	20	0,989	0,842	68,73	€
G2.5-32	32	80,00	85,00	45	20	1,048	0,902	71,09	€
G2.5-33	33	82,50	87,50	45	20	1,109	0,963	71,93	€

Dimensions in mm

On request

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
G2.5-34	34	85,00	90,00	45	20	1,172	1,025	73,65	€
G2.5-35	35	87,50	92,50	45	20	1,237	1,090	75,29	€
G2.5-36	36	90,00	95,00	45	20	1,303	1,157	79,37	€
G2.5-37	37	92,50	97,50	45	20	1,372	1,225	80,48	€
G2.5-38	38	95,00	100,00	45	20	1,442	1,296	82,78	€
G2.5-39	39	97,50	102,50	45	20	1,515	1,368	83,94	€
G2.5-40	40	100,00	105,00	50	20	1,632	1,442	85,99	€
G2.5-41	41	102,50	107,50	50	20	1,708	1,518	88,09	€
G2.5-42	42	105,00	110,00	50	20	1,786	1,596	89,43	€
G2.5-43	43	107,50	112,50	50	20	1,866	1,676	90,36	€
G2.5-44	44	110,00	115,00	50	20	1,964	1,774	91,45	€
G2.5-45	45	112,50	117,50	50	20	2,031	1,842	92,66	€
G2.5-46	46	115,00	120,00	50	20	2,116	1,927	94,81	€
G2.5-47	47	117,50	122,50	50	20	2,204	2,014	96,60	€
G2.5-48	48	120,00	125,00	50	20	2,293	2,104	99,24	€
G2.5-49	49	122,50	127,50	50	20	2,384	2,195	101,93	€
G2.5-50	50	125,00	130,00	50	20	2,477	2,288	104,73	€
G2.5-51	51	127,50	132,50	50	20	2,572	2,382	105,53	€
G2.5-52	52	130,00	135,00	50	20	2,668	2,479	107,27	€
G2.5-53	53	132,50	137,50	50	20	2,767	2,578	108,15	€
G2.5-54	54	135,00	140,00	50	20	2,868	2,678	109,24	€
G2.5-55	55	137,50	142,50	50	20	2,970	2,781	119,87	€
G2.5-56	56	140,00	145,00	50	20	3,074	2,885	121,94	€
G2.5-57	57	142,50	147,50	50	20	3,180	2,991	124,18	€
G2.5-58	58	145,00	150,00	50	20	3,288	3,099	126,02	€
G2.5-59	59	147,50	152,50	50	20	3,398	3,209	127,85	€
G2.5-60	60	150,00	155,00	50	20	3,510	3,321	129,98	€
G2.5-62	62	155,00	160,00	50	20	3,739	3,550	147,09	€
G2.5-64	64	160,00	165,00	50	20	3,976	3,786	166,09	€
G2.5-65	65	162,50	167,50	50	20	4,097	3,907	177,97	€
G2.5-66	66	165,00	170,00	50	20	4,220	4,030	195,71	€
G2.5-68	68	170,00	175,00	50	20	4,471	4,282	204,32	€
G2.5-70	70	175,00	180,00	50	20	4,731	4,541	216,67	€
G2.5-71	71	177,50	182,50	100	25	5,485	4,640	229,94	€
G2.5-72	72	180,00	185,00	100	25	5,619	4,774	243,92	€
G2.5-73	73	182,50	187,50	100	25	5,756	4,910	252,90	€
G2.5-74	74	185,00	190,00	100	25	5,894	5,048	262,87	€
G2.5-75	75	187,50	192,50	100	25	6,033	5,188	272,95	€
G2.5-76	76	190,00	195,00	100	25	6,175	5,330	281,37	€
G2.5-78	78	195,00	200,00	100	25	6,465	5,619	288,11	€
G2.5-80	80	200,00	205,00	100	25	6,761	5,916	293,22	€
G2.5-86	86	215,00	220,00	100	25	7,697	6,851	298,86	€
G2.5-90	90	225,00	230,00	100	25	8,358	7,513	326,85	€
G2.5-96	96	240,00	245,00	100	25	9,406	8,560	351,90	€
G2.5-98	98	245,00	250,00	100	25	9,770	8,925	372,10	€
G2.5-100	100	250,00	255,00	100	25	10,142	9,297	417,53	€
G2.5-105	105	262,50	267,50	100	25	11,104	10,259	452,94	€
G2.5-110	110	275,00	280,00	100	25	12,114	11,269	480,76	€
G2.5-115	115	287,50	292,50	100	25	13,170	12,325	523,72	€



Gears available up to this size



G2.5-235 235 587,50 592,50 Dimensions: contact us

On request

Dimensions in mm

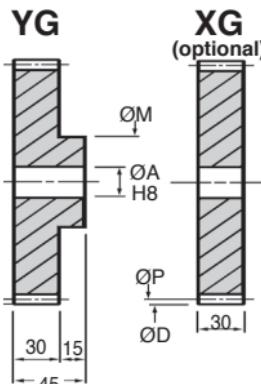
MODULE**2.5**

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

Options

- Material 20NCD2 case-hardened

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	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG2.5-9	9	25,00	30,00	30,00	12	0,155	0,087	47,61 €	
YG2.5-10	10	27,50	32,50	32,50	12	0,193	0,110	47,61 €	
YG2.5-11	11	30,00	35,00	35,00	12	0,234	0,136	47,61 €	
YG2.5-12	12	30,00	35,00	35,00	15	0,212	0,122	47,61 €	
YG2.5-13	13	32,50	37,50	35,00	15	0,240	0,150	48,62 €	
YG2.5-14	14	35,00	40,00	35,00	15	0,270	0,180	50,84 €	
YG2.5-15	15	37,50	42,50	35,00	15	0,303	0,213	54,14 €	
YG2.5-16	16	40,00	45,00	35,00	15	0,338	0,248	57,28 €	
YG2.5-17	17	42,50	47,50	35,00	15	0,375	0,285	58,45 €	
YG2.5-18	18	45,00	50,00	35,00	15	0,415	0,325	60,57 €	
YG2.5-19	19	47,50	52,50	35,00	15	0,456	0,366	62,22 €	
YG2.5-20	20	50,00	55,00	45,00	20	0,525	0,379	64,39 €	
YG2.5-21	21	52,50	57,50	45,00	20	0,571	0,425	66,02 €	
YG2.5-22	22	55,00	60,00	45,00	20	0,620	0,473	68,29 €	
YG2.5-23	23	57,50	62,50	45,00	20	0,670	0,524	70,01 €	
YG2.5-24	24	60,00	65,00	45,00	20	0,723	0,577	72,17 €	
YG2.5-25	25	62,50	67,50	45,00	20	0,779	0,632	76,02 €	
YG2.5-26	26	65,00	70,00	45,00	20	0,836	0,690	79,86 €	
YG2.5-27	27	67,50	72,50	45,00	20	0,896	0,749	81,54 €	
YG2.5-28	28	70,00	75,00	45,00	20	0,958	0,811	84,30 €	
YG2.5-29	29	72,50	77,50	60,00	20	1,164	0,876	86,40 €	
YG2.5-30	30	75,00	80,00	60,00	20	1,231	0,942	89,36 €	
YG2.5-31	31	77,50	82,50	60,00	20	1,299	1,011	91,63 €	
YG2.5-32	32	80,00	85,00	60,00	20	1,370	1,082	94,82 €	
YG2.5-33	33	82,50	87,50	60,00	20	1,444	1,155	95,90 €	

Dimensions in mm

On request

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
YG2.5-34	34	85,00	90,00	60,00	20	1,519 1,231	98,23 €
YG2.5-35	35	87,50	92,50	60,00	20	1,597 1,308	100,37 €
YG2.5-36	36	90,00	95,00	60,00	20	1,677 1,388	105,87 €
YG2.5-37	37	92,50	97,50	60,00	20	1,759 1,471	107,41 €
YG2.5-38	38	95,00	100,00	60,00	20	1,844 1,555	110,41 €
YG2.5-39	39	97,50	102,50	60,00	20	1,930 1,642	111,98 €
YG2.5-40	40	100,00	105,00	75,00	20	2,202 1,731	128,91 €
YG2.5-41	41	102,50	107,50	75,00	20	2,293 1,822	117,47 €
YG2.5-42	42	105,00	110,00	75,00	20	2,387 1,916	119,31 €
YG2.5-43	43	107,50	112,50	75,00	20	2,483 2,011	120,53 €
YG2.5-44	44	110,50	115,00	75,00	20	2,600 2,129	122,00 €
YG2.5-45	45	112,50	117,50	75,00	20	2,681 2,210	123,57 €
YG2.5-46	46	115,00	120,00	75,00	20	2,783 2,312	126,39 €
YG2.5-47	47	117,50	122,50	75,00	20	2,888 2,417	128,84 €
YG2.5-48	48	120,00	125,00	75,00	20	2,995 2,524	132,35 €
YG2.5-49	49	122,50	127,50	75,00	20	3,105 2,634	135,91 €
YG2.5-50	50	125,00	130,00	75,00	20	3,216 2,745	139,68 €
YG2.5-51	51	127,50	132,50	75,00	20	3,330 2,859	140,81 €
YG2.5-52	52	130,00	135,00	75,00	20	3,446 2,975	142,69 €
YG2.5-53	53	132,50	137,50	75,00	20	3,564 3,093	144,22 €
YG2.5-54	54	135,00	140,00	75,00	20	3,685 3,214	145,73 €
YG2.5-55	55	137,50	142,50	75,00	20	3,808 3,337	168,89 €
YG2.5-56	56	140,00	145,00	75,00	20	3,933 3,462	168,89 €
YG2.5-57	57	142,50	147,50	75,00	20	4,060 3,589	168,89 €
YG2.5-58	58	145,00	150,00	75,00	20	4,190 3,719	168,89 €
YG2.5-59	59	147,50	152,50	75,00	20	4,322 3,851	170,46 €
YG2.5-60	60	150,00	155,00	100,00	20	4,850 3,985	173,27 €
YG2.5-62	62	155,00	160,00	100,00	20	5,125 4,260	196,21 €
YG2.5-64	64	160,00	165,00	100,00	20	5,409 4,544	221,50 €
YG2.5-65	65	162,50	167,50	100,00	20	5,554 4,689	237,39 €
YG2.5-66	66	165,00	170,00	100,00	20	5,702 4,837	261,00 €
YG2.5-68	68	170,00	175,00	100,00	20	6,004 5,139	272,46 €
YG2.5-70	70	175,00	180,00	100,00	20	6,315 5,450	288,94 €
YG2.5-71	71	177,50	182,50	100,00	20	6,474 5,608	306,63 €
YG2.5-72	72	180,00	185,00	100,00	20	6,635 5,770	325,27 €
YG2.5-73	73	182,50	187,50	100,00	20	6,798 5,933	337,19 €
YG2.5-74	74	185,00	190,00	100,00	20	6,964 6,099	350,56 €
YG2.5-75	75	187,50	192,50	100,00	20	7,132 6,267	363,92 €
YG2.5-76	76	190,00	195,00	100,00	20	7,302 6,437	377,33 €
YG2.5-78	78	195,00	200,00	127,00	25	8,141 6,743	384,17 €
YG2.5-80	80	200,00	205,00	127,00	25	8,497 7,099	390,99 €
YG2.5-86	86	215,00	220,00	127,00	25	9,619 8,222	398,50 €
YG2.5-90	90	225,00	230,00	127,00	25	10,413 9,015	435,82 €
YG2.5-96	96	240,00	245,00	127,00	25	11,670 10,273	469,25 €
YG2.5-98	98	245,00	250,00	127,00	25	12,108 10,710	496,17 €
YG2.5-100	100	250,00	255,00	127,00	25	12,554 11,156	556,84 €
YG2.5-105	105	262,50	267,50	127,00	25	13,709 12,311	603,98 €
YG2.5-110	110	275,00	280,00	127,00	25	14,920 13,523	641,09 €
YG2.5-115	115	287,50	292,50	127,00	25	16,188 14,790	698,38 €



Gears available up to this size



YG2.5-235 235 587,50 592,50 Dimensions: contact us

On request

Dimensions in mm

Plastic spur gear



MODULE

2.5



- Machined parts

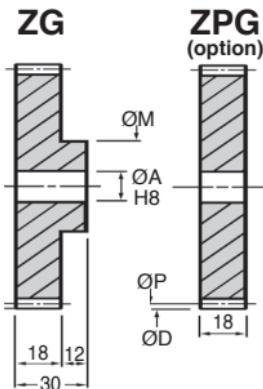
- Precision class 9

- Pressure angle 20°

- Working temp. -50°C to +80°C

Torque indication	
For 50 teeth at 1000 rpm	
Delrin	
Nm	11

Machined Delrin



DISCOUNTS

Qty.	1+	6+	30+
Disc.	-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
ZG2.5-9	9	25,00	30,00	30	10	0,019	0,010	15,51 €	
ZG2.5-10	10	27,50	32,50	30	10	0,022	0,012	15,81 €	
ZG2.5-11	11	30,00	35,00	30	10	0,024	0,015	16,15 €	
ZG2.5-12	12	30,00	35,00	30	12	0,023	0,014	16,48 €	
ZG2.5-13	13	32,50	37,50	30	12	0,026	0,017	16,75 €	
ZG2.5-14	14	35,00	40,00	30	12	0,029	0,020	16,91 €	
ZG2.5-15	15	37,50	42,50	30	12	0,032	0,023	17,06 €	
ZG2.5-16	16	40,00	45,00	30	12	0,036	0,026	17,59 €	
ZG2.5-17	17	42,50	47,50	30	12	0,039	0,030	20,61 €	
ZG2.5-18	18	45,00	50,00	36	12	0,048	0,034	21,06 €	
ZG2.5-19	19	47,50	52,50	36	12	0,052	0,038	21,75 €	
ZG2.5-20	20	50,00	55,00	36	12	0,057	0,043	22,33 €	
ZG2.5-21	21	52,50	57,50	36	12	0,061	0,047	26,32 €	
ZG2.5-22	22	55,00	60,00	36	12	0,066	0,052	26,95 €	
ZG2.5-23	23	57,50	62,50	36	12	0,071	0,057	29,27 €	
ZG2.5-24	24	60,00	65,00	36	12	0,077	0,063	31,97 €	
ZG2.5-25	25	62,50	67,50	36	12	0,082	0,068	35,50 €	
ZG2.5-26	26	65,00	70,00	36	12	0,088	0,074	37,35 €	
ZG2.5-27	27	67,50	72,50	36	12	0,094	0,080	39,23 €	
ZG2.5-28	28	70,00	75,00	45	15	0,107	0,085	40,05 €	
ZG2.5-29	29	72,50	77,50	45	15	0,113	0,091	41,11 €	
ZG2.5-30	30	75,00	80,00	45	15	0,120	0,098	42,45 €	

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) ZG ZPG	Price each 1 to 5 ZG ZPG
ZG2.5-31	31	77,50	82,50	45	15	0,127 0,105	49,72 €
ZG2.5-32	32	80,00	85,00	45	15	0,134 0,112	51,03 €
ZG2.5-33	33	82,50	87,50	45	15	0,141 0,120	52,78 €
ZG2.5-34	34	85,00	90,00	45	15	0,149 0,127	53,47 €
ZG2.5-35	35	87,50	92,50	45	15	0,157 0,135	54,64 €
ZG2.5-36	36	90,00	95,00	50	17	0,169 0,142	62,45 €
ZG2.5-37	37	92,50	97,50	50	17	0,177 0,150	63,31 €
ZG2.5-38	38	95,00	100,00	50	17	0,186 0,159	72,16 €
ZG2.5-39	39	97,50	102,50	50	17	0,194 0,168	73,40 €
ZG2.5-40	40	100,00	105,00	50	17	0,203 0,177	75,18 €
ZG2.5-41	41	102,50	107,50	50	17	0,213 0,186	77,03 €
ZG2.5-42	42	105,00	110,00	50	17	0,222 0,195	78,21 €
ZG2.5-43	43	107,50	112,50	50	17	0,232 0,205	79,02 €
ZG2.5-44	44	110,50	115,00	50	17	0,244 0,217	79,91 €
ZG2.5-45	45	112,50	117,50	50	17	0,252 0,225	81,19 €
ZG2.5-46	46	115,00	120,00	50	17	0,262 0,235	91,14 €
ZG2.5-47	47	117,50	122,50	50	17	0,273 0,246	92,95 €
ZG2.5-48	48	120,00	125,00	50	17	0,283 0,257	95,44 €
ZG2.5-49	49	122,50	127,50	50	17	0,294 0,268	98,01 €
ZG2.5-50	50	125,00	130,00	50	17	0,306 0,279	100,65 €
ZG2.5-51	51	127,50	132,50	50	17	0,317 0,290	101,58 €
ZG2.5-52	52	130,00	135,00	50	17	0,329 0,302	102,95 €
ZG2.5-53	53	132,50	137,50	50	17	0,341 0,314	103,99 €
ZG2.5-54	54	135,00	140,00	50	17	0,353 0,326	114,69 €
ZG2.5-55	55	137,50	142,50	50	17	0,365 0,338	119,18 €
ZG2.5-56	56	140,00	145,00	50	17	0,378 0,351	127,93 €
ZG2.5-57	57	142,50	147,50	65	20	0,408 0,362	130,40 €
ZG2.5-58	58	145,00	150,00	65	20	0,421 0,375	132,43 €
ZG2.5-59	59	147,50	152,50	65	20	0,435 0,388	134,15 €
ZG2.5-60	60	150,00	155,00	65	20	0,448 0,402	136,42 €
ZG2.5-62	62	155,00	160,00	65	20	0,476 0,430	154,38 €
ZG2.5-64	64	160,00	165,00	65	20	0,504 0,458	188,83 €
ZG2.5-65	65	162,50	167,50	65	20	0,519 0,473	202,36 €
ZG2.5-66	66	165,00	170,00	65	20	0,534 0,488	222,55 €
ZG2.5-68	68	170,00	175,00	65	20	0,564 0,518	232,36 €
ZG2.5-70	70	175,00	180,00	65	20	0,596 0,549	218,50 €
ZG2.5-71	71	177,50	182,50	65	20	0,612 0,566	261,44 €
ZG2.5-72	72	180,00	185,00	65	20	0,628 0,582	277,27 €
ZG2.5-73	73	182,50	187,50	65	20	0,645 0,598	287,55 €
ZG2.5-74	74	185,00	190,00	65	20	0,661 0,615	294,34 €
ZG2.5-75	75	187,50	192,50	65	20	0,678 0,632	275,36 €
ZG2.5-76	76	190,00	195,00	65	20	0,695 0,649	285,51 €
ZG2.5-78	78	195,00	200,00	65	20	0,730 0,684	311,07 €
ZG2.5-80	80	200,00	205,00	65	20	0,766 0,720	493,18 €



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

Nyl  €  Stock

Nylon 6 moulded

MODULE

2.5

- **Moulded parts**

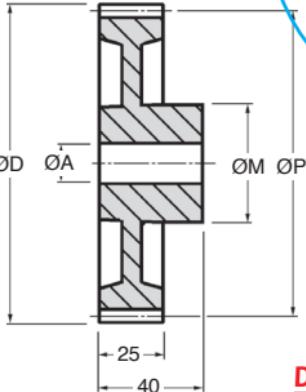
- Pressure angle 20°

- Material: Nylon 6

Reinforced with 30% glass fibres

A: Pre-bored hole
must be finished

CLG



Options

- Alternative number of teeth, a datasheet is available from www.hpc-europe.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.

Economy range

DISCOUNTS

Qty.	1+	10+	50+	100+	1000+	Stock
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
CLG2.5-12	12	35,00	30,00	22	8	✓	5,85 €
CLG2.5-14	14	40,00	35,00	22	8	-	on request
CLG2.5-15	15	42,50	37,50	30	10	✓	5,85 €
CLG2.5-16	16	45,00	40,00	30	10	✓	8,48 €
CLG2.5-18	18	50,00	45,00	35	10	✓	8,48 €
CLG2.5-20	20	55,00	50,00	35	10	✓	8,48 €
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	✓	11,63 €
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	-	14,75 €
CLG2.5-32	32	85,00	80,00	50	16	-	on request
CLG2.5-35	35	92,50	87,50	50	16	-	17,57 €
CLG2.5-40	40	105,00	100,00	60	20	-	on request
CLG2.5-45	45	117,50	112,50	60	20	-	26,29 €
CLG2.5-50	50	130,00	125,00	60	20	✓	29,09 €
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

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*Products less than 1m in length only (France mainland)

Steel spur gear



MODULE

3.0



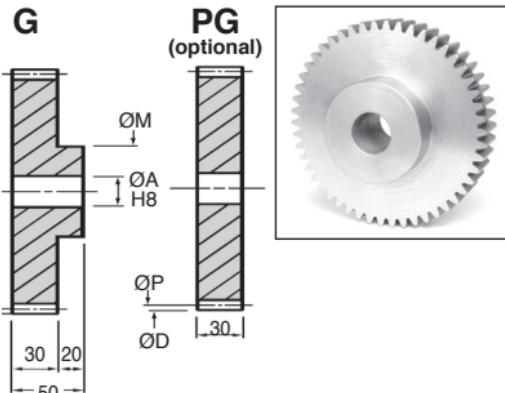
- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Steel 34C10

Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm	88	421	44	35
kW	8.95	44.01	4.66	3.73



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	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
G3-9	9	30,00	36,00	28	15	0,189	0,122	24,03 €	
G3-10	10	33,00	39,00	28	15	0,223	0,156	24,03 €	
G3-11	11	36,00	42,00	28	15	0,260	0,193	24,03 €	
G3-12	12	36,00	42,00	28	20	0,208	0,162	24,03 €	
G3-13	13	39,00	45,00	28	20	0,248	0,202	24,88 €	
G3-14	14	42,00	48,00	30	20	0,306	0,246	25,97 €	
G3-15	15	45,00	51,00	30	20	0,353	0,293	26,76 €	
G3-16	16	48,00	54,00	40	20	0,488	0,343	28,44 €	
G3-17	17	51,00	57,00	40	20	0,541	0,397	30,03 €	
G3-18	18	54,00	60,00	40	20	0,598	0,454	31,58 €	
G3-19	19	57,00	63,00	40	20	0,658	0,514	32,85 €	
G3-20	20	60,00	66,00	50	25	0,762	0,536	33,86 €	
G3-21	21	63,00	69,00	50	25	0,828	0,603	35,00 €	
G3-22	22	66,00	72,00	50	25	0,898	0,673	36,19 €	
G3-23	23	69,00	75,00	50	25	0,971	0,746	37,32 €	
G3-24	24	72,00	78,00	50	25	1,047	0,822	38,44 €	
G3-25	25	75,00	81,00	50	25	1,127	0,902	40,74 €	
G3-26	26	78,00	84,00	50	25	1,210	0,984	43,03 €	
G3-27	27	81,00	87,00	50	25	1,296	1,070	44,07 €	
G3-28	28	84,00	90,00	50	25	1,385	1,160	45,34 €	
G3-29	29	87,00	93,00	50	25	1,477	1,252	47,18 €	
G3-30	30	90,00	96,00	50	25	1,573	1,348	48,84 €	
G3-31	31	93,00	99,00	50	25	1,672	1,447	50,56 €	
G3-32	32	96,00	102,00	50	25	1,774	1,549	52,40 €	

Dimensions in mm

On request

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
G3-33	33	99,00	105,00	50	25	1,880	1,654	55,27 €	
G3-34	34	102,00	108,00	50	25	1,989	1,763	56,41 €	
G3-35	35	105,00	111,00	60	25	2,233	1,875	60,77 €	
G3-36	36	108,00	114,00	60	25	2,348	1,990	63,07 €	
G3-37	37	111,00	117,00	60	25	2,466	2,109	64,33 €	
G3-38	38	114,00	120,00	60	25	2,588	2,230	65,25 €	
G3-39	39	117,00	123,00	60	25	2,713	2,355	66,09 €	
G3-40	40	120,00	126,00	60	25	2,841	2,484	67,05 €	
G3-41	41	123,00	129,00	60	25	2,973	2,615	68,21 €	
G3-42	42	126,00	132,00	60	25	3,107	2,750	69,08 €	
G3-43	43	129,00	135,00	60	25	3,245	2,888	75,31 €	
G3-44	44	132,00	138,00	60	25	3,386	3,029	84,48 €	
G3-45	45	135,00	141,00	60	25	3,531	3,173	99,10 €	
G3-46	46	138,00	144,00	60	25	3,679	3,321	100,00 €	
G3-47	47	141,00	147,00	60	25	3,829	3,472	100,70 €	
G3-48	48	144,00	150,00	60	25	3,984	3,626	106,87 €	
G3-49	49	147,00	153,00	60	25	4,141	3,783	109,07 €	
G3-50	50	150,00	156,00	60	25	4,302	3,944	106,66 €	
G3-51	51	153,00	159,00	60	25	4,466	4,108	113,68 €	
G3-52	52	156,00	162,00	60	25	4,633	4,275	117,54 €	
G3-53	53	159,00	165,00	60	25	4,803	4,445	121,54 €	
G3-54	54	162,00	168,00	60	25	4,977	4,619	125,16 €	
G3-55	55	165,00	171,00	60	25	5,154	4,796	131,11 €	
G3-56	56	168,00	174,00	60	25	5,334	4,976	133,21 €	
G3-57	57	171,00	177,00	60	25	5,517	5,159	135,33 €	
G3-58	58	174,00	180,00	60	25	5,704	5,346	137,46 €	
G3-59	59	177,00	183,00	60	25	5,894	5,536	141,43 €	
G3-60	60	180,00	186,00	60	25	6,087	5,729	145,28 €	
G3-61	61	183,00	189,00	60	25	6,283	5,925	149,26 €	
G3-62	62	186,00	192,00	60	25	6,483	6,125	153,21 €	
G3-63	63	189,00	195,00	60	25	6,685	6,328	157,24 €	
G3-64	64	192,00	198,00	120	30	8,107	6,484	160,78 €	
G3-65	65	195,00	201,00	120	30	8,316	6,694	161,71 €	
G3-68	68	204,00	210,00	120	30	8,964	7,341	173,15 €	
G3-70	70	210,00	216,00	120	30	9,412	7,789	187,05 €	
G3-72	72	216,00	220,00	120	30	9,873	8,250	193,05 €	
G3-75	75	225,00	231,00	120	30	10,588	8,965	207,98 €	
G3-76	76	228,00	234,00	120	30	10,833	9,210	209,62 €	
G3-78	78	234,00	240,00	120	30	11,333	9,710	220,75 €	
G3-80	80	240,00	246,00	120	20	11,846	10,223	231,99 €	
G3-82	82	246,00	252,00	120	30	12,371	10,749	244,86 €	
G3-84	84	252,00	258,00	120	30	12,910	11,288	256,64 €	
G3-86	86	258,00	264,00	120	30	13,462	11,839	277,30 €	
G3-88	88	264,00	270,00	120	30	14,027	12,404	294,46 €	
G3-90	90	270,00	276,00	120	30	14,604	12,982	305,41 €	
G3-92	92	276,00	282,00	120	30	15,195	13,572	314,94 €	
G3-94	94	282,00	288,00	120	30	15,799	14,176	335,54 €	
G3-95	95	285,00	291,00	120	30	16,105	14,483	349,11 €	
G3-96	96	288,00	294,00	120	30	16,415	14,793	361,41 €	



Gears available up to this size



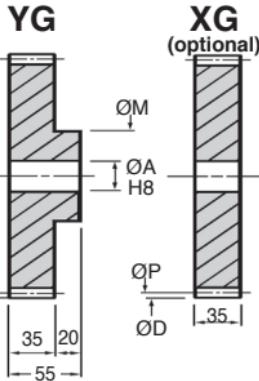
G3-195 195 585,00 591,00 Dimensions: contact us On request

Dimensions in mm

MODULE**Steel 35NCD6****3.0**

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

Torque and power indication			
For 50 teeth at 1000 rpm			
	35NCD6 hardened	20NCD2 hardened	
Nm	122	178	122
kW	12,65	18,65	12,68
			35,06

**DISCOUNTS**

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	On request	

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG3-9	9	30,00	36,00	36	15	0,27	0,14	32,25 €
YG3-10	10	33,00	39,00	39	15	0,34	0,18	32,25 €
YG3-11	11	36,00	42,00	42	15	0,41	0,23	32,25 €
YG3-12	12	36,00	42,00	42	20	0,35	0,19	32,25 €
YG3-13	13	39,00	45,00	45	20	0,43	0,24	33,37 €
YG3-14	14	42,00	48,00	45	20	0,48	0,29	34,84 €
YG3-15	15	45,00	51,00	45	20	0,54	0,34	35,87 €
YG3-16	16	48,00	54,00	45	20	0,60	0,40	38,16 €
YG3-17	17	51,00	57,00	45	20	0,66	0,46	40,29 €
YG3-18	18	54,00	60,00	45	20	0,72	0,53	42,48 €
YG3-19	19	57,00	63,00	45	20	0,79	0,60	44,07 €
YG3-20	20	60,00	66,00	60	25	0,98	0,63	45,41 €
YG3-21	21	63,00	69,00	60	25	1,06	0,70	47,00 €
YG3-22	22	66,00	72,00	60	25	1,14	0,78	48,57 €
YG3-23	23	69,00	75,00	60	25	1,23	0,87	50,07 €
YG3-24	24	72,00	78,00	60	25	1,32	0,96	51,55 €
YG3-25	25	75,00	81,00	60	25	1,41	1,05	54,63 €
YG3-26	26	78,00	84,00	60	25	1,51	1,15	57,73 €
YG3-27	27	81,00	87,00	60	25	1,61	1,25	59,07 €
YG3-28	28	84,00	90,00	60	25	1,71	1,35	60,84 €
YG3-29	29	87,00	93,00	60	25	1,82	1,46	63,28 €
YG3-30	30	90,00	96,00	60	25	1,93	1,57	65,57 €
YG3-31	31	93,00	99,00	60	25	2,05	1,69	67,89 €

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	Weight (kg) XG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG3-32	32	96,00	102,00	60	25	2,16	1,81	73,42 €	
YG3-33	33	99,00	105,00	60	25	2,29	1,93	74,16 €	
YG3-34	34	102,00	108,00	75	25	2,66	2,06	75,65 €	
YG3-35	35	105,00	111,00	75	25	2,79	2,19	81,50 €	
YG3-36	36	108,00	114,00	75	25	2,92	2,32	84,62 €	
YG3-37	37	111,00	117,00	75	25	3,06	2,46	92,34 €	
YG3-38	38	114,00	120,00	75	25	3,20	2,60	92,34 €	
YG3-39	39	117,00	123,00	75	25	3,35	2,75	92,34 €	
YG3-40	40	120,00	126,00	75	25	3,50	2,90	89,96 €	
YG3-41	41	123,00	129,00	75	25	3,65	3,05	91,55 €	
YG3-42	42	126,00	132,00	75	25	3,81	3,21	107,91 €	
YG3-43	43	129,00	135,00	75	25	3,97	3,37	107,91 €	
YG3-44	44	132,00	138,00	100	25	4,66	3,53	113,35 €	
YG3-45	45	135,00	141,00	100	25	4,83	3,70	140,74 €	
YG3-46	46	138,00	144,00	100	25	5,00	3,87	140,74 €	
YG3-47	47	141,00	147,00	100	25	5,18	4,05	140,74 €	
YG3-48	48	144,00	150,00	100	25	5,36	4,23	136,57 €	
YG3-49	49	147,00	153,00	100	25	5,54	4,41	141,96 €	
YG3-50	50	150,00	156,00	100	25	5,73	4,60	153,00 €	
YG3-51	51	153,00	159,00	100	25	5,92	4,79	152,39 €	
YG3-52	52	156,00	162,00	100	25	6,11	4,99	157,68 €	
YG3-53	53	159,00	165,00	100	25	6,31	5,19	162,99 €	
YG3-54	54	162,00	168,00	100	25	6,52	5,39	178,03 €	
YG3-55	55	165,00	171,00	100	25	6,72	5,60	175,88 €	
YG3-56	56	168,00	174,00	100	25	6,93	5,81	178,66 €	
YG3-57	57	171,00	177,00	127	25	7,88	6,02	181,43 €	
YG3-58	58	174,00	180,00	127	25	8,10	6,24	184,35 €	
YG3-59	59	177,00	183,00	127	25	8,32	6,46	222,53 €	
YG3-60	60	180,00	186,00	127	25	8,55	6,68	222,53 €	
YG3-61	61	183,00	189,00	127	25	8,78	6,91	222,53 €	
YG3-62	62	186,00	192,00	127	25	9,01	7,15	222,53 €	
YG3-63	63	189,00	195,00	127	25	9,25	7,38	222,53 €	
YG3-64	64	192,00	198,00	127	25	9,49	7,62	222,53 €	
YG3-65	65	195,00	201,00	127	25	9,73	7,87	292,09 €	
YG3-68	68	204,00	210,00	127	25	10,49	8,62	292,09 €	
YG3-70	70	210,00	216,00	150	30	11,68	9,09	292,09 €	
YG3-72	72	216,00	220,00	150	30	12,22	9,62	292,09 €	
YG3-75	75	225,00	231,00	150	30	13,06	10,46	344,95 €	
YG3-76	76	228,00	234,00	150	30	13,34	10,75	344,95 €	
YG3-78	78	234,00	240,00	150	30	13,92	11,33	344,95 €	
YG3-80	80	240,00	246,00	150	30	14,52	11,93	344,95 €	
YG3-82	82	246,00	252,00	150	30	15,14	12,54	378,33 €	
YG3-84	84	252,00	258,00	150	30	15,77	13,17	378,33 €	
YG3-86	86	259,00	264,00	150	30	16,41	13,81	433,97 €	
YG3-88	88	264,00	270,00	150	30	17,07	14,47	433,97 €	
YG3-90	90	270,00	276,00	150	30	17,74	15,15	472,93 €	
YG3-92	92	276,00	282,00	150	30	18,43	15,83	506,31 €	
YG3-94	94	282,00	288,00	150	30	19,13	16,54	506,31 €	
YG3-95	95	285,00	291,00	150	30	19,49	16,90	575,32 €	
YG3-96	96	288,00	294,00	150	30	19,85	17,26	575,32 €	



Gears available up to this size



YG3-195 195 585,00 591,00 Dimensions: contact us

On request

Dimensions in mm

Plastic spur gear



MODULE

3.0

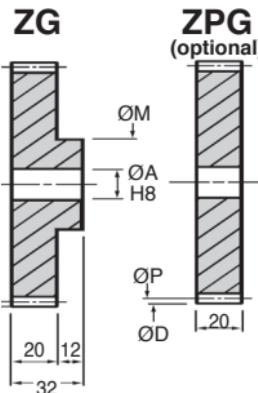


- Machined parts

- 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+	9+	16+
Disc.	List	-5%	-10%	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
ZG3-9	9	30,00	36,00	36	12	0,029	0,015	13,81	€
ZG3-10	10	33,00	39,00	36	12	0,033	0,019	13,81	€
ZG3-11	11	36,00	42,00	36	12	0,037	0,023	13,81	€
ZG3-12	12	36,00	42,00	36	15	0,035	0,022	13,81	€
ZG3-13	13	39,00	45,00	36	15	0,039	0,026	14,33	€
ZG3-14	14	42,00	48,00	36	15	0,044	0,031	17,00	€
ZG3-15	15	45,00	51,00	40	15	0,053	0,036	17,57	€
ZG3-16	16	48,00	54,00	40	15	0,059	0,042	18,63	€
ZG3-17	17	51,00	57,00	40	15	0,065	0,048	19,65	€
ZG3-18	18	54,00	60,00	48	15	0,080	0,054	20,73	€
ZG3-19	19	57,00	63,00	48	15	0,086	0,061	21,52	€
ZG3-20	20	60,00	66,00	48	15	0,093	0,068	22,36	€
ZG3-21	21	63,00	69,00	48	15	0,101	0,076	31,26	€
ZG3-22	22	66,00	72,00	48	15	0,109	0,083	32,30	€
ZG3-23	23	69,00	75,00	48	15	0,117	0,092	33,35	€
ZG3-24	24	72,00	78,00	48	15	0,125	0,100	34,36	€
ZG3-25	25	75,00	81,00	48	15	0,134	0,109	36,38	€
ZG3-26	26	78,00	84,00	60	20	0,154	0,115	40,73	€
ZG3-27	27	81,00	87,00	60	20	0,163	0,124	41,73	€
ZG3-28	28	84,00	90,00	60	20	0,173	0,134	42,89	€
ZG3-29	29	87,00	93,00	60	20	0,184	0,145	44,59	€
ZG3-30	30	90,00	96,00	60	20	0,194	0,156	46,21	€

Dimensions in mm

On request

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
ZG3-31	31	93,00	99,00	60	20	0,205	0,167	53,28	€
ZG3-32	32	96,00	102,00	60	20	0,217	0,178	55,16	€
ZG3-33	33	99,00	105,00	60	20	0,229	0,190	58,20	€
ZG3-34	34	102,00	108,00	60	20	0,241	0,202	64,39	€
ZG3-35	35	105,00	111,00	60	20	0,253	0,215	69,31	€
ZG3-36	36	108,00	114,00	60	20	0,266	0,228	71,99	€
ZG3-37	37	111,00	117,00	60	20	0,280	0,241	74,39	€
ZG3-38	38	114,00	120,00	60	20	0,293	0,254	75,48	€
ZG3-39	39	117,00	123,00	60	20	0,307	0,268	82,28	€
ZG3-40	40	120,00	126,00	60	20	0,322	0,283	83,49	€
ZG3-41	41	123,00	129,00	60	20	0,336	0,298	84,98	€
ZG3-42	42	126,00	132,00	60	20	0,351	0,313	87,13	€
ZG3-43	43	129,00	135,00	60	20	0,367	0,328	93,78	€
ZG3-44	44	132,00	138,00	60	20	0,383	0,344	105,21	€
ZG3-45	45	135,00	141,00	60	20	0,399	0,360	130,54	€
ZG3-46	46	138,00	144,00	60	20	0,415	0,377	130,54	€
ZG3-47	47	141,00	147,00	60	20	0,432	0,394	130,54	€
ZG3-48	48	144,00	150,00	60	20	0,450	0,411	130,54	€
ZG3-49	49	147,00	153,00	60	20	0,467	0,428	130,54	€
ZG3-50	50	150,00	156,00	60	20	0,485	0,446	148,10	€
ZG3-51	51	153,00	159,00	60	20	0,504	0,465	153,26	€
ZG3-52	52	156,00	162,00	60	20	0,522	0,484	158,46	€
ZG3-53	53	159,00	165,00	60	20	0,541	0,503	158,46	€
ZG3-54	54	162,00	168,00	80	20	0,595	0,522	184,14	€
ZG3-55	55	165,00	171,00	80	20	0,615	0,542	184,14	€
ZG3-56	56	168,00	174,00	80	20	0,635	0,562	184,14	€
ZG3-57	57	171,00	177,00	80	20	0,655	0,583	184,14	€
ZG3-58	58	174,00	180,00	80	20	0,676	0,603	184,14	€
ZG3-59	59	177,00	183,00	80	20	0,697	0,625	220,04	€
ZG3-60	60	180,00	186,00	80	20	0,719	0,646	226,24	€
ZG3-61	61	183,00	189,00	80	20	0,741	0,668	228,79	€
ZG3-62	62	186,00	192,00	80	20	0,763	0,691	228,79	€
ZG3-63	63	189,00	195,00	80	20	0,786	0,713	228,79	€
ZG3-64	64	192,00	198,00	80	20	0,809	0,737	228,79	€
ZG3-65	65	195,00	201,00	80	20	0,833	0,760	362,72	€
ZG3-68	68	204,00	210,00	80	20	0,905	0,833	362,72	€
ZG3-70	70	210,00	216,00	80	20	0,955	0,883	362,72	€
ZG3-72	72	216,00	220,00	80	20	1,007	0,934	362,72	€

↓ Gears available up to this size ↓

ZG3-195 195 585,00 591,00 Dimensions: contact us On request

Dimensions in mm

Moulded plastic spur gear

Nyl  €
Eco Stock

MODULE

3.0



- Moulded parts

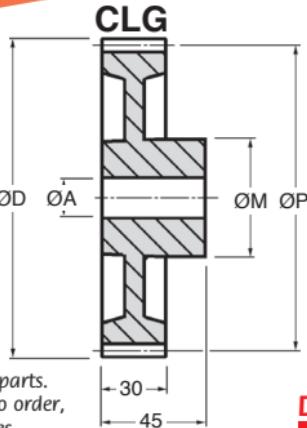
- Pressure angle 20°

- Material: Nylon 6

Reinforced with 30% glass fibres

Nylon 6 moulded

Economy range



A: Pre-bored
hole must be
finished

Options

- Alternative number of teeth,
a datasheet is available
from www.hpc-europe.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.

DISCOUNTS

Qty.	1+	10+	50+	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
CLG3-12	12	42	36	25	12	✓	7,93 €
CLG3-14	14	48	42	30	12	-	on request
CLG3-15	15	51	45	35	12	✓	7,93 €
CLG3-16	16	54	48	40	12	✓	15,15 €
CLG3-18	18	60	54	45	12	✓	15,15 €
CLG3-20	20	66	60	45	12	✓	15,15 €
CLG3-22	22	72	66	45	16	-	on request
CLG3-23	23	75	69	45	16	-	on request
CLG3-24	24	78	72	45	16	-	on request
CLG3-25	25	81	75	45	16	✓	20,71 €
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	✓	25,75 €
CLG3-32	32	102	96	50	16	-	on request
CLG3-35	35	111	105	50	20	✓	31,09 €
CLG3-40	40	126	120	60	20	✓	37,43 €
CLG3-45	45	141	135	60	20	-	42,05 €
CLG3-50	50	156	150	60	20	-	43,92 €
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

Technical support

For all your questions
and requests for quotation



www.hpc-europe.com - +33(0)4 37 496 496

Steel spur gear



MODULE

Steel 34C10

4.0

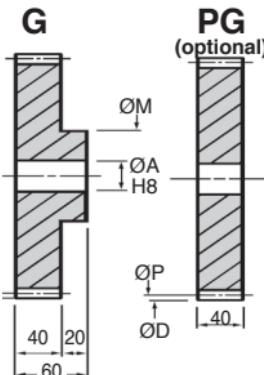


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Torque and power indication

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm	200	953	100	80
kW	20.88	99.96	10.44	8.20



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	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
G4-9	9	40,00	48,00	30	20	0,349	0,288	28,29 €	
G4-10	10	44,00	52,00	34	20	0,460	0,369	28,29 €	
G4-11	11	48,00	56,00	38	25	0,502	0,404	28,29 €	
G4-12	12	48,00	56,00	38	25	0,502	0,404	28,92 €	
G4-13	13	52,00	60,00	38	25	0,598	0,500	30,52 €	
G4-14	14	56,00	64,00	40	25	0,721	0,604	32,73 €	
G4-15	15	60,00	68,00	40	25	0,832	0,715	37,15 €	
G4-16	16	64,00	72,00	50	25	1,060	0,834	41,19 €	
G4-17	17	68,00	76,00	50	25	1,187	0,961	43,42 €	
G4-18	18	72,00	80,00	50	25	1,321	1,096	45,62 €	
G4-19	19	76,00	84,00	50	25	1,464	1,238	47,32 €	
G4-20	20	80,00	88,00	50	25	1,614	1,388	49,58 €	
G4-21	21	84,00	92,00	50	25	1,771	1,546	51,36 €	
G4-22	22	88,00	96,00	50	25	1,937	1,711	54,06 €	
G4-23	23	92,00	100,00	50	25	2,110	1,884	55,12 €	
G4-24	24	96,00	104,00	50	25	2,291	2,065	56,19 €	
G4-25	25	100,00	108,00	80	30	2,849	2,188	58,43 €	
G4-26	26	104,00	112,00	80	30	3,045	2,384	60,87 €	
G4-27	27	108,00	116,00	80	30	3,249	2,588	63,54 €	
G4-28	28	112,00	120,00	80	30	3,460	2,799	65,99 €	
G4-29	29	116,00	124,00	80	30	3,680	3,018	68,25 €	
G4-30	30	120,00	128,00	80	30	3,907	3,245	70,71 €	

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) G	Price each 1 to 5 PG
G4-31	31	124,00	132,00	80	30	4,141	3,480 75,40 €
G4-32	32	128,00	136,00	80	30	4,383	3,722 79,83 €
G4-33	33	132,00	140,00	80	30	4,633	3,972 88,58 €
G4-34	34	136,00	144,00	80	30	4,891	4,230 91,35 €
G4-35	35	140,00	148,00	80	30	5,157	4,495 100,38 €
G4-36	36	144,00	152,00	80	30	5,430	4,769 104,91 €
G4-37	37	148,00	156,00	80	30	5,710	5,049 111,21 €
G4-38	38	152,00	160,00	80	30	5,999	5,338 112,90 €
G4-39	39	156,00	164,00	80	30	6,295	5,634 119,21 €
G4-40	40	160,00	168,00	80	30	6,599	5,938 123,19 €
G4-41	41	164,00	172,00	80	30	6,911	6,249 127,87 €
G4-42	42	168,00	176,00	80	30	7,230	6,569 139,49 €
G4-43	43	172,00	180,00	80	30	7,557	6,896 141,81 €
G4-44	44	176,00	184,00	80	30	7,891	7,230 144,23 €
G4-45	45	180,00	188,00	80	30	8,234	7,573 146,60 €
G4-46	46	184,00	192,00	80	30	8,584	7,923 148,30 €
G4-47	47	188,00	196,00	80	30	8,941	8,280 149,98 €
G4-48	48	192,00	200,00	80	30	9,307	8,646 151,66 €
G4-49	49	196,00	204,00	80	30	9,680	9,019 186,59 €
G4-50	50	200,00	208,00	80	30	10,061	9,400 186,59 €
G4-51	51	204,00	212,00	120	30	11,411	9,788 186,59 €
G4-52	52	208,00	216,00	120	30	11,807	10,184 186,59 €
G4-53	53	212,00	220,00	120	30	12,211	10,588 186,59 €
G4-54	54	216,00	224,00	120	30	12,622	11,000 186,59 €
G4-55	55	220,00	228,00	120	30	13,042	11,419 219,71 €
G4-56	56	224,00	232,00	120	30	13,469	11,846 219,71 €
G4-57	57	228,00	236,00	120	30	13,903	12,281 219,71 €
G4-58	58	232,00	240,00	120	30	14,346	12,723 211,91 €
G4-59	59	236,00	244,00	120	30	14,796	13,173 220,61 €
G4-60	60	240,00	248,00	120	30	15,253	13,631 226,17 €
G4-61	61	244,00	252,00	120	30	15,719	14,096 273,95 €
G4-62	62	248,00	256,00	120	30	16,192	14,569 276,47 €
G4-63	63	252,00	260,00	120	30	16,673	15,050 281,49 €
G4-64	64	256,00	264,00	120	30	17,161	15,538 287,37 €
G4-65	65	260,00	268,00	150	38	18,435	15,904 299,50 €
G4-66	66	264,00	272,00	150	38	18,939	16,408 309,70 €
G4-67	67	268,00	276,00	150	38	19,450	16,919 320,67 €
G4-68	68	272,00	280,00	150	38	19,970	17,439 330,16 €
G4-69	69	276,00	284,00	150	38	20,497	17,966 338,87 €
G4-70	70	280,00	288,00	150	38	21,031	18,500 345,97 €
G4-71	71	284,00	292,00	150	38	21,573	19,043 415,38 €
G4-72	72	288,00	296,00	150	38	22,124	19,593 415,38 €



Gears available up to this size



G4-145 145 580,00 588,00 Dimensions: contact us

On request

Dimensions in mm

MODULE

Steel 35NCD6

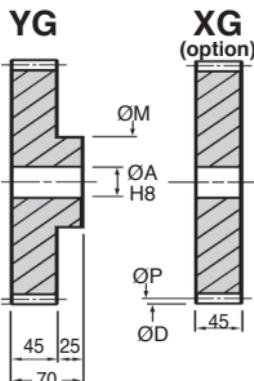
4.0

- 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 hardened	20NCD2	20NCD2 hardened	
Nm	420	665	510	1256
kW	44	69	52.96	131

**DISCOUNTS**

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	On request	

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Weight (kg) YG	Price each 1 to 5 YG	Price each 1 to 5 XG
YG4-9	9	40,00	48,00	48	20	0,61	0,32	37,80 €
YG4-10	10	44,00	52,00	52	20	0,76	0,42	37,80 €
YG4-11	11	48,00	56,00	56	25	0,83	0,45	37,80 €
YG4-12	12	48,00	56,00	56	25	0,83	0,45	37,86 €
YG4-13	13	52,00	60,00	60	25	1,01	0,56	40,75 €
YG4-14	14	56,00	64,00	60	25	1,13	0,68	43,70 €
YG4-15	15	60,00	68,00	60	25	1,25	0,80	49,55 €
YG4-16	16	64,00	72,00	60	25	1,39	0,94	54,94 €
YG4-17	17	68,00	76,00	60	25	1,53	1,08	57,89 €
YG4-18	18	72,00	80,00	60	25	1,68	1,23	60,87 €
YG4-19	19	76,00	84,00	60	25	1,84	1,39	63,10 €
YG4-20	20	80,00	88,00	60	25	2,01	1,56	65,42 €
YG4-21	21	84,00	92,00	60	25	2,19	1,74	68,54 €
YG4-22	22	88,00	96,00	75	25	2,68	1,93	72,16 €
YG4-23	23	92,00	100,00	75	25	2,87	2,12	73,62 €
YG4-24	24	96,00	104,00	75	25	3,07	2,32	91,49 €
YG4-25	25	100,00	108,00	75	30	3,17	2,46	91,49 €
YG4-26	26	104,00	112,00	75	30	3,39	2,68	91,49 €
YG4-27	27	108,00	116,00	75	30	3,62	2,91	115,06 €
YG4-28	28	112,00	120,00	75	30	3,86	3,15	115,06 €
YG4-29	29	116,00	124,00	100	30	4,76	3,40	115,06 €
YG4-30	30	120,00	128,00	100	30	5,02	3,65	115,06 €

Dimensions in mm

On request

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
YG4-31	31	124,00	132,00	100	30	5,28 3,92	134,46 €
YG4-32	32	128,00	136,00	100	30	5,55 4,19	134,46 €
YG4-33	33	132,00	140,00	100	30	5,84 4,47	134,46 €
YG4-34	34	136,00	144,00	100	30	6,13 4,76	175,36 €
YG4-35	35	140,00	148,00	100	30	6,42 5,06	175,36 €
YG4-36	36	144,00	152,00	100	30	6,73 5,36	175,36 €
YG4-37	37	148,00	156,00	100	30	7,05 5,68	190,60 €
YG4-38	38	152,00	160,00	100	30	7,37 6,01	190,60 €
YG4-39	39	156,00	164,00	100	30	7,71 6,34	190,60 €
YG4-40	40	160,00	168,00	100	30	8,05 6,68	221,80 €
YG4-41	41	164,00	172,00	100	30	8,40 7,03	221,80 €
YG4-42	42	168,00	176,00	127	30	9,68 7,39	221,80 €
YG4-43	43	172,00	180,00	127	30	10,05 7,76	221,80 €
YG4-44	44	176,00	184,00	127	30	10,42 8,13	277,27 €
YG4-45	45	180,00	188,00	127	30	10,81 8,52	277,27 €
YG4-46	46	184,00	192,00	127	30	11,20 8,91	277,27 €
YG4-47	47	188,00	196,00	127	30	11,60 9,32	277,27 €
YG4-48	48	192,00	200,00	127	30	12,01 9,73	277,27 €
YG4-49	49	196,00	204,00	127	30	12,43 10,15	363,92 €
YG4-50	50	200,00	208,00	127	30	12,86 10,57	363,92 €
YG4-51	51	204,00	212,00	127	30	13,30 11,01	363,92 €
YG4-52	52	208,00	216,00	127	30	13,75 11,46	363,92 €
YG4-53	53	212,00	220,00	127	30	14,20 11,91	363,92 €
YG4-54	54	216,00	224,00	127	30	14,66 12,37	363,92 €
YG4-55	55	220,00	228,00	127	30	15,13 12,85	429,77 €
YG4-56	56	224,00	232,00	127	30	15,61 13,33	429,77 €
YG4-57	57	228,00	236,00	127	30	16,10 13,82	429,77 €
YG4-58	58	232,00	240,00	127	30	16,60 14,31	429,77 €
YG4-59	59	236,00	244,00	127	30	17,11 14,82	429,77 €
YG4-60	60	240,00	248,00	127	30	17,62 15,33	429,77 €
YG4-61	61	244,00	252,00	127	30	18,15 15,86	471,38 €
YG4-62	62	248,00	256,00	127	30	18,68 16,39	471,38 €
YG4-63	63	252,00	260,00	127	30	19,22 16,93	471,38 €
YG4-64	64	256,00	264,00	127	38	19,54 17,33	540,71 €
YG4-65	65	260,00	268,00	150	38	21,06 17,89	540,71 €
YG4-66	66	264,00	272,00	150	38	21,62 18,46	589,23 €
YG4-67	67	268,00	276,00	150	38	22,20 19,03	589,23 €
YG4-68	68	272,00	280,00	150	38	22,78 19,62	589,23 €
YG4-69	69	276,00	284,00	150	38	23,37 20,21	630,82 €
YG4-70	70	280,00	288,00	150	38	23,98 20,81	630,82 €
YG4-71	71	284,00	292,00	150	38	24,59 21,42	716,79 €
YG4-72	72	288,00	296,00	150	38	25,21 22,04	716,79 €

Gears available up to this size

G4-145	145	580,00	588,00	Dimensions: contact us	On request
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Dimensions in mm

Plastic spur gear



MODULE

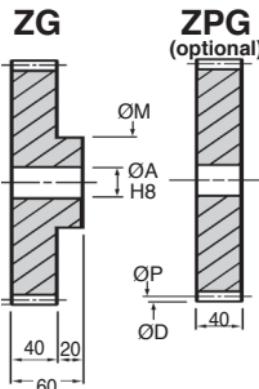
4.0



- Machined parts

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

Torque indication	
For 50 teeth at 1000 rpm	
Delrin	55
Nm	



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	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	19,28 €	
ZG4-10	10	44,00	52,00	34	20	19,28 €	
ZG4-11	11	48,00	56,00	38	25	19,28 €	
ZG4-12	12	48,00	56,00	38	25	19,28 €	
ZG4-13	13	52,00	60,00	38	25	20,84 €	
ZG4-14	14	56,00	64,00	40	25	22,30 €	
ZG4-15	15	60,00	68,00	40	25	25,34 €	
ZG4-16	16	64,00	72,00	50	25	28,11 €	
ZG4-17	17	68,00	76,00	50	25	29,66 €	
ZG4-18	18	72,00	80,00	50	25	31,07 €	
ZG4-19	19	76,00	84,00	50	25	32,30 €	
ZG4-20	20	80,00	88,00	50	25	33,30 €	
ZG4-21	21	84,00	92,00	50	25	35,07 €	
ZG4-22	22	88,00	96,00	50	25	36,93 €	
ZG4-23	23	92,00	100,00	50	25	38,06 €	
ZG4-24	24	96,00	104,00	50	25	44,97 €	
ZG4-25	25	100,00	108,00	80	30	44,97 €	
ZG4-26	26	104,00	112,00	80	30	44,97 €	
ZG4-27	27	108,00	116,00	80	30	55,36 €	
ZG4-28	28	112,00	120,00	80	30	55,36 €	
ZG4-29	29	116,00	124,00	80	30	46,65 €	
ZG4-30	30	120,00	128,00	80	30	55,36 €	

Dimensions in mm

On request

On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 5 ZG
ZG4-31	31	124,00	132,00	80	30	65,73 €
ZG4-32	32	128,00	136,00	80	30	103,32 €
ZG4-33	33	132,00	140,00	80	30	110,70 €
ZG4-34	34	136,00	144,00	80	30	118,28 €
ZG4-35	35	140,00	148,00	80	30	128,29 €
ZG4-36	36	144,00	152,00	80	30	135,80 €
ZG4-37	37	148,00	156,00	80	30	144,02 €
ZG4-38	38	152,00	160,00	80	30	146,22 €
ZG4-39	39	156,00	164,00	80	30	154,41 €
ZG4-40	40	160,00	168,00	80	30	159,53 €
ZG4-41	41	164,00	172,00	80	30	165,57 €
ZG4-42	42	168,00	176,00	80	30	180,60 €
ZG4-43	43	172,00	180,00	80	30	183,69 €
ZG4-44	44	176,00	184,00	80	30	186,80 €
ZG4-45	45	180,00	188,00	80	30	189,83 €
ZG4-46	46	184,00	192,00	80	30	192,02 €
ZG4-47	47	188,00	196,00	80	30	194,22 €
ZG4-48	48	192,00	200,00	80	30	397,38 €
ZG4-49	49	196,00	204,00	80	30	425,75 €
ZG4-50	50	200,00	208,00	80	30	435,01 €
ZG4-51	51	204,00	212,00	120	30	445,68 €
ZG4-52	52	208,00	216,00	120	30	455,82 €
ZG4-53	53	212,00	220,00	120	30	468,93 €
ZG4-54	54	216,00	224,00	120	30	488,32 €
ZG4-55	55	220,00	228,00	120	30	530,19 €
ZG4-56	56	224,00	232,00	120	30	561,44 €
ZG4-57	57	228,00	236,00	120	30	574,39 €
ZG4-58	58	232,00	240,00	120	30	581,84 €
ZG4-59	59	236,00	244,00	120	30	605,60 €
ZG4-60	60	240,00	248,00	120	30	620,92 €
ZG4-61	61	244,00	252,00	120	30	710,55 €
ZG4-62	62	248,00	256,00	120	30	710,55 €
ZG4-63	63	252,00	260,00	120	30	710,55 €
ZG4-64	64	256,00	264,00	120	30	710,55 €
ZG4-65	65	260,00	268,00	150	38	710,55 €
ZG4-66	66	264,00	272,00	150	38	710,55 €
ZG4-67	67	268,00	276,00	150	38	845,64 €
ZG4-68	68	272,00	280,00	150	38	845,64 €
ZG4-69	69	276,00	284,00	150	38	845,64 €
ZG4-70	70	280,00	288,00	150	38	845,64 €
ZG4-71	71	284,00	292,00	150	38	845,64 €
ZG4-72	72	288,00	296,00	150	38	845,64 €



Gears available up to this size



ZG4-145 145 580,00 588,00 Dimensions: contact us

On request

Dimensions in mm

Steel spur gear



MODULE

Steel 34C10

5.0

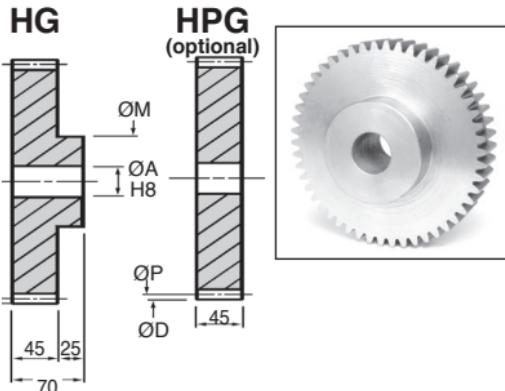


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Option

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

Torque and power indication			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	294	1570	80
KW	30.80	165	8.30
			12.60



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	On request	

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 HG	
HG5-12	12	60,00	70,00	40	20	on request	
HG5-14	14	70,00	80,00	50	25	68,03 €	
HG5-15	15	75,00	85,00	50	25	on request	
HG5-18	18	90,00	100,00	70	30	82,18 €	
HG5-19	19	95,00	105,00	70	30	on request	
HG5-20	20	100,00	110,00	80	30	136,57 €	
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	101,86 €	
HG5-24	24	120,00	130,00	85	30	on request	
HG5-25	25	125,00	135,00	85	30	112,36 €	
HG5-30	30	150,00	160,00	100	30	170,31 €	
HG5-35	35	175,00	185,00	100	30	214,87 €	
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
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Dimensions in mm

On request



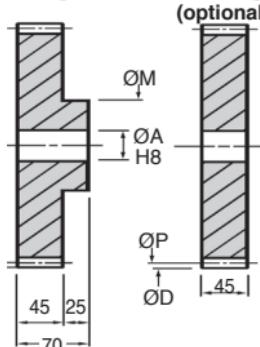
Plastic spur gear

Machined Delrin

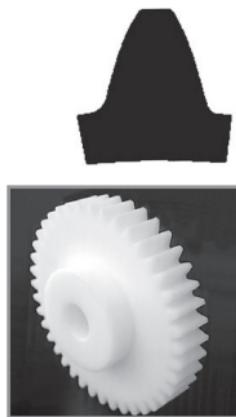
MODULE

5.0

ZHG



ZHPG
(optional)



- 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.hpc-europe.com

Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	90



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc.	List	-5%	-10%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 ZHG	Price each 1 to 3 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		82,47 €
ZHG5-19	19	95,00	105,00	70	30	on request	
ZHG5-20	20	100,00	110,00	80	30	91,35 €	
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	101,40 €	
ZHG5-24	24	120,00	130,00	85	30	on request	
ZHG5-25	25	125,00	135,00	85	30	112,69 €	
ZHG5-30	30	150,00	160,00	100	30	170,80 €	
ZHG5-35	35	175,00	185,00	100	30	215,57 €	
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
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Dimensions in mm

On request

Steel spur gear



MODULE

Steel 34C10

6.0

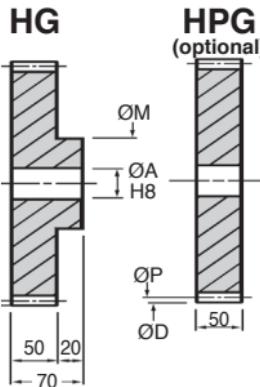


- Precision class 9
- Pressure angle 20°
- Linear speed 300m/min

Option

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

Torque and power indication For 50 teeth at 1000 rpm			
34C10 Z10CNF18.09	34C10 hardened	brass	fibre
Nm 441	2350	120	180
kW 46	246	12.60	18.80



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc. List	-5%	-10%	On request	

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3	
HG6-12	12	72,00	84,00	50	25	on request	
HG6-14	14	84,00	96,00	60	25	74,88 €	
HG6-15	15	90,00	102,00	65	25	80,23 €	
HG6-18	18	108,00	120,00	80	30	96,27 €	
HG6-19	19	114,00	126,00	80	30	101,63 €	
HG6-20	20	120,00	132,00	90	30	106,97 €	
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	123,02 €	
HG6-24	24	144,00	156,00	90	30	on request	
HG6-25	25	150,00	162,00	90	30	133,72 €	
HG6-30	30	180,00	192,00	100	30	191,86 €	
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	276,74 €	
HG6-38	38	228,00	240,00	120	38	on request	
HG6-40	40	240,00	252,00	150	38	316,28 €	
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
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Dimensions in mm

On request



Plastic spur gear

Machined Delrin

MODULE
6.0

- 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.hpc-europe.com

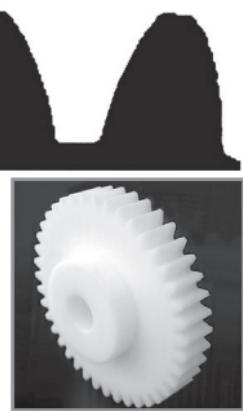
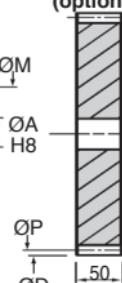
Torque indication	
For 50 teeth 1000 rpm	
Delrin	
Nm	140



ZHG



ZHPG
(optional)



DISCOUNTS

Qty.	1+	4+	9+	16+
Disc.	List	-5%	-10%	On request

Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 ZHG	Price each 1 to 3 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		86,64 €
ZHG6-19	19	114,00	126,00	80	30		on request
ZHG6-20	20	120,00	132,00	90	30		96,27 €
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		110,72 €
ZHG6-24	24	144,00	156,00	90	30		on request
ZHG6-25	25	150,00	162,00	90	30		120,34 €
ZHG6-30	30	180,00	192,00	100	30		172,67 €
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		268,60 €
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
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Dimensions in mm

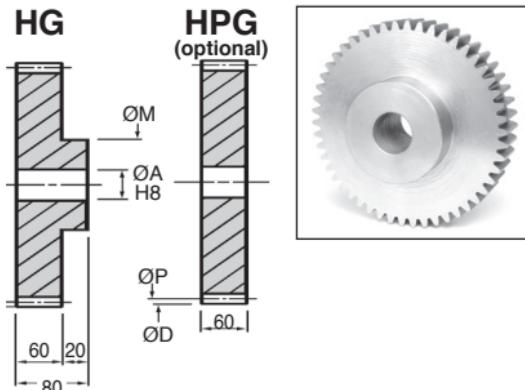
Steel spur gear

**MODULE****Steel 34C10****8.0**

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

Option

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



Torque and power indication				
For 50 teeth at 1000 rpm				
	34C10 Z10CNF18.09	34C10 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		
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 ↓						On request	On request
HG8-70	70	560,00	576,00	Dimensions: contact us		↓	↓

Dimensions in mm



Plastic spur gear

Machined Delrin

MODULE
8.0

- 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.hpc-europe.com

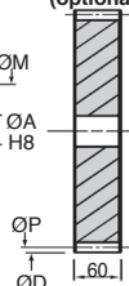
Torque indication	
For 50 teeth 1000 rpm	
	Delrin
Nm	179



ZHG



**ZHPG
(optional)**



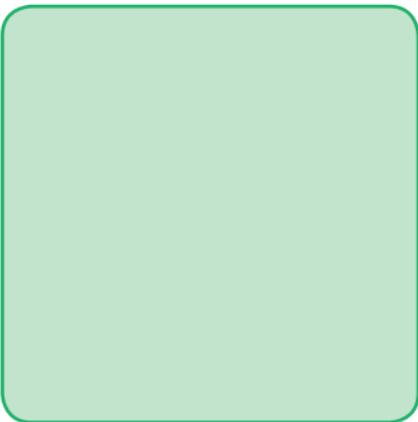
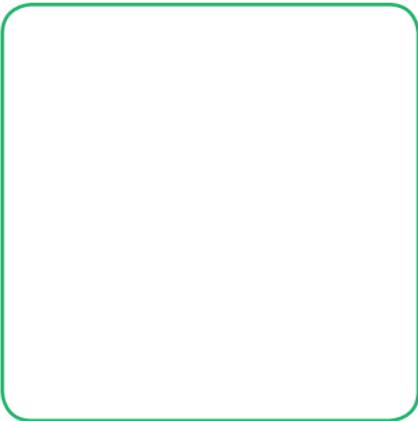
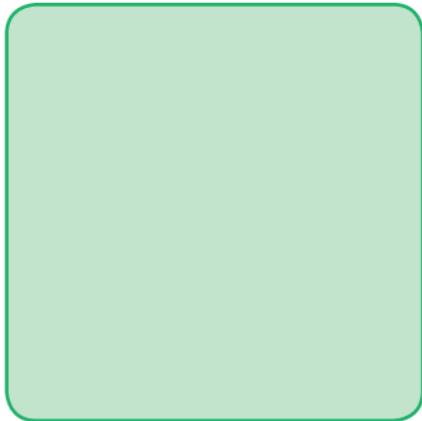
Part number	Teeth Z	PCD ØP	Outside ØD	Boss ØM	Bore ØA	Price each 1 to 3 ZHG	Price each 1 to 3 ZHPG
ZHG8-12	12	96,00	112,00	50	25		
ZHG8-14	14	112,00	128,00	50	25		
ZHG8-15	15	120,00	136,00	50	25		
ZHG8-16	16	128,00	144,00	75	25		
ZHG8-18	18	144,00	160,00	75	25		
ZHG8-20	20	160,00	176,00	75	25		
ZHG8-21	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

On request

On request

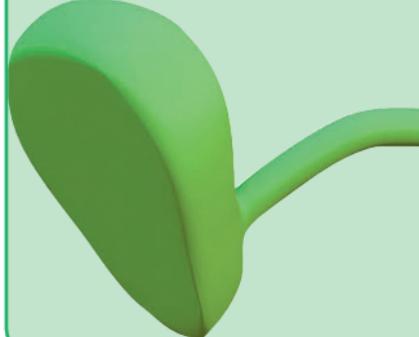
Parallel axis
helical gears
p.304-p.314



Parallel axis helical gears



p.304



Parallel axis helical gear



MODULE 0.4

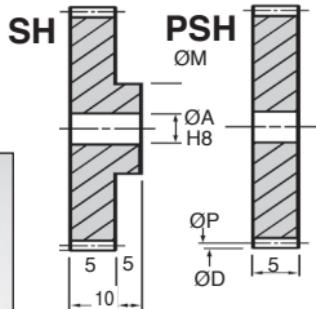
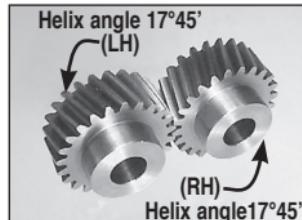
Steel

TORQUE AND POWER INDICATION		
For 50 teeth at 1000 rpm		
	34C10 Z10CNF18.09	34C10 hardened
Nm	0.28	1.12
kW	0.03	0.12
		0.01

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10

Info.

Important: a right handed gear only meshes with a left handed gear.



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	15,37 €
SH0.4-15	15	6,30	7,10	7,10	2	15,49 €
SH0.4-20	20	8,40	9,20	8,00	3	15,49 €
SH0.4-25	25	10,50	11,30	8,00	3	15,46 €
SH0.4-30	30	12,60	13,40	8,00	3	15,65 €
SH0.4-35	35	14,70	15,50	8,00	3	16,05 €
SH0.4-40	40	16,80	17,60	12,00	4	16,43 €
SH0.4-45	45	18,90	19,70	12,00	4	17,02 €
SH0.4-50	50	21,00	21,80	12,00	4	17,54 €
SH0.4-55	55	23,10	23,90	12,00	4	18,04 €
SH0.4-60	60	25,20	26,00	12,00	4	18,83 €
SH0.4-65	65	27,30	28,10	12,00	4	19,75 €
SH0.4-70	70	29,40	30,20	12,00	4	on request
SH0.4-75	75	31,50	32,30	12,00	4	20,27 €
SH0.4-80	80	33,60	34,40	12,00	5	20,62 €
SH0.4-86	86	36,12	36,92	12,00	5	21,38 €
SH0.4-90	90	37,80	38,60	12,00	5	22,17 €
SH0.4-100	100	42,00	42,80	12,00	5	22,98 €
SH0.4-120	120	50,40	51,20	12,00	5	23,29 €
SH0.4-140	140	58,80	59,60	12,00	5	25,36 €
SH0.4-150	150	63,00	63,80	12,00	5	26,15 €
SH0.4-180	180	75,60	76,40	15,00	6	36,86 €
SH0.4-200	200	84,00	84,80	15,00	8	41,39 €
SH0.4-220	220	92,40	93,20	15,00	8	on request
SH0.4-250	250	105,00	105,80	20,00	10	54,15 €

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**TORQUE AND POWER INDICATION**

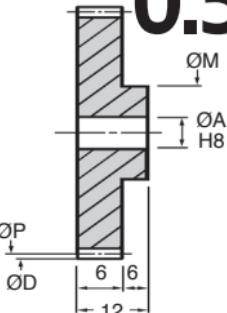
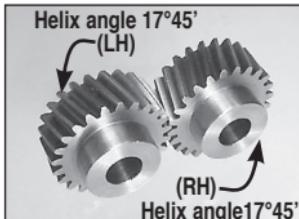
For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	brass	delrin
Nm	0.53	2.09	0.26	0.13
kW	0.05	0.22	0.03	-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.

**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 SH	ZSH	ØA Bore SH	ZSH	Price each 1 to 5 SH	ZSH	
SH0.5-10	-	10	5,78	6,78	6,78	-	3	-	16,05 €	-
SH0.5-15	ZSH0.5-15	15	7,88	8,88	8,50	7	4	2	16,65 €	8,35 €
SH0.5-20	ZSH0.5-20	20	10,50	11,50	8,50	9	4	3	17,61 €	8,79 €
SH0.5-25	ZSH0.5-25	25	13,13	14,13	10,00	10	4	3	18,75 €	9,35 €
SH0.5-30	ZSH0.5-30	30	15,75	16,75	10,00	12	5	4	19,56 €	9,82 €
SH0.5-35	ZSH0.5-35	35	18,38	19,38	10,00	12	5	4	20,70 €	10,37 €
SH0.5-40	ZSH0.5-40	40	21,00	22,00	10,00	12	5	4	21,79 €	10,52 €
SH0.5-45	ZSH0.5-45	45	23,63	24,63	10,00	12	5	4	22,93 €	11,14 €
SH0.5-50	ZSH0.5-50	50	26,25	27,25	12,00	12	6	4	24,02 €	11,68 €
SH0.5-55	ZSH0.5-55	55	28,88	29,88	12,00	14	6	4	24,88 €	12,25 €
SH0.5-60	ZSH0.5-60	60	31,50	32,50	12,00	14	6	4	25,74 €	13,94 €
SH0.5-65	ZSH0.5-65	65	34,13	35,13	12,00	14	6	4	26,56 €	14,35 €
SH0.5-70	ZSH0.5-70	70	36,75	37,75	12,00	14	6	4	26,97 €	14,51 €
SH0.5-75	ZSH0.5-75	75	39,38	40,38	12,00	14	6	4	27,51 €	14,86 €
SH0.5-80	ZSH0.5-80	80	42,00	43,00	12,00	16	6	5	28,10 €	15,12 €
SH0.5-86	ZSH0.5-86	86	45,15	46,15	12,00	16	6	5	28,70 €	17,56 €
SH0.5-90	ZSH0.5-90	90	47,25	48,25	12,00	16	6	5	29,19 €	17,82 €
SH0.5-100	ZSH0.5-100	100	52,50	53,50	12,00	16	6	5	29,64 €	18,17 €
SH0.5-120	ZSH0.5-120	120	63,00	64,00	12,00	16	6	6	35,82 €	18,37 €
SH0.5-140	ZSH0.5-140	140	73,50	74,50	12,00	16	6	6	42,85 €	18,54 €
SH0.5-150	ZSH0.5-150	150	78,75	79,75	15,00	16	8	8	47,30 €	18,57 €
SH0.5-180	ZSH0.5-180	180	94,50	95,50	15,00	16	8	8	52,65 €	27,07 €
SH0.5-200	-	200	105,00	106,00	20,00	-	10	-	57,49 €	-
SH0.5-220	-	220	115,50	116,50	20,00	-	10	-	62,70 €	-
SH0.5-250	-	250	131,25	132,25	25,00	-	12	-	68,99 €	-

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

DelSte 17°45' 1 2 3

**MODULE
0.7**

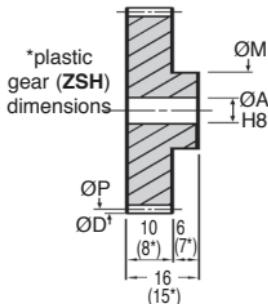
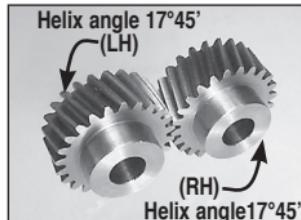
Steel or **machined plastic**

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	1.73	6.83	0.86
kW	0.18	0.72	0.09
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss		ØA Bore SH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
					SH	ZSH			
SH0.7-10	-	10	7,35	8,75	8,75	-	4	18,04 €	-
SH0.7-11	-	11	8,09	9,49	9,49	-	5	18,04 €	-
SH0.7-15	ZSH0.7-15	15	11,03	12,43	11,90	12,43	5	19,27 €	9,66 €
SH0.7-20	ZSH0.7-20	20	14,70	16,10	12,00	12,00	5	21,29 €	10,64 €
SH0.7-22	ZSH0.7-22	22	16,17	17,57	12,00	12,00	5	21,69 €	10,90 €
SH0.7-25	ZSH0.7-25	25	18,38	19,78	12,00	14,00	5	22,35 €	11,25 €
SH0.7-30	ZSH0.7-30	30	22,05	23,45	12,00	14,00	5	23,18 €	11,62 €
SH0.7-34	ZSH0.7-34	34	24,99	26,39	16,00	14,00	6	23,49 €	11,80 €
SH0.7-35	ZSH0.7-35	35	25,73	27,13	16,00	14,00	6	23,53 €	11,80 €
SH0.7-40	ZSH0.7-40	40	29,40	30,80	16,00	16,00	6	23,78 €	13,14 €
SH0.7-45	ZSH0.7-45	45	33,08	34,48	16,00	16,00	6	24,02 €	13,30 €
SH0.7-50	ZSH0.7-50	50	36,75	38,15	16,00	16,00	6	24,56 €	13,61 €
SH0.7-51	ZSH0.7-51	51	37,49	38,89	16,00	16,00	6	24,66 €	13,61 €
SH0.7-55	ZSH0.7-55	55	40,43	41,83	16,00	16,00	6	25,11 €	15,79 €
SH0.7-60	ZSH0.7-60	60	44,10	45,50	16,00	16,00	6	25,71 €	16,15 €
SH0.7-70	ZSH0.7-70	70	51,45	52,85	16,00	18,00	8	26,76 €	20,18 €
SH0.7-75	ZSH0.7-75	75	55,13	56,63	16,00	18,00	8	27,33 €	20,67 €
SH0.7-80	ZSH0.7-80	80	58,80	60,20	16,00	18,00	8	28,50 €	24,43 €
SH0.7-90	ZSH0.7-90	90	66,15	67,55	16,00	18,00	8	30,11 €	25,79 €
SH0.7-100	ZSH0.7-100	100	73,50	74,90	16,00	18,00	8	38,29 €	32,82 €
SH0.7-120	ZSH0.7-120	120	88,20	89,60	20,00	18,00	8	52,27 €	47,46 €
SH0.7-140	-	140	102,63	104,30	20,00	-	10	59,56 €	-
SH0.7-150	-	150	110,25	111,65	25,00	-	10	64,58 €	-
SH0.7-175	-	175	128,63	130,03	30,00	-	15	74,43 €	-

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

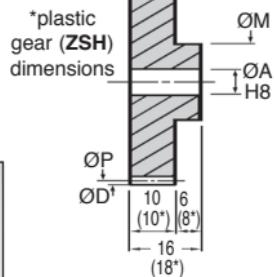
MODULE
0.8

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	2.25	8.92	1.13
kW	0.24	0.93	0.12
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.

**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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss SH	Boss ZSH	ØA Bore SH	Bore ZSH	Price each 1 to 5 SH	Price each 1 to 5 ZSH
SH0.8-10	-	10	8,40	10,00	10	-	5	-	18,04 €	-
SH0.8-15	ZSH0.8-15	15	12,60	14,20	12	14,20	5	3	19,27 €	9,66 €
SH0.8-16	ZSH0.8-16	16	13,44	15,04	12	15,04	5	3	19,77 €	9,88 €
SH0.8-19	ZSH0.8-19	19	15,96	17,56	12	14,00	5	4	21,02 €	10,52 €
SH0.8-20	ZSH0.8-20	20	16,80	18,40	12	14,00	5	4	21,29 €	10,64 €
SH0.8-25	ZSH0.8-25	25	21,00	22,60	12	14,00	5	4	22,35 €	11,25 €
SH0.8-28	ZSH0.8-28	28	23,52	25,12	12	14,00	5	4	22,93 €	11,49 €
SH0.8-30	ZSH0.8-30	30	25,20	26,80	16	16,00	6	5	23,18 €	11,62 €
SH0.8-35	ZSH0.8-35	35	29,40	31,00	16	16,00	6	5	23,53 €	12,99 €
SH0.8-40	ZSH0.8-40	40	33,60	35,20	16	16,00	6	5	23,78 €	13,14 €
SH0.8-45	ZSH0.8-45	45	37,80	39,40	16	16,00	6	5	24,02 €	13,30 €
SH0.8-50	ZSH0.8-50	50	42,00	43,60	16	16,00	6	5	24,40 €	15,33 €
SH0.8-55	ZSH0.8-55	55	46,20	47,80	16	18,00	6	6	25,02 €	15,75 €
SH0.8-60	ZSH0.8-60	60	50,40	52,00	16	18,00	8	6	25,44 €	19,23 €
SH0.8-66	ZSH0.8-66	66	55,44	57,04	16	18,00	8	6	26,07 €	19,64 €
SH0.8-70	ZSH0.8-70	70	58,80	60,40	16	18,00	8	6	26,30 €	22,53 €
SH0.8-75	ZSH0.8-75	75	63,00	64,60	16	18,00	8	6	26,76 €	22,93 €
SH0.8-80	ZSH0.8-80	80	67,20	68,80	16	18,00	8	6	28,10 €	24,06 €
SH0.8-90	ZSH0.8-90	90	75,60	77,20	20	22,00	8	6	29,64 €	26,86 €
SH0.8-100	ZSH0.8-100	100	84,00	85,60	20	22,00	8	8	32,98 €	29,96 €
SH0.8-120	ZSH0.8-120	120	100,80	102,40	20	30,00	10	10	43,54 €	48,34 €
SH0.8-140	ZSH0.8-140	140	117,60	119,20	20	30,00	10	10	57,02 €	60,58 €
SH0.8-150	-	150	126,00	127,60	30	-	12	-	65,91 €	-

↓ ↓ Gears available up to this size ↓ ↓

SH0.8-164 ZSH0.8-164 164

Dimensions: contact us

On request On request

Dimensions in mm

Parallel axis helical gear

DelSte 17°45' 1 2 3

**MODULE
1.0**

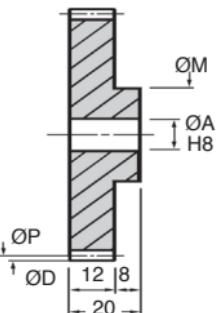
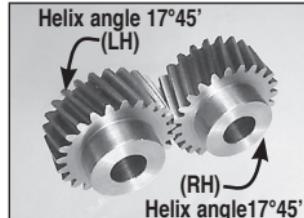
Steel or **machined plastic**

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	4.23	16.74	2.12
kW	0.44	1.75	0.22
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss SH ZSH	ØA Bore SH ZSH	Price each 1 to 5	
							SH	ZSH
SH1-10	-	10	10,50	12,50	12 -	6 -	16,05 €	-
SH1-12	ZSH1-12	12	12,60	14,60	12 14	6 4	16,05 €	8,04 €
SH1-15	ZSH1-15	15	15,75	17,75	12 15	6 6	16,92 €	8,41 €
SH1-16	ZSH1-16	16	16,80	18,80	15 15	8 6	17,20 €	8,58 €
SH1-20	ZSH1-20	20	21,00	23,00	15 15	8 6	18,75 €	9,35 €
SH1-25	ZSH1-25	25	26,25	28,25	15 18	8 6	20,05 €	10,05 €
SH1-28	ZSH1-28	28	29,40	31,40	15 18	8 6	21,74 €	12,01 €
SH1-29	ZSH1-29	29	30,45	32,45	15 18	8 6	22,30 €	12,30 €
SH1-30	ZSH1-30	30	31,50	33,50	20 18	8 6	22,72 €	12,54 €
SH1-33	ZSH1-33	33	34,65	36,65	20 18	8 6	23,53 €	12,99 €
SH1-35	ZSH1-35	35	36,75	38,75	20 18	8 6	24,02 €	13,30 €
SH1-40	ZSH1-40	40	42,00	44,00	20 18	8 6	25,96 €	16,35 €
SH1-45	ZSH1-45	45	47,25	49,25	20 18	8 6	26,45 €	16,67 €
SH1-50	ZSH1-50	50	52,50	54,50	30 22	10 8	29,45 €	18,54 €
SH1-55	ZSH1-55	55	57,75	59,75	30 22	10 8	31,62 €	19,95 €
SH1-60	ZSH1-60	60	63,00	65,00	30 22	10 8	33,37 €	25,26 €
SH1-65	ZSH1-65	65	68,25	70,25	30 22	10 8	36,95 €	27,94 €
SH1-66	ZSH1-66	66	69,30	71,30	30 22	10 8	37,72 €	28,50 €
SH1-70	ZSH1-70	70	73,50	75,50	30 22	10 8	39,55 €	33,89 €
SH1-80	ZSH1-80	80	84,00	86,00	30 26	10 8	44,70 €	34,39 €
SH1-90	ZSH1-90	90	94,50	96,50	30 26	10 8	47,76 €	48,17 €
SH1-100	ZSH1-100	100	105,00	107,00	30 26	10 10	53,59 €	71,70 €
SH1-120	ZSH1-120	120	126,00	128,00	40 30	12 12	75,85 €	100,24 €
SH1-130	-	130	136,50	138,50	40 -	12 -	81,40 €	-

Gears available up to this size

SH1-550 ZSH1-550 550 Dimensions: contact us On request On request

Dimensions in mm

Steel or machined plastic

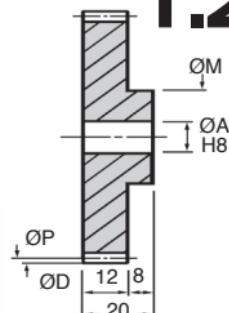
MODULE
1.25

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	6.61	43.45	3.31
kW	0.69	4.55	0.34
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.

**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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss SH ZSH		ØA Bore SH ZSH	Price each 1 to 5 SH ZSH		
					SH	ZSH		SH	ZSH	
SH1.25-10	-	10	13,13	15,63	12	-	6	-	20,70 €	-
SH1.25-15	ZSH1.25-15	15	19,69	22,19	12	15	6	5	22,52 €	11,32 €
SH1.25-18	ZSH1.25-18	18	23,63	26,13	15	16	8	6	24,48 €	12,30 €
SH1.25-20	ZSH1.25-20	20	26,25	28,75	15	16	8	6	25,79 €	12,93 €
SH1.25-21	ZSH1.25-21	21	27,56	30,06	15	18	8	6	26,13 €	14,42 €
SH1.25-25	ZSH1.25-25	25	32,81	35,31	15	18	8	6	27,68 €	15,25 €
SH1.25-30	ZSH1.25-30	30	39,38	41,88	25	18	8	6	31,71 €	17,56 €
SH1.25-35	ZSH1.25-35	35	45,94	48,44	25	18	8	6	34,92 €	21,95 €
SH1.25-37	ZSH1.25-37	37	45,56	51,06	25	18	8	6	35,70 €	26,95 €
SH1.25-40	ZSH1.25-40	40	52,50	55,00	30	22	10	8	36,86 €	27,88 €
SH1.25-45	ZSH1.25-45	45	59,06	61,56	30	22	10	8	37,64 €	32,26 €
SH1.25-50	ZSH1.25-50	50	65,63	68,13	30	22	10	8	39,32 €	33,67 €
SH1.25-55	ZSH1.25-55	55	72,19	74,69	30	26	10	10	40,98 €	35,13 €
SH1.25-60	ZSH1.25-60	60	78,75	81,25	30	26	10	10	47,36 €	42,98 €
SH1.25-65	ZSH1.25-65	65	85,31	87,81	30	26	10	10	50,24 €	45,62 €
SH1.25-70	ZSH1.25-70	70	91,88	94,38	30	26	10	10	52,99 €	53,44 €
SH1.25-76	ZSH1.25-76	76	99,75	102,25	30	30	10	10	54,77 €	60,71 €
SH1.25-80	ZSH1.25-80	80	105,00	107,50	30	30	10	10	60,51 €	67,23 €
SH1.25-88	ZSH1.25-88	88	115,50	118,00	30	30	10	10	67,03 €	74,38 €
SH1.25-90	ZSH1.25-90	90	118,13	120,63	40	30	12	12	67,64 €	82,01 €
SH1.25-96	ZSH1.25-96	96	126,00	128,50	30	30	10	12	77,75 €	93,69 €
SH1.25-100	ZSH1.25-100	100	131,25	133,75	40	30	12	12	79,03 €	107,57 €
SH1.25-120	-	120	157,50	160,00	50	-	15	-	93,59 €	-
SH1.25-130	-	130	170,63	173,13	50	-	15	-	104,30 €	-

↓ ↓ Gears available up to this size ↓ ↓

SH1.25-135	ZSH1.25-135	135	Dimensions: contact us	On request	On request
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Dimensions in mm

Parallel axis helical gear

DelSte 17°45' 1 2 3

**MODULE
1.5**

Steel or **machined plastic**

TORQUE AND POWER INDICATION

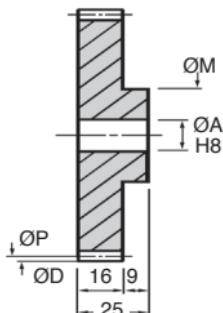
For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	brass	delrin
Nm	12.71	50.29	6.36	3.0
kW	1.34	5.27	0.66	-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss SH ZSH	ØA Bore SH ZSH	Price each 1 to 5	
							SH	ZSH
SH1.5-10	ZSH1.5-10	10	15,75	18,75	18 18	8 6	20,75 €	10,42 €
SH1.5-15	ZSH1.5-15	15	23,63	26,63	18 20	8 8	21,52 €	10,80 €
SH1.5-16	ZSH1.5-16	16	25,20	28,20	20 20	10 8	22,03 €	11,02 €
SH1.5-20	ZSH1.5-20	20	31,50	34,50	20 25	10 8	25,41 €	14,04 €
SH1.5-23	ZSH1.5-23	23	36,23	39,23	20 25	10 8	26,41 €	15,70 €
SH1.5-25	ZSH1.5-25	25	39,38	42,38	25 25	12 8	28,10 €	17,68 €
SH1.5-26	ZSH1.5-26	26	40,95	43,95	25 25	12 8	29,43 €	18,75 €
SH1.5-30	ZSH1.5-30	30	47,25	50,25	25 25	12 8	32,71 €	20,56 €
SH1.5-31	ZSH1.5-31	31	48,83	51,83	25 28	12 10	33,16 €	20,91 €
SH1.5-32	ZSH1.5-32	32	50,40	53,40	25 28	12 10	33,85 €	21,36 €
SH1.5-38	ZSH1.5-38	38	59,85	62,85	30 28	15 10	38,21 €	29,36 €
SH1.5-40	ZSH1.5-40	40	63,00	66,00	40 30	15 12	39,95 €	30,24 €
SH1.5-45	ZSH1.5-45	45	70,88	73,88	40 30	15 12	40,78 €	30,83 €
SH1.5-50	ZSH1.5-50	50	78,75	81,75	40 30	15 12	48,77 €	41,80 €
SH1.5-56	ZSH1.5-56	56	88,20	91,20	40 30	15 12	52,82 €	47,98 €
SH1.5-60	ZSH1.5-60	60	94,50	97,50	40 30	15 12	54,15 €	54,60 €
SH1.5-66	ZSH1.5-66	66	103,95	106,95	40 40	15 12	59,34 €	59,91 €
SH1.5-70	ZSH1.5-70	70	110,25	113,25	40 40	15 12	62,89 €	63,51 €
SH1.5-75	ZSH1.5-75	75	118,13	121,13	40 40	15 12	70,78 €	82,88 €
SH1.5-80	ZSH1.5-80	80	126,00	129,00	40 40	15 12	77,47 €	91,70 €
SH1.5-90	ZSH1.5-90	90	141,75	144,75	40 40	15 12	on request	122,31 €
SH1.5-100	ZSH1.5-100	100	157,50	160,50	40 50	15 15	107,44 €	157,04 €
SH1.5-110	-	110	173,25	176,25	40 -	15 -	123,63 €	-
SH1.5-115	-	115	181,13	184,13	40 -	15 -	137,75 €	-
SH1.5-120	-	120	189,00	192,00	40 -	15 -	153,88 €	-

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

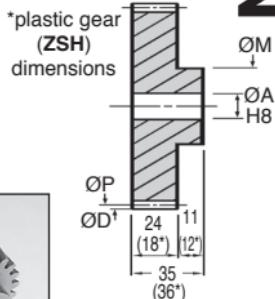
MODULE
2.0

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	33.89	134.0	16.94
kW	3.56	14.0	1.78
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.

**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 PCD	ØD Outside	ØM Boss SH	ZSH	ØA Bore SH	ZSH	Price each 1 to 5
STEEL	PLASTIC	Teeth						SH ZSH
SH2-10	ZSH2-10	10	21,00	25,00	25	24	12	10 26,97 € 13,52 €
SH2-15	ZSH2-15	15	31,50	35,50	25	25	15	12 31,81 € 17,61 €
SH2-18	ZSH2-18	18	37,80	41,80	30	30	15	12 35,00 € 19,40 €
SH2-20	ZSH2-20	20	42,00	46,00	30	30	15	12 36,63 € 23,07 €
SH2-22	ZSH2-22	22	46,20	50,20	35	30	15	12 38,29 € 24,13 €
SH2-24	ZSH2-24	24	50,40	54,40	35	30	15	12 39,95 € 30,24 €
SH2-25	ZSH2-25	25	52,50	56,50	35	30	15	12 42,14 € 31,85 €
SH2-30	ZSH2-30	30	63,00	67,00	40	30	20	12 48,11 € 41,27 €
SH2-32	ZSH2-32	32	67,20	71,20	40	30	20	12 52,27 € 44,82 €
SH2-35	ZSH2-35	35	73,50	77,50	50	30	20	12 57,76 € 52,38 €
SH2-40	ZSH2-40	40	84,00	88,00	50	35	20	12 65,98 € 59,91 €
SH2-45	ZSH2-45	45	94,50	98,50	50	35	20	15 71,04 € 71,66 €
SH2-48	ZSH2-48	48	100,80	104,80	50	35	20	15 76,48 € 84,91 €
SH2-50	ZSH2-50	50	105,00	109,00	50	35	20	15 81,82 € 90,83 €
SH2-55	ZSH2-55	55	115,50	119,50	50	35	20	15 95,85 € 106,37 €
SH2-56	ZSH2-56	56	117,60	121,60	50	35	20	15 97,88 € 118,56 €
SH2-60	ZSH2-60	60	126,00	130,00	50	35	20	15 104,25 € 126,54 €
SH2-65	ZSH2-65	65	136,50	140,50	50	40	20	15 114,55 € 150,30 €
SH2-70	ZSH2-70	70	147,00	151,00	50	40	20	15 121,22 € 159,03 €
SH2-75	ZSH2-75	75	157,50	161,50	50	50	20	15 149,97 € 227,78 €
SH2-80	-	80	168,00	172,00	50	-	20	- 181,63 € -
SH2-90	-	90	189,00	193,00	50	-	20	- 216,82 € -
SH2-100	-	100	210,00	214,00	50	-	20	- 269,51 € -
SH2-110	-	110	231,00	235,00	50	-	20	- 298,72 € -
SH2-120	-	120	252,00	256,00	50	-	20	- 347,11 € -

Gears available up to this size

SH2-280 ZSH2-280 280

dimensions: contact us

On request On request

Dimensions in mm

Parallel axis helical gear

DelSte 17°45' 1 2 3

**MODULE
2.5**

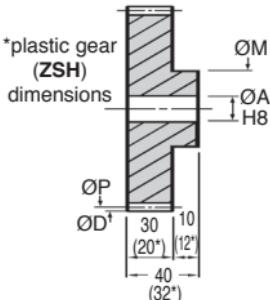
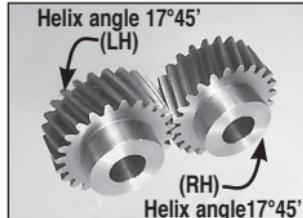
Steel or **machined plastic**

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	66.17	261.7	33.0
kW	6.94	27.4	3.5
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss		ØA Bore SH	Bore ZSH	Price each 1 to 5	
					SH	ZSH			SH	ZSH
SH2.5-10	ZSH2.5-10	10	26,25	31,25	30	30	12	10	37,12 €	20,71 €
SH2.5-15	ZSH2.5-15	15	39,38	44,38	30	30	15	12	42,20 €	25,06 €
SH2.5-20	ZSH2.5-20	20	52,50	57,50	40	30	20	12	50,25 €	38,02 €
SH2.5-22	ZSH2.5-22	22	57,75	62,75	40	30	20	12	53,31 €	45,64 €
SH2.5-25	ZSH2.5-25	25	65,63	70,63	40	30	20	12	59,29 €	50,83 €
SH2.5-26	ZSH2.5-26	26	68,25	73,25	45	30	20	12	62,31 €	53,40 €
SH2.5-30	ZSH2.5-30	30	78,75	83,75	45	45	20	15	69,72 €	63,35 €
SH2.5-35	ZSH2.5-35	35	91,88	96,88	45	45	20	15	78,36 €	79,09 €
SH2.5-36	ZSH2.5-36	36	94,50	99,50	45	45	20	17	82,59 €	83,31 €
SH2.5-40	ZSH2.5-40	40	105,00	110,00	50	45	20	17	89,52 €	90,30 €
SH2.5-45	ZSH2.5-45	45	118,13	123,13	50	45	20	17	96,40 €	106,97 €
SH2.5-46	ZSH2.5-46	46	120,75	125,75	50	45	20	17	98,60 €	109,46 €
SH2.5-50	ZSH2.5-50	50	131,25	136,25	50	45	20	17	108,96 €	120,92 €
SH2.5-53	ZSH2.5-53	53	139,13	144,13	50	45	20	17	112,46 €	136,24 €
SH2.5-55	ZSH2.5-55	55	144,38	149,38	50	45	20	17	124,72 €	150,78 €
SH2.5-57	ZSH2.5-57	57	149,63	154,63	50	60	20	20	129,24 €	156,46 €
SH2.5-60	ZSH2.5-60	60	157,50	162,50	50	60	20	20	135,24 €	201,32 €
SH2.5-65	ZSH2.5-65	65	170,63	175,63	50	60	20	20	185,22 €	268,02 €
SH2.5-70	ZSH2.5-70	70	183,75	188,75	50	60	20	20	225,53 €	314,72 €
SH2.5-75	ZSH2.5-75	75	196,88	201,88	50	60	20	20	284,04 €	595,20 €
SH2.5-80	-	80	210,00	215,00	50	-	20	-	305,12 €	-
SH2.5-90	-	90	236,25	241,25	50	-	20	-	340,12 €	-
SH2.5-100	-	100	262,50	267,50	50	-	20	-	434,52 €	-
SH2.5-110	-	110	288,75	293,75	50	-	20	-	500,24 €	-

Gears available up to this size

SH2.5-220 ZSH2.5-220 220

Dimensions: contact us

On request On request

Dimensions in mm

Steel or machined plastic

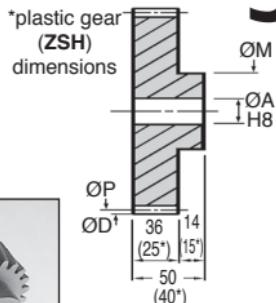
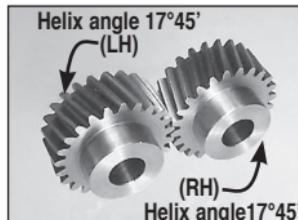
MODULE
3.0

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
Nm	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	114.2	451.9	57.12
kW	11.9	47.4	5.98
			-

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: a right handed gear only meshes with a left handed gear.

**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 PCD	ØD Outside	ØM SH	Boss ZSH	ØA Bore SH	ZSH	Price each 1 to 5
STEEL	PLASTIC	Teeth							SH ZSH
SH3-10	ZSH3-10	10	31,50	37,50	30	36	15	12	45,90 € 25,41 €
SH3-15	ZSH3-15	15	47,25	53,25	30	40	20	15	51,06 € 32,11 €
SH3-18	ZSH3-18	18	56,70	62,70	40	40	20	15	60,33 € 45,62 €
SH3-20	ZSH3-20	20	63,00	69,00	50	40	25	15	64,51 € 55,39 €
SH3-22	ZSH3-22	22	69,30	75,30	50	40	25	15	69,05 € 59,23 €
SH3-25	ZSH3-25	25	78,75	84,75	50	40	25	15	77,63 € 70,47 €
SH3-27	ZSH3-27	27	85,05	91,05	50	50	25	20	83,99 € 76,22 €
SH3-30	ZSH3-30	30	94,50	100,50	50	50	25	20	93,12 € 93,93 €
SH3-35	ZSH3-35	35	110,25	116,25	60	50	25	20	115,68 € 128,44 €
SH3-40	ZSH3-40	40	126,00	132,00	60	50	25	20	127,72 € 154,65 €
SH3-45	ZSH3-45	45	141,75	147,75	60	60	25	20	188,71 € 229,12 €
SH3-50	ZSH3-50	50	157,50	163,50	60	60	25	20	208,93 € 314,80 €
SH3-54	ZSH3-54	54	170,10	176,10	60	70	25	20	238,21 € 361,67 €
SH3-55	ZSH3-55	55	173,25	179,25	60	70	25	20	249,53 € 365,79 €
SH3-60	ZSH3-60	60	189,00	195,00	60	70	25	20	276,60 € 419,91 €
SH3-61	-	61	192,15	198,15	60	-	25	-	284,12 € -
SH3-62	-	62	195,30	201,30	60	-	25	-	291,59 € -
SH3-65	-	65	204,75	210,75	60	-	25	-	307,67 € -
SH3-70	-	70	220,50	226,50	60	-	25	-	355,88 € -
SH3-75	-	75	236,25	242,25	60	-	25	-	395,65 € -
SH3-80	-	80	252,00	258,00	60	-	25	-	441,46 € -
SH3-90	-	90	283,50	289,50	60	-	25	-	580,99 € -
SH3-92	-	92	289,80	295,80	60	-	25	-	599,09 € -
SH3-95	-	95	299,25	305,25	60	-	25	-	664,14 € -

↓ ↓ 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

Ste 17°45
1 2 3

MODULE 4.0

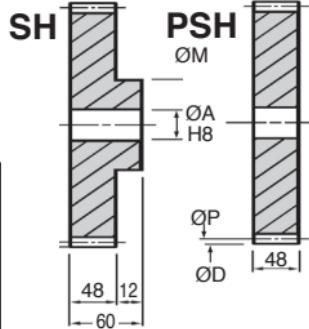
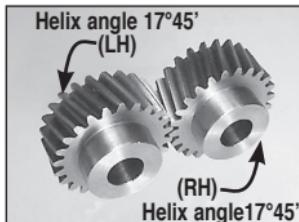
Steel

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	brass
Nm	338	1340	169
kW	35	140	17

- Gears are in permanent contact
- Reduced noise
- Pressure angle 20°
- Material: Steel 34C10

Info.

Important: a right handed gear only meshes with a left handed gear.



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
SH4-10	10	42,00	50,00	40	20	63,04 €
SH4-12	12	50,40	58,40	40	20	63,04 €
SH4-14	14	58,80	66,80	40	20	72,81 €
SH4-15	15	63,00	71,00	40	25	82,59 €
SH4-18	18	75,60	83,60	50	25	101,39 €
SH4-20	20	84,00	92,00	50	25	108,96 €
SH4-24	24	100,80	108,80	50	25	124,98 €
SH4-25	25	105,00	113,00	80	30	129,92 €
SH4-28	28	117,60	125,60	80	30	146,55 €
SH4-30	30	126,00	134,00	80	30	157,30 €
SH4-34	34	142,80	150,80	80	30	202,87 €
SH4-35	35	147,00	155,00	80	30	217,95 €
SH4-36	36	151,20	159,20	80	30	232,93 €
SH4-40	40	168,00	176,00	80	30	274,69 €
SH4-45	45	189,00	197,00	80	30	325,47 €
SH4-46	46	193,20	201,20	80	30	329,23 €
SH4-50	50	210,00	218,00	80	30	351,78 €
SH4-55	55	231,00	239,00	80	30	428,73 €
SH4-56	56	235,20	243,20	80	30	453,96 €
SH4-60	60	252,00	260,00	80	30	502,03 €
SH4-65	65	273,00	281,00	80	30	664,69 €
SH4-68	68	285,60	293,60	80	30	732,92 €
SH4-70	70	294,00	302,00	80	30	767,83 €
SH4-72	72	302,40	310,40	80	30	831,39 €



Gears available up to this size



SH4-135 135

Dimensions: contact us

On request On request

On request

Crossed axis
helical gears
p.315-p.353

Crossed axis helical gears



p.316



MODULE
0.4

Steel

TORQUE AND POWER INDICATION

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	hardened
Nm	0.056	0.375
kW	0.006	0.039

- Power transferred through 90°

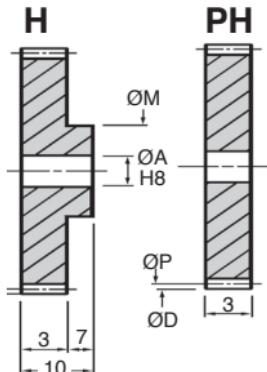
- Teeth are angled at 45° to the right

- Pressure angle 20°

- Material: Steel 34C10

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.

**DISCOUNTS**

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

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Price each 1 to 5
H0.4-10	10	5,66	6,46	6,46	2	14.80 €
H0.4-12	12	6,79	7,59	7,59	2	14.80 €
H0.4-15	15	8,49	9,29	9,29	2	14.57 €
H0.4-16	16	9,05	9,85	9,85	2	14.62 €
H0.4-20	20	11,31	12,11	8,00	3	14.90 €
H0.4-25	25	14,14	14,94	8,00	3	15,30 €
H0.4-26	26	14,71	15,51	8,00	3	15,37 €
H0.4-30	30	16,97	17,77	12,00	3	16,00 €
H0.4-35	35	19,80	20,60	12,00	3	16,74 €
H0.4-36	36	20,36	21,16	12,00	3	16,86 €
H0.4-40	40	22,63	23,43	12,00	4	17,52 €
H0.4-46	46	26,02	26,82	12,00	4	18,98 €
H0.4-50	50	28,28	29,08	12,00	4	19,20 €
H0.4-55	55	31,11	31,91	12,00	4	19,45 €
H0.4-56	56	31,68	32,48	12,00	4	19,45 €
H0.4-60	60	33,94	34,74	12,00	4	19,95 €
H0.4-65	65	36,77	37,57	12,00	4	20,95 €
H0.4-68	68	38,47	39,27	12,00	4	21,29 €
H0.4-70	70	39,60	40,40	12,00	4	21,74 €
H0.4-75	75	42,43	43,23	12,00	4	22,76 €
H0.4-80	80	45,25	46,05	12,00	5	22,93 €
H0.4-86	86	48,65	49,45	12,00	5	23,78 €
H0.4-90	90	50,91	51,71	12,00	5	26,88 €
H0.4-100	100	56,57	57,37	12,00	5	29,29 €
H0.4-120	120	67,88	68,68	12,00	5	34,21 €

Gears available up to this size

H0.4-246 246

Dimensions: contact us

on request

Dimensions in mm

On request

Steel or machined plastic

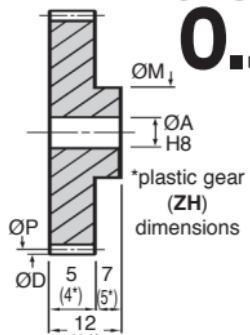
MODULE
0.5

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	0.127	0.705	0.03
kW	0.011	0.074	-

- Power transferred through 90°
- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.

**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 PCD	ØD Outside	ØM Boss H	ØA Bore H	Price each 1 to 5 H	ZH	
STEEL	PLASTIC	Teeth						
H0.5-10	-	10	7,07	8,07	8,07	-	15,83 €	-
H0.5-12	-	12	8,49	9,49	8,50	-	16,23 €	-
H0.5-14	ZH0.5-14	14	9,90	10,90	8,50	10	16,86 €	8,41 €
H0.5-15	ZH0.5-15	15	10,61	11,61	8,50	10	17,20 €	8,58 €
H0.5-20	ZH0.5-20	20	14,14	15,14	10,00	10	18,54 €	9,30 €
H0.5-25	ZH0.5-25	25	17,68	18,68	10,00	14	19,95 €	9,99 €
H0.5-26	ZH0.5-26	26	18,38	19,38	10,00	14	20,16 €	10,14 €
H0.5-30	ZH0.5-30	30	21,21	22,21	10,00	14	21,36 €	10,73 €
H0.5-35	ZH0.5-35	35	24,75	25,75	10,00	14	22,93 €	11,49 €
H0.5-36	ZH0.5-36	36	25,46	26,46	10,00	14	23,07 €	11,61 €
H0.5-40	ZH0.5-40	40	28,28	29,28	10,00	14	24,00 €	12,01 €
H0.5-46	ZH0.5-46	46	35,53	33,53	10,00	16	25,44 €	14,04 €
H0.5-50	ZH0.5-50	50	35,36	36,36	12,00	16	26,01 €	14,35 €
H0.5-56	ZH0.5-56	56	39,60	40,60	12,00	16	26,76 €	16,74 €
H0.5-60	ZH0.5-60	60	42,43	43,43	12,00	16	27,31 €	17,20 €
H0.5-64	ZH0.5-64	64	45,25	46,25	12,00	16	28,09 €	17,61 €
H0.5-70	ZH0.5-70	70	49,50	50,50	12,00	16	28,19 €	21,36 €
H0.5-75	ZH0.5-75	75	53,03	54,03	12,00	16	34,13 €	25,79 €
H0.5-80	ZH0.5-80	80	56,57	57,57	12,00	16	34,13 €	25,79 €
H0.5-90	ZH0.5-90	90	63,64	64,64	12,00	18	40,78 €	34,97 €
H0.5-100	ZH0.5-100	100	70,71	71,71	16,00	18	45,06 €	40,90 €
H0.5-120	ZH0.5-120	120	84,85	85,85	20,00	18	50,14 €	45,49 €
H0.5-140	-	140	98,99	99,99	20,00	-	54,77 €	-
H0.5-150	-	150	106,07	107,07	20,00	-	59,71 €	-
H0.5-180	-	180	127,26	128,28	20,00	-	66,96 €	-

**Gears available up to this size**

H0.5-196 ZH0.5-196 196

Dimensions: contact us

on request on request

Dimensions in mm

Crossed helical gear crossed axis à 90°

Ste 90°

MODULE 0.7

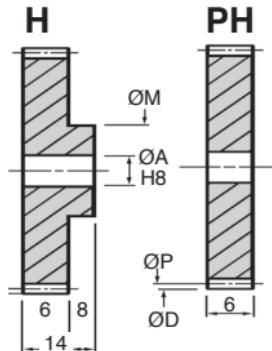
Steel

TORQUE AND POWER INDICATION	
For 50 teeth at 1000 rpm	
34C10 Z10CNF18.09	34C10 hardened
Nm 0.272	1.791
kW 0.028	0.188

- Power transferred through 90°
- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.



DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Price each 1 to 5 H	Price each 1 to 5 PH
H0.7-9	9	8,91	10,31	10,31	4	17,60 €	
H0.7-10	10	9,90	11,30	11,30	4	18,37 €	
H0.7-15	15	14,85	16,25	12,00	5	20,67 €	
H0.7-16	16	15,84	17,24	12,00	5	on request	
H0.7-18	18	17,82	19,22	12,00	5	21,52 €	
H0.7-20	20	19,80	21,20	12,00	5	21,97 €	
H0.7-25	25	24,75	26,15	12,00	5	22,40 €	
H0.7-26	26	25,74	27,14	12,00	5	22,45 €	
H0.7-30	30	29,70	31,10	16,00	6	22,79 €	
H0.7-35	35	34,65	36,05	16,00	6	23,41 €	
H0.7-36	36	35,64	37,04	16,00	6	23,49 €	
H0.7-40	40	39,60	41,00	16,00	6	24,06 €	
H0.7-46	46	45,54	46,94	16,00	6	25,11 €	
H0.7-50	50	49,50	50,90	16,00	6	26,30 €	
H0.7-55	55	54,45	55,85	16,00	6	27,21 €	
H0.7-56	56	55,44	56,84	16,00	6	27,21 €	
H0.7-60	60	59,40	60,80	16,00	6	28,96 €	
H0.7-66	66	65,34	66,74	16,00	6	34,36 €	
H0.7-70	70	69,30	70,70	20,00	8	36,43 €	
H0.7-75	75	74,25	75,65	20,00	8	41,48 €	
H0.7-80	80	79,20	80,60	20,00	8	49,79 €	
H0.7-90	90	89,10	90,50	20,00	8	52,06 €	
H0.7-100	100	98,99	100,39	20,00	10	61,53 €	
H0.7-120	120	118,97	120,19	20,00	10	70,83 €	

↓ Gears available up to this size ↓

H0.7-140	140	138,59	139,99	30,00	12	On request
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Dimensions in mm

On request

Steel or machined plastic

MODULE
0.8

TORQUE AND POWER INDICATION

For 50 teeth at 1000 rpm

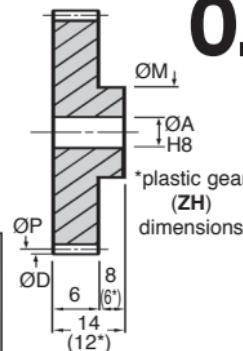
	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	0.395	2.596	0.10
kW	0.041	0.272	-

- Power transferred through 90°

- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.

**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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss H ZH	ØA Bore H ZH	Price each 1 to 5 H ZH
H0.8-9	-	9	11,31	12,91	9 -	5 -	17,60 € -
H0.8-10	-	10	11,31	12,91	9 -	5 -	18,37 € -
H0.8-15	ZH0.8-15	15	16,97	18,57	12 14	5 4	20,67 € 10,16 €
H0.8-16	ZH0.8-16	16	18,10	19,70	12 14	5 4	20,91 € 10,16 €
H0.8-20	ZH0.8-20	20	22,63	24,23	12 14	5 4	21,97 € 10,64 €
H0.8-25	ZH0.8-25	25	28,28	29,88	16 16	6 5	22,40 € 11,14 €
H0.8-26	ZH0.8-26	26	29,42	31,02	16 16	6 5	22,45 € 11,14 €
H0.8-30	ZH0.8-30	30	33,94	35,44	16 16	6 5	22,79 € 12,54 €
H0.8-35	ZH0.8-35	35	39,60	41,20	16 16	6 5	23,24 € 12,79 €
H0.8-36	ZH0.8-36	36	40,73	42,33	16 16	6 5	23,41 € 12,87 €
H0.8-40	ZH0.8-40	40	45,25	46,85	16 16	6 5	24,00 € 14,90 €
H0.8-45	ZH0.8-45	45	50,91	52,51	16 16	6 5	24,70 € 18,46 €
H0.8-50	ZH0.8-50	50	56,57	58,17	16 16	6 5	26,62 € 18,84 €
H0.8-56	ZH0.8-56	56	63,36	64,96	16 16	6 5	29,21 € 22,93 €
H0.8-60	ZH0.8-60	60	67,88	69,48	20 18	8 6	30,31 € 23,25 €
H0.8-66	ZH0.8-66	66	74,67	76,27	20 18	8 6	32,59 € 24,58 €
H0.8-70	ZH0.8-70	70	79,20	80,80	20 18	8 8	34,05 € 27,33 €
H0.8-76	ZH0.8-76	76	75,24	76,64	20 18	8 8	36,43 € 38,57 €
H0.8-80	ZH0.8-80	80	90,51	92,11	20 18	8 8	41,48 € 42,42 €
H0.8-86	ZH0.8-86	86	97,30	98,90	20 18	8 6	49,79 € 33,10 €
H0.8-90	ZH0.8-90	90	101,82	103,42	20 20	10 10	51,38 € 56,37 €
H0.8-100	ZH0.8-100	100	113,14	114,74	20 20	10 10	62,77 € 56,37 €
H0.8-112	-	112	126,71	128,31	30 -	12 -	79,73 € -
H0.8-120	-	120	135,76	137,36	30 -	12 -	79,73 € -

↓ ↓ Gears available up to this size ↓ ↓

H0.8-122	ZH0.8-122	122	Dimensions: contact us	On request	On request
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Dimensions in mm

MODULE 1.0

Steel or **machined plastic**

TORQUE AND POWER INDICATION

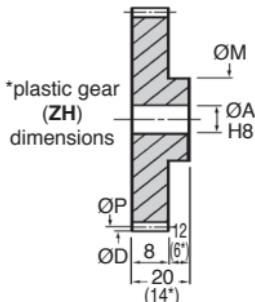
For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	0.747	4.908	0.18
kW	0.078	0.518	-

- Power transferred through 90°
- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss H	ØM Boss ZH	ØA Bore H	ØA Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H1-9	ZH1-9	9	14,14	16,14	11	12	6	4	81,94 €	7,80 €
H1-10	ZH1-10	10	14,14	16,14	11	12	6	4	16,10 €	8,04 €
H1-15	ZH1-15	15	21,21	23,21	15	18	6	6	18,18 €	9,12 €
H1-16	ZH1-16	16	22,63	24,63	15	18	6	6	18,28 €	9,12 €
H1-20	ZH1-20	20	28,28	30,28	15	18	6	6	21,24 €	11,68 €
H1-25	ZH1-25	25	35,36	37,36	20	18	8	6	23,15 €	12,79 €
H1-26	ZH1-26	26	36,77	38,77	20	18	8	6	23,44 €	12,93 €
H1-30	ZH1-30	30	42,43	44,43	20	18	8	6	25,02 €	15,79 €
H1-35	ZH1-35	35	49,50	51,50	20	18	8	6	28,09 €	21,18 €
H1-36	ZH1-36	36	50,91	52,91	20	22	8	8	28,48 €	21,44 €
H1-40	ZH1-40	40	56,57	58,57	20	22	8	8	30,66 €	23,17 €
H1-46	ZH1-46	46	65,05	67,05	20	22	8	8	35,85 €	30,73 €
H1-50	ZH1-50	50	70,71	72,71	25	22	10	8	38,49 €	33,02 €
H1-56	ZH1-56	56	79,20	81,20	25	22	10	8	42,58 €	38,62 €
H1-60	ZH1-60	60	84,85	86,85	25	22	10	8	44,13 €	40,06 €
H1-66	ZH1-66	66	93,34	95,34	25	26	10	8	50,35 €	50,83 €
H1-70	ZH1-70	70	98,99	100,99	25	26	10	10	51,06 €	56,76 €
H1-76	ZH1-76	76	107,48	109,45	25	26	10	10	63,88 €	62,63 €
H1-80	ZH1-80	80	113,14	115,14	25	26	10	10	72,22 €	77,10 €
H1-84	ZH1-84	84	118,79	120,79	25	26	10	12	72,22 €	77,10 €
H1-90	ZH1-90	90	127,28	129,28	30	30	12	12	81,94 €	77,10 €
H1-100	ZH1-100	100	141,42	143,42	30	30	12	12	96,12 €	112,76 €
H1-120	-	120	169,71	171,71	40	-	15	-	110,28 €	-
H1-130	-	130	183,85	185,85	50	-	20	-	120,93 €	-
H1-150	-	150	212,13	214,13	50	-	20	-	138,76 €	-

Gears available up to this size

H1-420 ZH1-420 420 Dimensions: contact us on request on request

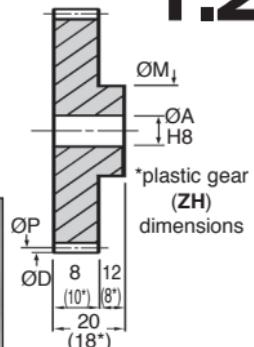
Dimensions in mm

TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	1.386	9.108	0.4
kW	0.145	0.954	-

- Power transferred through 90°
- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.

**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 PCD	ØD Outside	ØM Boss H	ØA Bore H	Price each 1 to 5 H	ZH
STEEL	PLASTIC	Teeth	PCD	H	ZH		
H1.25-10	ZH1.25-10	10	17,68	20,18	15	6	5 21,42 € 10,73 €
H1.25-16	ZH1.25-16	16	28,28	30,78	20	8	6 25,41 € 14,04 €
H1.25-17	ZH1.25-17	17	30,05	32,55	20	8	6 26,41 € 14,56 €
H1.25-20	ZH1.25-20	20	35,36	37,86	20	8	9 29,26 € 16,15 €
H1.25-22	ZH1.25-22	22	38,89	41,39	20	8	9 31,47 € 19,79 €
H1.25-25	ZH1.25-25	25	44,19	46,69	20	8	9 33,82 € 27,19 €
H1.25-28	ZH1.25-28	28	49,50	52,00	20	8	8 35,00 € 26,45 €
H1.25-30	ZH1.25-30	30	53,03	55,53	20	8	8 35,55 € 26,86 €
H1.25-32	ZH1.25-32	32	56,57	59,07	20	8	8 35,94 € 27,19 €
H1.25-33	ZH1.25-33	33	58,34	60,84	20	8	8 36,17 € 31,02 €
H1.25-36	ZH1.25-36	36	63,64	66,14	20	8	8 37,77 € 32,40 €
H1.25-40	ZH1.25-40	40	70,71	73,21	25	10	10 42,61 € 36,47 €
H1.25-45	ZH1.25-45	45	79,55	82,05	25	10	10 47,15 € 42,78 €
H1.25-50	ZH1.25-50	50	88,39	90,89	25	10	10 50,74 € 51,25 €
H1.25-56	ZH1.25-56	56	98,99	101,49	25	10	10 57,57 € 64,50 €
H1.25-60	ZH1.25-60	60	106,07	108,57	25	10	10 63,84 € 71,08 €
H1.25-66	ZH1.25-66	66	116,67	119,17	25	10	10 77,56 € 91,29 €
H1.25-70	ZH1.25-70	70	123,74	126,24	25	12	10 80,84 € 92,52 €
H1.25-76	-	76	134,35	136,85	25	12	- 87,89 € -
H1.25-80	-	80	141,42	143,92	25	12	- 90,57 € -
H1.25-84	ZH1.25-84	84	148,49	150,99	30	30	15 95,76 € 135,32 €
H1.25-90	ZH1.25-90	90	159,10	161,60	30	30	15 99,76 € 164,23 €
H1.25-96	-	96	169,71	172,21	30	15	- 107,33 € -

↓ ↓ Gears available up to this size ↓ ↓

H1.25-100	100	176,78	179,28	30	-	15	-	on request	-
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Dimensions in mm

Crossed helical gear crossed axis à 90° DelSte 90°

**MODULE
1.5**

Steel or **machined plastic**

TORQUE AND POWER INDICATION

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	2.32	15.28	0.7
kW	0.24	1.60	-

- Power transferred through 90°

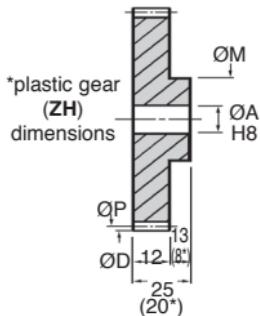
- Teeth are angled at 45° to the right

- Pressure angle 20°

- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss		ØA Bore H	Price each 1 to 5 H	Price each 1 to 5 ZH
					H	ZH			
H1.5-10	ZH1.5-10	10	21,21	24,21	17	20	8	8	20,44 € 10,24 €
H1.5-14	ZH1.5-14	14	29,70	32,70	20	25	10	8	24,28 € 13,43 €
H1.5-15	ZH1.5-15	15	31,82	34,82	20	25	10	8	25,12 € 13,65 €
H1.5-16	ZH1.5-16	16	33,94	36,94	25	25	12	8	25,79 € 13,94 €
H1.5-20	ZH1.5-20	20	42,43	45,43	30	25	15	8	30,24 € 19,08 €
H1.5-22	ZH1.5-22	22	46,67	49,67	30	28	15	10	32,21 € 20,30 €
H1.5-25	ZH1.5-25	25	53,03	56,03	40	28	15	10	34,86 € 26,31 €
H1.5-26	ZH1.5-26	26	55,15	58,15	40	28	15	10	35,62 € 26,97 €
H1.5-28	ZH1.5-28	28	59,40	62,40	40	30	15	12	37,94 € 28,70 €
H1.5-30	ZH1.5-30	30	63,64	66,64	40	30	15	12	38,04 € 32,61 €
H1.5-32	ZH1.5-32	32	67,88	70,88	40	30	15	12	39,67 € 33,98 €
H1.5-35	ZH1.5-35	35	74,25	77,25	40	30	15	12	46,35 € 39,74 €
H1.5-36	ZH1.5-36	36	76,37	79,37	40	36	15	12	47,76 € 43,31 €
H1.5-40	ZH1.5-40	40	84,85	87,85	40	36	15	12	50,77 € 46,16 €
H1.5-46	ZH1.5-46	46	97,58	100,58	40	36	15	12	56,53 € 62,70 €
H1.5-50	ZH1.5-50	50	106,07	109,07	40	48	15	12	61,53 € 68,30 €
H1.5-56	ZH1.5-56	56	118,79	121,79	40	48	15	12	73,75 € 89,43 €
H1.5-60	ZH1.5-60	60	127,28	130,28	40	48	15	12	83,88 € 95,97 €
H1.5-65	ZH1.5-65	65	137,89	140,89	40	48	15	12	92,77 € 119,09 €
H1.5-70	ZH1.5-70	70	148,49	151,49	40	48	15	15	107,68 € 134,72 €
H1.5-80	-	80	169,71	172,71	40	-	15	-	136,39 € -

Gears available up to this size

H1.5-83 ZH1.5-83 83 Dimensions: contact us on request on request

Dimensions in mm

Steel or **machined plastic****MODULE
2.0**

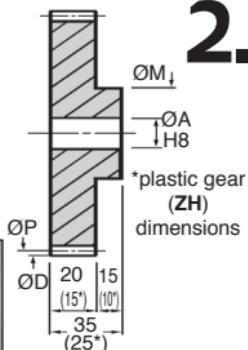
TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	5.20	34.18	1.5
kW	0.54	3.58	-

- Power transferred through 90°

- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.

**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 PCD	ØD Outside	ØM Boss H	ØA Bore H	Price each 1 to 5 H
STEEL	PLASTIC	Teeth	PCD	H	ZH	ZH
H2-10	ZH2-10	10	28,28	32,28	22	25 30,29 € 16,74 €
H2-15	ZH2-15	15	42,43	46,43	30	30 36,43 € 27,55 €
H2-16	ZH2-16	16	45,25	49,25	30	30 37,16 € 28,09 €
H2-20	ZH2-20	20	56,57	59,57	40	35 43,76 € 37,53 €
H2-25	ZH2-25	25	70,71	74,71	50	35 58,04 € 52,68 €
H2-26	ZH2-26	26	73,54	77,54	50	45 58,76 € 53,43 €
H2-30	ZH2-30	30	84,85	88,85	50	45 65,57 € 66,23 €
H2-35	ZH2-35	35	98,99	102,99	50	45 77,94 € 86,72 €
H2-36	ZH2-36	36	101,82	105,82	50	45 79,46 € 88,51 €
H2-40	ZH2-40	40	113,14	117,14	50	45 95,08 € 105,76 €
H2-45	ZH2-45	45	127,28	131,28	50	60 109,10 € 132,49 €
H2-46	ZH2-46	46	130,11	134,11	50	60 110,94 € 134,72 €
H2-50	ZH2-50	50	141,42	145,42	50	60 121,83 € 174,79 €
H2-55	ZH2-55	55	155,56	159,56	50	60 157,62 € 212,13 €
H2-60	ZH2-60	60	169,71	173,71	50	60 186,04 € 246,50 €
H2-65	ZH2-65	65	183,85	187,85	50	60 221,02 € 290,88 €
H2-70	ZH2-70	70	197,99	201,99	50	60 256,72 € 485,56 €
H2-76	-	76	214,96	218,96	50	- 284,47 € -
H2-86	-	86	243,24	247,24	50	- 352,28 € -
H2-90	-	90	254,56	258,56	50	- 416,37 € -
H2-96	-	96	271,53	275,53	50	- 459,36 € -
H2-100	-	100	282,84	286,84	50	- 511,28 € -
H2-110	-	110	311,13	315,13	50	- 575,18 € -
H2-120	-	120	339,41	343,41	50	- 626,14 € -

**Gears available up to this size**

H2-210 ZH2-210 210

Dimensions: contact us

on request on request

Dimensions in mm

MODULE 2.5

Steel or **machined plastic**

TORQUE AND POWER INDICATION

For 50 teeth at 1000 rpm

	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	9.71	63.84	3.0
kW	1.02	6.69	-

- Power transferred through 90°

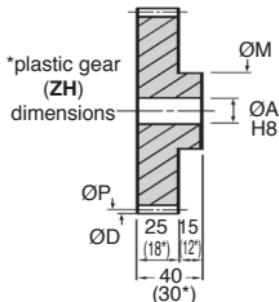
- Teeth are angled at 45° to the right

- Pressure angle 20°

- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.



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 STEEL	Part number PLASTIC	Z Teeth	ØP PCD	ØD Outside	ØM Boss H	Boss ZH	ØA Bore H	Bore ZH	Price each 1 to 5 H	Price each 1 to 5 ZH
H2.5-10	ZH2.5-10	10	35,36	40,36	28	30	15	12	40,21 €	22,26 €
H2.5-12	ZH2.5-12	12	42,43	47,43	30	30	15	12	43,45 €	27,33 €
H2.5-15	ZH2.5-15	15	53,03	58,03	40	36	20	12	50,77 €	38,44 €
H2.5-17	ZH2.5-17	17	60,10	65,10	40	45	20	12	56,49 €	48,38 €
H2.5-20	ZH2.5-20	20	70,71	75,71	50	45	20	15	64,21 €	55,02 €
H2.5-22	ZH2.5-22	22	77,78	82,78	50	45	20	15	70,45 €	63,91 €
H2.5-25	ZH2.5-25	25	88,39	93,39	50	50	20	15	78,67 €	71,45 €
H2.5-30	ZH2.5-30	30	106,07	111,07	50	50	20	17	91,86 €	102,14 €
H2.5-32	ZH2.5-32	32	113,14	118,14	50	50	20	17	98,37 €	109,16 €
H2.5-35	ZH2.5-35	35	123,74	128,74	50	65	20	17	106,06 €	128,85 €
H2.5-40	ZH2.5-40	40	141,42	146,42	50	65	20	20	126,72 €	166,24 €
H2.5-42	ZH2.5-42	42	148,49	153,49	50	65	20	20	128,83 €	169,01 €
H2.5-45	ZH2.5-45	45	159,10	164,10	50	65	20	20	164,58 €	246,36 €
H2.5-46	ZH2.5-46	46	162,63	167,63	50	65	20	20	164,58 €	286,27 €
H2.5-50	ZH2.5-50	50	176,78	181,78	50	65	20	20	227,86 €	345,95 €
H2.5-55	ZH2.5-55	55	194,45	199,45	50	65	20	20	285,48 €	355,67 €
H2.5-56	-	56	197,99	202,99	50	-	20	-	290,58 €	-
H2.5-60	-	60	212,13	217,13	50	-	20	-	296,13 €	-
H2.5-66	-	66	233,35	238,35	50	-	20	-	348,70 €	-
H2.5-70	-	70	247,49	252,49	50	-	20	-	413,77 €	-
H2.5-76	-	76	268,70	273,70	50	-	20	-	476,42 €	-
H2.5-80	-	80	282,84	287,84	50	-	20	-	518,95 €	-
H2.5-90	-	90	318,20	323,20	50	-	20	-	593,50 €	-
H2.5-96	-	96	339,41	344,41	50	-	20	-	632,03 €	-
H2.5-100	-	100	353,55	358,55	50	-	20	-	674,58 €	-

Gears available up to this size

H2.5-165 ZH2.5-165 165

Dimensions: contact us

on request on request

Dimensions in mm

Steel or machined plastic

MODULE
3.0

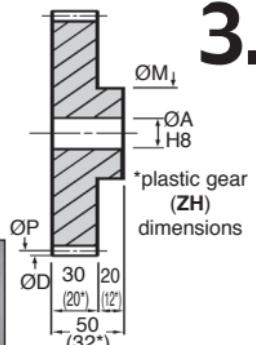
TORQUE AND POWER INDICATION			
For 50 teeth at 1000 rpm			
	34C10 Z10CNF18.09	34C10 hardened	delrin
Nm	16.17	106.3	5.0
kW	1.69	11.17	-

- Power transferred through 90°

- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10 or delrin plastic

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.

**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 PCD	ØD Outside	ØM Boss H	Bore ZH	ØA Bore H	Price each 1 to 5 H	Price each 1 to 5 ZH
STEEL	PLASTIC	Teeth						
H3-9	ZH3-9	9	42,43	48,43	34	36	20	15
H3-10	ZH3-10	10	42,43	48,43	34	40	20	15
H3-15	ZH3-15	15	63,64	69,64	50	48	25	15
H3-16	ZH3-16	16	67,88	73,88	50	48	25	15
H3-20	ZH3-20	20	84,85	90,85	60	60	25	20
H3-25	ZH3-25	25	106,07	112,07	60	60	25	20
H3-26	ZH3-26	26	110,31	116,31	60	60	25	20
H3-30	ZH3-30	30	127,28	133,28	60	60	25	20
H3-34	ZH3-34	34	144,25	150,25	60	60	25	20
H3-35	ZH3-35	35	148,49	154,49	60	60	25	20
H3-36	ZH3-36	36	152,74	158,74	60	60	25	20
H3-40	ZH3-40	40	169,71	175,71	60	80	25	20
H3-45	ZH3-45	45	190,92	196,92	60	80	25	20
H3-46	ZH3-46	46	195,16	201,16	60	80	25	20
H3-50	ZH3-50	50	212,13	218,13	60	80	25	20
H3-55	-	55	233,35	239,35	60	-	25	-
H3-56	-	56	237,59	243,59	60	-	25	-
H3-60	-	60	254,56	260,56	60	-	25	-
H3-65	-	65	275,77	281,77	60	-	25	-
H3-68	-	68	288,50	294,50	60	-	25	-
H3-70	-	70	296,98	302,98	60	-	25	-
H3-76	-	76	322,44	328,44	60	-	25	-
H3-80	-	80	339,41	345,41	60	-	25	-
H3-86	-	86	364,87	370,87	60	-	25	-
H3-90	-	90	381,84	387,84	60	-	25	-

**Gears available up to this size**

H3-140 ZH3-140 140

Dimensions: contact us

on request on request

Dimensions in mm

Crossed helical gear crossed axis à 90°

Ste 90° 1 2 3

MODULE 4.0

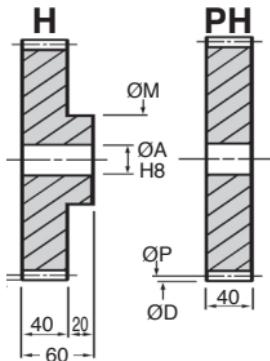
Steel

TORQUE AND POWER INDICATION	
For 50 teeth at 1000 rpm	
34C10 Z10CNF18.09	34C10 hardened
Nm 36.07	237.1
kW 3.78	24.84

- Power transferred through 90°
- Teeth are angled at 45° to the right
- Pressure angle 20°
- Material: Steel 34C10

Info.

Important: A helical gear with a 45° RH angle meshes with a second identically angled gear.



DISCOUNTS

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

Part number	Z Teeth	ØP PCD	ØD Outside	ØM Boss	ØA Bore	Price each 1 to 5 H	Price each 1 to 5 PH
H4-10	10	56,57	64,57	45	25	81,60 €	
H4-12	12	67,88	75,88	50	25	91,94 €	
H4-15	15	84,85	92,85	50	25	114,47 €	
H4-16	16	90,51	98,51	80	30	116,73 €	
H4-18	18	101,82	109,82	80	30	128,83 €	
H4-20	20	113,14	121,14	80	30	144,51 €	
H4-22	22	124,45	132,45	80	30	168,86 €	
H4-25	25	141,42	149,42	80	30	221,86 €	
H4-26	26	147,08	155,08	80	30	235,22 €	
H4-28	28	158,39	166,39	80	30	260,53 €	
H4-30	30	169,71	177,71	80	30	299,98 €	
H4-32	32	181,02	189,02	80	30	313,55 €	
H4-35	35	197,99	205,99	80	30	335,01 €	
H4-36	36	203,65	211,65	80	30	343,24 €	
H4-38	38	214,96	222,96	80	30	376,00 €	
H4-40	40	226,27	234,27	80	30	442,32 €	
H4-42	42	237,59	245,59	80	30	483,29 €	
H4-45	45	254,56	262,56	80	30	607,39 €	
H4-46	46	260,22	268,22	80	30	654,58 €	
H4-48	48	271,53	279,53	80	30	697,95 €	
H4-50	50	282,84	290,84	80	30	773,04 €	
H4-55	55	311,13	319,13	80	30	1 008,18 €	
H4-56	56	316,78	324,78	80	30	1 066,66 €	
H4-58	58	328,10	336,10	80	30	1 168,95 €	
H4-60	60	339,41	347,41	80	30	1 217,62 €	

↓ Gears available up to this size ↓

H4-100 100

Dimensions: contact us

on request

Dimensions in mm

On request

STANDARD PARTS ADAPTED TO YOUR NEEDS

Modifications		Steel	Plastic
Bore-size (mm) free for 20 or more	< Ø25 Ø25 to Ø50 ≥ Ø50	9,50 € 17,20 € 54,70 €	2,20 € 4,10 € 12,00 €
Keyway (mm)	< 8 8 to 18 ≥ 20	7,70 € 13,80 € 25,00 €	2,10 € 5,70 € 10,70 €
Tapped hole	< M8 ≥ M8	4,80 € 6,00 €	1,55 € 2,50 €
Pinhole (mm)	< Ø8 ≥ Ø8	2,50 € 4,00 €	1,10 € 1,55 €



If you have had a breakdown, send us your worn or broken parts

- 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.

CONTACT
us for a
quote

If you require gears manufactured from a drawing

		GEAR CHARACTERISTICS	
◎ Ø204	A	Module	
		Pressure angle	
		Number of teeth	
		Helical angle	
		Pitch diameter	
		Precision class	9
		Centre distance	
• Gearing width	A	Gear	Drawing n°
• General tolerance		Material	
• Attachment method		Other information	
- Keyway			
- Pin			
- Screw			

Custom-made gears

Maximum sizes of made to measure parts

	Module / Pitch	Max. sizes (mm)
SPUR GEARS HELICAL GEARS	Module 0.25 to module 6	Ø600
INTERNAL GEARS	Module 0.25 to module 4	External Ø300
WORMS	Module 0.25 to module 4 from Ø10 x length 10mm to Ø60 x length 500mm	Length 300
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
	AT	Pitch 2.5mm to 20mm
	HTD	Pitch 3mm to 8mm
CHAIN PINIONS	SINGLE	Pitch 4mm to 19.05mm
	DOUBLE	
	TRIPLE	

Only given as an indication
Please contact us for more information.

Through-hardening

Principle:

In general, through-hardening consists of exposing the metal to a cycle of high-temperature heating followed by controlled cooling. Through-hardening is often the first step of a more complex treatment in which the metal will subsequently be tempered. The consequence of this treatment is a notable improvement in the hardness of the steel.

Through-hardening is followed by tempering, a process that consists in heating the hardened metal (at a temperature lower than that used in the through-hardening process itself) in order to remove any tensions that may remain in the metal.

This cycle of through-hardening and tempering can only be carried out on steels that contain sufficient carbon, such as 35NCD6. Gears made of 35NCD6 through-hardened to 45-50 HRC have a good resistance to wear.

Case-hardening

Principle:

Case-hardening involves using an appropriate powder, paste, liquid or gas to enrich the carbon 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.

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.

Heat treatments

This table indicates the various processes that will be used for heat treating gears.

MATERIAL	CARBON DIFFUSION	HEATING TEMPERATURE	COOLING METHOD	HARDNESS OBTAINED	TEMPERING
THROUGH-HARDENING					
60C40		830/860°C	Maintain at 210-230°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
XC38		810/840°C	Maintain at 210-230°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
42 CD4		860/890°C	Maintain at 210-230°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 690°C then allow to cool for 1h in open air or in oven
35NCD6		820/850°C	Maintain at 180-200°C in oil bath 1h/25 mm	40-45 HRc	Maintain at 650°C then allow to cool for 1h in open air or in oven
CASE-HARDENING					
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 Stainless steel	34 C10	Delrin Brass CuZn40Pb3 TUFNOL Z10 CNF 18.09 (303) Z6 CND 17.12 (316)	
WORMWHEELS:	Bronze	CuAl10NiFe4	Delrin	Tufnol Cast Iron
WORMS:	34 C10	Delrin	Brass	
CHAINS AND SPROCKETS:	34 C10	Delrin	Steel	Stainless steel
PULLEYS:	Aluminium 6082	34 C10	Stainless	Z10CNF 18.09 (303)
BEVEL GEARS:	60 C40	Delrin	Stainless	Z10 CNF 18.09 (303)
RACKS:	60 C40 Stainless steel	34 C10 Z10 CNF 18.09 (303)	Delrin	Brass
SPECIAL MATERIALS				
60 C40 42 CD4 35 NCD 6 35 NCD 14 100 C6 34 C10 20 NCD 2 Z12 CF 13 30CD12 Z10 CNF 18.09	{ Very resistant}		Can be through or induction-hardened. Hardness 50-55 HRc	
ALUMINIUM DELRIN NYLON PHOSPHOR BRONZE BRASS TUFNOL	{ }	Can be case-hardened 57-62 HRc. Stainless steel can be through-hardened to 35-45 HRc. Nitriding steel Stainless steel	Maximum working temperature: 140°C Maximum working temperature: 160°C	Maximum working temperature: 130°C

Material information

MATERIALS	Properties	Tensile strength N/mm ²	Elongation after fracture %	Proof stress 02% N/mm ²	Surface stress Sc	Bending stress S _b
Nylon 66		0.62-0.82	20% - 200% 60%	—	500	3900
Delrin (polyoxymethylene)		69	—	—	500	3900
Tufnol	Fine fibres	68	—	—	560	4500
Cast iron	GR17 (260)	260	6% - 8%	—	1400	9000
Aluminium alloy	HR15N	295		230	500	13000
Aluminium bronze CuAl10NiFe4		420-720	18% - 40%	140 -660	900	9000
Phosphor bronze CuSn12		360-500	6.25% 18%	170 - 280	700	7000
34C10		430	—	—	1400	17000
34C10 Case-hardened	Surface hardness	—	5% - 13%	—	9200	40000
35NCD6		850-1550	—	635 - 1125	3000	32000
35NCD6 Hardened	By induction or through-hardening	—	—	—	5000	26500
20NCD2 Case-hardened	Surface hardness	—	35% - 40%	—	11000	50000
Z10CNF18 09 Stainless steel 303		480-510	16%-17%	180-200	1800	20000
60C40		510-550		-	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

DEGREES OF HARDNESS IN HRc	DEGREES OF HARDNESS IN HRb	DEGREES OF HARDNESS IN VICKERS	DEGREES OF HARDNESS IN BRINNEL	N/mm ²	AFNOR MATERIALS:		
-20	67	114	114	400	XC18		
-9	74	131	131	460	34C10		
1	83	154	156	560	60 C40	Stainless 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	ASTM Verification	Homo-polymer "Delrin"	Properties	ASTM Verification	Homo-polymer "Delrin"
Density	D 792	1.42g/cm ³	at 1% deformation at 10% deformation Izod impact strength	D 256	36 N/mm ² 124 N/mm ²
Tensile strength at -55°C at +23°C at +70°C at +100°C at +122°C	D 628	101 N/mm ² 69 N/mm ² 48 N/mm ² 36 N/mm ² 26 N/mm ²	Unnotched Notched -40°C Notched +23°C Tensile impact strength	D 1822	no break 96 J/m 23 J/m 350 kJ/m ²
Elongation at break at -55°C at +23°C at +70°C at +100°C at +122°C	D 638	0.38 % 75 % 230 % < 260 % > 260 %	Deformation under load (14Nmm ² at 50°C) Hardness (Rockwell)	D 621 D 785	0.5 % M94 - R120
Tensile E modulus	D 638	3100 N/mm ²	Water absorption	D 570	
Shear strength	D 732	66N/mm ₂	24h immersion Equilibrium 50 % RH		0.25 % 0.22 %
Flexural modulus at -55°C at +23°C at +70°C at +100°C at +122°C	D790	3650 N/mm ² 2620 N/mm ² 1550 N/mm ² 895 N/mm ² 620 N/mm ²	Equilibrium, continuous immersion Coefficient of dynamic	D 1894	0.90 %
Flexural fatigue endurance limit	D 671	32N/mm ²	friction against steel - dry water lubricated oil lubricated against brass against aluminium against polyacetal Flammability	-61 T UL 94	0.10 - 0.30 0.10 - 0.20 0.05 - 0.10 0.15 0.15 0.35 HB
Melting point	D 2133	175°C	Thermal conductivity		0.37W/mK
Deflection temperature under flexural load 1.8 N/mm ² 0.5 N/mm ²	D 648	136°C 172°C	Specific heat		1.47 kJ/kgK
Coefficient of linear thermal expansion	D696		Maximum continuous use temperature in air +90°C in water		+65°C
from -40°C to +30°C from -30°C to +60°C from +60°C to +105°C from +105°C to +150°C		10.4 1x10 ⁻⁵ °C 12.2 1x10 ⁻⁵ °C 13.7 1x10 ⁻⁵ °C 14.9 1x10 ⁻⁵ °C	Maximum intermittent use temperature in air +150°C in water Minimum continuous		+80°C
Volume resistivity	D257	10 ¹⁵ ohm.cm	use temperature		-40°C
Surface resistivity	D257	10 ¹³ ohm.cm	Dielectric strength	D149	20 kV/mm
Dissipation factor	D150	0.05 MHz	short-time (2.3mm sheet)		
Compressive stress	D 695		Dielectric constant	D150	3.7 10 ⁻¹⁰ Hz

Cross reference for International standards

FRENCH AFNOR STANDARDS	DIN SYMBOLS	GERMAN WERKSTÖFF STANDARDS	BRITISH STANDARDS		AMERICAN STANDARDS	% Carbon
			NEW	OLD		
	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	070M55	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 (Stainless)	0.09/0.15
Z10CNF18.09	X10CrNiS189	1.4305	303S21	EN58	303 (Stainless)	
Z6CND17.12	X5CrNiMo17133	1.4436	316S16	EN58J	316 (Stainless)	
20NCD2	21NiCrMo2	1.6523	805M20			0.17/0.23

Mechanical characteristics

Materials	WERKSTÖFF Classification	Elastic limit Re (N/mm ²)	Tensile strength Rm (N/mm ²)	Elongation Lo = 5do A%	Break lateral contraction Z%	J Resilience
Case-hardening steel (ø30mm)	34C10	1.0301	295	490-640	16	45
	20NCD2	1.6523	590	780-1080	10	40
Improved steel (ø30mm)	60C40	1.1186	400	630-780	18	35
	35NCD6	1.6582	900	1100-1300	10	45

Materials (Values for cross-section of small dimensions)	WERKSTÖFF Classification	Elastic limit Rp _{0.2} at 0.2% et Rp _{0.1} at 0.1% (N/mm ²)	Tensile strength Rm (N/mm ²)	Elongation Lo = 5do A%	Break lateral contraction Z%	J Resilience
Stainless steel Z10CNF18.09 (303)	1.4305	195-230	500-700	35	60	85
Stainless steel Z2CNF18.10 (304)	1.4306	180-215	460-680	45	60	85
Stainless steel Z6CND17.12 (316)	1.4401	205-240	510-710	40	60	85

Source : the steel key

SPECIAL MAINTENANCE

Too much wear, bad handling or an accident can cause your plant or machine to stop working

Send us your worn or broken units for replacement by new ones. Whatever state the original is in, our technical team will be able to propose a solution



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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: ± 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 $-0/+0.05$ mm.**

Nominal distance between centres

$$\frac{\text{PCD } \varnothing \text{ gear A} + \text{PCD } \varnothing \text{ gear B}}{2}$$

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 are supplied and must be used in pairs
- Can be noisy, use helical bevel or spiral bevel gears if noise is a problem

Reduction ratios:

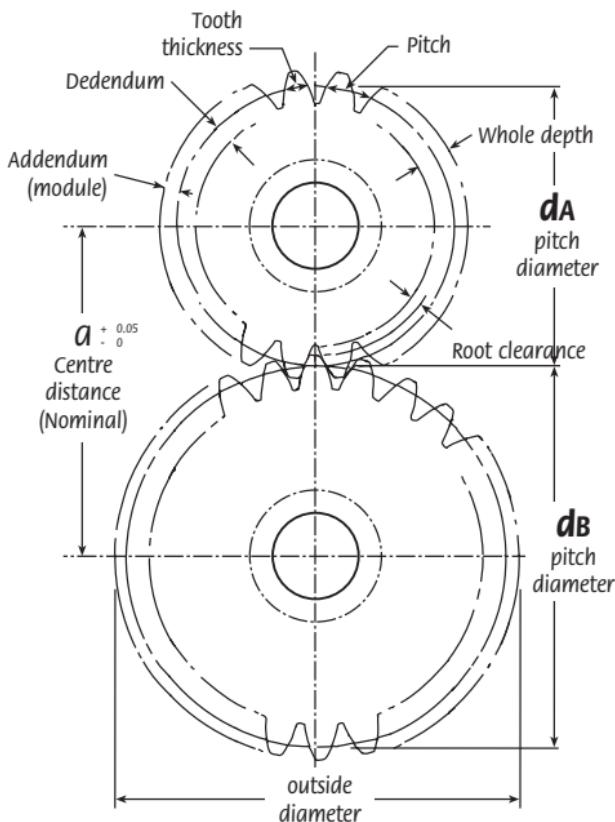
The calculation of speed ratios is the same for all three types of gear:

$$\frac{W_1}{W_2} = \frac{Z_2}{Z_1}$$

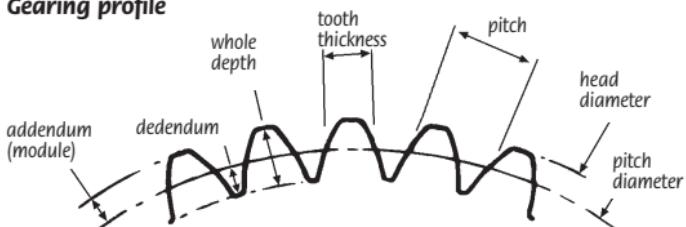
W1: Input speed Z1: Number of teeth on input gear

W2: Output speed Z2: Number of teeth on output gear

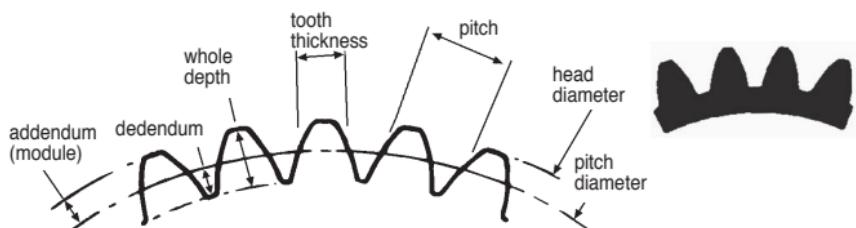
Cylindrical gears



Gearing profile



Tooth sizes



*MODULE 1.25 to 6

MODULE (m)	PITCH (p)	TOOTH THICKNESS	ADDENDUM	DEDENDUM	WHOLE DEPTH
	$\pi \times m$	$\frac{\pi \times m}{2}$	= 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

Spur gears: some formulae

A right hand cylindrical gear is defined by its number of teeth 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**

$$\text{Nominal distance between centres} = \frac{\text{PCD } \varnothing \text{ gear A} + \text{PCD } \varnothing \text{ gear B}}{2}$$

Helical gears: some formulae

Standard gearing :

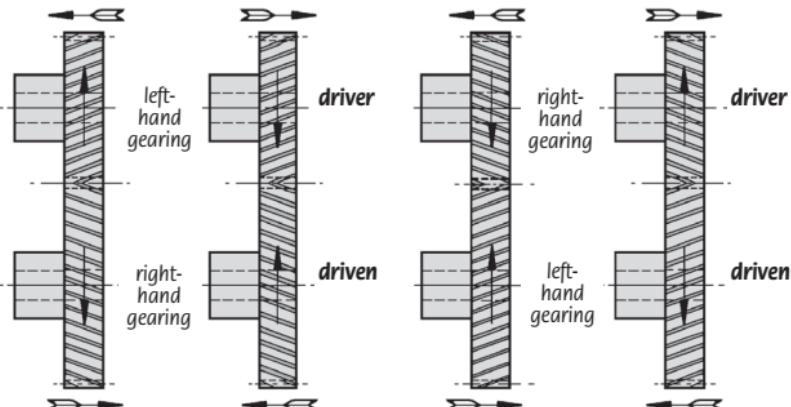
	Symbols	Formulae	Units
Module	m	$p \div \pi$	mm
Pitch	p	$m \times \pi$	mm
PCD	d	$Z \cdot m + \cos\beta$	mm
Outside diameter	D	$d + (2 \times m)$	mm
Number of teeth	Z	$\frac{d \times \cos\beta}{m}$	
Addendum	ha	m	mm
Lead	Pz	$d \times \pi \div \tan\beta$	mm

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 $17^{\circ}45'$ and are not compatible with gears inclined at any other angle.



Parallel axis:



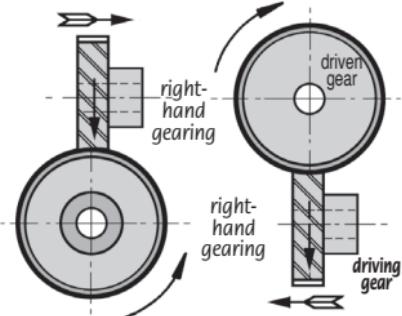
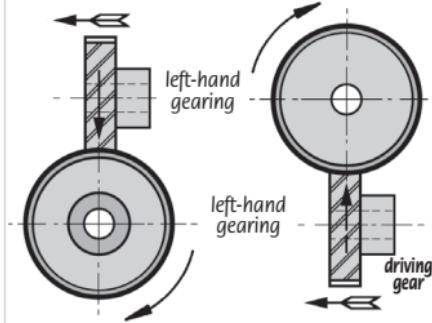
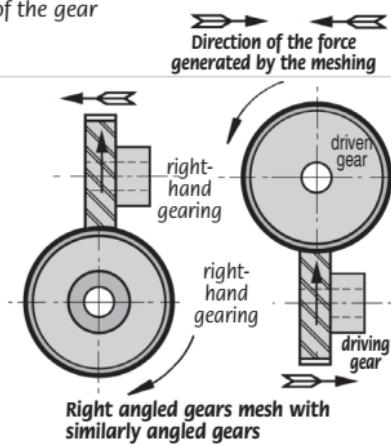
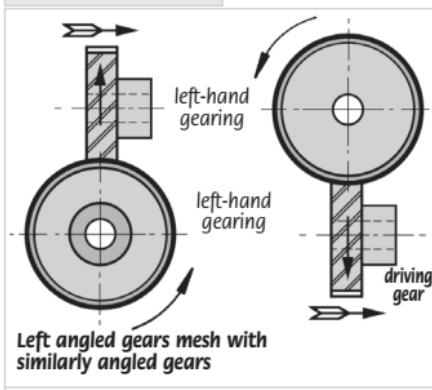
Helical gears: some formulae



Crossed helical gears:

- The 45° angle of the teeth on crossed helical gears allows movement to transmitted at 90°
- Right angled gears mesh with similarly angled gears
- Helical gears generate a thrust along the axis of the gear

Crossed axis:



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	Symboles	Formules	Unités
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.

Torque (Nm)	Material	Shaft diameter (mm)											
		Ø6	Ø10	Ø12	Ø15	Ø17	Ø20	Ø25	Ø30	Ø40	Ø50	Ø75	Ø100
Soft steel													
XC18	1.50	6.60	11.50	23	34	55	105	180	440	840	2800	6600	
XC65													
35000 kN/m ²													
60 C40	1.90	8.50	15	28	43	70	135	230	550	1000	3600	8500	
Z10CNF18.09													
45000 kN/m ²													
42CD4	2.50	12.00	20	39	56	95	180	310	750	1500	4800	12000	
20NCD2													
60000 kN/m ²													

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)

	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 1.0
Spur gear										
G/PG/SSG/HG (34C10, stainless steel)	0.05	0.07	0.147	0.391	0.63	0.6	0.99	1	1.91	2.6
G/PG	0.23	0.32	0.698	1.85	2.91	3.2	4L57	5	8.82	12
YG/XG (34C10 hardened)	-	-	-	-	-	-	-	4	-	10.6
YG/XG (35NCD6, 20NCD2)	-	-	-	-	-	-	-	5.8	-	15.5
YG/XG (35NCD6 hardened)	-	-	-	-	-	-	-	11	-	29.3
YG/XG (20NCD2 hardened)	-	-	-	0.195	-	-	-	0.54	-	1.25
GB (Brass)	-	-	0.04	0.1	-	-	-	0.3	-	0.7
Helical gear										
SH/PSH (34C10)	-	-	0.28	0.53	-	1.73	-	2.25	-	4.23
SH/PSH (34C10 hardened)	-	-	1.12	2.09	-	6.83	-	8.92	-	16.74
ZSH/ZPSH (Delrin)	-	-	-	0.13	-	0.4	-	0.5	-	1
H/PH (34C10)	-	-	0.056	0.127	-	0.272	-	0.395	-	0.747
H/PH (34C10 hardened)	-	-	0.375	0.705	-	1.791	-	2.596	-	4.908
ZH/ZPH(Delrin)	-	-	-	0.03	-	-	-	0.1	-	0.18
Worm and wheel										
M/PM and W/SW (Bronze/steel)	-	-	0.57	1.01	-	-	-	2.82	-	5.87
M/PM and WH/SWH (Bronze/treated steel)	-	-	1	1.86	-	-	-	5.26	-	10.06
ZM/ZPM and ZW/ZSW (Delrin)	-	-	0.14	0.25	-	-	-	0.7	-	1.32
ZM/ZPM and W/SW (Delrin/steel)	-	-	0.36	0.65	-	-	-	1.84	-	3.42

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

C Speed variation

Speed (rpm)	COEF.C
2000	0.85
1000	1.00
500	1.15
100	1.54
10	2.38

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

Note : for worms and wheels, only use B, C, and D.

D Variation in working time

Hours of work per day (H)	COEF.D
24	0.90
12	1.00
6	1.10
3	1.22
1	1.44
1/2	1.58

	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 1.0
Spur gear										
G/PG/SSG/HG (34C10, stainless steel)	3.8	8.88	16	25	48	88	200	294	441	918
G/PG (34C10 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 (34C10)	6.61	12.71	-	33.89	66.17	114.2	338	-	-	-
SH/PSH (34C10 hardened)	43.45	50.29	-	134	261.7	451.9	1340	-	-	-
ZSH/ZPSH (Delrin)	1.5	3	-	8	12	20	-	-	-	-
H/PH (34C10)	1.386	2.32	-	5.2	9.71	16.17	36.07	-	-	-
H/PH (34C10 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	-	-	-

Calculs

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

B

Variation in number of teeth of the driven gear:

Fixed parameters

Speed of driving gear: 1000 rpm

50 tooth driven 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 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

$$\{[(0.395 \times 0.50) \times 1.27] \times 1.15\} \times 1.1 \neq 0.317 \text{ Nm}$$

C_0	A	B	C	D
-------	-----	-----	-----	-----

Spur gear calculations

PITCH FACTOR	
MODULE	'K'
0.5	23.00
0.6	20.00
0.75	16.70
0.9	14.60
1	13.40
1.25	11.20
1.5	9.87
1.75	8.60
2	8.00
2.5	6.50
3	5.60
4	4.40
5	3.70

USE FACTOR		
HOURS OF WORK PER DAY	FACTOR X	
	WEAR	RESISTANCE
24	0.80	0.90
12	1.00	1.00
6	1.25	1.10
3	1.65	1.20
1	2.20	1.40
0.5	2.90	1.60

SPEED COEFFICIENT										
rpm	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

'Z' VALUE		NUMBER OF TEETH OF THE DRIVING GEAR						
		12	16	20	25	30	40	50
NUMBER OF TEETH OF THE DRIVEN GEAR	12	1.00	1.12	1.18	1.22	1.23	1.24	1.25
	16	1.12	1.26	1.38	1.44	1.49	1.52	1.59
	20	1.18	1.38	1.52	1.62	1.66	1.75	1.89
	25	1.22	1.44	1.62	1.75	1.84	2.00	2.20
	30	1.23	1.49	1.66	1.84	1.98	2.20	2.35
	40	1.24	1.52	1.75	2.00	2.20	2.50	2.75
	50	1.25	1.60	1.89	2.20	2.35	2.75	3.00
	Rack	1.49	2.05	2.55	3.20	3.60	4.70	5.60

Calculation of the forces that spur and helical gears can withstand

The following formulae allow you to calculate the resistance to wear (1) and resistance to force (2), both of which must be taken into account when designing a system.

Resistance to wear	Resistance to force
$(1) F_U = \frac{X \times Z \times S_c \times L}{5.71 \times K}$	$(2) F_E = \frac{X \times S_b \times Mod \times L}{242}$

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.

$$(3) C_A = F_U \times R \quad \text{or} \quad (4) C_A = F_E \times R$$

R = Pitch radius = Pitch diameter/2 (in m)

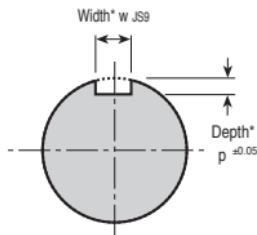
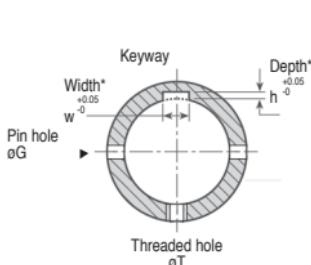
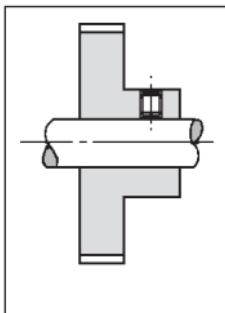
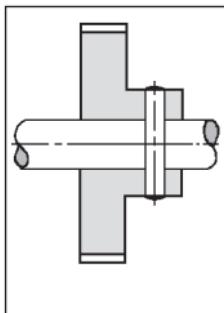
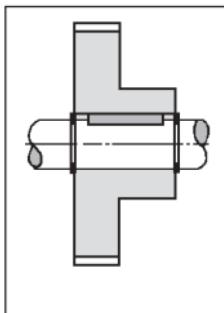
C_A : Admissible torque (in Nm)

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.

Fixing gears

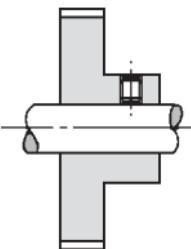
Dimensions of machined items for different shaft diameters



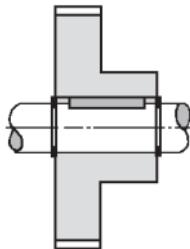
Shaft or bore diameter from Ø up to Ø (inclusive)	Keyway			Pin hole diameter ϕG	Tapped hole ϕT
	W (mm)	h(mm)	p(mm)		
Ø4 - Ø6	-	-	-	1.50	M3
Ø6 - Ø8	2	1.07	1.25	2.00	M3
Ø8 - Ø10	3	1.50	1.85	3.00	M3
Ø10 - Ø12	4	1.86	2.55	4.00	M4
Ø12 - Ø17	5	2.35	3.05	5.00	M5
Ø17 - Ø22	6	2.83	3.55	6.00	M6
Ø22 - Ø30	8	3.34	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

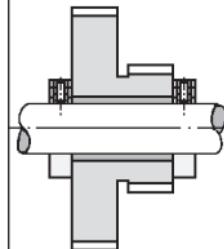
Set screw



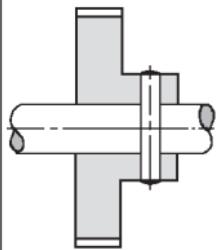
Key. circlip



Self-lubricating bushing

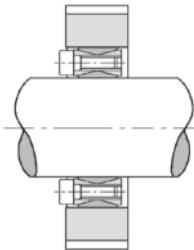


Gear & pinion pinned

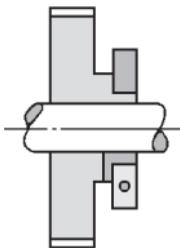


And also technicians
to help you on
+33(0)437 496 496

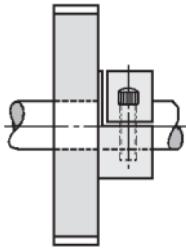
Internal clamp



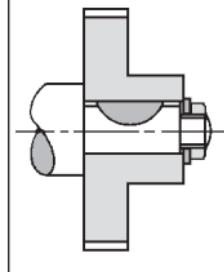
Gear clamp



Integral gearclamp



Woodruff key and
lock nut fixing



Precision
bevel gears
p.356-p.357

Bevel
gears



p.356

**RATIO
1:1****Bevel 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.

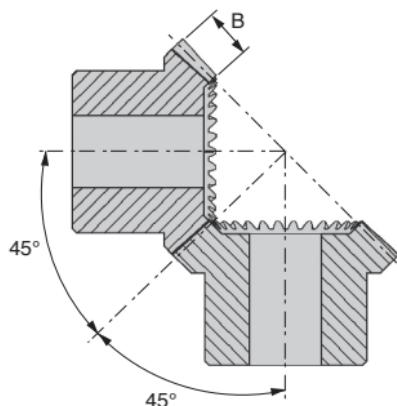
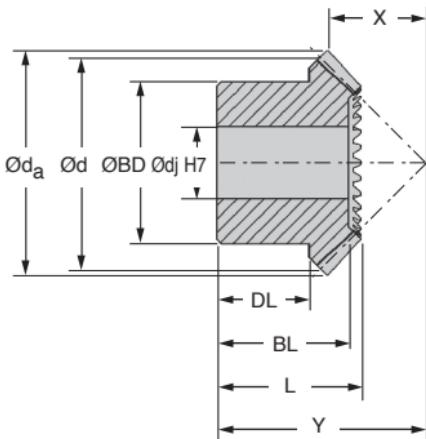
- Torque figures are for 100 rpm and are given as a guide only
- A pair requires 2 gears



Quality grade 7f24

Part number	Steel	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



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Ødj (H7)	BL	L	BD	DL	X	Torque Steel	Torque Stainless steel	Weight (kg)	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
6	13,0	14,0	12	9	8,58	0,69	0,94	0,041	43,62 €	63,28 €
8	16,0	17,0	18	10	11,43	1,56	2,95	0,031	52,22 €	75,75 €
8	18,5	20,0	22	12	14,29	2,95	1,77	0,059	60,56 €	87,84 €
10	23,0	25,0	35	14	21,44	8,94	5,36	0,186	72,12 €	104,57 €
12	28,0	30,5	40	15	28,59	20,14	12,08	0,363	89,58 €	129,92 €
25	34,5	39,0	50	20	31,17	24,62	14,77	0,430	118,98 €	172,58 €

Dimensions in mm

Precision
warm and
wheels
p.360-p.383

Steel worm and
wheel



p.360

Plastic worm and
wheel



p372

PW Worm and wheel set

Worm available in pre-treated or stainless steel

MODULE 0.5

- Quality grade 7e DIN 58405

- Pressure angle: 20°

- Material:

Pre-treated steel 35NCD6, 28 HRC

Stainless steel 303

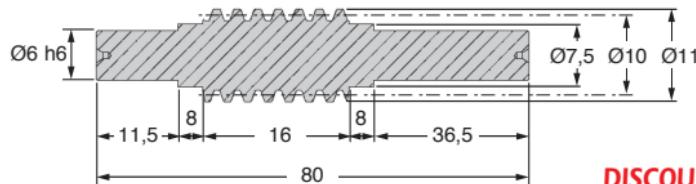
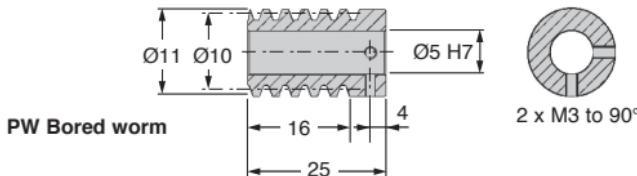
- Tooth thickness conforms to DIN 58405

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Steel		No of starts	Price each 1 to 5	
	Steel	Stainless steel		Steel	Stainless steel
Bored worm					
PW0.5-1	PW0.5-1S		1	37,90 €	47,83 €
PW0.5-2	PW0.5-2S		2	39,90 €	47,83 €
PW0.5-3	PW0.5-3S		3	39,90 €	47,83 €
PW0.5-4	PW0.5-4S		4	39,90 €	47,83 €
Shaft worm					
PSW0.5-1	PSW0.5-1S		1	70,62 €	84,79 €
PSW0.5-2	PSW0.5-2S		2	70,62 €	84,79 €
PSW0.5-3	PSW0.5-3S		3	70,62 €	84,79 €
PSW0.5-4	PSW0.5-4S		4	70,62 €	84,79 €

Dimensions in mm

Worm and wheel set

PWG

Bronze wheel

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

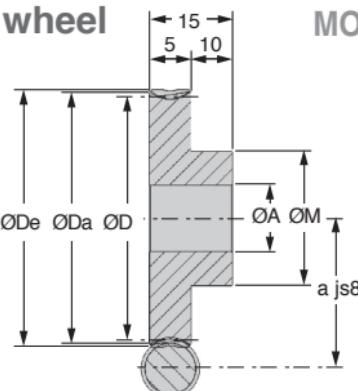
- Hole for dowel pin

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 PWG0,5-4, 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	36,69	€
PWG0,5-19-1	19	9,75	9,50	10,50	11,00	4	8,00	0,073 - 0,031	1,55	37,70	€
PWG0,5-20-1	20	10,00	10,00	11,00	11,50	4	8,00	0,073 - 0,031	1,63	38,56	€
PWG0,5-21-1	21	10,25	10,50	11,50	12,00	4	8,00	0,075 - 0,030	1,71	39,08	€
PWG0,5-22-1	22	10,50	11,00	12,00	12,50	4	8,00	0,075 - 0,030	1,80	39,41	€
PWG0,5-23-1	23	10,75	11,50	12,50	13,00	4	8,00	0,075 - 0,030	1,88	36,64	€
PWG0,5-24-1	24	11,00	12,00	13,00	13,50	5	10,00	0,075 - 0,030	1,96	37,31	€
PWG0,5-25-1	25	11,25	12,50	13,50	14,00	5	10,00	0,080 - 0,033	2,04	41,34	€
PWG0,5-26-1	26	11,50	13,00	14,00	14,50	5	10,00	0,080 - 0,033	2,12	41,52	€
PWG0,5-27-1	27	11,75	13,50	14,50	15,00	5	10,00	0,080 - 0,033	2,20	41,72	€
PWG0,5-28-1	28	12,00	14,00	15,00	15,50	5	10,00	0,080 - 0,033	2,28	41,95	€
PWG0,5-29-1	29	12,25	14,50	15,50	16,00	6	12,50	0,080 - 0,033	2,37	42,00	€
PWG0,5-30-1	30	12,50	15,00	16,00	16,50	6	12,50	0,080 - 0,033	2,45	42,11	€
PWG0,5-32-1	32	13,00	16,00	17,00	17,50	6	12,50	0,080 - 0,033	2,61	43,89	€
PWG0,5-35-1	35	13,75	17,50	18,50	19,00	6	12,50	0,080 - 0,033	2,86	45,76	€
PWG0,5-40-1	40	15,00	20,00	21,00	21,50	6	15,00	0,080 - 0,033	3,26	51,22	€
PWG0,5-45-1	45	16,25	22,50	23,50	24,00	6	15,00	0,080 - 0,033	3,67	52,88	€
PWG0,5-48-1	48	17,00	24,00	25,00	25,50	6	15,00	0,080 - 0,033	3,92	54,69	€
PWG0,5-50-1	50	17,50	25,00	26,00	26,50	6	15,00	0,080 - 0,033	4,08	55,46	€
PWG0,5-55-1	55	18,75	27,50	28,50	29,00	6	15,00	0,087 - 0,033	4,53	59,56	€
PWG0,5-60-1	60	20,00	30,00	31,00	31,50	8	20,00	0,087 - 0,033	4,98	65,30	€
PWG0,5-65-1	65	21,25	32,50	33,50	34,00	8	20,00	0,087 - 0,033	5,43	70,29	€
PWG0,5-68-1	68	22,00	34,00	35,00	35,50	8	20,00	0,087 - 0,033	5,70	72,81	€
PWG0,5-70-1	70	22,50	35,00	36,00	36,50	8	20,00	0,087 - 0,033	5,89	75,36	€
PWG0,5-72-1	72	23,00	36,00	37,00	37,50	8	20,00	0,087 - 0,033	6,07	77,88	€
PWG0,5-75-1	75	23,75	37,50	38,50	39,00	8	20,00	0,087 - 0,033	6,35	80,40	€
PWG0,5-78-1	78	24,50	39,00	40,00	40,50	8	30,00	0,087 - 0,033	6,62	83,08	€
PWG0,5-80-1	80	25,00	40,00	41,00	41,50	8	30,00	0,087 - 0,033	6,81	85,81	€

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

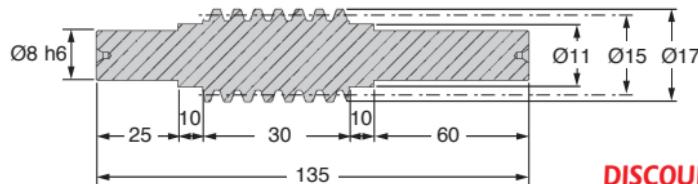
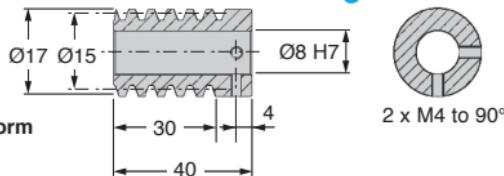
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



quality grade 7e25



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Steel	Stainless steel	No of starts	Price each 1 to 5	Steel	Stainless steel
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Bored worm

PW1.0-1	PW1.0-1S	1	52,64 €	63,17 €
PW1.0-2	PW1.0-2S	2	52,64 €	63,17 €
PW1.0-3	PW1.0-3S	3	52,64 €	63,17 €
PW1.0-4	PW1.0-4S	4	52,64 €	63,17 €

Shaft worm

PSW1.0-1	PSW1.0-1S	1	85,14 €	102,19 €
PSW1.0-2	PSW1.0-2S	2	85,14 €	102,19 €
PSW1.0-3	PSW1.0-3S	3	85,14 €	102,19 €
PSW1.0-4	PSW1.0-4S	4	85,14 €	102,19 €

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)

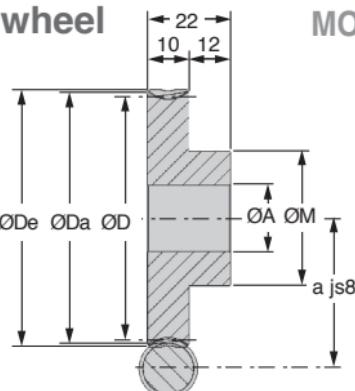
- Tooth thickness conforms to DIN 3967

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	56,35 €
PWG1.0-16-1	16	15,50	16	18	19	5	12	0,112 - 0,042	2,31	57,71 €
PWG1.0-17-1	17	16,00	17	19	20	5	12	0,112 - 0,042	2,57	58,09 €
PWG1.0-18-1	18	16,50	18	20	21	5	12	0,112 - 0,042	2,85	58,76 €
PWG1.0-19-1	19	17,00	19	21	22	5	12	0,112 - 0,042	3,14	58,96 €
PWG1.0-20-1	20	17,50	20	22	23	5	12	0,112 - 0,042	3,45	59,31 €
PWG1.0-21-1	21	18,00	21	23	24	5	12	0,112 - 0,042	3,76	59,64 €
PWG1.0-22-1	22	18,50	22	24	25	5	12	0,114 - 0,040	4,09	60,25 €
PWG1.0-23-1	23	19,00	23	25	26	5	12	0,114 - 0,040	4,43	60,81 €
PWG1.0-24-1	24	19,50	24	26	27	6	20	0,114 - 0,040	4,79	62,53 €
PWG1.0-25-1	25	20,00	25	27	28	6	20	0,114 - 0,040	5,15	65,19 €
PWG1.0-26-1	26	20,50	26	28	29	6	20	0,114 - 0,040	5,53	65,99 €
PWG1.0-27-1	27	21,00	27	29	30	6	20	0,114 - 0,040	5,92	67,23 €
PWG1.0-28-1	28	21,50	28	30	31	6	20	0,114 - 0,040	6,32	67,68 €
PWG1.0-29-1	29	22,00	29	31	32	8	25	0,114 - 0,040	6,73	68,82 €
PWG1.0-30-1	30	22,50	30	32	33	8	25	0,114 - 0,040	7,15	69,82 €
PWG1.0-35-1	35	25,00	35	37	38	8	25	0,114 - 0,040	9,44	84,39 €
PWG1.0-40-1	40	27,50	40	42	43	10	35	0,114 - 0,040	12,00	99,09 €
PWG1.0-45-1	45	30,00	45	47	48	10	35	0,114 - 0,040	14,84	114,94 €
PWG1.0-48-1	48	31,50	48	50	51	10	35	0,116 - 0,038	16,67	122,97 €
PWG1.0-50-1	50	32,50	50	52	53	10	35	0,116 - 0,038	17,94	132,30 €
PWG1.0-52-1	52	33,50	52	54	55	10	35	0,136 - 0,048	19,25	134,44 €
PWG1.0-55-1	55	35,00	55	57	58	10	35	0,136 - 0,048	21,29	139,07 €
PWG1.0-60-1	60	37,50	60	62	63	10	40	0,136 - 0,048	24,90	145,70 €
PWG1.0-65-1	65	40,00	65	67	68	10	40	0,136 - 0,048	28,76	157,64 €
PWG1.0-70-1	70	42,50	70	72	73	10	40	0,136 - 0,048	32,87	170,14 €
PWG1.0-75-1	75	45,00	75	77	78	10	40	0,136 - 0,048	37,21	178,41 €
PWG1.0-80-1	80	47,50	80	82	83	10	50	0,136 - 0,048	41,80	216,37 €

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

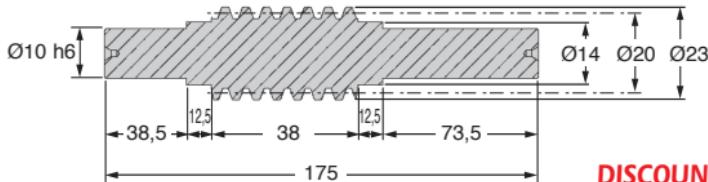
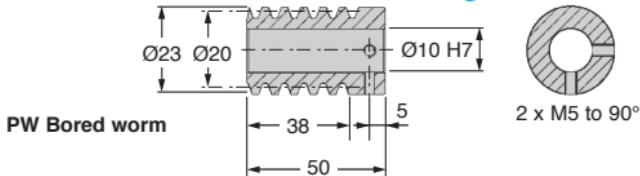
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



quality grade 7e25

**DISCOUNTS**

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Steel	Stainless steel	No of starts	Price each 1 to 5	Steel	Stainless steel
Bored worm						
PW1.5-1	PW1.5-1S		1	58,42 €	75,96 €	
PW1.5-2	PW1.5-2S		2	58,42 €	75,96 €	
PW1.5-3	PW1.5-3S		3	58,42 €	75,96 €	
PW1.5-4	PW1.5-4S		4	58,42 €	75,96 €	
Shaft worm						
PSW1.5-1	PSW1.5-1S		1	99,33 €	129,13 €	
PSW1.5-2	PSW1.5-2S		2	99,33 €	129,13 €	
PSW1.5-3	PSW1.5-3S		3	99,33 €	129,13 €	
PSW1.5-4	PSW1.5-4S		4	99,33 €	129,13 €	

Dimensions in mm

Worm and wheel set

PWG

Bronze wheel

MODULE 1.5

- Quality grade 7e25 DIN 3974

- Pressure angle: 20°

- Material: Bronze CA104 (CuAl10Ni5Fe4)

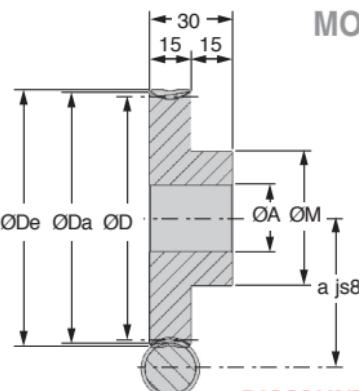
- Tooth thickness conforms to DIN 3967

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	a	ØD	ØDa	ØDe	Bore	ØA	ØM	Theoretical backlash (mm)	Torque (Nm)	Price each (1 to 5)
									Max. - Min.		
PWG1.5-15-1	15	21,25	22,50	25,50	27,00	6	20	0,114 - 0,040	5,29	79,98 €	
PWG1.5-16-1	16	22,00	24,00	27,00	28,50	6	20	0,114 - 0,040	5,95	82,69 €	
PWG1.5-17-1	17	22,75	25,50	28,50	30,00	6	20	0,114 - 0,040	6,63	84,31 €	
PWG1.5-18-1	18	23,50	27,00	30,00	31,50	6	20	0,114 - 0,040	7,35	85,42 €	
PWG1.5-19-1	19	24,25	28,50	31,50	33,00	6	20	0,114 - 0,040	8,10	86,92 €	
PWG1.5-20-1	20	25,00	30,00	33,00	34,50	6	20	0,114 - 0,040	8,89	88,11 €	
PWG1.5-21-1	21	25,75	31,50	34,50	36,00	8	25	0,114 - 0,040	9,70	89,49 €	
PWG1.5-22-1	22	26,50	33,00	36,00	37,50	8	25	0,114 - 0,040	10,72	90,96 €	
PWG1.5-23-1	23	27,25	34,50	37,50	39,00	8	25	0,114 - 0,040	11,62	92,21 €	
PWG1.5-24-1	24	28,00	36,00	39,00	40,50	8	25	0,114 - 0,040	12,54	94,06 €	
PWG1.5-25-1	25	28,75	37,50	40,50	42,00	8	25	0,114 - 0,040	13,72	96,80 €	
PWG1.5-26-1	26	29,50	39,00	42,00	43,50	8	25	0,114 - 0,040	14,72	98,33 €	
PWG1.5-27-1	27	30,25	40,50	43,50	45,00	8	25	0,117 - 0,038	15,89	100,30 €	
PWG1.5-28-1	28	31,00	42,00	45,00	46,50	8	25	0,117 - 0,038	16,96	101,71 €	
PWG1.5-29-1	29	31,75	43,50	46,50	48,00	10	35	0,117 - 0,038	18,07	103,87 €	
PWG1.5-30-1	30	32,50	45,00	48,00	49,50	10	35	0,117 - 0,038	19,36	106,63 €	
PWG1.5-35-1	35	36,25	52,50	55,50	57,00	10	35	0,137 - 0,048	25,55	132,50 €	
PWG1.5-40-1	40	40,00	60,00	63,00	64,50	12	45	0,137 - 0,048	32,49	161,95 €	
PWG1.5-45-1	45	43,75	67,50	70,50	72,00	12	45	0,137 - 0,048	40,80	202,48 €	
PWG1.5-48-1	48	46,00	72,00	75,00	76,50	12	45	0,137 - 0,048	45,83	227,40 €	
PWG1.5-50-1	50	47,50	75,00	78,00	79,50	14	55	0,137 - 0,048	50,09	244,74 €	
PWG1.5-55-1	55	51,25	82,50	85,50	87,00	14	55	0,139 - 0,045	59,47	291,13 €	
PWG1.5-60-1	60	55,00	90,00	93,00	94,50	14	55	0,139 - 0,045	69,55	341,36 €	
PWG1.5-65-1	65	58,75	97,50	100,50	102,00	14	55	0,139 - 0,045	83,42	390,03 €	
PWG1.5-70-1	70	62,50	105,00	108,00	109,50	16	65	0,139 - 0,045	95,32	447,48 €	
PWG1.5-75-1	75	66,25	112,50	115,50	117,00	16	65	0,139 - 0,045	107,92	508,72 €	
PWG1.5-78-1	78	68,50	117,00	120,00	121,50	16	65	0,139 - 0,045	115,82	547,58 €	
PWG1.5-80-1	80	70,00	120,00	123,00	124,50	16	65	0,139 - 0,045	121,32	574,12 €	

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

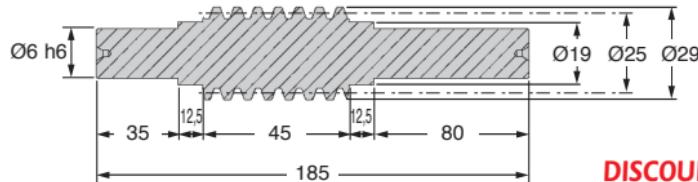
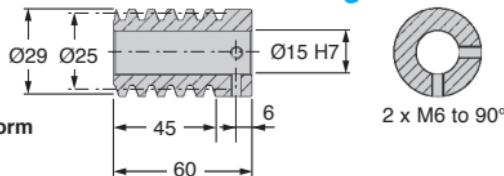
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Steel	Stainless steel	No of starts	Price each 1 to 5	Steel	Stainless steel
Bored worm						
PW2.0-1	PW2.0-1S		1	89,02 €	120,20 €	
PW2.0-2	PW2.0-2S		2	89,02 €	120,20 €	
PW2.0-3	PW2.0-3S		3	89,02 €	120,20 €	
PW2.0-4	PW2.0-4S		4	89,02 €	120,20 €	
Shaft worm						
PSW2.0-1	PSW2.0-1S		1	135,00 €	182,28 €	
PSW2.0-2	PSW2.0-2S		2	135,00 €	182,28 €	
PSW2.0-3	PSW2.0-3S		3	135,00 €	182,28 €	
PSW2.0-4	PSW2.0-4S		4	135,00 €	182,28 €	

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)

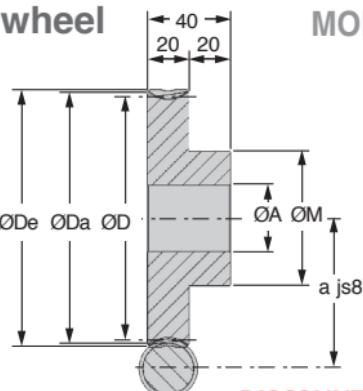
- Tooth thickness conforms to DIN 3967

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	156,89 €
PWG2,0-16-1	16	28,50	32	36	38	10	25	0,114 - 0,040	12,69	165,84 €
PWG2,0-17-1	17	29,50	34	38	40	10	25	0,114 - 0,040	14,16	168,98 €
PWG2,0-18-1	18	30,50	36	40	42	10	25	0,117 - 0,038	15,69	172,15 €
PWG2,0-19-1	19	31,50	38	42	44	10	25	0,117 - 0,038	17,30	175,40 €
PWG2,0-20-1	20	32,50	40	44	46	10	25	0,117 - 0,038	19,29	178,57 €
PWG2,0-21-1	21	33,50	42	46	48	12	35	0,117 - 0,038	21,06	188,61 €
PWG2,0-22-1	22	34,50	44	48	50	12	35	0,117 - 0,038	23,27	199,92 €
PWG2,0-23-1	23	35,50	46	50	52	12	35	0,117 - 0,038	25,62	205,50 €
PWG2,0-24-1	24	36,50	48	52	54	12	35	0,117 - 0,038	28,09	210,68 €
PWG2,0-25-1	25	37,50	50	54	56	12	35	0,117 - 0,038	30,24	216,19 €
PWG2,0-26-1	26	38,50	52	56	58	12	35	0,137 - 0,048	32,45	221,47 €
PWG2,0-27-1	27	39,50	54	58	60	12	35	0,137 - 0,048	34,73	223,20 €
PWG2,0-28-1	28	40,50	56	60	62	12	35	0,137 - 0,048	37,08	226,80 €
PWG2,0-29-1	29	41,50	58	62	64	14	50	0,137 - 0,048	39,50	230,38 €
PWG2,0-30-1	30	42,50	60	64	66	14	50	0,137 - 0,048	41,98	232,18 €
PWG2,0-32-1	32	44,50	64	68	70	14	50	0,137 - 0,048	47,15	241,10 €
PWG2,0-35-1	35	47,50	70	74	76	14	50	0,137 - 0,048	55,41	283,00 €
PWG2,0-38-1	38	50,50	76	80	82	14	50	0,139 - 0,045	64,25	328,23 €
PWG2,0-40-1	40	52,50	80	84	86	14	50	0,139 - 0,045	70,46	360,25 €
PWG2,0-42-1	42	54,50	84	88	90	14	50	0,139 - 0,045	76,93	393,80 €
PWG2,0-45-1	45	57,50	90	94	96	14	50	0,139 - 0,045	88,46	446,77 €
PWG2,0-48-1	48	60,50	96	100	102	14	50	0,139 - 0,045	99,36	500,19 €
PWG2,0-50-1	50	62,50	100	104	106	16	65	0,139 - 0,045	106,94	539,28 €
PWG2,0-52-1	52	64,50	104	108	110	16	65	0,139 - 0,045	114,76	580,06 €
PWG2,0-55-1	55	67,50	110	114	116	16	65	0,139 - 0,045	126,95	637,70 €
PWG2,0-58-1	58	70,50	116	120	122	16	65	0,139 - 0,045	139,68	704,27 €
PWG2,0-60-1	60	72,50	120	124	126	16	65	0,139 - 0,045	153,04	750,43 €

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

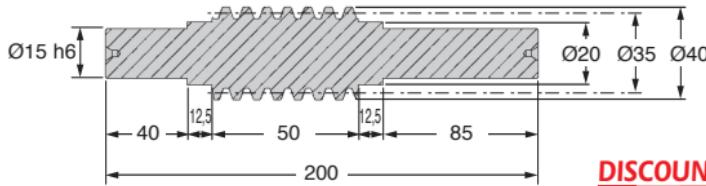
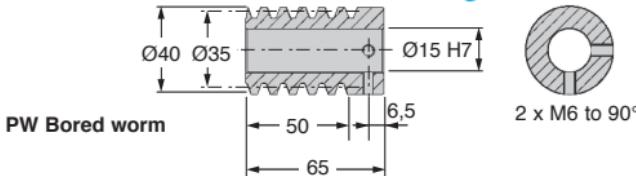
- Quality grade 7e25 DIN 3974
- Pressure angle : 20°
- Material :
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

Info.

- Torque figures are for 100 rpm and are given as a guide only.



Quality grade 7e25



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List -5%	-10%	On request	

Part number	Steel	Stainless steel	No of starts	Price each 1 to 5	Steel	Stainless steel
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Bored worm

PW2.5-1	PW2.5-1S	1	137,79 €	186,06 €
PW2.5-2	PW2.5-2S	2	137,79 €	186,06 €
PW2.5-3	PW2.5-3S	3	137,79 €	186,06 €
PW2.5-4	PW2.5-4S	4	137,79 €	186,06 €

Shaft worm

PSW2.5-1	PSW2.5-1S	1	202,56 €	273,47 €
PSW2.5-2	PSW2.5-2S	2	202,56 €	273,47 €
PSW2.5-3	PSW2.5-3S	3	202,56 €	273,47 €
PSW2.5-4	PSW2.5-4S	4	202,56 €	273,47 €

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

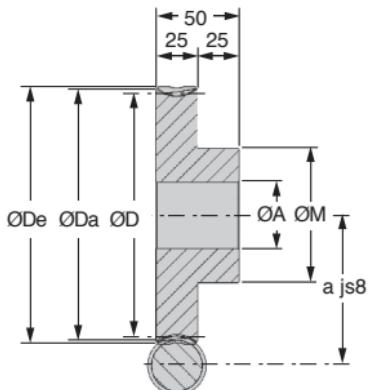
- Hole for dowel pin

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 PWG2,5-4, 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	176,24 €
PWG2,5-16-1	16	37,50	40,00	45,00	47,50	10	30	0,116 - 0,038	25,13	180,09 €
PWG2,5-17-1	17	38,75	42,50	47,50	50,00	10	30	0,116 - 0,038	28,52	183,80 €
PWG2,5-18-1	18	40,00	45,00	50,00	52,50	10	30	0,116 - 0,038	31,61	194,66 €
PWG2,5-19-1	19	41,25	47,50	52,50	55,00	10	30	0,116 - 0,038	34,84	205,46 €
PWG2,5-20-1	20	42,50	50,00	55,00	57,50	10	30	0,116 - 0,038	38,85	216,28 €
PWG2,5-21-1	21	43,75	52,50	57,50	60,00	12	45	0,137 - 0,048	42,42	221,62 €
PWG2,5-22-1	22	45,00	55,00	60,00	62,50	12	45	0,137 - 0,048	46,12	226,03 €
PWG2,5-23-1	23	46,25	57,50	62,50	65,00	12	45	0,137 - 0,048	49,97	234,87 €
PWG2,5-24-1	24	47,50	60,00	65,00	67,50	12	45	0,137 - 0,048	53,95	237,92 €
PWG2,5-25-1	25	48,75	62,50	67,50	70,00	12	45	0,137 - 0,048	58,06	240,44 €
PWG2,5-26-1	26	50,00	65,00	70,00	72,50	12	45	0,137 - 0,048	63,34	243,09 €
PWG2,5-27-1	27	51,25	67,50	72,50	75,00	12	45	0,139 - 0,045	67,80	245,04 €
PWG2,5-28-1	28	52,50	70,00	75,00	77,50	12	45	0,139 - 0,045	72,38	246,52 €
PWG2,5-29-1	29	53,75	72,50	77,50	80,00	14	55	0,139 - 0,045	77,10	249,03 €
PWG2,5-30-1	30	55,00	75,00	80,00	82,50	14	55	0,139 - 0,045	83,97	251,03 €
PWG2,5-32-1	32	57,50	80,00	85,00	87,50	14	55	0,139 - 0,045	94,31	307,39 €
PWG2,5-35-1	35	61,25	87,50	92,50	95,00	14	55	0,139 - 0,045	110,82	341,81 €
PWG2,5-38-1	38	65,00	95,00	100,00	102,50	14	55	0,139 - 0,045	129,53	399,54 €
PWG2,5-40-1	40	67,50	100,00	105,00	107,50	14	55	0,139 - 0,045	142,06	446,54 €
PWG2,5-42-1	42	70,00	105,00	110,00	112,50	16	65	0,139 - 0,045	157,56	499,60 €
PWG2,5-45-1	45	73,75	112,50	117,50	120,00	16	65	0,139 - 0,045	178,40	552,62 €
PWG2,5-48-1	48	77,50	120,00	125,00	127,50	16	65	0,139 - 0,045	200,93	612,12 €

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

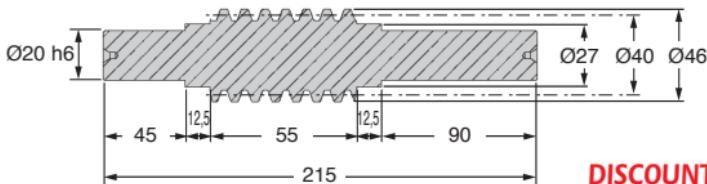
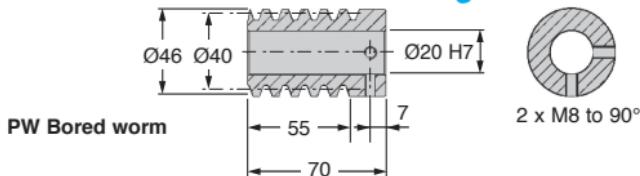
- Quality grade 7e25 DIN 3974
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967

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	Steel	Stainless steel	No of starts	Price each 1 to 5	Steel	Stainless steel
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Bored worm

PW3.0-1	PW3.0-1S	1	161,56 €	218,16 €
PW3.0-2	PW3.0-2S	2	161,56 €	218,16 €
PW3.0-3	PW3.0-3S	3	161,56 €	218,16 €
PW3.0-4	PW3.0-4S	4	161,56 €	218,16 €

Shaft worm

PSW3.0-1	PSW3.0-1S	1	231,18 €	312,14 €
PSW3.0-2	PSW3.0-2S	2	231,18 €	312,14 €
PSW3.0-3	PSW3.0-3S	3	231,18 €	312,14 €
PSW3.0-4	PSW3.0-4S	4	231,18 €	312,14 €

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)

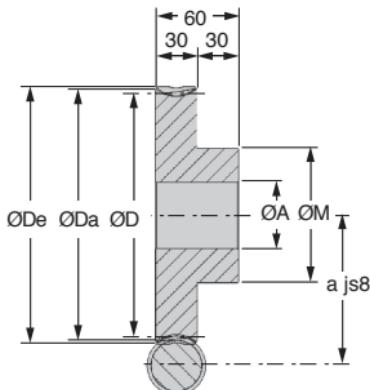
- Tapped hole

- 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 PWG3,0-4, 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	186,37 €
PWG3,0-16-1	16	44,00	48	54	57	12	35	0,117 - 0,038	37,27	193,47 €
PWG3,0-17-1	17	45,50	51	57	60	12	35	0,137 - 0,048	41,57	205,58 €
PWG3,0-18-1	18	47,00	54	60	63	12	35	0,137 - 0,048	46,08	217,65 €
PWG3,0-19-1	19	48,50	57	63	66	12	35	0,137 - 0,048	51,73	229,74 €
PWG3,0-20-1	20	50,00	60	66	69	12	35	0,137 - 0,048	56,73	235,50 €
PWG3,0-21-1	21	51,50	63	69	72	14	50	0,139 - 0,045	63,06	253,95 €
PWG3,0-22-1	22	53,00	66	72	75	14	50	0,139 - 0,045	68,57	266,05 €
PWG3,0-23-1	23	54,50	69	75	78	14	50	0,139 - 0,045	74,28	274,83 €
PWG3,0-24-1	24	56,00	72	78	81	14	50	0,139 - 0,045	81,63	278,74 €
PWG3,0-25-1	25	57,50	75	81	84	14	50	0,139 - 0,045	87,85	283,60 €
PWG3,0-26-1	26	59,00	78	84	87	14	50	0,139 - 0,045	94,28	323,91 €
PWG3,0-27-1	27	60,50	81	87	90	14	50	0,139 - 0,045	101,79	347,17 €
PWG3,0-28-1	28	62,00	84	90	93	14	50	0,139 - 0,045	108,68	374,10 €
PWG3,0-29-1	29	63,50	87	93	96	16	65	0,139 - 0,045	116,77	391,53 €
PWG3,0-30-1	30	65,00	90	96	99	16	65	0,139 - 0,045	124,12	408,24 €
PWG3,0-32-1	32	68,00	96	102	105	16	65	0,139 - 0,045	139,41	482,75 €
PWG3,0-35-1	35	72,50	105	111	114	16	65	0,139 - 0,045	163,81	555,83 €
PWG3,0-38-1	38	77,00	114	120	123	16	65	0,139 - 0,045	196,49	627,02 €
PWG3,0-40-1	40	80,00	120	126	129	16	65	0,139 - 0,045	215,50	726,00 €

Wheels available with 15 to 40 teeth

Dimensions in mm

PWDL

PSWDL

MODULE 0,5

- Quality grade 8e DIN 58405

- Pressure angle : 20°

- Material :

Delrin POM (White)

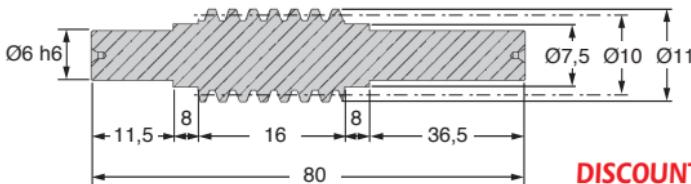
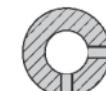
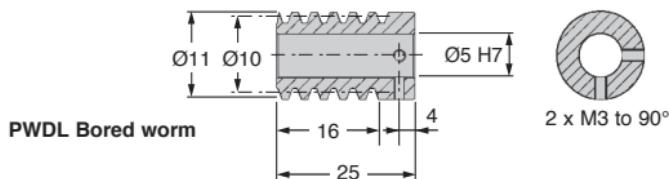
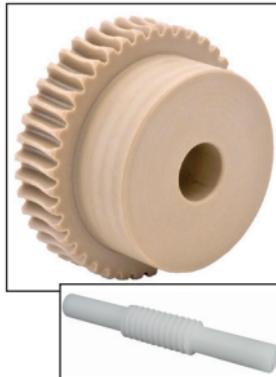
PEEK GF30® (Light brown)

- Tooth thickness conforms to DIN 58405

Info.

- Torque figures are for 100 rpm and are given as a guide only.

Plastic



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Delrin	Peek	N° of starts	Price each 1 to 5	Delrin	Peek
Bored worm						
PW0.5-1DL	PW0.5-1PK		1	31,91 €	On request	
PW0.5-2DL	PW0.5-2PK		2	33,49 €	On request	
PW0.5-3DL	PW0.5-3PK		3	35,20 €	On request	
PW0.5-4DL	PW0.5-4PK		4	37,29 €	On request	
Shaft worm						
PSW0.5-1DL	PSW0.5-1PK		1	56,52 €	On request	
PSW0.5-2DL	PSW0.5-2PK		2	59,08 €	On request	
PSW0.5-3DL	PSW0.5-3PK		3	61,64 €	On request	
PSW0.5-4DL	PSW0.5-4PK		4	64,24 €	On request	

Dimensions in mm

Worm and wheel set

Delrin wheel

PWGDL

MODULE 0,5

- Quality grade 8e DIN 3974

- Pressure angle: 20°

- Material: Delrin POM (White)

- Tooth thickness conforms to DIN 3967

Options

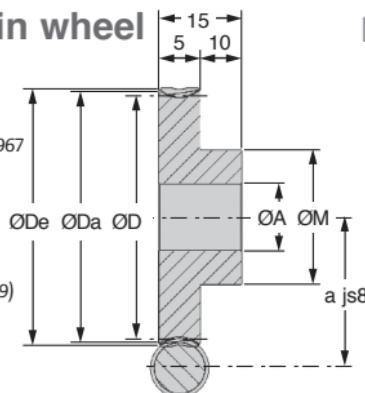
- Also available in PEEK GF30® (Light brown), ask for details.

- 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 PWG0,5-4DL, wheel PWG0,5-15-4DL

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Nº of teeth	a	ØD	ØDa	ØDe	Bore ØA	Bore ØM	Theoretical backlash (mm)	Max. - Min.	Torque (Nm)	Price each
PWG0,5-18-1DL	18	9,50	9,00	10,00	10,50	3	7,50	0,073 - 0,031	0,74	18,85	€
PWG0,5-19-1DL	19	9,75	9,50	10,50	11,00	4	8,00	0,073 - 0,031	0,78	19,39	€
PWG0,5-20-1DL	20	10,00	10,00	11,00	11,50	4	8,00	0,073 - 0,031	0,82	19,79	€
PWG0,5-21-1DL	21	10,25	10,50	11,50	12,00	4	8,00	0,075 - 0,030	0,86	20,07	€
PWG0,5-22-1DL	22	10,50	11,00	12,00	12,50	4	8,00	0,075 - 0,030	0,90	20,27	€
PWG0,5-23-1DL	23	10,75	11,50	12,50	13,00	4	8,00	0,075 - 0,030	0,94	18,85	€
PWG0,5-24-1DL	24	11,00	12,00	13,00	13,50	5	10,00	0,075 - 0,030	0,98	19,16	€
PWG0,5-25-1DL	25	11,25	12,50	13,50	14,00	5	10,00	0,080 - 0,033	1,02	21,23	€
PWG0,5-26-1DL	26	11,50	13,00	14,00	14,50	5	10,00	0,080 - 0,033	1,06	21,34	€
PWG0,5-27-1DL	27	11,75	13,50	14,50	15,00	5	10,00	0,080 - 0,033	1,10	21,46	€
PWG0,5-28-1DL	28	12,00	14,00	15,00	15,50	5	10,00	0,080 - 0,033	1,14	21,55	€
PWG0,5-29-1DL	29	12,25	14,50	15,50	16,00	6	12,50	0,080 - 0,033	1,19	21,57	€
PWG0,5-30-1DL	30	12,50	15,00	16,00	16,50	6	12,50	0,080 - 0,033	1,23	21,62	€
PWG0,5-32-1DL	32	13,00	16,00	17,00	17,50	6	12,50	0,080 - 0,033	1,31	22,54	€
PWG0,5-35-1DL	35	13,75	17,50	18,50	19,00	6	12,50	0,080 - 0,033	1,43	23,55	€
PWG0,5-40-1DL	40	15,00	20,00	21,00	21,50	6	15,00	0,080 - 0,033	1,63	26,31	€
PWG0,5-45-1DL	45	16,25	22,50	23,50	24,00	6	15,00	0,080 - 0,033	1,84	27,17	€
PWG0,5-48-1DL	48	17,00	24,00	25,00	25,50	6	15,00	0,080 - 0,033	1,96	28,11	€
PWG0,5-50-1DL	50	17,50	25,00	26,00	26,50	6	15,00	0,080 - 0,033	2,04	28,49	€
PWG0,5-55-1DL	55	18,75	27,50	28,50	29,00	6	15,00	0,087 - 0,033	2,27	30,64	€
PWG0,5-60-1DL	60	20,00	30,00	31,00	31,50	8	20,00	0,087 - 0,033	2,49	33,57	€
PWG0,5-65-1DL	65	21,25	32,50	33,50	34,00	8	20,00	0,087 - 0,033	2,72	36,12	€
PWG0,5-68-1DL	68	22,00	34,00	35,00	35,50	8	20,00	0,087 - 0,033	2,85	37,46	€
PWG0,5-70-1DL	70	22,50	35,00	36,00	36,50	8	20,00	0,087 - 0,033	2,95	38,74	€
PWG0,5-72-1DL	72	23,00	36,00	37,00	37,50	8	20,00	0,087 - 0,033	3,04	40,02	€
PWG0,5-75-1DL	75	23,75	37,50	38,50	39,00	8	20,00	0,087 - 0,033	3,18	41,34	€
PWG0,5-78-1DL	78	24,50	39,00	40,00	40,50	8	30,00	0,087 - 0,033	3,31	42,71	€
PWG0,5-80-1DL	80	25,00	40,00	41,00	41,50	8	30,00	0,087 - 0,033	3,41	44,11	€

Wheels available with 18 to 80 teeth

Dimensions in mm

PWDL PSWDL

MODULE 1,0

- Quality grade 8e25 DIN 3974

- Pressure angle : 20°

- Material :

Delrin POM (White)

PEEK GF30® (Light brown)

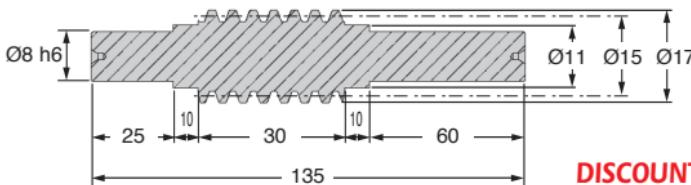
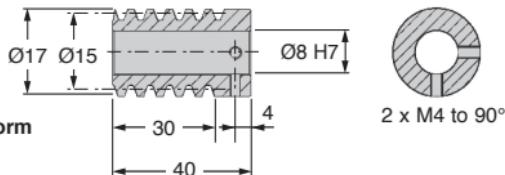
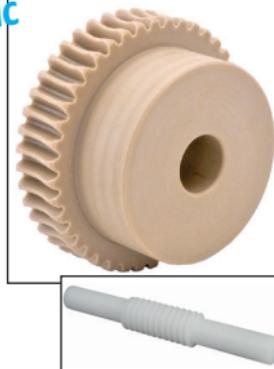
- Tooth thickness conforms to

DIN 3967

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	Delrin	Peek	N° of starts	Price each 1 to 5		
Bored worm						
PW1.0-1DL	PW1.0-1PK		1	42,11	€	On request
PW1.0-2DL	PW1.0-2PK		2	44,39	€	On request
PW1.0-3DL	PW1.0-3PK		3	48,99	€	On request
PW1.0-4DL	PW1.0-4PK		4	50,47	€	On request
Shaft worm						
PSW1.0-1DL	PSW1.0-1PK		1	68,12	€	On request
PSW1.0-2DL	PSW1.0-2PK		2	69,84	€	On request
PSW1.0-3DL	PSW1.0-3PK		3	74,77	€	On request
PSW1.0-4DL	PSW1.0-4PK		4	75,86	€	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)

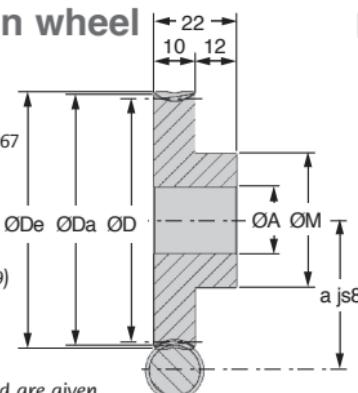
- Tapped hole

- 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 PWG1,0-4DL, 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	28,97 €
PWG1,0-16-1DL	16	15,50	16	18	19	5	12	0,112 - 0,042	1,16	29,66 €
PWG1,0-17-1DL	17	16,00	17	19	20	5	12	0,112 - 0,042	1,29	29,86 €
PWG1,0-18-1DL	18	16,50	18	20	21	5	12	0,112 - 0,042	1,43	30,22 €
PWG1,0-19-1DL	19	17,00	19	21	22	5	12	0,112 - 0,042	1,57	30,30 €
PWG1,0-20-1DL	20	17,50	20	22	23	5	12	0,112 - 0,042	1,73	30,47 €
PWG1,0-21-1DL	21	18,00	21	23	24	5	12	0,112 - 0,042	1,88	30,66 €
PWG1,0-22-1DL	22	18,50	22	24	25	5	12	0,114 - 0,040	2,05	30,98 €
PWG1,0-23-1DL	23	19,00	23	25	26	5	12	0,114 - 0,040	2,22	31,27 €
PWG1,0-24-1DL	24	19,50	24	26	27	6	20	0,114 - 0,040	2,40	32,16 €
PWG1,0-25-1DL	25	20,00	25	27	28	6	20	0,114 - 0,040	2,58	33,52 €
PWG1,0-26-1DL	26	20,50	26	28	29	6	20	0,114 - 0,040	2,77	33,93 €
PWG1,0-27-1DL	27	21,00	27	29	30	6	20	0,114 - 0,040	2,96	34,57 €
PWG1,0-28-1DL	28	21,50	28	30	31	6	20	0,114 - 0,040	3,16	34,80 €
PWG1,0-29-1DL	29	22,00	29	31	32	8	25	0,114 - 0,040	3,37	35,40 €
PWG1,0-30-1DL	30	22,50	30	32	33	8	25	0,114 - 0,040	3,58	35,91 €
PWG1,0-35-1DL	35	25,00	35	37	38	8	25	0,114 - 0,040	4,72	43,38 €
PWG1,0-40-1DL	40	27,50	40	42	43	10	35	0,114 - 0,040	6,00	50,93 €
PWG1,0-45-1DL	45	30,00	45	47	48	10	35	0,114 - 0,040	7,42	59,08 €
PWG1,0-48-1DL	48	31,50	48	50	51	10	35	0,116 - 0,038	8,34	63,22 €
PWG1,0-50-1DL	50	32,50	50	52	53	10	35	0,116 - 0,038	8,97	68,05 €
PWG1,0-52-1DL	52	33,50	52	54	55	10	35	0,136 - 0,048	9,63	69,12 €
PWG1,0-55-1DL	55	35,00	55	57	58	10	35	0,136 - 0,048	10,65	71,49 €
PWG1,0-60-1DL	60	37,50	60	62	63	10	40	0,136 - 0,048	12,45	74,92 €
PWG1,0-65-1DL	65	40,00	65	67	68	10	40	0,136 - 0,048	14,38	81,06 €
PWG1,0-70-1DL	70	42,50	70	72	73	10	40	0,136 - 0,048	16,44	87,50 €
PWG1,0-75-1DL	75	45,00	75	77	78	10	40	0,136 - 0,048	18,61	91,73 €
PWG1,0-80-1DL	80	47,50	80	82	83	10	50	0,136 - 0,048	20,90	111,28 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PWDL
PSWDL

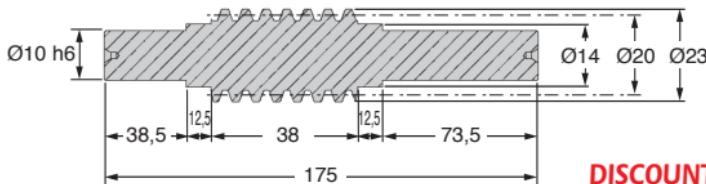
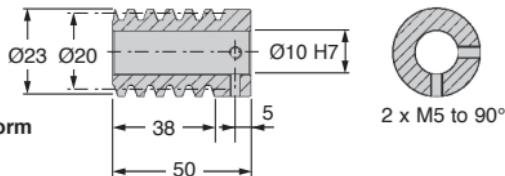
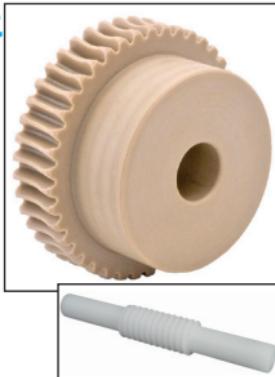
MODULE 1,5

- 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



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				
PW1.5-1DL	PW1.5-1PK	1	46,77 €	On request
PW1.5-2DL	PW1.5-2PK	2	53,55 €	On request
PW1.5-3DL	PW1.5-3PK	3	56,01 €	On request
PW1.5-4DL	PW1.5-4PK	4	59,85 €	On request
Shaft worm				
PSW1.5-1DL	PSW1.5-1PK	1	79,46 €	On request
PSW1.5-2DL	PSW1.5-2PK	2	83,81 €	On request
PSW1.5-3DL	PSW1.5-3PK	3	86,29 €	On request
PSW1.5-4DL	PSW1.5-4PK	4	87,30 €	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)

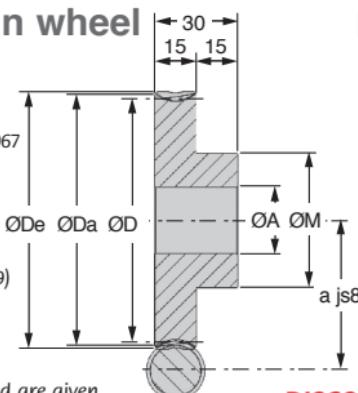
- Tapped hole

- 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	Nº of teeth	a	ØD	ØDa	ØDe	Bore ØA	ØM	Theoretical backlash (mm)	Torque (Nm)	Price each 1 to 5
PWG1,5-15-1DL	15	21,25	22,50	25,50	27,00	6	20	0,114 - 0,040	2,65	41,13 €
PWG1,5-16-1DL	16	22,00	24,00	27,00	28,50	6	20	0,114 - 0,040	2,98	42,49 €
PWG1,5-17-1DL	17	22,75	25,50	28,50	30,00	6	20	0,114 - 0,040	3,32	43,35 €
PWG1,5-18-1DL	18	23,50	27,00	30,00	31,50	6	20	0,114 - 0,040	3,68	43,91 €
PWG1,5-19-1DL	19	24,25	28,50	31,50	33,00	6	20	0,114 - 0,040	4,05	44,71 €
PWG1,5-20-2DL	20	25,00	30,00	33,00	34,50	6	20	0,114 - 0,040	4,45	45,29 €
PWG1,5-21-1DL	21	25,75	31,50	34,50	36,00	8	25	0,114 - 0,040	4,85	46,01 €
PWG1,5-22-1DL	22	26,50	33,00	36,00	37,50	8	25	0,114 - 0,040	5,36	46,77 €
PWG1,5-23-1DL	23	27,25	34,50	37,50	39,00	8	25	0,114 - 0,040	5,81	47,39 €
PWG1,5-24-1DL	24	28,00	36,00	39,00	40,50	8	25	0,114 - 0,040	6,27	48,34 €
PWG1,5-25-1DL	25	28,75	37,50	40,50	42,00	8	25	0,114 - 0,040	6,86	49,75 €
PWG1,5-26-1DL	26	29,50	39,00	42,00	43,50	8	25	0,114 - 0,040	7,36	50,56 €
PWG1,5-27-1DL	27	30,25	40,50	43,50	45,00	8	25	0,117 - 0,038	7,95	51,55 €
PWG1,5-28-1DL	28	31,00	42,00	45,00	46,50	8	25	0,117 - 0,038	8,48	52,31 €
PWG1,5-29-1DL	29	31,75	43,50	46,50	48,00	10	35	0,117 - 0,038	9,04	53,42 €
PWG1,5-30-1DL	30	32,50	45,00	48,00	49,50	10	35	0,117 - 0,038	9,68	54,80 €
PWG1,5-35-1DL	35	36,25	52,50	55,50	57,00	10	35	0,137 - 0,048	12,78	68,15 €
PWG1,5-40-1DL	40	40,00	60,00	63,00	64,50	12	45	0,137 - 0,048	16,25	83,29 €
PWG1,5-45-1DL	45	43,75	67,50	70,50	72,00	12	45	0,137 - 0,048	20,40	104,13 €
PWG1,5-48-1DL	48	46,00	72,00	75,00	76,50	12	45	0,137 - 0,048	22,92	116,93 €
PWG1,5-50-1DL	50	47,50	75,00	78,00	79,50	14	55	0,137 - 0,048	25,05	125,82 €
PWG1,5-55-1DL	55	51,25	82,50	85,50	87,00	14	55	0,139 - 0,045	29,74	149,71 €
PWG1,5-60-1DL	60	55,00	90,00	93,00	94,50	14	55	0,139 - 0,045	34,78	175,53 €
PWG1,5-65-1DL	65	58,75	97,50	100,50	102,00	14	55	0,139 - 0,045	41,71	200,56 €
PWG1,5-70-1DL	70	62,50	105,00	108,00	109,50	16	65	0,139 - 0,045	47,66	230,14 €
PWG1,5-75-1DL	75	66,25	112,50	115,50	117,00	16	65	0,139 - 0,045	53,96	261,61 €
PWG1,5-78-1DL	78	68,50	117,00	120,00	121,50	16	65	0,139 - 0,045	57,91	281,60 €
PWG1,5-80-1DL	80	70,00	120,00	123,00	124,50	16	65	0,139 - 0,045	60,66	295,22 €

Wheels available with 15 to 80 teeth

Dimensions in mm

PWDL
PSWDL

Worm and wheel set

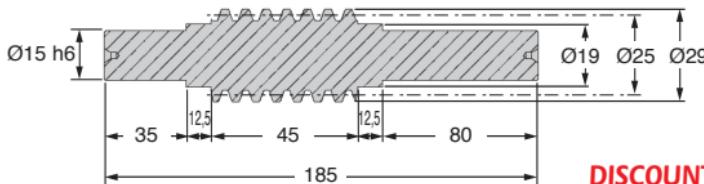
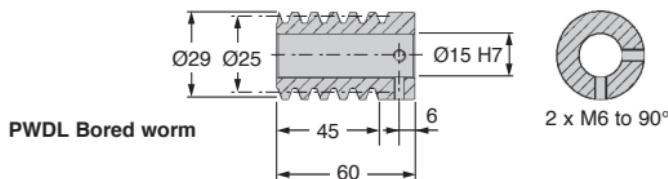
Worm: Delrin or Peek

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.



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	71,23 €	On request
PW2.0-2DL	PW2.0-2PK		2	76,50 €	On request
PW2.0-3DL	PW2.0-3PK		3	82,18 €	On request
PW2.0-4DL	PW2.0-4PK		4	90,35 €	On request
Shaft worm					
PSW2.0-1DL	PSW2.0-1PK		1	108,01 €	On request
PSW2.0-2DL	PSW2.0-2PK		2	114,66 €	On request
PSW2.0-3DL	PSW2.0-3PK		3	117,12 €	On request
PSW2.0-4DL	PSW2.0-4PK		4	124,21 €	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)

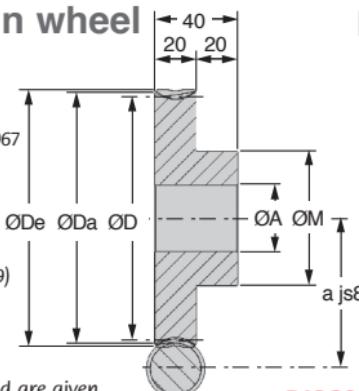
- Tapped hole

- 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	ØD	ØDa	ØDe	Bore ØA	Bore ØM	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	80,65 €
PWG2,0-16-1DL	16	28,50	32	36	38	10	25	0,114 - 0,040	6,35	85,28 €
PWG2,0-17-1DL	17	29,50	34	38	40	10	25	0,114 - 0,040	7,08	86,90 €
PWG2,0-18-1DL	18	30,50	36	40	42	10	25	0,117 - 0,038	7,85	88,52 €
PWG2,0-19-1DL	19	31,50	38	42	44	10	25	0,117 - 0,038	8,65	90,18 €
PWG2,0-20-1DL	20	32,50	40	44	46	10	25	0,117 - 0,038	9,65	91,83 €
PWG2,0-21-1DL	21	33,50	42	46	48	12	35	0,117 - 0,038	10,53	97,00 €
PWG2,0-22-1DL	22	34,50	44	48	50	12	35	0,117 - 0,038	11,64	102,81 €
PWG2,0-23-1DL	23	35,50	46	50	52	12	35	0,117 - 0,038	12,81	105,65 €
PWG2,0-24-1DL	24	36,50	48	52	54	12	35	0,117 - 0,038	14,05	108,34 €
PWG2,0-25-1DL	25	37,50	50	54	56	12	35	0,117 - 0,038	15,12	111,19 €
PWG2,0-26-1DL	26	38,50	52	56	58	12	35	0,137 - 0,048	16,23	113,88 €
PWG2,0-27-1DL	27	39,50	54	58	60	12	35	0,137 - 0,048	17,37	114,77 €
PWG2,0-28-1DL	28	40,50	56	60	62	12	35	0,137 - 0,048	18,54	116,62 €
PWG2,0-29-1DL	29	41,50	58	62	64	14	50	0,137 - 0,048	19,75	118,45 €
PWG2,0-30-1DL	30	42,50	60	64	66	14	50	0,137 - 0,048	20,99	119,39 €
PWG2,0-32-1DL	32	44,50	64	68	70	14	50	0,137 - 0,048	23,58	145,53 €
PWG2,0-35-1DL	35	47,50	70	74	76	14	50	0,137 - 0,048	27,71	168,81 €
PWG2,0-38-1DL	38	50,50	76	80	82	14	50	0,139 - 0,045	32,13	168,81 €
PWG2,0-40-1DL	40	52,50	80	84	86	14	50	0,139 - 0,045	35,23	185,24 €
PWG2,0-42-1DL	42	54,50	84	88	90	14	50	0,139 - 0,045	38,47	202,51 €
PWG2,0-45-1DL	45	57,50	90	94	96	14	50	0,139 - 0,045	44,23	229,74 €
PWG2,0-48-1DL	48	60,50	96	100	102	14	50	0,139 - 0,045	49,68	257,21 €
PWG2,0-50-1DL	50	62,50	100	104	106	16	65	0,139 - 0,045	53,47	277,35 €
PWG2,0-52-1DL	52	64,50	104	108	110	16	65	0,139 - 0,045	57,38	298,29 €
PWG2,0-55-1DL	55	67,50	110	114	116	16	65	0,139 - 0,045	63,48	327,94 €
PWG2,0-58-1DL	58	70,50	116	120	122	16	65	0,139 - 0,045	69,84	362,18 €
PWG2,0-60-1DL	60	72,50	120	124	126	16	65	0,139 - 0,045	76,52	385,90 €

Wheels available with 15 to 60 teeth

Dimensions in mm

**PWDL
PSWDL**

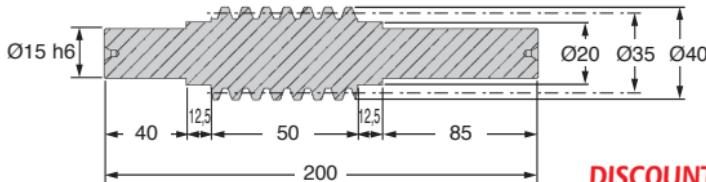
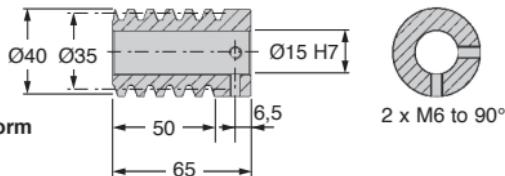
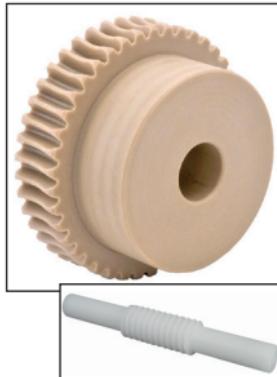
MODULE 2,5

- 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	110,25 €	On request
PW2.5-2DL	PW2.5-2PK	2	117,65 €	On request
PW2.5-3DL	PW2.5-3PK	3	122,38 €	On request
PW2.5-4DL	PW2.5-4PK	4	126,58 €	On request
Shaft worm				
PSW2.5-1DL	PSW2.5-1PK	1	162,05 €	On request
PSW2.5-2DL	PSW2.5-2PK	2	168,70 €	On request
PSW2.5-3DL	PSW2.5-3PK	3	175,46 €	On request
PSW2.5-4DL	PSW2.5-4PK	4	183,51 €	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)

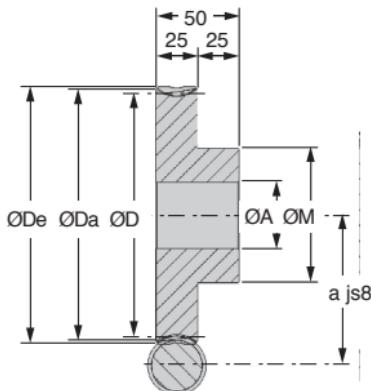
- Tapped hole

- 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	Bore ØM	Theoretical backlash (mm)	Torque Max. - Min. (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	90,62 €
PWG2,5-16-1DL	16	37,50	40,00	45,00	47,50	10	30	0,116 - 0,038	12,57	92,60 €
PWG2,5-17-1DL	17	38,75	42,50	47,50	50,00	10	30	0,116 - 0,038	14,26	94,54 €
PWG2,5-18-1DL	18	40,00	45,00	50,00	52,50	10	30	0,116 - 0,038	15,81	100,10 €
PWG2,5-19-1DL	19	41,25	47,50	52,50	55,00	10	30	0,116 - 0,038	17,42	105,63 €
PWG2,5-20-1DL	20	42,50	50,00	55,00	57,50	10	30	0,116 - 0,038	19,43	111,22 €
PWG2,5-21-1DL	21	43,75	52,50	57,50	60,00	12	45	0,137 - 0,048	21,21	113,96 €
PWG2,5-22-1DL	22	45,00	55,00	60,00	62,50	12	45	0,137 - 0,048	23,06	116,23 €
PWG2,5-23-1DL	23	46,25	57,50	62,50	65,00	12	45	0,137 - 0,048	24,99	120,77 €
PWG2,5-24-1DL	24	47,50	60,00	65,00	67,50	12	45	0,137 - 0,048	26,98	122,32 €
PWG2,5-25-1DL	25	48,75	62,50	67,50	70,00	12	45	0,137 - 0,048	29,03	123,63 €
PWG2,5-26-1DL	26	50,00	65,00	70,00	72,50	12	45	0,137 - 0,048	31,67	124,99 €
PWG2,5-27-1DL	27	51,25	67,50	72,50	75,00	12	45	0,139 - 0,045	33,90	126,02 €
PWG2,5-28-1DL	28	52,50	70,00	75,00	77,50	12	45	0,139 - 0,045	36,19	126,76 €
PWG2,5-29-1DL	29	53,75	72,50	77,50	80,00	14	55	0,139 - 0,045	38,55	128,07 €
PWG2,5-30-1DL	30	55,00	75,00	80,00	82,50	14	55	0,139 - 0,045	41,99	129,10 €
PWG2,5-32-1DL	32	57,50	80,00	85,00	87,50	14	55	0,139 - 0,045	47,16	158,08 €
PWG2,5-35-1DL	35	61,25	87,50	92,50	95,00	14	55	0,139 - 0,045	55,41	175,75 €
PWG2,5-38-1DL	38	65,00	95,00	100,00	102,50	14	55	0,139 - 0,045	64,77	205,46 €
PWG2,5-40-1DL	40	67,50	100,00	105,00	107,50	14	55	0,139 - 0,045	71,03	229,63 €
PWG2,5-42-1DL	42	70,00	105,00	110,00	112,50	16	65	0,139 - 0,045	78,78	256,93 €
PWG2,5-45-1DL	45	73,75	112,50	117,50	120,00	16	65	0,139 - 0,045	89,20	284,21 €
PWG2,5-48-1DL	48	77,50	120,00	125,00	127,50	16	65	0,139 - 0,045	100,47	314,80 €

Wheels available with 15 to 48 teeth

Dimensions in mm

PWDL
PSWDL

Worm and wheel set

Worm: Delrin or Peek

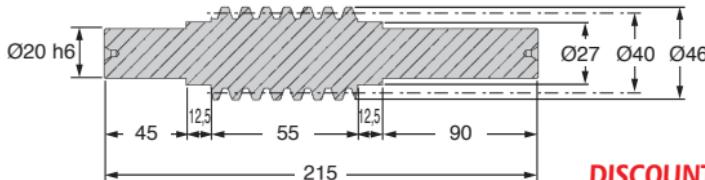
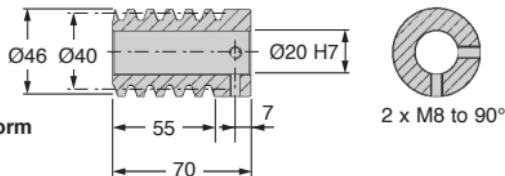
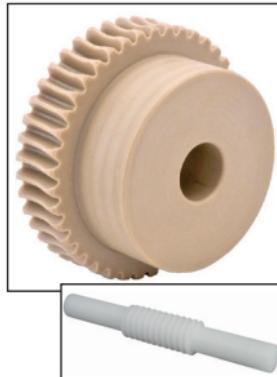
MODULE 3,0

- 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



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	129,26 €	On request
PW3.0-2DL	PW3.0-2PK	2	133,68 €	On request
PW3.0-3DL	PW3.0-3PK	3	137,55 €	On request
PW3.0-4DL	PW3.0-4PK	4	142,92 €	On request
Shaft worm				
PSW3.0-1DL	PSW3.0-1PK	1	184,96 €	On request
PSW3.0-2DL	PSW3.0-2PK	2	196,24 €	On request
PSW3.0-3DL	PSW3.0-3PK	3	204,62 €	On request
PSW3.0-4DL	PSW3.0-4PK	4	212,65 €	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 (JS9)

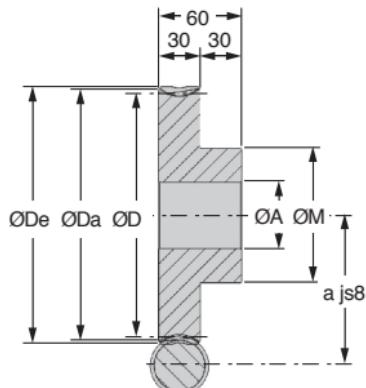
- Tapped hole

- 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 PW3,0-4DL, wheel PWG3,0-15-4DL



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

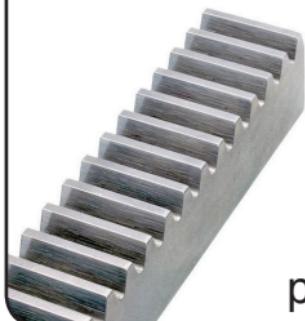
Part number	N° of teeth	a	ØD	ØDa	ØDe	Bore ØA	Theoretical backlash (mm)	Torque Max. - Min. (Nm)	Price each 1 to 5
PWG3,0-15-1DL	15	42,50	45	51	54	12	0,117 - 0,038	16,60	95,83 €
PWG3,0-16-1DL	16	44,00	48	54	57	12	0,117 - 0,038	18,64	99,49 €
PWG3,0-17-1DL	17	45,50	51	57	60	12	0,137 - 0,048	20,79	105,70 €
PWG3,0-18-1DL	18	47,00	54	60	63	12	0,137 - 0,048	23,04	111,95 €
PWG3,0-19-1DL	19	48,50	57	63	66	12	0,137 - 0,048	25,87	118,11 €
PWG3,0-20-1DL	20	50,00	60	66	69	12	0,137 - 0,048	28,37	121,09 €
PWG3,0-21-1DL	21	51,50	63	69	72	14	0,139 - 0,045	31,53	130,59 €
PWG3,0-22-1DL	22	53,00	66	72	75	14	0,139 - 0,045	34,29	136,83 €
PWG3,0-23-1DL	23	54,50	69	75	78	14	0,139 - 0,045	37,14	141,32 €
PWG3,0-24-1DL	24	56,00	72	78	81	14	0,139 - 0,045	40,82	143,34 €
PWG3,0-25-1DL	25	57,50	75	81	84	14	0,139 - 0,045	43,93	145,82 €
PWG3,0-26-1DL	26	59,00	78	84	87	14	0,139 - 0,045	47,14	166,56 €
PWG3,0-27-1DL	27	60,50	81	87	90	14	0,139 - 0,045	50,90	178,53 €
PWG3,0-28-1DL	28	62,00	84	90	93	14	0,139 - 0,045	54,34	192,38 €
PWG3,0-29-1DL	29	63,50	87	93	96	16	0,139 - 0,045	58,39	201,34 €
PWG3,0-30-1DL	30	65,00	90	96	99	16	0,139 - 0,045	62,06	209,94 €
PWG3,0-32-1DL	32	68,00	96	102	105	16	0,139 - 0,045	69,71	248,25 €
PWG3,0-35-1DL	35	72,50	105	111	114	16	0,139 - 0,045	81,91	285,86 €
PWG3,0-38-1DL	38	77,00	114	120	123	16	0,139 - 0,045	98,25	322,45 €
PWG3,0-40-1DL	40	80,00	120	126	129	16	0,139 - 0,045	107,75	373,38 €

Wheels available with 15 to 40 teeth

Dimensions in mm

Precision
racks
p.386-p.387

Rack



p.386

PGRS Square gear rack

Steel

- Quality grade 8 ISO 1328

- Pressure angle: 20°

- Teeth profile conforms to DIN 867

- Material: Steel C40

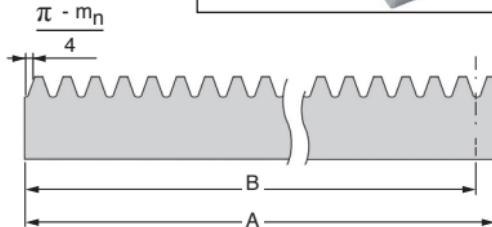
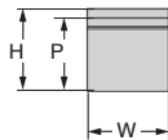
- Straightness: 1.0mm/1000mm

- Total pitch deviation: 0.10mm

Info.

- All racks are cut starting at half tooth spacing

- Racks cut for butt joining finish at half tooth spacing.



DISCOUNTS

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

Part number	Module	H (+/-0,05)	P	W (+/-0,05)	Length (mm) A	B	Price each 1 to 9
Full length							
PGRS0.5-600A	0,5	10	9,50	10	600 <i>+/-0,25</i>	-	159,77 €
PGRS1.0-600A	1,0	10	9,00	10	600 <i>+/-0,25</i>	-	159,13 €
PGRS1.5-600A	1,5	15	13,50	15	600 <i>+/-0,25</i>	-	159,13 €
PGRS1.5-1200A	1,5	15	13,50	15	1200 <i>+/-0,25</i>	-	239,70 €
PGRS2.0-600A	2,0	20	18,00	20	600 <i>+/-0,25</i>	-	182,02 €
PGRS2.0-1200A	2,0	20	18,00	20	1200 <i>+/-0,25</i>	-	285,78 €
PGRS2.5-600A	2,5	25	22,50	25	600 <i>+/-0,25</i>	-	219,97 €
PGRS2.5-1200A	2,5	25	22,50	25	1200 <i>+/-0,25</i>	-	361,48 €
PGRS3.0-600A	3,0	30	27,00	30	600 <i>+/-0,25</i>	-	266,10 €
PGRS3.0-1200A	3,0	30	27,00	30	1200 <i>+/-0,25</i>	-	453,87 €
Cut for butt joining							
PGRS0.5-600B	0,5	10	9,50	10	-	598 <i>+/-0,1</i>	186,39 €
PGRS1.0-600B	1,0	10	9,00	10	-	596 <i>+/-0,1</i>	185,80 €
PGRS1.5-600B	1,5	15	13,50	15	-	598 <i>+/-0,1</i>	190,55 €
PGRS1.5-1200B	1,5	15	13,50	15	-	1196 <i>+/-0,1</i>	270,42 €
PGRS2.0-600B	2,0	20	18,00	20	-	596 <i>+/-0,1</i>	214,94 €
PGRS2.0-1200B	2,0	20	18,00	20	-	1193 <i>+/-0,1</i>	318,69 €
PGRS2.5-600B	2,5	25	22,50	25	-	596 <i>+/-0,1</i>	258,84 €
PGRS2.5-1200B	2,5	25	22,50	25	-	1193 <i>+/-0,1</i>	400,38 €
PGRS3.0-600B	3,0	30	27,00	30	-	593 <i>+/-0,1</i>	311,88 €
PGRS3.0-1200B	3,0	30	27,00	30	-	1196 <i>+/-0,1</i>	499,63 €

Dimensions in mm

Round gear rack

Stainless steel

PGRR

- Quality grade 8 ISO 1328

- Pressure angle: 20°

- Teeth profile conforms to DIN 867

- Material: Stainless steel 303

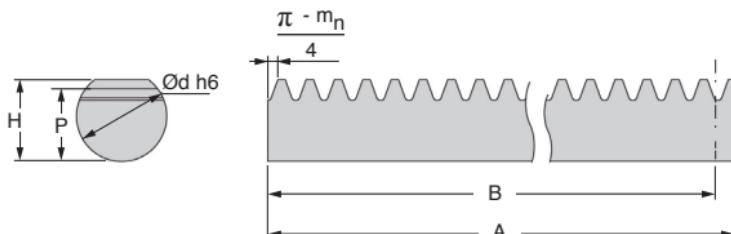
- Straightness: 0.5mm/400mm

- Total pitch deviation: 0.1mm

- Surface finish on diameter: 0.4Ra

Info.

- All racks are cut starting at half tooth spacing
- Racks cut for butt joining finish at half tooth spacing.

**DISCOUNTS**

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

Part number	Module	H (+/-0,05)	P	Ød (h6)	Length (mm) A	Length (mm) B	Price each 1 to 9
Full length							
PGRR0.5-400A	0,5	7,50	7,00	8	400 +/-0,25	-	204,51 €
PGRR1.0-400A	1,0	9,00	8,00	10	400 +/-0,25	-	221,24 €
PGRR1.5-400A	1,5	13,50	12,00	15	400 +/-0,25	-	317,46 €
PGRR2.0-400A	2,0	18,00	16,00	20	400 +/-0,25	-	390,78 €
PGRR2.5-400A	2,5	22,50	20,00	25	400 +/-0,25	-	494,31 €
PGRR3-400A	3,0	27,00	24,00	30	400 +/-0,25	-	596,65 €
Cut for but joining							
PGRR0.5-400B	0,5	7,50	7,00	8	-	398 +/-0,1	231,16 €
PGRR1.0-400B	1,0	9,00	8,00	10	-	398 +/-0,1	247,90 €
PGRR1.5-400B	1,5	13,50	12,00	15	-	395 +/-0,1	348,18 €
PGRR2.0-400B	2,0	18,00	16,00	20	-	395 +/-0,1	423,70 €
PGRR2.5-400B	2,5	22,50	20,00	25	-	392 +/-0,1	533,19 €
PGRR3-400B	3,0	27,00	24,00	30	-	395 +/-0,1	642,40 €

Dimensions in mm

Precision
spur gears
p.390-p.437

Pinion shaft



p.390

Spur gear



p.396

Spur gear



p.424

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

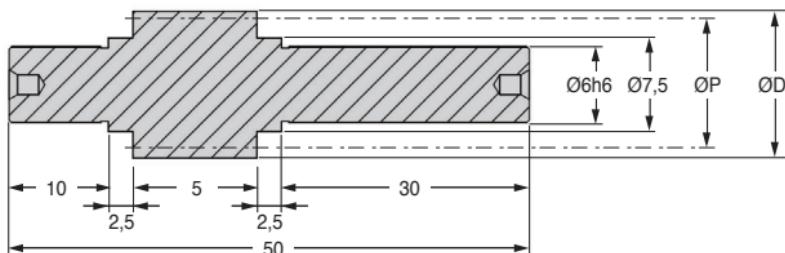
- Efficiency approx 98%

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	Steel	Torque (Nm) Stainless steel	Weight (kg)	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
PPS0.5-18 PPS0.5-18S	18	9,0	10,0	0,25	0,15	0,013	65,50 €	141,43 €
PPS0.5-19 PPS0.5-19S	19	9,5	10,5	0,27	0,16	0,013	66,27 €	143,04 €
PPS0.5-20 PPS0.5-20S	20	10,0	11,0	0,36	0,21	0,014	67,51 €	145,77 €
PPS0.5-21 PPS0.5-21S	21	10,5	11,5	0,37	0,22	0,014	68,18 €	147,20 €
PPS0.5-22 PPS0.5-22S	22	11,0	12,0	0,39	0,23	0,014	69,07 €	149,15 €
PPS0.5-23 PPS0.5-23S	23	11,5	12,5	0,41	0,25	0,015	69,93 €	150,90 €
PPS0.5-24 PPS0.5-24S	24	12,0	13,0	0,43	0,26	0,015	70,71 €	152,70 €
PPS0.5-25 PPS0.5-25S	25	12,5	13,5	0,44	0,27	0,015	71,45 €	154,29 €
PPS0.5-26 PPS0.5-26S	26	13,0	14,0	0,54	0,33	0,016	72,54 €	156,52 €
PPS0.5-27 PPS0.5-27S	27	13,5	14,5	0,57	0,34	0,016	73,25 €	158,14 €
PPS0.5-28 PPS0.5-28S	28	14,0	15,0	0,59	0,35	0,017	74,04 €	159,77 €
PPS0.5-29 PPS0.5-29S	29	14,5	15,5	0,61	0,36	0,017	74,43 €	160,74 €
PPS0.5-30 PPS0.5-30S	30	15,0	16,0	0,69	0,41	0,017	74,72 €	161,34 €

Dimensions in mm

Pinion shaft

Pre-treated or stainless steel

MODULE
1,0

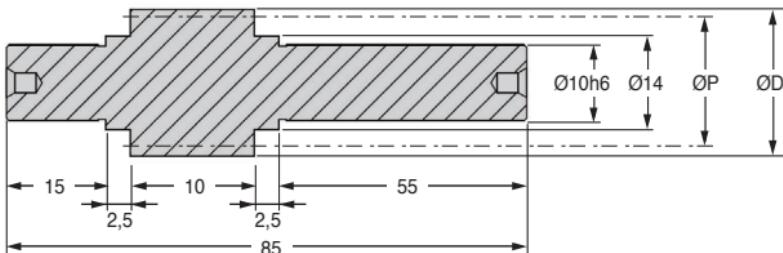
- Quality grade 7e25 DIN 3961 (AGMA Q10)
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

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	ØP Pitch	ØD External	Torque Nm Steel	Torque Nm Stainless steel	Weight (kg)	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
PPS1.0-18	PPS1.0-18S	18	18	20	1,8	1,1	0,069	70,05 €	151,19 €
PPS1.0-19	PPS1.0-19S	19	19	21	1,9	1,1	0,071	71,11 €	153,51 €
PPS1.0-20	PPS1.0-20S	20	20	22	2,5	1,5	0,074	73,39 €	158,46 €
PPS1.0-21	PPS1.0-21S	21	21	23	2,6	1,6	0,076	73,86 €	159,46 €
PPS1.0-22	PPS1.0-22S	22	22	24	2,7	1,6	0,079	74,94 €	161,77 €
PPS1.0-23	PPS1.0-23S	23	23	25	2,8	1,7	0,081	75,27 €	162,43 €
PPS1.0-24	PPS1.0-24S	24	24	26	3,0	1,8	0,084	75,72 €	163,43 €
PPS1.0-25	PPS1.0-25S	25	25	27	3,1	1,9	0,087	78,87 €	170,19 €
PPS1.0-26	PPS1.0-26S	26	26	28	3,8	2,3	0,090	81,68 €	176,31 €
PPS1.0-27	PPS1.0-27S	27	27	29	3,9	2,4	0,094	83,37 €	179,96 €
PPS1.0-28	PPS1.0-28S	28	28	30	4,1	2,4	0,097	85,20 €	183,93 €
PPS1.0-29	PPS1.0-29S	29	29	31	4,2	2,5	0,100	87,44 €	188,73 €
PPS1.0-30	PPS1.0-30S	30	30	32	4,8	2,9	0,104	88,89 €	191,87 €

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

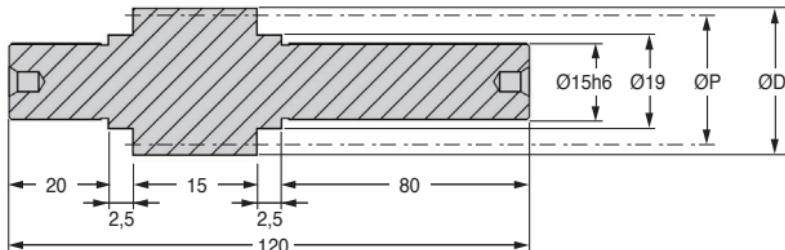
- Efficiency approx 98%

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 Steel	Part number Stainless steel	Z Teeth	ØP Pitch	ØD External Steel	Torque (Nm) Stainless steel	Weight (kg)	Price each 1 to 5 Steel	Price each 1 to 5 Stainless steel
PPS1.5-16	PPS1.5-16S	16	24,0	27,0	4,9	2,7	0,203	80,42 € 156,73 €
PPS1.5-18	PPS1.5-18S	18	27,0	30,0	5,5	3,3	0,216	84,36 € 162,43 €
PPS1.5-19	PPS1.5-19S	19	28,5	31,5	5,8	3,5	0,224	87,52 € 168,55 €
PPS1.5-20	PPS1.5-20S	20	30,0	33,0	7,7	4,6	0,232	91,95 € 177,09 €
PPS1.5-21	PPS1.5-21S	21	31,5	34,5	8,1	4,9	0,240	92,76 € 178,57 €
PPS1.5-22	PPS1.5-22S	22	33,0	36,0	8,5	5,1	0,249	93,82 € 180,61 €
PPS1.5-23	PPS1.5-23S	23	34,5	37,5	8,9	5,3	0,259	95,50 € 183,83 €
PPS1.5-24	PPS1.5-24S	24	36,0	39,0	9,3	5,6	0,268	96,43 € 185,66 €
PPS1.5-25	PPS1.5-25S	25	37,5	40,5	9,6	5,8	0,278	101,43 € 195,24 €
PPS1.5-26	PPS1.5-26S	26	39,0	42,0	11,8	7,1	0,289	106,29 € 204,62 €
PPS1.5-27	PPS1.5-27S	27	40,5	43,5	12,2	7,3	0,300	109,58 € 210,98 €
PPS1.5-28	PPS1.5-28S	28	42,0	45,0	12,7	7,6	0,311	112,68 € 216,97 €
PPS1.5-29	PPS1.5-29S	29	43,5	46,5	13,2	7,9	0,323	114,46 € 220,32 €
PPS1.5-30	PPS1.5-30S	30	45,0	48,0	15,0	9,0	0,335	117,89 € 226,97 €

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

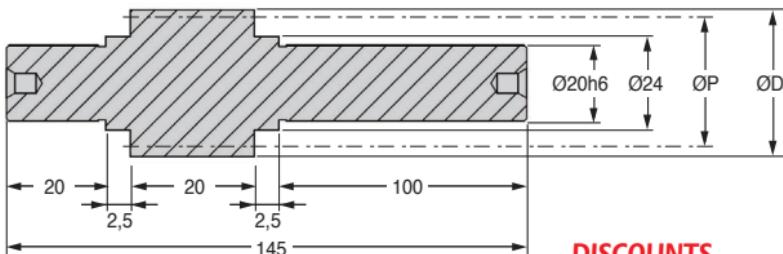
- Efficiency approx 98%

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	ØP	ØD	Torque (Nm)	Weight	Price each 1 to 5			
Steel	Stainless steel	Teeth	Pitch	External	Steel	Steel	Stainless steel	Stainless steel	
PPS2.0-16	PPS2.0-16S	16	32	36	11,4	6,9	0,439	96,67 €	208,68 €
PPS2.0-18	PPS2.0-18S	18	36	40	12,3	7,4	0,472	101,97 €	196,31 €
PPS2.0-19	PPS2.0-19S	19	38	42	13,0	7,8	0,490	104,29 €	200,78 €
PPS2.0-20	PPS2.0-20S	20	40	44	17,3	10,4	0,509	106,45 €	204,94 €
PPS2.0-21	PPS2.0-21S	21	42	46	18,1	10,9	0,529	109,29 €	210,40 €
PPS2.0-22	PPS2.0-22S	22	44	48	19,0	11,4	0,550	110,96 €	213,66 €
PPS2.0-23	PPS2.0-23S	23	46	50	19,8	11,9	0,571	113,33 €	218,14 €
PPS2.0-24	PPS2.0-24S	24	48	52	20,7	12,4	0,594	115,79 €	222,93 €
PPS2.0-25	PPS2.0-25S	25	50	54	21,6	12,9	0,618	122,25 €	235,37 €
PPS2.0-26	PPS2.0-26S	26	52	56	26,4	15,8	0,643	126,16 €	242,93 €
PPS2.0-27	PPS2.0-27S	27	54	58	27,4	16,4	0,669	130,63 €	251,52 €
PPS2.0-28	PPS2.0-28S	28	56	60	28,4	17,1	0,696	133,50 €	256,95 €
PPS2.0-29	PPS2.0-29S	29	58	62	29,4	17,7	0,724	136,83 €	263,42 €
PPS2.0-30	PPS2.0-30S	30	60	64	33,5	20,1	0,753	139,82 €	269,18 €

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

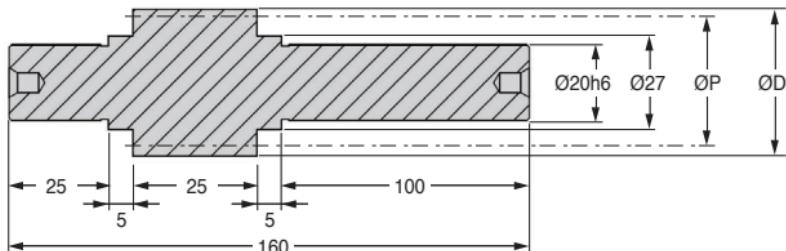
- Efficiency approx 98%

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	Z	ØP	ØD	Torque (Nm)		Weight	Price each 1 to 5	
Steel	Stainless steel	Pitch	External	Steel	Stainless steel	(kg)	Steel	Stainless steel
PPS2.5-14 PPS2.5-14S	14	35,0	40,0	17,6	9,4	0,540	121,14 €	261,53 €
PPS2.5-16 PPS2.5-16S	16	40,0	45,0	19,8	11,7	0,597	126,14 €	272,23 €
PPS2.5-18 PPS2.5-18S	18	45,0	50,0	22,9	13,8	0,662	129,79 €	280,17 €
PPS2.5-19 PPS2.5-19S	19	47,5	52,5	24,2	14,5	0,697	133,28 €	287,69 €
PPS2.5-20 PPS2.5-20S	20	50,0	55,0	32,2	19,3	0,734	138,16 €	298,22 €
PPS2.5-21 PPS2.5-21S	21	52,5	57,5	33,8	20,3	0,773	141,51 €	305,39 €
PPS2.5-22 PPS2.5-22S	22	55,0	60,0	35,5	21,3	0,814	146,59 €	316,37 €
PPS2.5-23 PPS2.5-23S	23	57,5	62,5	37,1	22,2	0,857	150,26 €	324,36 €
PPS2.5-24 PPS2.5-24S	24	60,0	65,0	38,7	23,2	0,901	154,67 €	333,88 €
PPS2.5-25 PPS2.5-25S	25	62,5	67,5	40,3	24,2	0,948	163,09 €	352,01 €

Dimensions in mm

Pinion shaft

Pre-treated or stainless steel

MODULE
3,0

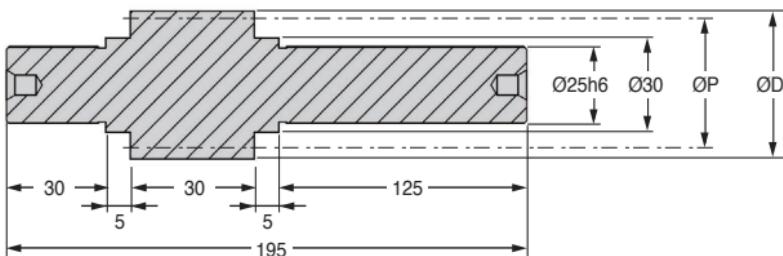
- Quality grade 7e25 DIN 3961 (AGMA Q10)
- Pressure angle: 20°
- Material:
 - Pre-treated steel 35NCD6, 28 HRC
 - Stainless steel 303
- Tooth thickness conforms to DIN 3967
- Efficiency approx 98%

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	Z	ØP	ØD	Torque (Nm)	Weight	Price each 1 to 5
Steel	Stainless steel	Teeth	Pitch	External	Steel	Stainless steel
PPS3.0-14 PPS3.0-14S	14	42	48	31,6	17,3	0,976 134,74 € 330,20 €
PPS3.0-16 PPS3.0-16S	16	48	54	34,1	19,5	1,074 138,60 € 339,58 €
PPS3.0-18 PPS3.0-18S	18	54	60	38,2	22,9	1,186 144,84 € 354,83 €
PPS3.0-19 PPS3.0-19S	19	57	63	40,3	24,2	1,246 150,24 € 368,13 €
PPS3.0-20 PPS3.0-20S	20	60	66	53,7	32,2	1,311 155,20 € 380,22 €
PPS3.0-21 PPS3.0-21S	21	63	69	56,4	33,8	1,378 160,28 € 392,68 €
PPS3.0-22 PPS3.0-22S	22	66	72	59,1	35,4	1,449 165,78 € 406,16 €
PPS3.0-23 PPS3.0-23S	23	69	75	61,8	37,1	1,523 171,08 € 419,15 €
PPS3.0-24 PPS3.0-24S	24	72	78	64,4	38,7	1,600 175,92 € 431,08 €
PPS3.0-25 PPS3.0-25S	25	75	81	67,1	40,3	1,681 186,56 € 457,18 €

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.

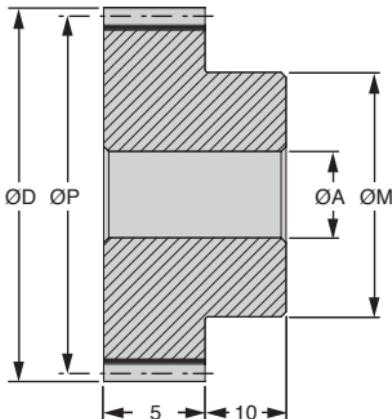
Quality grade 7e

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP Standard	ØP Hardened	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard/Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG0.5-20	PSG0.5-20H	20	10,0	11,0	4	8	0,076 - 0,037	0,36 1,11	0,006	26,99 €	44,55 €
PSG0.5-21	PSG0.5-21H	21	10,5	11,5	4	8	0,077 - 0,036	0,37 1,16	0,006	27,26 €	45,00 €
PSG0.5-22	PSG0.5-22H	22	11,0	12,0	4	8	0,077 - 0,036	0,39 1,22	0,006	27,61 €	45,60 €
PSG0.5-23	PSG0.5-23H	23	11,5	12,5	4	8	0,077 - 0,036	0,41 1,27	0,006	27,94 €	46,16 €
PSG0.5-24	PSG0.5-24H	24	12,0	13,0	5	10	0,077 - 0,036	0,43 1,33	0,008	28,27 €	46,67 €
PSG0.5-25	PSG0.5-25H	25	12,5	13,5	5	10	0,087 - 0,042	0,44 1,38	0,009	28,54 €	47,15 €
PSG0.5-26	PSG0.5-26H	26	13,0	14,0	5	10	0,087 - 0,042	0,54 1,44	0,009	28,97 €	47,83 €
PSG0.5-27	PSG0.5-27H	27	13,5	14,5	5	10	0,087 - 0,042	0,57 1,50	0,009	29,28 €	48,34 €
PSG0.5-28	PSG0.5-28H	28	14,0	15,0	5	10	0,087 - 0,042	0,59 1,55	0,010	29,59 €	48,87 €
PSG0.5-29	PSG0.5-29H	29	14,5	15,5	6	13	0,087 - 0,042	0,61 1,61	0,013	29,77 €	49,14 €
PSG0.5-30	PSG0.5-30H	30	15,0	16,0	6	13	0,087 - 0,042	0,69 1,65	0,014	29,86 €	49,33 €
PSG0.5-32	PSG0.5-32H	32	16,0	17,0	6	13	0,087 - 0,042	0,74 1,76	0,015	30,61 €	50,50 €
PSG0.5-35	PSG0.5-35H	35	17,5	18,5	6	13	0,087 - 0,042	0,81 1,93	0,016	31,63 €	52,22 €
PSG0.5-38	PSG0.5-38H	38	19,0	20,0	6	17	0,089 - 0,041	0,87 2,09	0,026	32,58 €	53,82 €
PSG0.5-40	PSG0.5-40H	40	20,0	21,0	6	17	0,089 - 0,041	1,18 2,45	0,027	33,32 €	54,99 €
PSG0.5-42	PSG0.5-42H	42	21,0	22,0	6	17	0,089 - 0,041	1,24 2,57	0,028	33,91 €	55,98 €
PSG0.5-45	PSG0.5-45H	45	22,5	23,5	6	17	0,089 - 0,041	1,32 2,75	0,030	34,95 €	57,69 €
PSG0.5-48	PSG0.5-48H	48	24,0	25,0	6	17	0,089 - 0,041	1,41 2,94	0,032	36,35 €	59,95 €
PSG0.5-50	PSG0.5-50H	50	25,0	26,0	6	17	0,089 - 0,041	1,74 3,32	0,034	36,73 €	60,58 €
PSG0.5-52	PSG0.5-52H	52	26,0	27,0	6	17	0,097 - 0,046	1,81 3,45	0,035	37,29 €	61,47 €
PSG0.5-55	PSG0.5-55H	55	27,5	28,5	6	17	0,097 - 0,046	1,92 3,65	0,038	38,01 €	62,79 €
PSG0.5-58	PSG0.5-58H	58	29,0	30,0	6	17	0,097 - 0,046	2,02 3,85	0,040	38,79 €	64,06 €
PSG0.5-60	PSG0.5-60H	60	30,0	31,0	6	17	0,097 - 0,046	2,49 4,15	0,042	39,23 €	64,72 €

Dimensions in mm



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z Standard	ØP Hardened Teeth	ØD Pitch	ØA External	ØM Bore	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG0.5-62	PSG0.5-62H	62	31,0	32,0	8	20	0,098 - 0,044	2,57	4,29	0,048	39,69 € 65,52 €
PSG0.5-65	PSG0.5-65H	65	32,5	33,5	8	20	0,098 - 0,044	2,70	4,50	0,051	40,56 € 66,97 €
PSG0.5-68	PSG0.5-68H	68	34,0	35,0	8	20	0,098 - 0,044	2,82	4,70	0,054	40,84 € 67,39 €
PSG0.5-70	PSG0.5-70H	70	35,0	36,0	8	20	0,098 - 0,044	2,91	4,84	0,056	41,27 € 68,15 €
PSG0.5-72	PSG0.5-72H	72	36,0	37,0	8	20	0,098 - 0,044	2,99	4,98	0,058	41,69 € 68,77 €
PSG0.5-75	PSG0.5-75H	75	37,5	38,5	8	20	0,098 - 0,044	3,11	5,19	0,062	45,91 € 69,31 €
PSG0.5-78	PSG0.5-78H	78	39,0	40,0	8	20	0,098 - 0,044	3,24	5,40	0,065	42,63 € 70,32 €
PSG0.5-80	PSG0.5-80H	80	40,0	41,0	8	25	0,098 - 0,044	3,71	5,80	0,082	42,91 € 62,79 €
PSG0.5-82	PSG0.5-82H	82	41,0	42,0	8	25	0,098 - 0,044	3,81	5,95	0,084	43,38 € 71,60 €
PSG0.5-85	PSG0.5-85H	85	42,5	43,5	8	25	0,098 - 0,044	3,95	6,16	0,088	43,82 € 72,33 €
PSG0.5-90	PSG0.5-90H	90	45,0	46,0	8	25	0,098 - 0,044	4,18	6,53	0,095	44,55 € 73,53 €
PSG0.5-100	PSG0.5-100H	100	50,0	51,0	10	30	0,098 - 0,044	4,75	7,42	0,123	45,24 € 74,61 €
PSG0.5-120	PSG0.5-120H	120	60,0	61,0	10	35	0,111 - 0,049	5,70	8,90	0,177	54,80 € 90,40 €
PSG0.5-130	PSG0.5-130H	130	65,0	66,0	10	35	0,111 - 0,049	6,17	9,65	0,196	62,84 € 103,70 €
PSG0.5-140	PSG0.5-140H	140	70,0	71,0	10	35	0,111 - 0,049	6,65	10,39	0,217	65,50 € 108,03 €
PSG0.5-150	PSG0.5-150H	150	75,0	76,0	10	40	0,111 - 0,049	7,28	11,37	0,262	71,28 € 117,61 €
PSG0.5-200	PSG0.5-200H	200	100,0	101,0	14	50	0,113 - 0,047	9,80	15,32	0,444	87,86 € 144,98 €
PSG0.5-250	PSG0.5-250H	250	125,0	126,0	16	60	0,136 - 0,062	12,25	19,15	0,679	105,40 € 173,93 €

Dimensions in mm

MODULE 0.5



- 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

Spur gear

Stainless steel 303 or 316



Quality grade 7e

DISCOUNTS

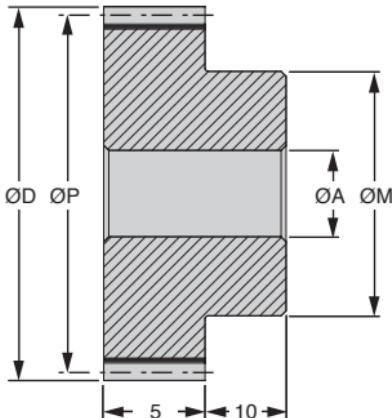
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303	SS- 316	Z	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm)		Weight SS- 303 (kg)	Price each 1 to 5 SS- 303	Price each 1 to 5 SS- 316
								SS- 303	SS- 316			
PSG0.5-20S	PSG0.5-20SL	20	10,0	11,0	4	8	0,076 - 0,037	0,21	0,17	0,006	36,45 €	41,85 €
PSG0.5-21S	PSG0.5-21SL	21	10,5	11,5	4	8	0,077 - 0,036	0,22	0,17	0,006	36,82 €	42,27 €
PSG0.5-22S	PSG0.5-22SL	22	11,0	12,0	4	8	0,077 - 0,036	0,23	0,18	0,006	37,29 €	42,84 €
PSG0.5-23S	PSG0.5-23SL	23	11,5	12,5	4	8	0,077 - 0,036	0,25	0,19	0,007	37,76 €	43,32 €
PSG0.5-24S	PSG0.5-24SL	24	12,0	13,0	5	10	0,077 - 0,036	0,26	0,20	0,008	38,17 €	43,82 €
PSG0.5-25S	PSG0.5-25SL	25	12,5	13,5	5	10	0,087 - 0,042	0,27	0,21	0,009	38,58 €	44,33 €
PSG0.5-26S	PSG0.5-26SL	26	13,0	14,0	5	10	0,087 - 0,042	0,33	0,25	0,009	39,13 €	44,96 €
PSG0.5-27S	PSG0.5-27SL	27	13,5	14,5	5	10	0,087 - 0,042	0,34	0,26	0,010	39,56 €	45,40 €
PSG0.5-28S	PSG0.5-28SL	28	14,0	15,0	5	10	0,087 - 0,042	0,35	0,27	0,010	39,95 €	45,88 €
PSG0.5-29S	PSG0.5-29SL	29	14,5	15,5	6	13	0,087 - 0,042	0,36	0,28	0,014	40,19 €	46,18 €
PSG0.5-30S	PSG0.5-30SL	30	15,0	16,0	6	13	0,087 - 0,042	0,41	0,32	0,014	40,36 €	46,34 €
PSG0.5-32S	PSG0.5-32SL	32	16,0	17,0	6	13	0,087 - 0,042	0,44	0,34	0,015	41,34 €	47,46 €
PSG0.5-35S	PSG0.5-35SL	35	17,5	18,5	6	13	0,087 - 0,042	0,48	0,38	0,017	42,71 €	49,06 €
PSG0.5-38S	PSG0.5-38SL	38	19,0	20,0	6	17	0,089 - 0,041	0,52	0,41	0,026	44,01 €	50,54 €
PSG0.5-40S	PSG0.5-40SL	40	20,0	21,0	6	17	0,089 - 0,041	0,71	0,55	0,027	45,00 €	51,67 €
PSG0.5-42S	PSG0.5-42SL	42	21,0	22,0	6	17	0,089 - 0,041	0,74	0,58	0,028	45,78 €	52,59 €
PSG0.5-45S	PSG0.5-45SL	45	22,5	23,5	6	17	0,089 - 0,041	0,79	0,62	0,031	47,21 €	54,21 €
PSG0.5-48S	PSG0.5-48SL	48	24,0	25,0	6	17	0,089 - 0,041	0,85	0,66	0,033	49,06 €	56,30 €
PSG0.5-50S	PSG0.5-50SL	50	25,0	26,0	6	17	0,089 - 0,041	1,05	0,81	0,034	49,56 €	56,92 €
PSG0.5-52S	PSG0.5-52SL	52	26,0	27,0	6	17	0,097 - 0,046	1,09	0,85	0,036	50,31 €	57,79 €
PSG0.5-55S	PSG0.5-55SL	55	27,5	28,5	6	17	0,097 - 0,046	1,15	0,90	0,038	51,33 €	58,96 €
PSG0.5-58S	PSG0.5-58SL	58	29,0	30,0	6	17	0,097 - 0,046	1,21	0,94	0,041	52,41 €	60,14 €
PSG0.5-60S	PSG0.5-60SL	60	30,0	31,0	6	17	0,097 - 0,046	1,49	1,16	0,043	52,97 €	60,79 €

Dimensions in mm

MODULE

0.5



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303 SS- 316	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) SS-303 SS-316		Weight SS-303 SS-316 (kg)	Price each 1 to 5 SS-303 SS-316
							1,20	1,26		
PSG0.5-62S	PSG0.5-62SL	62	31,0	32,0	8	20	0,098 - 0,044	1,54	1,20	0,049 53,60 € 61,56 €
PSG0.5-65S	PSG0.5-65SL	65	32,5	33,5	8	20	0,098 - 0,044	1,62	1,26	0,052 54,77 € 62,89 €
PSG0.5-68S	PSG0.5-68SL	68	34,0	35,0	8	20	0,098 - 0,044	1,69	1,32	0,055 55,13 € 63,30 €
PSG0.5-70S	PSG0.5-70SL	70	35,0	36,0	8	20	0,098 - 0,044	1,74	1,36	0,057 55,71 € 64,00 €
PSG0.5-72S	PSG0.5-72SL	72	36,0	37,0	8	20	0,098 - 0,044	1,79	1,39	0,060 56,26 € 64,61 €
PSG0.5-75S	PSG0.5-75SL	75	37,5	38,5	8	20	0,098 - 0,044	1,87	1,45	0,063 56,68 € 65,10 €
PSG0.5-78S	PSG0.5-78SL	78	39,0	40,0	8	20	0,098 - 0,044	1,94	1,51	0,067 57,51 € 66,06 €
PSG0.5-80S	PSG0.5-80SL	80	40,0	41,0	8	25	0,098 - 0,044	2,55	1,98	0,083 57,96 € 66,55 €
PSG0.5-82S	PSG0.5-82SL	82	41,0	42,0	8	25	0,098 - 0,044	2,61	2,03	0,086 58,57 € 67,29 €
PSG0.5-85S	PSG0.5-85SL	85	42,5	43,5	8	25	0,098 - 0,044	2,71	2,11	0,090 59,19 € 67,94 €
PSG0.5-90S	PSG0.5-90SL	90	45,0	46,0	8	25	0,098 - 0,044	2,87	2,23	0,097 60,14 € 69,07 €
PSG0.5-100S	PSG0.5-100SL	100	50,0	51,0	10	30	0,098 - 0,044	3,84	2,99	0,125 61,03 € 70,10 €
PSG0.5-120S	PSG0.5-120SL	120	60,0	61,0	10	35	0,111 - 0,049	4,61	3,59	0,180 73,98 € 84,92 €
PSG0.5-130S	PSG0.5-130SL	130	65,0	66,0	10	35	0,111 - 0,049	5,00	3,89	0,200 84,84 € 97,43 €
PSG0.5-140S	PSG0.5-140SL	140	70,0	71,0	10	35	0,111 - 0,049	5,38	4,19	0,221 88,39 € 101,46 €
PSG0.5-150S	PSG0.5-150SL	150	75,0	76,0	10	40	0,111 - 0,049	7,79	6,06	0,267 96,23 € 110,50 €
PSG0.5-200S	PSG0.5-200SL	200	100,0	101,0	14	50	0,113 - 0,047	11,61	9,03	0,452 118,62 € 136,22 €
PSG0.5-250S	PSG0.5-250SL	250	125,0	126,0	16	60	0,136 - 0,062	14,51	11,29	0,692 142,27 € 163,38 €

Dimensions in mm

MODULE

0.8



- 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%

Spur gear

Pre-treated or case hardened steel



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

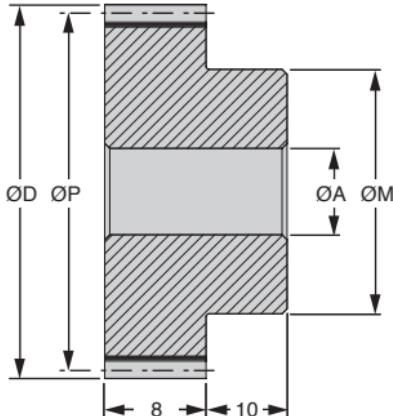
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	OP	OD	OA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5		
Standard	Hardened	Teeth	Pitch	External	Bore	(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	26,39 € 44,23 €
PSG0.8-19	PSG0.8-19H	19	15,2	16,8	5	11	0,096 - 0,047	1,00	3,65	0,016	26,81 € 44,93 €
PSG0.8-20	PSG0.8-20H	20	16,0	17,6	5	11	0,096 - 0,047	1,33	4,53	0,017	27,20 € 45,60 €
PSG0.8-21	PSG0.8-21H	21	16,8	18,4	5	12	0,096 - 0,047	1,39	4,76	0,020	28,06 € 46,28 €
PSG0.8-22	PSG0.8-22H	22	17,6	19,2	5	12	0,096 - 0,047	1,46	4,98	0,021	28,44 € 46,99 €
PSG0.8-23	PSG0.8-23H	23	18,4	20,0	5	12	0,097 - 0,046	1,53	5,21	0,023	28,59 € 47,17 €
PSG0.8-24	PSG0.8-24H	24	19,2	20,8	6	14	0,097 - 0,046	1,59	5,44	0,026	28,72 € 47,44 €
PSG0.8-25	PSG0.8-25H	25	20,0	21,6	6	14	0,097 - 0,046	1,66	5,66	0,028	29,94 € 49,42 €
PSG0.8-26	PSG0.8-26H	26	20,8	22,4	6	14	0,097 - 0,046	2,03	5,90	0,029	31,02 € 51,20 €
PSG0.8-27	PSG0.8-27H	27	21,6	23,2	6	14	0,097 - 0,046	2,11	6,13	0,031	31,63 € 52,22 €
PSG0.8-28	PSG0.8-28H	28	22,4	24,0	8	18	0,097 - 0,046	2,18	6,35	0,037	32,36 € 53,42 €
PSG0.8-29	PSG0.8-29H	29	23,2	24,8	8	18	0,097 - 0,046	2,26	6,58	0,039	33,21 € 54,80 €
PSG0.8-30	PSG0.8-30H	30	24,0	25,6	8	18	0,097 - 0,046	2,58	6,76	0,041	33,76 € 55,71 €
PSG0.8-32	PSG0.8-32H	32	25,6	27,2	8	18	0,108 - 0,052	2,75	7,21	0,045	34,62 € 57,19 €
PSG0.8-35	PSG0.8-35H	35	28,0	29,6	10	20	0,108 - 0,052	3,00	7,89	0,052	35,79 € 59,08 €
PSG0.8-38	PSG0.8-38H	38	30,4	32,0	10	20	0,109 - 0,050	3,26	8,57	0,059	37,29 € 61,50 €
PSG0.8-40	PSG0.8-40H	40	32,0	33,6	10	20	0,109 - 0,050	4,39	10,03	0,064	38,64 € 63,78 €
PSG0.8-42	PSG0.8-42H	42	33,6	35,2	10	20	0,109 - 0,050	4,61	10,53	0,069	38,92 € 64,24 €
PSG0.8-45	PSG0.8-45H	45	36,0	37,6	10	20	0,109 - 0,050	4,94	11,28	0,077	39,47 € 65,19 €
PSG0.8-48	PSG0.8-48H	48	38,4	40,0	10	30	0,109 - 0,050	5,26	12,04	0,117	39,80 € 65,71 €
PSG0.8-50	PSG0.8-50H	50	40,0	41,6	10	30	0,109 - 0,050	6,50	13,61	0,123	48,06 € 72,54 €
PSG0.8-52	PSG0.8-52H	52	41,6	43,2	10	30	0,109 - 0,050	6,76	14,15	0,129	45,27 € 74,70 €
PSG0.8-55	PSG0.8-55H	55	44,0	45,6	10	30	0,109 - 0,050	7,15	14,97	0,139	47,12 € 77,80 €
PSG0.8-58	PSG0.8-58H	58	46,4	48,0	10	30	0,109 - 0,050	7,54	15,78	0,150	48,57 € 80,15 €

Dimensions in mm

MODULE 0.8

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5	
Standard	Hardened	Teeth					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
PSG0.8-62	PSG0.8-62H	62	49,6	51,2	10	40	0,109 - 0,050	9,60	17,57	0,208
PSG0.8-65	PSG0.8-65H	65	52,0	53,6	10	40	0,122 - 0,055	10,06	18,42	0,220
PSG0.8-68	PSG0.8-68H	68	54,4	56,0	10	40	0,122 - 0,055	10,52	19,27	0,233
PSG0.8-70	PSG0.8-70H	70	56,0	57,6	10	40	0,122 - 0,055	10,83	19,83	0,241
PSG0.8-72	PSG0.8-72H	72	57,6	59,2	10	40	0,122 - 0,055	11,14	20,40	0,250
PSG0.8-75	PSG0.8-75H	75	60,0	61,6	10	50	0,122 - 0,055	11,61	21,25	0,320
PSG0.8-78	PSG0.8-78H	78	62,4	64,0	10	50	0,122 - 0,055	12,07	22,10	0,334
PSG0.8-80	PSG0.8-80H	80	64,0	65,6	10	50	0,122 - 0,055	15,21	23,77	0,344
PSG0.8-82	PSG0.8-82H	82	65,6	67,2	10	50	0,122 - 0,055	15,59	24,36	0,354
PSG0.8-85	PSG0.8-85H	85	68,0	69,6	10	50	0,122 - 0,055	16,16	25,25	0,370
PSG0.8-90	PSG0.8-90H	90	72,0	73,6	10	65	0,122 - 0,055	17,11	26,74	0,504
PSG0.8-95	PSG0.8-95H	95	76,0	77,6	10	65	0,122 - 0,055	18,06	28,22	0,533
PSG0.8-100	PSG0.8-100H	100	80,0	81,6	14	65	0,122 - 0,055	19,45	30,39	0,553
PSG0.8-110	PSG0.8-110H	110	88,0	89,6	14	70	0,123 - 0,053	20,42	31,91	0,661
PSG0.8-120	PSG0.8-120H	120	96,0	97,6	14	70	0,123 - 0,053	21,40	33,43	0,733

Dimensions in mm

MODULE

0.8



- 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

Spur gear

Stainless steel 303 or 316



Quality grade 7e

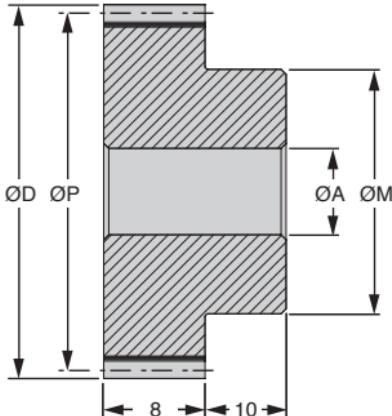
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303	SS- 316	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316	Weight SS- 303 (kg)	Price each SS- 303	1 to 5 SS- 316
PSG0.8-18S	PSG0.8-18SL	18	14,4	16,0	5	11	0,096 - 0,047	0,57 0,44	0,015	35,64 €	40,94 €
PSG0.8-19S	PSG0.8-19SL	19	15,2	16,8	5	11	0,096 - 0,047	0,60 0,47	0,016	36,17 €	41,55 €
PSG0.8-20S	PSG0.8-20SL	20	16,0	17,6	5	11	0,096 - 0,047	0,80 0,62	0,017	36,73 €	42,16 €
PSG0.8-21S	PSG0.8-21SL	21	16,8	18,4	5	12	0,096 - 0,047	0,84 0,65	0,020	37,86 €	43,50 €
PSG0.8-22S	PSG0.8-22SL	22	17,6	19,2	5	12	0,096 - 0,047	0,88 0,68	0,022	38,45 €	44,11 €
PSG0.8-23S	PSG0.8-23SL	23	18,4	20,0	5	12	0,097 - 0,046	0,92 0,71	0,023	38,58 €	44,33 €
PSG0.8-24S	PSG0.8-24SL	24	19,2	20,8	6	14	0,097 - 0,046	0,96 0,74	0,027	38,81 €	44,57 €
PSG0.8-25S	PSG0.8-25SL	25	20,0	21,6	6	14	0,097 - 0,046	0,99 0,77	0,028	40,42 €	46,43 €
PSG0.8-26S	PSG0.8-26SL	26	20,8	22,4	6	14	0,097 - 0,046	1,22 0,95	0,030	41,89 €	48,06 €
PSG0.8-27S	PSG0.8-27SL	27	21,6	23,2	6	14	0,097 - 0,046	1,26 0,98	0,031	42,73 €	49,09 €
PSG0.8-28S	PSG0.8-28SL	28	22,4	24,0	8	18	0,097 - 0,046	1,31 1,02	0,038	43,71 €	50,17 €
PSG0.8-29S	PSG0.8-29SL	29	23,2	24,8	8	18	0,097 - 0,046	1,36 1,06	0,040	44,84 €	51,49 €
PSG0.8-30S	PSG0.8-30SL	30	24,0	25,6	8	18	0,097 - 0,046	1,55 1,20	0,042	45,60 €	52,36 €
PSG0.8-32S	PSG0.8-32SL	32	25,6	27,2	8	18	0,108 - 0,052	1,65 1,28	0,046	46,79 €	53,70 €
PSG0.8-35S	PSG0.8-35SL	35	28,0	29,6	10	20	0,108 - 0,052	1,80 1,40	0,053	48,34 €	55,52 €
PSG0.8-38S	PSG0.8-38SL	38	30,4	32,0	10	20	0,109 - 0,050	1,96 1,52	0,060	50,33 €	57,79 €
PSG0.8-40S	PSG0.8-40SL	40	32,0	33,6	10	20	0,109 - 0,050	2,63 2,05	0,065	52,16 €	59,90 €
PSG0.8-42S	PSG0.8-42SL	42	33,6	35,2	10	20	0,109 - 0,050	2,76 2,15	0,070	52,56 €	60,35 €
PSG0.8-45S	PSG0.8-45SL	45	36,0	37,6	10	20	0,109 - 0,050	2,96 2,30	0,078	53,32 €	61,24 €
PSG0.8-48S	PSG0.8-48SL	48	38,4	40,0	10	30	0,109 - 0,050	3,16 2,46	0,119	53,77 €	61,73 €
PSG0.8-50S	PSG0.8-50SL	50	40,0	41,6	10	30	0,109 - 0,050	3,90 3,03	0,125	59,34 €	68,15 €
PSG0.8-52S	PSG0.8-52SL	52	41,6	43,2	10	30	0,109 - 0,050	4,06 3,16	0,132	61,08 €	70,15 €
PSG0.8-55S	PSG0.8-55SL	55	44,0	45,6	10	30	0,109 - 0,050	4,29 3,34	0,142	63,67 €	73,09 €
PSG0.8-58S	PSG0.8-58SL	58	46,4	48,0	10	30	0,109 - 0,050	4,53 3,52	0,153	65,57 €	75,30 €

Dimensions in mm

MODULE 0.8

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303	Part number SS- 316	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm)		Weight SS- 303 (kg)	Price each 1 to 5 SS- 303	Price each 1 to 5 SS- 316
								SS- 303	SS- 316			
PSG0.8-60S	PSG0.8-60SL	60	48,0	49,6	10	40	0,109 - 0,050	5,57	4,33	0,204	67,10 €	77,05 €
PSG0.8-62S	PSG0.8-62SL	62	49,6	51,2	10	40	0,109 - 0,050	5,76	4,48	0,212	69,31 €	79,58 €
PSG0.8-65S	PSG0.8-65SL	65	52,0	53,6	10	40	0,122 - 0,055	6,04	4,69	0,224	74,26 €	85,28 €
PSG0.8-68S	PSG0.8-68SL	68	54,4	56,0	10	40	0,122 - 0,055	6,31	4,91	0,237	78,08 €	89,66 €
PSG0.8-70S	PSG0.8-70SL	70	56,0	57,6	10	40	0,122 - 0,055	6,50	5,06	0,246	79,71 €	91,51 €
PSG0.8-72S	PSG0.8-72SL	72	57,6	59,2	10	40	0,122 - 0,055	6,69	5,20	0,255	81,42 €	93,48 €
PSG0.8-75S	PSG0.8-75SL	75	60,0	61,6	10	50	0,122 - 0,055	6,96	5,42	0,326	86,90 €	99,75 €
PSG0.8-78S	PSG0.8-78SL	78	62,4	64,0	10	50	0,122 - 0,055	7,24	5,63	0,340	88,18 €	101,24 €
PSG0.8-80S	PSG0.8-80SL	80	64,0	65,6	10	50	0,122 - 0,055	9,51	7,40	0,351	89,96 €	103,30 €
PSG0.8-82S	PSG0.8-82SL	82	65,6	67,2	10	50	0,122 - 0,055	9,75	7,58	0,361	91,26 €	104,76 €
PSG0.8-85S	PSG0.8-85SL	85	68,0	69,6	10	50	0,122 - 0,055	10,10	7,86	0,377	93,21 €	107,02 €
PSG0.8-90S	PSG0.8-90SL	90	72,0	73,6	10	65	0,122 - 0,055	10,70	8,32	0,513	96,20 €	110,47 €
PSG0.8-95S	PSG0.8-95SL	95	76,0	77,6	10	65	0,122 - 0,055	11,29	8,78	0,543	106,51 €	122,30 €
PSG0.8-100S	PSG0.8-100SL	100	80,0	81,6	14	65	0,122 - 0,055	14,33	11,15	0,564	107,95 €	123,94 €
PSG0.8-110S	PSG0.8-110SL	110	88,0	89,6	14	70	0,123 - 0,053	15,05	11,70	0,673	135,10 €	155,14 €
PSG0.8-120S	PSG0.8-120SL	120	96,0	97,6	14	70	0,123 - 0,053	15,77	12,26	0,747	152,81 €	175,46 €

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

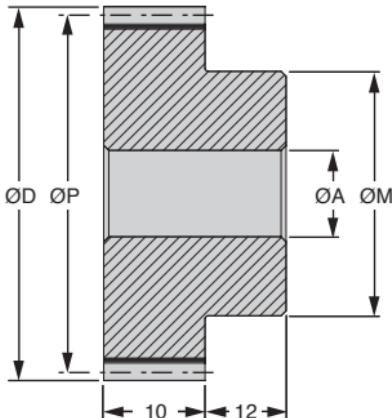
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP Standard	ØP Hardened	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each Standard	Price each Hardened
PSG1.0-18	PSG1.0-18H	18	18	20	5	15	0,127 - 0,053	1,76	6,47	0,033	27,99 €	46,21 €
PSG1.0-19	PSG1.0-19H	19	19	21	5	15	0,128 - 0,052	1,86	6,83	0,035	28,42 €	46,89 €
PSG1.0-20	PSG1.0-20H	20	20	22	5	15	0,128 - 0,052	2,48	8,85	0,038	29,33 €	48,45 €
PSG1.0-21	PSG1.0-21H	21	21	23	5	15	0,128 - 0,052	2,60	9,29	0,040	29,55 €	48,72 €
PSG1.0-22	PSG1.0-22H	22	22	24	5	15	0,128 - 0,052	2,73	9,73	0,043	29,94 €	49,44 €
PSG1.0-23	PSG1.0-23H	23	23	25	5	15	0,128 - 0,052	2,85	10,18	0,045	30,10 €	49,65 €
PSG1.0-24	PSG1.0-24H	24	24	26	6	20	0,128 - 0,052	2,97	10,62	0,060	30,25 €	49,94 €
PSG1.0-25	PSG1.0-25H	25	25	27	6	20	0,128 - 0,052	3,10	11,06	0,063	31,52 €	52,03 €
PSG1.0-26	PSG1.0-26H	26	26	28	6	20	0,128 - 0,052	3,79	11,52	0,066	32,64 €	53,91 €
PSG1.0-27	PSG1.0-27H	27	27	29	6	20	0,128 - 0,052	3,94	11,96	0,069	33,32 €	54,99 €
PSG1.0-28	PSG1.0-28H	28	28	30	6	20	0,128 - 0,052	4,08	12,41	0,073	34,06 €	56,24 €
PSG1.0-29	PSG1.0-29H	29	29	31	8	25	0,128 - 0,052	4,23	12,85	0,089	34,95 €	57,69 €
PSG1.0-30	PSG1.0-30H	30	30	32	8	25	0,128 - 0,052	4,81	13,21	0,092	35,53 €	58,68 €
PSG1.0-32	PSG1.0-32H	32	32	34	8	25	0,129 - 0,051	5,13	14,09	0,100	36,45 €	60,14 €
PSG1.0-35	PSG1.0-35H	35	35	37	8	25	0,129 - 0,051	5,61	15,41	0,112	37,70 €	62,23 €
PSG1.0-38	PSG1.0-38H	38	38	40	10	34	0,129 - 0,051	6,09	16,73	0,160	39,23 €	64,74 €
PSG1.0-40	PSG1.0-40H	40	40	42	10	34	0,129 - 0,051	8,19	19,59	0,170	40,66 €	67,16 €
PSG1.0-42	PSG1.0-42H	42	42	44	10	34	0,129 - 0,051	8,60	20,57	0,180	40,96 €	67,66 €
PSG1.0-45	PSG1.0-45H	45	45	47	10	34	0,129 - 0,051	9,22	22,04	0,196	41,55 €	68,60 €
PSG1.0-48	PSG1.0-48H	48	48	50	10	34	0,129 - 0,051	9,83	23,51	0,213	41,91 €	69,16 €
PSG1.0-50	PSG1.0-50H	50	50	52	10	34	0,129 - 0,051	12,15	26,57	0,225	46,26 €	76,33 €

Dimensions in mm

MODULE 1.0

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP Standard	ØP Hardened	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG1.0-52	PSG1.0-52H	52	52	54	10	40	0,171 - 0,069	12,63	27,64	0,270	47,66 €	78,60 €
PSG1.0-55	PSG1.0-55H	55	55	57	10	40	0,171 - 0,069	13,36	29,23	0,290	49,61 €	81,87 €
PSG1.0-58	PSG1.0-58H	58	58	60	10	40	0,171 - 0,069	14,09	30,82	0,311	51,14 €	84,36 €
PSG1.0-60	PSG1.0-60H	60	60	62	10	40	0,171 - 0,069	17,35	33,20	0,325	52,31 €	86,34 €
PSG1.0-62	PSG1.0-62H	62	62	64	10	40	0,171 - 0,069	17,92	34,31	0,340	54,02 €	89,18 €
PSG1.0-65	PSG1.0-65H	65	65	67	10	50	0,171 - 0,069	18,79	35,97	0,430	57,91 €	95,54 €
PSG1.0-68	PSG1.0-68H	68	68	70	10	50	0,171 - 0,069	19,66	37,63	0,455	60,89 €	100,50 €
PSG1.0-70	PSG1.0-70H	70	70	72	10	50	0,171 - 0,069	20,24	38,73	0,472	62,14 €	102,58 €
PSG1.0-72	PSG1.0-72H	72	72	74	10	50	0,171 - 0,069	20,81	39,84	0,489	63,47 €	104,79 €
PSG1.0-75	PSG1.0-75H	75	75	77	10	50	0,171 - 0,069	21,68	41,50	0,516	67,73 €	111,78 €
PSG1.0-78	PSG1.0-78H	78	78	80	10	60	0,171 - 0,069	22,55	43,16	0,626	68,77 €	113,50 €
PSG1.0-80	PSG1.0-80H	80	80	82	10	60	0,171 - 0,069	29,61	46,42	0,645	70,15 €	115,73 €
PSG1.0-82	PSG1.0-82H	82	82	84	10	60	0,173 - 0,067	30,35	47,58	0,665	71,15 €	117,43 €
PSG1.0-85	PSG1.0-85H	85	85	87	10	60	0,173 - 0,067	31,46	49,32	0,696	72,66 €	119,93 €
PSG1.0-90	PSG1.0-90H	90	90	92	10	60	0,173 - 0,067	33,31	52,22	0,750	75,00 €	123,77 €
PSG1.0-95	PSG1.0-95H	95	95	97	10	60	0,173 - 0,067	35,16	55,12	0,807	83,03 €	137,05 €
PSG1.0-100	PSG1.0-100H	100	100	102	14	70	0,173 - 0,067	37,99	59,36	0,950	84,13 €	138,88 €
PSG1.0-110	PSG1.0-110H	110	110	112	14	70	0,173 - 0,067	41,79	65,30	1,079	105,35 €	173,85 €
PSG1.0-120	PSG1.0-120H	120	120	122	14	70	0,173 - 0,067	45,59	71,24	1,220	119,15 €	196,57 €

Dimensions in mm

MODULE 1.0



- 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.

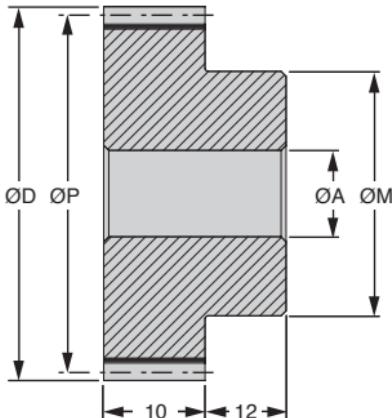
- Torque figures are for 100 rpm and are given as a guide only

Part number SS- 303	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316		Weight kg SS- 303 (kg)	DISCOUNTS		
							Qty. Disc. List.	1+ -5%	6+ -10%	19+ On request	50+ On request	
PSG1.0-18S	PSG1.0-18SL	18	18	20	5	15	0,127 - 0,053	1,06	0,82	0,034	37,81 €	43,45 €
PSG1.0-19S	PSG1.0-19SL	19	19	21	5	15	0,128 - 0,052	1,12	0,87	0,036	38,40 €	44,11 €
PSG1.0-20S	PSG1.0-20SL	20	20	22	5	15	0,128 - 0,052	1,49	1,16	0,038	39,63 €	45,51 €
PSG1.0-21S	PSG1.0-21SL	21	21	23	5	15	0,128 - 0,052	1,56	1,21	0,041	39,90 €	45,78 €
PSG1.0-22S	PSG1.0-22SL	22	22	24	5	15	0,128 - 0,052	1,64	1,27	0,044	40,47 €	46,46 €
PSG1.0-23S	PSG1.0-23SL	23	23	25	5	15	0,128 - 0,052	1,71	1,33	0,046	40,61 €	46,65 €
PSG1.0-24S	PSG1.0-24SL	24	24	26	6	20	0,128 - 0,052	1,78	1,39	0,061	40,86 €	46,93 €
PSG1.0-25S	PSG1.0-25SL	25	25	27	6	20	0,128 - 0,052	1,86	1,45	0,064	42,58 €	48,87 €
PSG1.0-26S	PSG1.0-26SL	26	26	28	6	20	0,128 - 0,052	2,27	1,77	0,067	44,11 €	50,64 €
PSG1.0-27S	PSG1.0-27SL	27	27	29	6	20	0,128 - 0,052	2,36	1,84	0,070	45,00 €	51,67 €
PSG1.0-28S	PSG1.0-28SL	28	28	30	6	20	0,128 - 0,052	2,45	1,90	0,074	45,99 €	52,83 €
PSG1.0-29S	PSG1.0-29SL	29	29	31	8	25	0,128 - 0,052	2,54	1,97	0,091	47,21 €	54,21 €
PSG1.0-30S	PSG1.0-30SL	30	30	32	8	25	0,128 - 0,052	2,89	2,24	0,094	47,99 €	55,10 €
PSG1.0-32S	PSG1.0-32SL	32	32	34	8	25	0,129 - 0,051	3,08	2,39	0,102	49,21 €	56,52 €
PSG1.0-35S	PSG1.0-35SL	35	35	37	8	25	0,129 - 0,051	3,37	2,62	0,114	50,91 €	58,45 €
PSG1.0-38S	PSG1.0-38SL	38	38	40	10	34	0,129 - 0,051	3,66	2,84	0,163	52,99 €	60,81 €
PSG1.0-40S	PSG1.0-40SL	40	40	42	10	34	0,129 - 0,051	4,92	3,82	0,173	54,91 €	63,06 €
PSG1.0-42S	PSG1.0-42SL	42	42	44	10	34	0,129 - 0,051	5,16	4,02	0,183	55,35 €	63,52 €
PSG1.0-45S	PSG1.0-45SL	45	45	47	10	34	0,129 - 0,051	5,53	4,30	0,199	56,14 €	64,46 €
PSG1.0-48S	PSG1.0-48SL	48	48	50	10	34	0,129 - 0,051	5,90	4,59	0,217	56,59 €	64,97 €
PSG1.0-50S	PSG1.0-50SL	50	50	52	10	34	0,129 - 0,051	7,29	5,67	0,229	62,45 €	71,72 €

Dimensions in mm

MODULE

1.0

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316	Weight SS- 303 (kg)	Price each 1 to 5 SS- 303 SS- 316
PSG1.0-52S	PSG1.0-52SL	52	52	54	10	40	0,171 - 0,069	7,58 5,90	0,275 64,31 € 73,83 €
PSG1.0-55S	PSG1.0-55SL	55	55	57	10	40	0,171 - 0,069	8,02 6,24	0,295 67,00 € 76,92 €
PSG1.0-58S	PSG1.0-58SL	58	58	60	10	40	0,171 - 0,069	8,45 6,58	0,317 69,04 € 79,26 €
PSG1.0-60S	PSG1.0-60SL	60	60	62	10	40	0,171 - 0,069	10,41 8,09	0,331 70,62 € 81,14 €
PSG1.0-62S	PSG1.0-62SL	62	62	64	10	40	0,171 - 0,069	10,75 8,36	0,347 72,93 € 83,79 €
PSG1.0-65S	PSG1.0-65SL	65	65	67	10	50	0,171 - 0,069	11,27 8,77	0,438 78,16 € 89,73 €
PSG1.0-68S	PSG1.0-68SL	68	68	70	10	50	0,171 - 0,069	11,79 9,17	0,463 82,20 € 94,39 €
PSG1.0-70S	PSG1.0-70SL	70	70	72	10	50	0,171 - 0,069	12,14 9,44	0,481 83,92 € 96,36 €
PSG1.0-72S	PSG1.0-72SL	72	72	74	10	50	0,171 - 0,069	12,49 9,71	0,498 85,73 € 98,45 €
PSG1.0-75S	PSG1.0-75SL	75	75	77	10	50	0,171 - 0,069	13,01 10,12	0,526 91,44 € 105,01 €
PSG1.0-78S	PSG1.0-78SL	78	78	80	10	60	0,171 - 0,069	13,53 10,52	0,638 92,84 € 106,63 €
PSG1.0-80S	PSG1.0-80SL	80	80	82	10	60	0,171 - 0,069	17,76 13,82	0,658 94,71 € 108,73 €
PSG1.0-82S	PSG1.0-82SL	82	82	84	10	60	0,173 - 0,067	18,21 14,16	0,678 96,09 € 110,33 €
PSG1.0-85S	PSG1.0-85SL	85	85	87	10	60	0,173 - 0,067	18,87 14,68	0,709 98,16 € 112,68 €
PSG1.0-90S	PSG1.0-90SL	90	90	92	10	60	0,173 - 0,067	19,98 15,54	0,764 101,30 € 116,29 €
PSG1.0-95S	PSG1.0-95SL	95	95	97	10	60	0,173 - 0,067	21,09 16,41	0,822 112,12 € 128,73 €
PSG1.0-100S	PSG1.0-100SL	100	100	102	14	70	0,173 - 0,067	23,75 18,76	0,968 113,60 € 130,45 €
PSG1.0-110S	PSG1.0-110SL	110	110	112	14	70	0,173 - 0,067	26,12 20,63	1,099 142,20 € 163,27 €
PSG1.0-120S	PSG1.0-120SL	120	120	122	14	70	0,173 - 0,067	28,49 22,51	1,244 160,85 € 184,67 €

Dimensions in mm

MODULE 1.25



- 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.

Spur gear

Pre-treated or case hardened steel

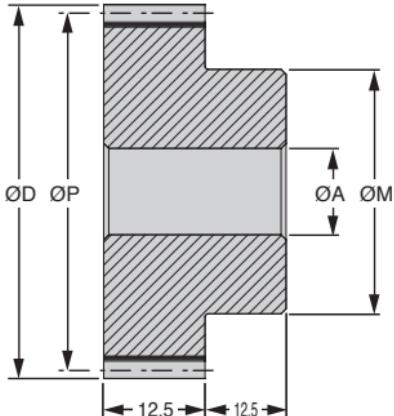


Quality grade 7e25

Part number	Z	OP	OD	OA	ØM Boss	Backlash (mm)	Torque (Nm)	Price each 1 to 5	
								Standard	Hardened
Standard	Hardened	Teeth	Pitch	External	Bore			Weight (kg)	Price each 1 to 5
PSG1.25-18	PSG1.25-18H	18	22,50	25,00	6	15	0,097 - 0,046	3,29	12,08 0,050 35,02 € 57,79 €
PSG1.25-19	PSG1.25-19H	19	23,75	26,25	6	15	0,097 - 0,046	3,48	12,75 0,055 35,53 € 58,68 €
PSG1.25-20	PSG1.25-20H	20	25,00	27,50	6	15	0,108 - 0,052	4,63	16,97 0,059 36,08 € 59,56 €
PSG1.25-21	PSG1.25-21H	21	26,25	28,75	8	20	0,108 - 0,052	4,86	17,82 0,073 37,24 € 61,42 €
PSG1.25-22	PSG1.25-22H	22	27,50	30,00	8	20	0,108 - 0,052	5,09	18,67 0,079 37,76 € 62,31 €
PSG1.25-23	PSG1.25-23H	23	28,75	31,25	8	20	0,108 - 0,052	5,32	19,52 0,084 37,92 € 62,58 €
PSG1.25-24	PSG1.25-24H	24	30,00	32,50	8	22	0,108 - 0,052	5,55	20,36 0,096 38,14 € 62,91 €
PSG1.25-25	PSG1.25-25H	25	31,25	33,75	8	22	0,109 - 0,050	5,79	21,21 0,102 39,69 € 65,55 €
PSG1.25-26	PSG1.25-26H	26	32,50	35,00	8	22	0,109 - 0,050	7,08	22,50 0,108 41,13 € 67,89 €
PSG1.25-27	PSG1.25-27H	27	33,75	36,25	8	22	0,109 - 0,050	7,35	23,37 0,114 42,00 € 69,28 €
PSG1.25-28	PSG1.25-28H	28	35,00	37,50	8	25	0,109 - 0,050	7,62	24,23 0,132 42,91 € 70,83 €
PSG1.25-29	PSG1.25-29H	29	36,25	38,75	8	25	0,109 - 0,050	7,90	25,10 0,138 44,05 € 72,71 €
PSG1.25-30	PSG1.25-30H	30	37,50	40,00	8	25	0,109 - 0,050	8,98	25,80 0,145 44,79 € 73,92 €
PSG1.25-32	PSG1.25-32H	32	40,00	42,50	8	25	0,109 - 0,050	9,58	27,52 0,160 45,94 € 75,83 €
PSG1.25-35	PSG1.25-35H	35	43,75	46,25	10	30	0,109 - 0,050	10,48	30,10 0,200 47,51 € 78,40 €
PSG1.25-38	PSG1.25-38H	38	47,50	50,00	10	30	0,109 - 0,050	11,38	32,68 0,226 49,44 € 81,57 €
PSG1.25-40	PSG1.25-40H	40	50,00	52,50	10	30	0,120 - 0,057	15,31	38,26 0,245 51,25 € 84,58 €
PSG1.25-42	PSG1.25-42H	42	52,50	55,00	10	30	0,122 - 0,055	16,07	40,17 0,264 51,65 € 85,20 €
PSG1.25-45	PSG1.25-45H	45	56,25	58,75	10	30	0,122 - 0,055	17,22	43,04 0,296 52,38 € 86,45 €

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 (mm)	Torque (Nm)	Weight Standard	Price each 1 to 5			
Standard	Hardened	Teeth	Pitch	External	Bore	Boss	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	52,81 €	87,19 €
PSG1.25-50	PSG1.25-50H	50	62,50	65,00	10	40	0,122 - 0,055	22,69	51,90	0,407	58,32 €	96,23 €
PSG1.25-52	PSG1.25-52H	52	65,00	67,50	10	40	0,122 - 0,055	23,60	53,98	0,431	60,03 €	99,09 €
PSG1.25-55	PSG1.25-55H	55	68,75	71,25	10	40	0,122 - 0,055	24,96	57,09	0,469	62,53 €	103,21 €
PSG1.25-58	PSG1.25-58H	58	72,50	75,00	10	40	0,122 - 0,055	26,32	60,20	0,510	64,41 €	106,31 €
PSG1.25-60	PSG1.25-60H	60	75,00	77,50	10	50	0,122 - 0,055	32,40	64,85	0,608	65,91 €	108,78 €
PSG1.25-62	PSG1.25-62H	62	77,50	80,00	10	50	0,122 - 0,055	33,48	67,01	0,637	68,10 €	112,35 €
PSG1.25-65	PSG1.25-65H	65	81,25	83,75	10	50	0,123 - 0,053	35,10	70,25	0,683	72,95 €	120,43 €
PSG1.25-68	PSG1.25-68H	68	85,00	87,50	10	50	0,123 - 0,053	36,72	73,49	0,731	76,72 €	126,60 €
PSG1.25-70	PSG1.25-70H	70	87,50	90,00	10	50	0,123 - 0,053	37,80	75,65	0,764	78,30 €	128,95 €
PSG1.25-72	PSG1.25-72H	72	90,00	92,50	10	50	0,123 - 0,053	38,88	77,82	0,798	80,02 €	132,02 €
PSG1.25-75	PSG1.25-75H	75	93,75	96,25	10	60	0,123 - 0,053	40,50	81,06	0,935	85,37 €	140,84 €
PSG1.25-78	PSG1.25-78H	78	97,50	100,00	10	60	0,123 - 0,053	42,12	84,30	0,991	86,63 €	142,99 €
PSG1.25-80	PSG1.25-80H	80	100,00	102,50	10	60	0,138 - 0,064	55,30	90,66	1,029	88,39 €	145,89 €
PSG1.25-82	PSG1.25-82H	82	102,50	105,00	10	60	0,138 - 0,064	56,68	92,92	1,067	89,66 €	147,94 €
PSG1.25-85	PSG1.25-85H	85	106,25	108,75	10	60	0,138 - 0,064	58,75	96,32	1,128	91,60 €	151,13 €
PSG1.25-90	PSG1.25-90H	90	112,50	115,00	10	65	0,138 - 0,064	62,21	101,99	1,281	94,54 €	156,00 €
PSG1.25-95	PSG1.25-95H	95	118,75	121,25	10	65	0,138 - 0,064	65,67	107,66	1,392	104,65 €	172,69 €
PSG1.25-100	PSG1.25-100H	100	125,00	127,50	14	65	0,140 - 0,062	74,20	115,95	1,494	106,03 €	174,99 €
PSG1.25-110	PSG1.25-110H	110	137,50	140,00	14	70	0,140 - 0,062	77,92	121,74	1,798	132,75 €	219,08 €
PSG1.25-120	PSG1.25-120H	120	150,00	152,50	14	70	0,140 - 0,062	81,63	127,54	2,075	150,13 €	250,13 €

Dimensions in mm

MODULE 1.25



- 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%

Spur gear Stainless steel 303 or 316



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

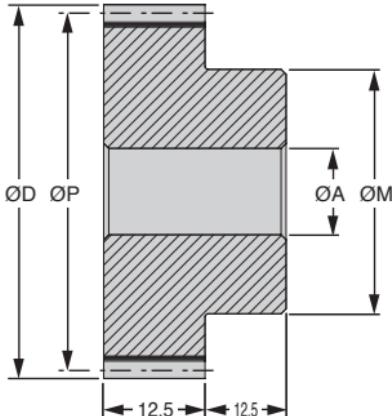
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)	Weight SS-303	Price each	1 to 5 SS-303	SS-316 (kg)
SS- 303	SS- 316	Teeth	Pitch	External	Bore	Boss	SS-303	SS-316			
PSG1.25-18S	PSG1.25-18SL	18	22,50	25,00	6	15	0,097 - 0,046	1,98	1,54	0,051	47,31 € 54,31 €
PSG1.25-19S	PSG1.25-19SL	19	23,75	26,25	6	15	0,097 - 0,046	2,09	1,62	0,056	48,01 € 55,10 €
PSG1.25-20S	PSG1.25-20SL	20	25,00	27,50	6	15	0,108 - 0,052	2,78	2,16	0,061	48,72 € 55,93 €
PSG1.25-21S	PSG1.25-21SL	21	26,25	28,75	8	20	0,108 - 0,052	2,92	2,27	0,075	50,25 € 57,71 €
PSG1.25-22S	PSG1.25-22SL	22	27,50	30,00	8	20	0,108 - 0,052	3,05	2,38	0,080	50,98 € 58,54 €
PSG1.25-23S	PSG1.25-23SL	23	28,75	31,25	8	20	0,108 - 0,052	3,19	2,48	0,085	51,22 € 58,79 €
PSG1.25-24S	PSG1.25-24SL	24	30,00	32,50	8	22	0,108 - 0,052	3,33	2,59	0,098	51,49 € 59,12 €
PSG1.25-25S	PSG1.25-25SL	25	31,25	33,75	8	22	0,109 - 0,050	3,47	2,70	0,104	53,60 € 61,58 €
PSG1.25-26S	PSG1.25-26SL	26	32,50	35,00	8	22	0,109 - 0,050	4,25	3,30	0,110	55,54 € 63,78 €
PSG1.25-27S	PSG1.25-27SL	27	33,75	36,25	8	22	0,109 - 0,050	4,41	3,43	0,116	56,68 € 65,10 €
PSG1.25-28S	PSG1.25-28SL	28	35,00	37,50	8	25	0,109 - 0,050	4,57	3,56	0,134	57,98 € 66,57 €
PSG1.25-29S	PSG1.25-29SL	29	36,25	38,75	8	25	0,109 - 0,050	4,74	3,68	0,141	59,48 € 68,29 €
PSG1.25-30S	PSG1.25-30SL	30	37,50	40,00	8	25	0,109 - 0,050	5,39	4,19	0,148	60,47 € 69,44 €
PSG1.25-32S	PSG1.25-32SL	32	40,00	42,50	8	25	0,109 - 0,050	5,75	4,47	0,163	62,02 € 71,23 €
PSG1.25-35S	PSG1.25-35SL	35	43,75	46,25	10	30	0,109 - 0,050	6,29	4,89	0,204	64,13 € 73,65 €
PSG1.25-38S	PSG1.25-38SL	38	47,50	50,00	10	30	0,109 - 0,050	6,83	5,31	0,230	66,74 € 76,64 €
PSG1.25-40S	PSG1.25-40SL	40	50,00	52,50	10	30	0,120 - 0,057	9,18	7,14	0,250	69,21 € 79,46 €
PSG1.25-42S	PSG1.25-42SL	42	52,50	55,00	10	30	0,122 - 0,055	9,64	7,50	0,270	69,71 € 80,08 €
PSG1.25-45S	PSG1.25-45SL	45	56,25	58,75	10	30	0,122 - 0,055	10,33	8,04	0,301	70,73 € 81,21 €

Dimensions in mm

MODULE 1.25

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm)		Weight SS-303 (kg)	Price each 1 to 5 SS-303
							SS-303	SS-316		
PSG1.25-48S	PSG1.25-48SL	48	60,00	62,50	10	40	0,122 - 0,055	11,02	8,57	0,390 71,31 € 81,87 €
PSG1.25-50S	PSG1.25-50SL	50	62,50	65,00	10	40	0,122 - 0,055	13,61	10,59	0,414 78,71 € 90,38 €
PSG1.25-52S	PSG1.25-52SL	52	65,00	67,50	10	40	0,122 - 0,055	14,16	11,01	0,439 81,03 € 93,06 €
PSG1.25-55S	PSG1.25-55SL	55	68,75	71,25	10	40	0,122 - 0,055	14,97	11,65	0,478 84,46 € 96,95 €
PSG1.25-58S	PSG1.25-58SL	58	72,50	75,00	10	40	0,122 - 0,055	15,79	12,28	0,520 87,00 € 99,88 €
PSG1.25-60S	PSG1.25-60SL	60	75,00	77,50	10	50	0,122 - 0,055	19,44	15,12	0,619 89,00 € 102,19 €
PSG1.25-62S	PSG1.25-62SL	62	77,50	80,00	10	50	0,122 - 0,055	20,09	15,62	0,649 91,93 € 105,58 €
PSG1.25-65S	PSG1.25-65SL	65	81,25	83,75	10	50	0,123 - 0,053	21,06	16,38	0,696 98,50 € 113,11 €
PSG1.25-68S	PSG1.25-68SL	68	85,00	87,50	10	50	0,123 - 0,053	22,03	17,14	0,745 103,58 € 118,95 €
PSG1.25-70S	PSG1.25-70SL	70	87,50	90,00	10	50	0,123 - 0,053	22,68	17,64	0,778 105,74 € 121,39 €
PSG1.25-72S	PSG1.25-72SL	72	90,00	92,50	10	50	0,123 - 0,053	23,33	18,14	0,813 108,01 € 124,03 €
PSG1.25-75S	PSG1.25-75SL	75	93,75	96,25	10	60	0,123 - 0,053	24,30	18,90	0,953 115,23 € 132,30 €
PSG1.25-78S	PSG1.25-78SL	78	97,50	100,00	10	60	0,123 - 0,053	25,27	19,66	1,009 116,95 € 134,30 €
PSG1.25-80S	PSG1.25-80SL	80	100,00	102,50	10	60	0,138 - 0,064	33,18	25,81	1,048 119,34 € 137,05 €
PSG1.25-82S	PSG1.25-82SL	82	102,50	105,00	10	60	0,138 - 0,064	34,01	26,45	1,088 121,06 € 138,95 €
PSG1.25-85S	PSG1.25-85SL	85	106,25	108,75	10	60	0,138 - 0,064	35,25	27,42	1,149 123,65 € 141,95 €
PSG1.25-90S	PSG1.25-90SL	90	112,50	115,00	10	65	0,138 - 0,064	37,33	29,03	1,305 127,60 € 146,55 €
PSG1.25-95S	PSG1.25-95SL	95	118,75	121,25	10	65	0,138 - 0,064	39,40	30,64	1,418 141,29 € 162,21 €
PSG1.25-100S	PSG1.25-100SL	100	125,00	127,50	14	65	0,140 - 0,062	50,00	38,89	1,523 143,14 € 164,37 €
PSG1.25-110S	PSG1.25-110SL	110	137,50	140,00	14	70	0,140 - 0,062	52,51	40,84	1,833 179,23 € 205,78 €
PSG1.25-120S	PSG1.25-120SL	120	150,00	152,50	14	70	0,140 - 0,062	55,01	42,78	2,114 202,67 € 232,71 €

MODULE

1.5



- 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%

Spur gear

Pre-treated or case hardened steel



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

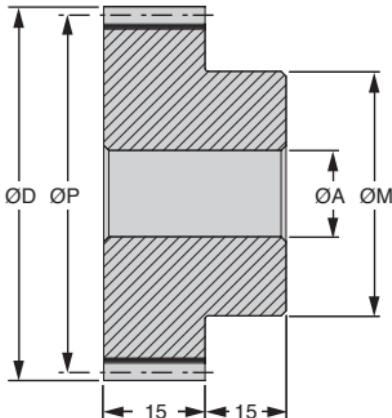
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard	Z Hardened	DP Teeth	OP Pitch	OD External	OA Bore	OB Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG1.5-18	PSG1.5-18H	18	27,0	30,0	6	22	0,128 - 0,052	5,49	20,13	0,105	36,67 €	60,51 €	
PSG1.5-19	PSG1.5-19H	19	28,5	31,5	6	22	0,128 - 0,052	5,79	21,24	0,112	38,06 €	62,81 €	
PSG1.5-20	PSG1.5-20H	20	30,0	33,0	6	22	0,128 - 0,052	7,71	28,28	0,120	39,97 €	65,99 €	
PSG1.5-21	PSG1.5-21H	21	31,5	34,5	8	25	0,129 - 0,051	8,10	29,69	0,137	40,30 €	66,52 €	
PSG1.5-22	PSG1.5-22H	22	33,0	36,0	8	25	0,129 - 0,051	8,48	31,10	0,145	40,78 €	67,29 €	
PSG1.5-23	PSG1.5-23H	23	34,5	37,5	8	25	0,129 - 0,051	8,87	32,52	0,155	41,50 €	68,52 €	
PSG1.5-24	PSG1.5-24H	24	36,0	39,0	8	25	0,129 - 0,051	9,25	33,93	0,164	41,91 €	69,16 €	
PSG1.5-25	PSG1.5-25H	25	37,5	40,5	8	25	0,129 - 0,051	9,64	35,34	0,174	44,11 €	72,76 €	
PSG1.5-26	PSG1.5-26H	26	39,0	42,0	8	25	0,129 - 0,051	11,79	38,88	0,185	46,18 €	76,21 €	
PSG1.5-27	PSG1.5-27H	27	40,5	43,5	8	25	0,129 - 0,051	12,25	40,38	0,196	47,66 €	78,60 €	
PSG1.5-28	PSG1.5-28H	28	42,0	45,0	8	25	0,129 - 0,051	12,70	41,87	0,207	48,99 €	80,85 €	
PSG1.5-29	PSG1.5-29H	29	43,5	46,5	10	35	0,129 - 0,051	13,15	43,37	0,268	49,75 €	82,13 €	
PSG1.5-30	PSG1.5-30H	30	45,0	48,0	10	35	0,129 - 0,051	14,97	44,58	0,280	51,25 €	84,56 €	
PSG1.5-32	PSG1.5-32H	32	48,0	51,0	10	35	0,129 - 0,051	15,97	47,55	0,306	52,99 €	87,47 €	
PSG1.5-35	PSG1.5-35H	35	52,5	55,5	10	35	0,171 - 0,069	17,46	52,01	0,347	54,69 €	90,22 €	
PSG1.5-38	PSG1.5-38H	38	57,0	60,0	12	45	0,171 - 0,069	18,96	56,47	0,458	59,90 €	98,86 €	
PSG1.5-40	PSG1.5-40H	40	60,0	63,0	12	45	0,171 - 0,069	25,50	66,12	0,490	62,31 €	102,81 €	
PSG1.5-42	PSG1.5-42H	42	63,0	66,0	12	45	0,171 - 0,069	26,78	69,42	0,524	62,58 €	103,32 €	
PSG1.5-45	PSG1.5-45H	45	67,5	70,5	12	45	0,171 - 0,069	28,69	74,38	0,578	63,95 €	105,53 €	
PSG1.5-48	PSG1.5-48H	48	72,0	75,0	12	45	0,171 - 0,069	30,60	79,34	0,636	68,32 €	112,74 €	

Dimensions in mm

MODULE

1.5



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard	Teeth Hardened	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG1.5-50	PSG1.5-50H	50	75,0	78,0	14	55	0,171 - 0,069	37,80	89,68	0,760	76,36 € 126,02 €
PSG1.5-52	PSG1.5-52H	52	78,0	81,0	14	55	0,171 - 0,069	39,31	93,27	0,802	80,27 € 132,42 €
PSG1.5-55	PSG1.5-55H	55	82,5	85,5	14	55	0,173 - 0,067	41,58	98,65	0,868	82,26 € 135,78 €
PSG1.5-58	PSG1.5-58H	58	87,0	90,0	14	55	0,173 - 0,067	43,85	104,03	0,939	84,13 € 138,88 €
PSG1.5-60	PSG1.5-60H	60	90,0	93,0	14	55	0,173 - 0,067	53,98	112,05	0,987	84,92 € 140,17 €
PSG1.5-62	PSG1.5-62H	62	93,0	96,0	14	55	0,173 - 0,067	55,78	115,79	1,038	86,61 € 142,94 €
PSG1.5-65	PSG1.5-65H	65	97,5	100,5	14	55	0,173 - 0,067	58,48	121,39	1,117	89,89 € 148,32 €
PSG1.5-68	PSG1.5-68H	68	102,0	105,0	16	65	0,173 - 0,067	61,18	127,00	1,300	95,32 € 157,33 €
PSG1.5-70	PSG1.5-70H	70	105,0	108,0	16	65	0,173 - 0,067	62,98	130,73	1,357	98,77 € 162,96 €
PSG1.5-72	PSG1.5-72H	72	108,0	111,0	16	65	0,173 - 0,067	64,78	134,47	1,416	104,41 € 172,25 €
PSG1.5-75	PSG1.5-75H	75	112,5	115,5	16	65	0,173 - 0,067	67,48	140,07	1,507	111,28 € 183,66 €
PSG1.5-78	PSG1.5-78H	78	117,0	120,0	16	65	0,173 - 0,067	70,17	145,67	1,602	117,26 € 193,55 €
PSG1.5-80	PSG1.5-80H	80	120,0	123,0	16	65	0,173 - 0,067	92,13	156,66	1,668	121,64 € 200,70 €
PSG1.5-82	PSG1.5-82H	82	123,0	126,0	16	65	0,175 - 0,065	94,44	160,57	1,735	127,20 € 209,87 €

Dimensions in mm

MODULE 1.5



- 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

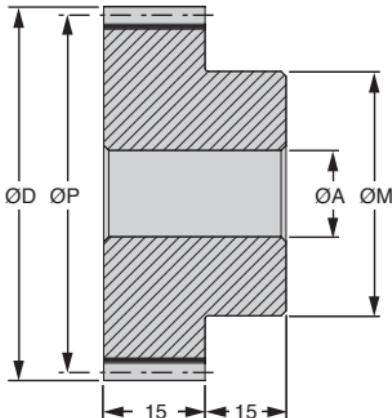
- Hole for dowel pin

Info.

- Torque figures are for 100 rpm and are given as a guide only

Part number SS- 303	SS- 316	Z	OP Pitch	OD External	OA Bore	ØM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316		Weight SS- 303 (kg)	Price each 1 to 5 SS- 303 SS- 316		
								Qty. 1+	6+	19+	50+		
Disc.	List.	-5%	-10%	On request									
PSG1.5-18S	PSG1.5-18SL	18	27,0	30,0	6	22	0,128 - 0,052	3,29	2,56	0,107	49,51	€ 56,87	€
PSG1.5-19S	PSG1.5-19SL	19	28,5	31,5	6	22	0,128 - 0,052	3,48	2,70	0,114	51,36	€ 58,96	€
PSG1.5-20S	PSG1.5-20SL	20	30,0	33,0	6	22	0,128 - 0,052	4,63	3,60	0,123	53,96	€ 61,97	€
PSG1.5-21S	PSG1.5-21SL	21	31,5	34,5	8	25	0,129 - 0,051	4,86	3,78	0,139	54,43	€ 62,51	€
PSG1.5-22S	PSG1.5-22SL	22	33,0	36,0	8	25	0,129 - 0,051	5,09	3,96	0,148	55,08	€ 63,22	€
PSG1.5-23S	PSG1.5-23SL	23	34,5	37,5	8	25	0,129 - 0,051	5,32	4,14	0,158	56,03	€ 63,22	€
PSG1.5-24S	PSG1.5-24SL	24	36,0	39,0	8	25	0,129 - 0,051	5,55	4,32	0,168	56,59	€ 64,97	€
PSG1.5-25S	PSG1.5-25SL	25	37,5	40,5	8	25	0,129 - 0,051	5,78	4,50	0,178	59,51	€ 68,32	€
PSG1.5-26S	PSG1.5-26SL	26	39,0	42,0	8	25	0,129 - 0,051	7,08	5,50	0,189	62,36	€ 71,60	€
PSG1.5-27S	PSG1.5-27SL	27	40,5	43,5	8	25	0,129 - 0,051	7,35	5,72	0,200	64,31	€ 73,83	€
PSG1.5-28S	PSG1.5-28SL	28	42,0	45,0	8	25	0,129 - 0,051	7,62	5,93	0,211	66,11	€ 75,91	€
PSG1.5-29S	PSG1.5-29SL	29	43,5	46,5	10	35	0,129 - 0,051	7,89	6,14	0,273	67,18	€ 77,10	€
PSG1.5-30S	PSG1.5-30SL	30	45,0	48,0	10	35	0,129 - 0,051	8,98	6,99	0,285	69,18	€ 79,46	€
PSG1.5-32S	PSG1.5-32SL	32	48,0	51,0	10	35	0,129 - 0,051	9,58	7,45	0,311	71,54	€ 82,15	€
PSG1.5-35S	PSG1.5-35SL	35	52,5	55,5	10	35	0,171 - 0,069	10,48	8,15	0,354	73,83	€ 84,79	€
PSG1.5-38S	PSG1.5-38SL	38	57,0	60,0	12	45	0,171 - 0,069	11,38	8,85	0,467	80,91	€ 92,88	€
PSG1.5-40S	PSG1.5-40SL	40	60,0	63,0	12	45	0,171 - 0,069	15,30	11,90	0,500	84,11	€ 96,59	€
PSG1.5-42S	PSG1.5-42SL	42	63,0	66,0	12	45	0,171 - 0,069	16,07	12,50	0,534	84,53	€ 97,05	€
PSG1.5-45S	PSG1.5-45SL	45	67,5	70,5	12	45	0,171 - 0,069	17,21	13,39	0,589	86,34	€ 99,14	€
PSG1.5-48S	PSG1.5-48SL	48	72,0	75,0	12	45	0,171 - 0,069	18,36	14,28	0,648	92,26	€ 105,92	€

Dimensions in mm



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS-303	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) SS-303 SS-316	Weight kg) SS-303 SS-316	Price each 1 to 5 SS-303 SS-316
PSG1.5-50S	PSG1.5-50SL	50	75,0	78,0	14	55	0,171 - 0,069	22,68 17,64	0,774 103,10 € 118,40 €
PSG1.5-52S	PSG1.5-52SL	52	78,0	81,0	14	55	0,171 - 0,069	23,59 18,35	0,817 108,36 € 124,38 €
PSG1.5-55S	PSG1.5-55SL	55	82,5	85,5	14	55	0,173 - 0,067	24,95 19,40	0,885 111,08 € 127,54 €
PSG1.5-58S	PSG1.5-58SL	58	87,0	90,0	14	55	0,173 - 0,067	26,31 20,46	0,956 113,60 € 130,45 €
PSG1.5-60S	PSG1.5-60SL	60	90,0	93,0	14	55	0,173 - 0,067	32,39 25,19	1,006 114,68 € 131,70 €
PSG1.5-62S	PSG1.5-62SL	62	93,0	96,0	14	55	0,173 - 0,067	33,47 26,03	1,058 116,95 € 134,28 €
PSG1.5-65S	PSG1.5-65SL	65	97,5	100,5	14	55	0,173 - 0,067	35,09 27,29	1,138 121,36 € 139,32 €
PSG1.5-68S	PSG1.5-68SL	68	102,0	105,0	16	65	0,173 - 0,067	36,71 28,55	1,324 128,70 € 147,80 €
PSG1.5-70S	PSG1.5-70SL	70	105,0	108,0	16	65	0,173 - 0,067	37,79 29,39	1,383 133,30 € 153,09 €
PSG1.5-72S	PSG1.5-72SL	72	108,0	111,0	16	65	0,173 - 0,067	38,87 30,23	1,443 140,93 € 161,83 €
PSG1.5-75S	PSG1.5-75SL	75	112,5	115,5	16	65	0,173 - 0,067	40,49 31,49	1,536 150,24 € 172,49 €
PSG1.5-78S	PSG1.5-78SL	78	117,0	120,0	16	65	0,173 - 0,067	42,10 32,75	1,633 158,33 € 181,83 €
PSG1.5-80S	PSG1.5-80SL	80	120,0	123,0	16	65	0,173 - 0,067	55,28 43,00	1,700 164,20 € 188,56 €
PSG1.5-82S	PSG1.5-82SL	82	123,0	126,0	16	65	0,175 - 0,065	56,66 44,07	1,768 171,71 € 197,15 €

Dimensions in mm

MODULE 2.0



- Quality grade 7e25 DIN 3961 (AGMA Q10)

- Material :

Pre-treated steel 35NCD6, 28HRC
Case hardened steel 20NCD2 58HRC

- Teeth conform to DIN 867

- Tooth thickness conforms to DIN 3967

- Efficiency approx 98%



Quality grade 7e25

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.

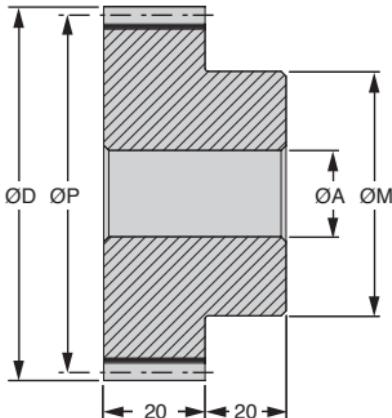
DISCOUNTS

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	(mm)	Standard	Hardened	Standard	Hardened
PSG2.0-18	PSG2.0-18H	18	36	40	10	30	0.129 - 0.051	12,28	45,04	0,244 55,10 € 90,96 €
PSG2.0-19	PSG2.0-19H	19	38	42	10	30	0.129 - 0.051	12,97	47,54	0,262 56,35 € 93,01 €
PSG2.0-20	PSG2.0-20H	20	40	44	10	30	0.129 - 0.051	17,26	63,28	0,281 57,51 € 94,93 €
PSG2.0-21	PSG2.0-21H	21	42	46	12	35	0.129 - 0.051	18,12	66,44	0,330 59,03 € 97,45 €
PSG2.0-22	PSG2.0-22H	22	44	48	12	35	0.129 - 0.051	18,98	69,60	0,351 59,95 € 99,00 €
PSG2.0-23	PSG2.0-23H	23	46	50	12	35	0.129 - 0.051	19,85	72,77	0,373 61,24 € 101,05 €
PSG2.0-24	PSG2.0-24H	24	48	52	12	35	0.129 - 0.051	20,71	75,93	0,396 62,56 € 103,26 €
PSG2.0-25	PSG2.0-25H	25	50	54	12	35	0.129 - 0.051	21,57	79,09	0,420 66,08 € 109,02 €
PSG2.0-26	PSG2.0-26H	26	52	56	12	35	0,171 - 0,069	26,39	92,17	0,445 68,18 € 112,52 €
PSG2.0-27	PSG2.0-27H	27	54	58	12	35	0,171 - 0,069	27,41	95,71	0,471 70,60 € 116,54 €
PSG2.0-28	PSG2.0-28H	28	56	60	12	35	0,171 - 0,069	28,42	99,26	0,498 72,15 € 119,04 €

Dimensions in mm

MODULE 2.0



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard	Teeth Hardened	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG2.0-29	PSG2.0-29H	29	58	62	14	45	0.171 - 0.069	29,44	102,80	0,612	73,95 €	122,03 €
PSG2.0-30	PSG2.0-30H	30	60	64	14	45	0.171 - 0.069	33,50	105,67	0,640	75,59 €	124,69 €
PSG2.0-32	PSG2.0-32H	32	64	68	14	45	0.171 - 0.069	35,73	112,71	0,701	82,09 €	135,47 €
PSG2.0-35	PSG2.0-35H	35	70	74	14	45	0.171 - 0.069	39,08	123,28	0,799	90,60 €	149,52 €
PSG2.0-38	PSG2.0-38H	38	76	80	14	45	0.171 - 0.069	42,43	133,85	0,907	99,47 €	149,52 €
PSG2.0-40	PSG2.0-40H	40	80	84	16	55	0.171 - 0.069	57,07	156,72	1,092	103,65 €	164,12 €
PSG2.0-42	PSG2.0-42H	42	84	88	16	55	0.173 - 0.067	59,93	164,56	1,172	106,81 €	171,05 €
PSG2.0-45	PSG2.0-45H	45	90	94	16	55	0.173 - 0.067	64,21	176,31	1,300	111,50 €	176,31 €
PSG2.0-48	PSG2.0-48H	48	96	100	16	55	0.173 - 0.067	68,49	188,06	1,437	120,06 €	198,09 €
PSG2.0-50	PSG2.0-50H	50	100	104	20	65	0.173 - 0.067	84,59	212,58	1,646	128,54 €	212,09 €
PSG2.0-52	PSG2.0-52H	52	104	108	20	65	0.173 - 0.067	87,98	221,08	1,746	133,28 €	219,99 €
PSG2.0-55	PSG2.0-55H	55	110	114	20	65	0.173 - 0.067	93,05	233,84	1,903	150,53 €	248,37 €
PSG2.0-58	PSG2.0-58H	58	116	120	20	65	0.173 - 0.067	98,13	246,59	2,070	159,64 €	263,42 €
PSG2.0-60	PSG2.0-60H	60	120	124	20	65	0.173 - 0.067	120,80	265,61	2,186	163,67 €	270,12 €
PSG2.0-62	PSG2.0-62H	62	124	128	20	65	0.175 - 0.065	124,83	274,46	2,306	167,70 €	276,67 €

Dimensions in mm

MODULE 2.0



- 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

Spur gear

Stainless steel 303 or 316



Quality grade 7e25

DISCOUNTS

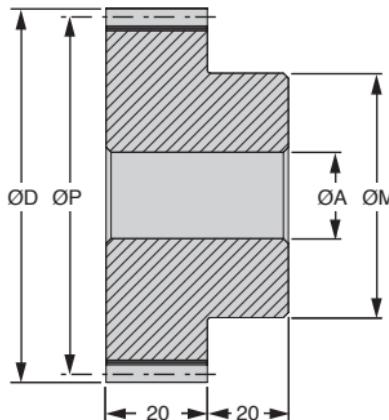
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number SS- 303	Part number SS- 316	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316	Weight SS- 303 (kg)	Price each SS- 303	1 to 5 SS- 316
PSG2.0-18S	PSG2.0-18SL	18	36	40	10	30	0,129 - 0,051	7,37 5,73	0,249	74,41 €	85,42 €
PSG2.0-19S	PSG2.0-19SL	19	38	42	10	30	0,129 - 0,051	7,78 6,05	0,267	76,09 €	87,39 €
PSG2.0-20S	PSG2.0-20SL	20	40	44	10	30	0,129 - 0,051	10,35 8,05	0,287	77,69 €	89,18 €
PSG2.0-21S	PSG2.0-21SL	21	42	46	12	35	0,129 - 0,051	10,87 8,46	0,337	79,76 €	91,57 €
PSG2.0-22S	PSG2.0-22SL	22	44	48	12	35	0,129 - 0,051	11,39 8,86	0,358	80,96 €	92,99 €
PSG2.0-23S	PSG2.0-23SL	23	46	50	12	35	0,129 - 0,051	11,91 9,26	0,380	82,69 €	94,93 €
PSG2.0-24S	PSG2.0-24SL	24	48	52	12	35	0,129 - 0,051	12,43 9,66	0,404	84,51 €	97,00 €
PSG2.0-25S	PSG2.0-25SL	25	50	54	12	35	0,129 - 0,051	12,94 10,07	0,428	89,21 €	102,41 €
PSG2.0-26S	PSG2.0-26SL	26	52	56	12	35	0,171 - 0,069	15,84 12,32	0,454	92,05 €	105,70 €
PSG2.0-27S	PSG2.0-27SL	27	54	58	12	35	0,171 - 0,069	16,44 12,79	0,480	95,32 €	109,46 €
PSG2.0-28S	PSG2.0-28SL	28	56	60	12	35	0,171 - 0,069	17,05 13,26	0,507	97,38 €	111,83 €

Dimensions in mm

MODULE

2.0



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number SS- 303	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316	Weight SS-303 (kg)	Price each 1 to 5		
									SS- 303	SS- 316	
PSG2.0-29S	PSG2.0-29SL	29	58	62	14	45	0,171 - 0,069	17,66	13,74	0,623	99,86 € 114,63 €
PSG2.0-30S	PSG2.0-30SL	30	60	64	14	45	0,171 - 0,069	20,10	15,63	0,653	102,03 € 117,15 €
PSG2.0-32S	PSG2.0-32SL	32	64	68	14	45	0,171 - 0,069	21,44	16,68	0,714	110,84 € 127,26 €
PSG2.0-35S	PSG2.0-35SL	35	70	74	14	45	0,171 - 0,069	23,45	18,24	0,815	122,32 € 140,45 €
PSG2.0-38S	PSG2.0-38SL	38	76	80	14	45	0,171 - 0,069	25,46	19,80	0,924	134,28 € 99,47 €
PSG2.0-40S	PSG2.0-40SL	40	80	84	16	55	0,171 - 0,069	34,24	26,63	1,113	139,96 € 160,66 €
PSG2.0-42S	PSG2.0-42SL	42	84	88	16	55	0,173 - 0,067	35,96	27,97	1,194	144,25 € 165,62 €
PSG2.0-45S	PSG2.0-45SL	45	90	94	16	55	0,173 - 0,067	38,52	29,96	1,325	150,48 € 172,76 €
PSG2.0-48S	PSG2.0-48SL	48	96	100	16	55	0,173 - 0,067	41,09	31,96	1,464	162,07 € 186,10 €
PSG2.0-50S	PSG2.0-50SL	50	100	104	20	65	0,173 - 0,067	50,76	39,48	1,677	173,52 € 199,20 €
PSG2.0-52S	PSG2.0-52SL	52	104	108	20	65	0,173 - 0,067	52,79	41,06	1,779	179,94 € 206,67 €
PSG2.0-55S	PSG2.0-55SL	55	110	114	20	65	0,173 - 0,067	55,83	43,42	1,940	203,19 € 233,34 €
PSG2.0-58S	PSG2.0-58SL	58	116	120	20	65	0,173 - 0,067	58,88	45,79	2,109	215,50 € 247,43 €
PSG2.0-60S	PSG2.0-60SL	60	120	124	20	65	0,173 - 0,067	72,48	56,37	2,227	220,98 € 253,74 €
PSG2.0-62S	PSG2.0-62SL	62	124	128	20	65	0,175 - 0,065	74,90	58,25	2,350	226,36 € 259,89 €

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%

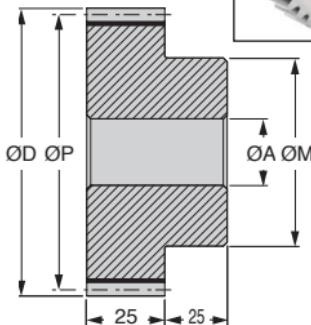
Options

- Alternative bores (H7)
- Keyway conforming to DIN6885 (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	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PSG2.5-18	PSG2.5-18H	18	45,0	50,0	14	35	0,129 - 0,051	22,94	84,12	0,437	74,14 € 122,38 €
PSG2.5-19	PSG2.5-19H	19	47,5	52,5	14	35	0,129 - 0,051	24,22	88,80	0,472	76,16 € 125,65 €
PSG2.5-20	PSG2.5-20H	20	50,0	55,0	14	35	0,129 - 0,051	32,23	118,19	0,509	78,93 € 130,25 €
PSG2.5-21	PSG2.5-21H	21	52,5	57,5	14	35	0,171 - 0,069	33,85	124,10	0,548	80,85 € 133,39 €
PSG2.5-22	PSG2.5-22H	22	55,0	60,0	14	35	0,171 - 0,069	35,46	130,01	0,589	83,75 € 138,22 €
PSG2.5-23	PSG2.5-23H	23	57,5	62,5	16	45	0,171 - 0,069	37,07	135,92	0,737	85,86 € 141,67 €
PSG2.5-24	PSG2.5-24H	24	60,0	65,0	16	45	0,171 - 0,069	38,68	141,83	0,781	88,39 € 145,82 €
PSG2.5-25	PSG2.5-25H	25	62,5	67,5	16	45	0,171 - 0,069	40,29	147,74	0,828	93,17 € 153,75 €
PSG2.5-26	PSG2.5-26H	26	65,0	70,0	16	45	0,171 - 0,069	49,30	180,01	0,877	97,88 € 161,54 €
PSG2.5-27	PSG2.5-27H	27	67,5	72,5	16	45	0,171 - 0,069	51,20	186,94	0,927	99,98 € 164,95 €
PSG2.5-28	PSG2.5-28H	28	70,0	75,0	16	45	0,171 - 0,069	53,09	193,86	0,980	102,58 € 169,19 €
PSG2.5-29	PSG2.5-29H	29	72,5	77,5	18	55	0,171 - 0,069	54,99	200,78	1,168	105,92 € 174,79 €
PSG2.5-30	PSG2.5-30H	30	75,0	80,0	18	55	0,171 - 0,069	62,57	206,38	1,224	109,53 € 180,75 €
PSG2.5-32	PSG2.5-32H	32	80,0	85,0	18	55	0,171 - 0,069	66,74	220,14	1,342	116,16 € 191,89 €
PSG2.5-35	PSG2.5-35H	35	87,5	92,5	18	55	0,173 - 0,067	73,00	240,78	1,535	123,05 € 203,07 €
PSG2.5-38	PSG2.5-38H	38	95,0	100,0	20	70	0,173 - 0,067	79,26	261,42	2,010	135,28 € 223,20 €
PSG2.5-40	PSG2.5-40H	40	100,0	105,0	20	70	0,173 - 0,067	106,60	306,09	2,159	140,62 € 232,01 €
PSG2.5-42	PSG2.5-42H	42	105,0	110,0	20	70	0,173 - 0,067	111,93	321,40	2,316	146,19 € 241,25 €
PSG2.5-45	PSG2.5-45H	45	112,5	117,5	20	70	0,173 - 0,067	119,93	344,36	2,566	151,36 € 249,78 €
PSG2.5-48	PSG2.5-48H	48	120,0	125,0	20	70	0,173 - 0,067	127,92	367,31	2,833	162,15 € 267,58 €
PSG2.5-50	PSG2.5-50H	50	125,0	130,0	20	70	0,175 - 0,065	158,01	415,19	3,021	171,14 € 282,39 €

Dimensions in mm

Spur gear

Stainless steel 303 or 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)

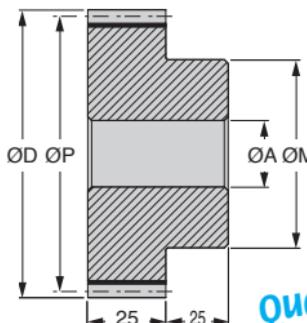
- Keyway conforming to DIN 6885 (JS9)

- 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 SS- 303	Z SS- 316	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) SS- 303 SS- 316	Weight SS- 303 (kg)	Price each 1 to 5 SS- 303 SS- 316
PSG2.5-18S	PSG2.5-18SL	18	45,0	50,0	14	35	0,129 - 0,051	13,77 10,71	0,445 100,10 € 114,96 €
PSG2.5-19S	PSG2.5-19SL	19	47,5	52,5	14	35	0,129 - 0,051	14,53 11,30	0,481 102,79 € 118,06 €
PSG2.5-20S	PSG2.5-20SL	20	50,0	55,0	14	35	0,129 - 0,051	19,34 15,04	0,519 106,59 € 122,36 €
PSG2.5-21S	PSG2.5-21SL	21	52,5	57,5	14	35	0,171 - 0,069	20,31 15,79	0,559 109,14 € 125,30 €
PSG2.5-22S	PSG2.5-22SL	22	55,0	60,0	14	35	0,171 - 0,069	21,27 16,55	0,600 113,05 € 129,81 €
PSG2.5-23S	PSG2.5-23SL	23	57,5	62,5	16	45	0,171 - 0,069	22,24 17,30	0,751 115,90 € 133,12 €
PSG2.5-24S	PSG2.5-24SL	24	60,0	65,0	16	45	0,171 - 0,069	23,21 18,05	0,796 119,31 € 137,02 €
PSG2.5-25S	PSG2.5-25SL	25	62,5	67,5	16	45	0,171 - 0,069	24,18 18,80	0,844 125,80 € 144,44 €
PSG2.5-26S	PSG2.5-26SL	26	65,0	70,0	16	45	0,171 - 0,069	29,58 23,01	0,894 132,18 € 151,74 €
PSG2.5-27S	PSG2.5-27SL	27	67,5	72,5	16	45	0,171 - 0,069	30,72 23,89	0,945 134,94 € 154,95 €
PSG2.5-28S	PSG2.5-28SL	28	70,0	75,0	16	45	0,171 - 0,069	31,85 24,78	0,999 138,46 € 159,00 €
PSG2.5-29S	PSG2.5-29SL	29	72,5	77,5	18	55	0,171 - 0,069	32,99 25,66	1,190 143,01 € 164,17 €
PSG2.5-30S	PSG2.5-30SL	30	75,0	80,0	18	55	0,171 - 0,069	37,54 29,20	1,247 147,88 € 169,81 €
PSG2.5-32S	PSG2.5-32SL	32	80,0	85,0	18	55	0,171 - 0,069	40,05 31,15	1,368 156,80 € 180,06 €
PSG2.5-35S	PSG2.5-35SL	35	87,5	92,5	18	55	0,173 - 0,067	43,80 34,07	1,564 166,14 € 190,76 €
PSG2.5-38S	PSG2.5-38SL	38	95,0	100,0	20	70	0,173 - 0,067	47,55 36,99	2,048 182,61 € 209,68 €
PSG2.5-40S	PSG2.5-40SL	40	100,0	105,0	20	70	0,173 - 0,067	63,96 49,75	2,200 189,82 € 217,94 €
PSG2.5-42S	PSG2.5-42SL	42	105,0	110,0	20	70	0,173 - 0,067	67,16 52,24	2,360 197,38 € 226,64 €
PSG2.5-45S	PSG2.5-45SL	45	112,5	117,5	20	70	0,173 - 0,067	71,96 55,97	2,615 204,35 € 234,65 €
PSG2.5-48S	PSG2.5-48SL	48	120,0	125,0	20	70	0,173 - 0,067	76,75 59,70	2,887 218,91 € 251,35 €
PSG2.5-50S	PSG2.5-50SL	50	125,0	130,0	20	70	0,175 - 0,065	94,81 73,74	3,079 231,06 € 265,27 €

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

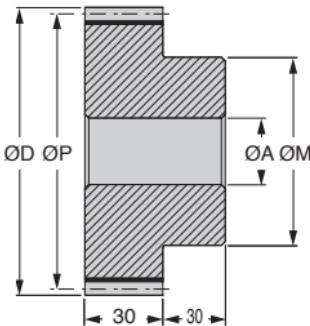
- Efficiency approx 98%

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	OP	OD	OA	OM	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
Standard	Hardened	Teeth	Pitch	External	Bore	Standard	Standard	Standard	Standard Hardened
PSG3.0-18	PSG3.0-18H	18	54	60	14	45	0,171 - 0,069	38,23	140,16 0,835 65,80 € 108,58 €
PSG3.0-19	PSG3.0-19H	19	57	63	14	45	0,171 - 0,069	40,35	147,95 0,896 68,27 € 112,68 €
PSG3.0-20	PSG3.0-20H	20	60	66	14	45	0,171 - 0,069	53,71	196,92 0,960 70,54 € 116,34 €
PSG3.0-21	PSG3.0-21H	21	63	69	16	55	0,171 - 0,069	56,39	206,77 1,190 72,83 € 120,17 €
PSG3.0-22	PSG3.0-22H	22	66	72	16	55	0,171 - 0,069	59,08	216,61 1,261 75,32 € 124,32 €
PSG3.0-23	PSG3.0-23H	23	69	75	16	55	0,171 - 0,069	61,76	226,46 1,335 77,71 € 128,29 €
PSG3.0-24	PSG3.0-24H	24	72	78	16	55	0,171 - 0,069	64,45	236,31 1,412 79,96 € 131,92 €
PSG3.0-25	PSG3.0-25H	25	75	81	16	55	0,171 - 0,069	67,13	246,15 1,493 84,81 € 139,93 €
PSG3.0-26	PSG3.0-26H	26	78	84	16	55	0,171 - 0,069	82,14	301,17 1,577 89,66 € 147,97 €
PSG3.0-27	PSG3.0-27H	27	81	87	16	55	0,173 - 0,067	85,30	312,76 1,664 91,83 € 151,52 €
PSG3.0-28	PSG3.0-28H	28	84	90	16	55	0,173 - 0,067	88,46	324,34 1,755 94,33 € 155,70 €
PSG3.0-29	PSG3.0-29H	29	87	93	18	70	0,173 - 0,067	91,62	335,93 2,171 98,22 € 162,07 €
PSG3.0-30	PSG3.0-30H	30	90	96	18	70	0,173 - 0,067	104,25	356,63 2,268 101,77 € 167,94 €
PSG3.0-32	PSG3.0-32H	32	96	102	18	70	0,173 - 0,067	111,20	380,40 2,473 109,17 € 180,17 €
PSG3.0-35	PSG3.0-35H	35	105	111	18	70	0,173 - 0,067	121,63	416,07 2,805 126,46 € 208,71 €
PSG3.0-38	PSG3.0-38H	38	114	120	18	70	0,173 - 0,067	132,05	451,73 3,167 135,75 € 223,98 €
PSG3.0-40	PSG3.0-40H	40	120	126	18	70	0,173 - 0,067	177,62	528,93 3,425 139,54 € 230,27 €

Dimensions in mm

Spur gear

Stainless steel 303 or 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

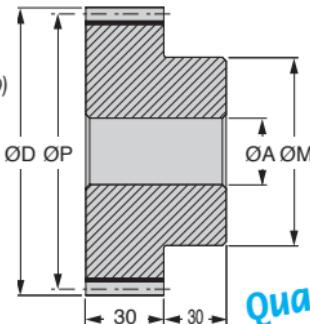
- Efficiency approx 98%

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 SS-303	Z SS-316	OP Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) SS-303 SS-316	Weight SS-303 (kg)	Price each 1 to 5 SS-303 SS-316
PSG3.0-18S	PSG3.0-18SL	18	54	60	14	45	0,171 - 0,069	22,94 17,84	0,851	88,85 € 102,03 €
PSG3.0-19S	PSG3.0-19SL	19	57	63	14	45	0,171 - 0,069	24,21 18,83	0,913	92,17 € 105,84 €
PSG3.0-20S	PSG3.0-20SL	20	60	66	14	45	0,171 - 0,069	32,22 25,06	0,978	95,22 € 109,34 €
PSG3.0-21S	PSG3.0-21SL	21	63	69	16	55	0,171 - 0,069	33,83 26,32	1,213	98,33 € 112,91 €
PSG3.0-22S	PSG3.0-22SL	22	66	72	16	55	0,171 - 0,069	35,45 27,57	1,285	101,71 € 116,76 €
PSG3.0-23S	PSG3.0-23SL	23	69	75	16	55	0,171 - 0,069	37,06 28,82	1,360	104,96 € 120,50 €
PSG3.0-24S	PSG3.0-24SL	24	72	78	16	55	0,171 - 0,069	38,67 30,08	1,439	107,95 € 123,94 €
PSG3.0-25S	PSG3.0-25SL	25	75	81	16	55	0,171 - 0,069	40,28 31,33	1,521	114,49 € 131,45 €
PSG3.0-26S	PSG3.0-26SL	26	78	84	16	55	0,171 - 0,069	49,28 38,33	1,607	121,06 € 139,01 €
PSG3.0-27S	PSG3.0-27SL	27	81	87	16	55	0,173 - 0,067	51,18 39,81	1,696	123,98 € 142,32 €
PSG3.0-28S	PSG3.0-28SL	28	84	90	16	55	0,173 - 0,067	53,07 41,28	1,789	127,37 € 146,26 €
PSG3.0-29S	PSG3.0-29SL	29	87	93	18	70	0,173 - 0,067	54,97 42,75	2,212	132,62 € 152,25 €
PSG3.0-30S	PSG3.0-30SL	30	90	96	18	70	0,173 - 0,067	62,55 48,65	2,312	137,38 € 157,75 €
PSG3.0-32S	PSG3.0-32SL	32	96	102	18	70	0,173 - 0,067	66,72 51,89	2,520	147,42 € 169,25 €
PSG3.0-35S	PSG3.0-35SL	35	105	111	18	70	0,173 - 0,067	72,98 56,76	2,859	170,75 € 196,04 €
PSG3.0-38S	PSG3.0-38SL	38	114	120	18	70	0,173 - 0,067	79,23 61,62	3,228	183,24 € 210,40 €
PSG3.0-40S	PSG3.0-40SL	40	120	126	18	70	0,173 - 0,067	106,57 82,89	3,491	188,39 € 216,33 €

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

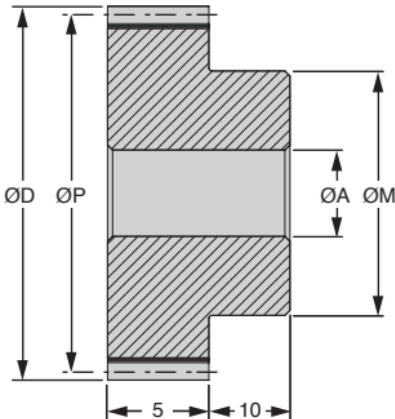
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin	Part number Peek	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peek	Weight Delrin (kg)	Price each 1 to 5 Delrin	Price each 1 to 5 Peek
PSG0.5-20DL	PSG0.5-20PK	20	10,0	11,0	4	8	0,076 - 0,037	0,20	0,27	0,001	21,60 €	
PSG0.5-21DL	PSG0.5-21PK	21	10,5	11,5	4	8	0,077 - 0,036	0,21	0,29	0,001	21,82 €	
PSG0.5-22DL	PSG0.5-22PK	22	11,0	12,0	4	8	0,077 - 0,036	0,23	0,31	0,001	21,55 €	
PSG0.5-23DL	PSG0.5-23PK	23	11,5	12,5	4	8	0,077 - 0,036	0,24	0,33	0,001	22,34 €	
PSG0.5-24DL	PSG0.5-24PK	24	12,0	13,0	5	10	0,077 - 0,036	0,26	0,35	0,001	22,60 €	
PSG0.5-25DL	PSG0.5-25PK	25	12,5	13,5	5	10	0,087 - 0,042	0,27	0,37	0,002	22,84 €	
PSG0.5-26DL	PSG0.5-26PK	26	13,0	14,0	5	10	0,087 - 0,042	0,29	0,39	0,002	23,17 €	
PSG0.5-27DL	PSG0.5-27PK	27	13,5	14,5	5	10	0,087 - 0,042	0,30	0,41	0,002	23,42 €	
PSG0.5-28DL	PSG0.5-28PK	28	14,0	15,0	5	10	0,087 - 0,042	0,31	0,43	0,002	23,65 €	
PSG0.5-29DL	PSG0.5-29PK	29	14,5	15,5	6	13	0,087 - 0,042	0,33	0,45	0,002	23,81 €	
PSG0.5-30DL	PSG0.5-30PK	30	15,0	16,0	6	13	0,087 - 0,042	0,35	0,47	0,003	23,89 €	
PSG0.5-32DL	PSG0.5-32PK	32	16,0	17,0	6	13	0,087 - 0,042	0,37	0,51	0,003	24,49 €	
PSG0.5-35DL	PSG0.5-35PK	35	17,5	18,5	6	13	0,087 - 0,042	0,42	0,57	0,003	25,31 €	
PSG0.5-38DL	PSG0.5-38PK	38	19,0	20,0	6	17	0,089 - 0,041	0,46	0,63	0,005	26,06 €	
PSG0.5-40DL	PSG0.5-40PK	40	20,0	21,0	6	17	0,089 - 0,041	0,50	0,68	0,005	26,65 €	
PSG0.5-42DL	PSG0.5-42PK	42	21,0	22,0	6	17	0,089 - 0,041	0,53	0,72	0,005	27,15 €	
PSG0.5-45DL	PSG0.5-45PK	45	22,5	23,5	6	17	0,089 - 0,041	0,57	0,78	0,005	27,97 €	
PSG0.5-48DL	PSG0.5-48PK	48	24,0	25,0	6	17	0,089 - 0,041	0,62	0,84	0,006	29,05 €	
PSG0.5-50DL	PSG0.5-50PK	50	25,0	26,0	6	17	0,089 - 0,041	0,65	0,89	0,006	29,38 €	
PSG0.5-52DL	PSG0.5-52PK	52	26,0	27,0	6	17	0,097 - 0,046	0,68	0,93	0,006	29,82 €	
PSG0.5-55DL	PSG0.5-55PK	55	27,5	28,5	6	17	0,097 - 0,046	0,73	0,99	0,007	30,41 €	
PSG0.5-58DL	PSG0.5-58PK	58	29,0	30,0	6	17	0,097 - 0,046	0,78	1,06	0,007	31,04 €	
PSG0.5-60DL	PSG0.5-60PK	60	30,0	31,0	6	17	0,097 - 0,046	0,81	1,10	0,008	31,35 €	

Dimensions in mm

On request



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number Delrin	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peak	Weight Delrin (kg)	Price each 1 to 5 Delrin	Price each 1 to 5 Peak
PSG0.5-62DL	PSG0.5-62PK	62	31,0	32,0	8	20	0,098 - 0,044	0,84	1,14	0,009	31,77 €
PSG0.5-65DL	PSG0.5-65PK	65	32,5	33,5	8	20	0,098 - 0,044	0,88	1,21	0,009	32,46 €
PSG0.5-68DL	PSG0.5-68PK	68	34,0	35,0	8	20	0,098 - 0,044	0,93	1,27	0,010	32,66 €
PSG0.5-70DL	PSG0.5-70PK	70	35,0	36,0	8	20	0,098 - 0,044	0,96	1,31	0,010	33,02 €
PSG0.5-72DL	PSG0.5-72PK	72	36,0	37,0	8	20	0,098 - 0,044	0,99	1,35	0,010	33,35 €
PSG0.5-75DL	PSG0.5-75PK	75	37,5	38,5	8	20	0,098 - 0,044	1,04	1,42	0,011	33,59 €
PSG0.5-78DL	PSG0.5-78PK	78	39,0	40,0	8	20	0,098 - 0,044	1,09	1,48	0,012	34,06 €
PSG0.5-80DL	PSG0.5-80PK	80	40,0	41,0	8	25	0,098 - 0,044	1,12	1,53	0,015	34,31 €
PSG0.5-82DL	PSG0.5-82PK	82	41,0	42,0	8	25	0,098 - 0,044	1,15	1,57	0,015	34,71 €
PSG0.5-85DL	PSG0.5-85PK	85	42,5	43,5	8	25	0,098 - 0,044	1,20	1,63	0,016	35,04 €
PSG0.5-90DL	PSG0.5-90PK	90	45,0	46,0	8	25	0,098 - 0,044	1,28	1,74	0,017	35,62 €
PSG0.5-100DL	PSG0.5-100PK	100	50,0	51,0	10	30	0,098 - 0,044	1,43	1,95	0,022	36,17 €
PSG0.5-120DL	PSG0.5-120PK	120	60,0	61,0	10	35	0,111 - 0,049	1,74	2,38	0,032	43,82 €
PSG0.5-130DL	PSG0.5-130PK	130	65,0	66,0	10	35	0,111 - 0,049	1,90	2,59	0,035	50,27 €
PSG0.5-140DL	PSG0.5-140PK	140	70,0	71,0	10	35	0,111 - 0,049	2,06	2,81	0,039	52,38 €
PSG0.5-150DL	PSG0.5-150PK	150	75,0	76,0	10	40	0,111 - 0,049	2,22	3,02	0,047	57,02 €
PSG0.5-200DL	PSG0.5-200PK	200	100,0	101,0	14	50	0,113 - 0,047	3,02	4,12	0,080	70,26 €
PSG0.5-250DL	PSG0.5-250PK	250	125,0	126,0	16	60	0,136 - 0,062	3,83	5,22	0,122	84,31 €

Dimensions in mm

MODULE

0.8



- 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%

Spur gear

Delrin or Peek



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

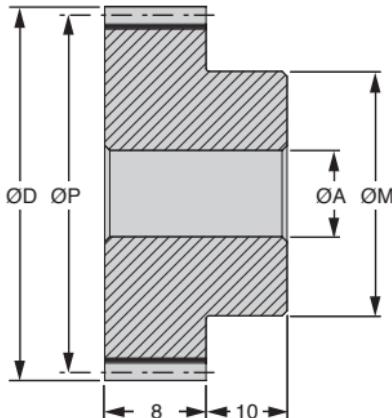
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin	Part number Peek	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peek	Weight Delrin (kg)	Price each 1 to 5 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	21,11	€
PSG0.8-19DL	PSG0.8-19PK	19	15,2	16,8	5	11	0,096 - 0,047	0,64	0,78	0,003	21,44	€
PSG0.8-20DL	PSG0.8-20PK	20	16,0	17,6	5	11	0,096 - 0,047	0,69	0,88	0,003	21,77	€
PSG0.8-21DL	PSG0.8-21PK	21	16,8	18,4	5	12	0,096 - 0,047	0,74	0,98	0,004	22,44	€
PSG0.8-22DL	PSG0.8-22PK	22	17,6	19,2	5	12	0,096 - 0,047	0,79	1,08	0,004	22,76	€
PSG0.8-23DL	PSG0.8-23PK	23	18,4	20,0	5	12	0,097 - 0,046	0,84	1,15	0,004	22,87	€
PSG0.8-24DL	PSG0.8-24PK	24	19,2	20,8	6	14	0,097 - 0,046	0,89	1,22	0,005	22,99	€
PSG0.8-25DL	PSG0.8-25PK	25	20,0	21,6	6	14	0,097 - 0,046	0,95	1,29	0,005	23,93	€
PSG0.8-26DL	PSG0.8-26PK	26	20,8	22,4	6	14	0,097 - 0,046	1,00	1,36	0,005	24,78	€
PSG0.8-27DL	PSG0.8-27PK	27	21,6	23,2	6	14	0,097 - 0,046	1,05	1,43	0,006	25,31	€
PSG0.8-28DL	PSG0.8-28PK	28	22,4	24,0	8	18	0,097 - 0,046	1,10	1,50	0,007	25,88	€
PSG0.8-29DL	PSG0.8-29PK	29	23,2	24,8	8	18	0,097 - 0,046	1,16	1,58	0,007	26,56	€
PSG0.8-30DL	PSG0.8-30PK	30	24,0	25,6	8	18	0,097 - 0,046	1,21	1,65	0,007	26,99	€
PSG0.8-32DL	PSG0.8-32PK	32	25,6	27,2	8	18	0,108 - 0,052	1,31	1,79	0,008	27,72	€
PSG0.8-35DL	PSG0.8-35PK	35	28,0	29,6	10	20	0,108 - 0,052	1,47	2,00	0,009	28,67	€
PSG0.8-38DL	PSG0.8-38PK	38	30,4	32,0	10	20	0,109 - 0,050	1,63	2,22	0,011	29,80	€
PSG0.8-40DL	PSG0.8-40PK	40	32,0	33,6	10	20	0,109 - 0,050	1,74	2,37	0,011	30,91	€
PSG0.8-42DL	PSG0.8-42PK	42	33,6	35,2	10	20	0,109 - 0,050	1,84	2,51	0,012	31,14	€
PSG0.8-45DL	PSG0.8-45PK	45	36,0	37,6	10	20	0,109 - 0,050	2,01	2,73	0,014	31,59	€
PSG0.8-48DL	PSG0.8-48PK	48	38,4	40,0	10	30	0,109 - 0,050	2,17	2,96	0,021	31,85	€
PSG0.8-50DL	PSG0.8-50PK	50	40,0	41,6	10	30	0,109 - 0,050	2,28	3,11	0,022	35,17	€
PSG0.8-52DL	PSG0.8-52PK	52	41,6	43,2	10	30	0,109 - 0,050	2,39	3,26	0,023	36,21	€
PSG0.8-55DL	PSG0.8-55PK	55	44,0	45,6	10	30	0,109 - 0,050	2,55	3,48	0,025	37,70	€
PSG0.8-58DL	PSG0.8-58PK	58	46,4	48,0	10	30	0,109 - 0,050	2,72	3,71	0,027	38,84	€

Dimensions in mm

On request

MODULE 0.8

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peak	Weight Delrin (kg)	Price each 1 to 5 Delrin	Price each 1 to 5 Peak
PSG0.8-60DL	PSG0.8-60PK	60	48,0	49,6	10	40	0,109 - 0,050	2,83	3,86	0,036	39,74 €
PSG0.8-62DL	PSG0.8-62PK	62	49,6	51,2	10	40	0,109 - 0,050	2,94	4,01	0,037	41,06 €
PSG0.8-65DL	PSG0.8-65PK	65	52,0	53,6	10	40	0,122 - 0,055	3,10	4,22	0,040	43,99 €
PSG0.8-68DL	PSG0.8-68PK	68	54,4	56,0	10	40	0,122 - 0,055	3,26	4,45	0,042	46,26 €
PSG0.8-70DL	PSG0.8-70PK	70	56,0	57,6	10	40	0,122 - 0,055	3,37	4,59	0,043	47,23 €
PSG0.8-72DL	PSG0.8-72PK	72	57,6	59,2	10	40	0,122 - 0,055	3,48	4,74	0,045	48,26 €
PSG0.8-75DL	PSG0.8-75PK	75	60,0	61,6	10	50	0,122 - 0,055	3,64	4,97	0,057	51,47 €
PSG0.8-78DL	PSG0.8-78PK	78	62,4	64,0	10	50	0,122 - 0,055	3,81	5,19	0,060	52,25 €
PSG0.8-80DL	PSG0.8-80PK	80	64,0	65,6	10	50	0,122 - 0,055	3,92	5,35	0,062	53,32 €
PSG0.8-82DL	PSG0.8-82PK	82	65,6	67,2	10	50	0,122 - 0,055	4,03	5,50	0,064	54,09 €
PSG0.8-85DL	PSG0.8-85PK	85	68,0	69,6	10	50	0,122 - 0,055	4,20	5,72	0,066	55,22 €
PSG0.8-90DL	PSG0.8-90PK	90	72,0	73,6	10	65	0,122 - 0,055	4,47	6,10	0,090	57,02 €
PSG0.8-95DL	PSG0.8-95PK	95	76,0	77,6	10	65	0,122 - 0,055	4,75	6,48	0,096	63,11 €
PSG0.8-100DL	PSG0.8-100PK	100	80,0	81,6	14	65	0,122 - 0,055	5,02	6,85	0,099	63,95 €
PSG0.8-110DL	PSG0.8-110PK	110	88,0	89,6	14	70	0,123 - 0,053	5,56	7,59	0,119	80,08 €
PSG0.8-120DL	PSG0.8-120PK	120	96,0	97,6	14	70	0,123 - 0,053	6,11	8,33	0,132	90,52 €

Dimensions in mm

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 (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

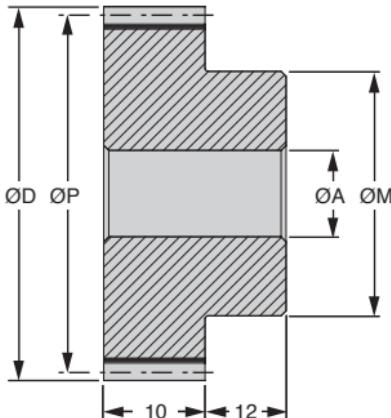
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin Peek	Z Teeth	OP Pitch	OD External	OA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin Peek	Weight Delrin (kg)	Price each Delrin	1 to 5 Peek
PSG1.0-18DL PSG1.0-18PK	18	18	20	5	15	0,127 - 0,053	0,92 1,04	0,006	22,40 €	
PSG1.0-19DL PSG1.0-19PK	19	19	21	5	15	0,128 - 0,052	1,03 1,17	0,006	22,73 €	
PSG1.0-20DL PSG1.0-20PK	20	20	22	5	15	0,128 - 0,052	1,16 1,31	0,007	23,44 €	
PSG1.0-21DL PSG1.0-21PK	21	21	23	5	15	0,128 - 0,052	1,29 1,46	0,007	23,60 €	
PSG1.0-22DL PSG1.0-22PK	22	22	24	5	15	0,128 - 0,052	1,43 1,61	0,008	23,95 €	
PSG1.0-23DL PSG1.0-23PK	23	23	25	5	15	0,128 - 0,052	1,54 1,78	0,008	24,06 €	
PSG1.0-24DL PSG1.0-24PK	24	24	26	6	20	0,128 - 0,052	1,63 1,96	0,011	24,21 €	
PSG1.0-25DL PSG1.0-25PK	25	25	27	6	20	0,128 - 0,052	1,73 2,15	0,011	25,20 €	
PSG1.0-26DL PSG1.0-26PK	26	26	28	6	20	0,128 - 0,052	1,83 2,34	0,012	26,11 €	
PSG1.0-27DL PSG1.0-27PK	27	27	29	6	20	0,128 - 0,052	1,92 2,55	0,012	26,65 €	
PSG1.0-28DL PSG1.0-28PK	28	28	30	6	20	0,128 - 0,052	2,02 2,75	0,013	27,26 €	
PSG1.0-29DL PSG1.0-29PK	29	29	31	8	25	0,128 - 0,052	2,11 2,88	0,016	27,97 €	
PSG1.0-30DL PSG1.0-30PK	30	30	32	8	25	0,128 - 0,052	2,21 3,02	0,017	28,42 €	
PSG1.0-32DL PSG1.0-32PK	32	32	34	8	25	0,129 - 0,051	2,40 3,27	0,018	29,16 €	
PSG1.0-35DL PSG1.0-35PK	35	35	37	8	25	0,129 - 0,051	2,68 3,66	0,020	30,14 €	
PSG1.0-38DL PSG1.0-38PK	38	38	40	10	34	0,129 - 0,051	2,98 4,06	0,029	31,35 €	
PSG1.0-40DL PSG1.0-40PK	40	40	42	10	34	0,129 - 0,051	3,18 4,33	0,030	32,51 €	
PSG1.0-42DL PSG1.0-42PK	42	42	44	10	34	0,129 - 0,051	3,37 4,59	0,032	32,80 €	
PSG1.0-45DL PSG1.0-45PK	45	45	47	10	34	0,129 - 0,051	3,66 4,99	0,035	33,25 €	
PSG1.0-48DL PSG1.0-48PK	48	48	50	10	34	0,129 - 0,051	3,96 5,40	0,038	33,52 €	
PSG1.0-50DL PSG1.0-50PK	50	50	52	10	34	0,129 - 0,051	4,17 5,68	0,040	37,01 €	

Dimensions in mm

On request

MODULE 1.0

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin Peak	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Delrin Peak	Weight Delrin (kg)	Price each 1 to 5 Delrin Peak
PSG1.0-52DL PSG1.0-52PK	52	52	54	10	40	0,171 - 0,069	4,36 5,95	0,049	38,12 €
PSG1.0-55DL PSG1.0-55PK	55	55	57	10	40	0,171 - 0,069	4,66 6,36	0,052	39,69 €
PSG1.0-58DL PSG1.0-58PK	58	58	60	10	40	0,171 - 0,069	4,97 6,77	0,056	40,89 €
PSG1.0-60DL PSG1.0-60PK	60	60	62	10	40	0,171 - 0,069	5,17 7,05	0,058	41,83 €
PSG1.0-62DL PSG1.0-62PK	62	62	64	10	40	0,171 - 0,069	5,36 7,31	0,061	43,22 €
PSG1.0-65DL PSG1.0-65PK	65	65	67	10	50	0,171 - 0,069	5,66 7,72	0,077	46,32 €
PSG1.0-68DL PSG1.0-68PK	68	68	70	10	50	0,171 - 0,069	5,95 8,12	0,082	48,70 €
PSG1.0-70DL PSG1.0-70PK	70	70	72	10	50	0,171 - 0,069	6,15 8,39	0,085	49,72 €
PSG1.0-72DL PSG1.0-72PK	72	72	74	10	50	0,171 - 0,069	6,35 8,66	0,088	50,78 €
PSG1.0-75DL PSG1.0-75PK	75	75	77	10	50	0,171 - 0,069	6,65 9,07	0,093	54,19 €
PSG1.0-78DL PSG1.0-78PK	78	78	80	10	60	0,171 - 0,069	6,96 9,49	0,112	54,99 €
PSG1.0-80DL PSG1.0-80PK	80	80	82	10	60	0,171 - 0,069	7,16 9,76	0,116	56,11 €
PSG1.0-82DL PSG1.0-82PK	82	82	84	10	60	0,173 - 0,067	7,37 10,05	0,119	56,90 €
PSG1.0-85DL PSG1.0-85PK	85	85	87	10	60	0,173 - 0,067	7,67 10,45	0,125	58,12 €
PSG1.0-90DL PSG1.0-90PK	90	90	92	10	60	0,173 - 0,067	8,17 11,14	0,135	60,00 €
PSG1.0-95DL PSG1.0-95PK	95	95	97	10	60	0,173 - 0,067	8,67 11,83	0,145	66,44 €
PSG1.0-100DL PSG1.0-100PK	100	100	102	14	70	0,173 - 0,067	9,17 12,50	0,171	67,29 €
PSG1.0-110DL PSG1.0-110PK	110	110	112	14	70	0,173 - 0,067	10,16 13,86	0,194	84,26 €
PSG1.0-120DL PSG1.0-120PK	120	120	122	14	70	0,173 - 0,067	11,16 15,21	0,219	95,27 €

Dimensions in mm

On request

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 (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

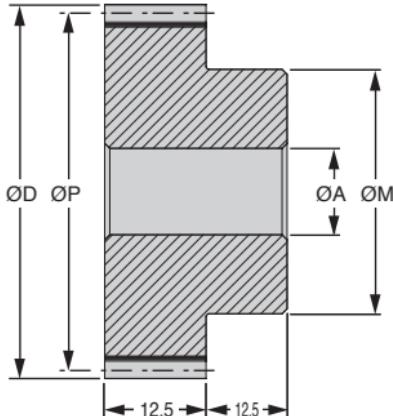
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin Peek	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin Peek	Weight Delrin (kg)	Price each 1 to 5 Delrin Peek
PSG1.25-18DL PSG1.25-18PK	18	22,50	25,00	6	15	0,097 - 0,046	1,37 1,55	0,0090	27,99 €
PSG1.25-19DL PSG1.25-19PK	19	23,75	26,25	6	15	0,097 - 0,046	1,54 1,75	0,0098	28,42 €
PSG1.25-20DL PSG1.25-20PK	20	25,00	27,50	6	15	0,108 - 0,052	1,73 1,96	0,011	28,86 €
PSG1.25-21DL PSG1.25-21PK	21	26,25	28,75	8	20	0,108 - 0,052	1,92 2,18	0,013	29,77 €
PSG1.25-22DL PSG1.25-22PK	22	27,50	30,00	8	20	0,108 - 0,052	2,13 2,41	0,014	30,20 €
PSG1.25-23DL PSG1.25-23PK	23	28,75	31,25	8	20	0,108 - 0,052	2,35 2,66	0,015	30,32 €
PSG1.25-24DL PSG1.25-24PK	24	30,00	32,50	8	22	0,108 - 0,052	2,59 2,93	0,017	30,49 €
PSG1.25-25DL PSG1.25-25PK	25	31,25	33,75	8	22	0,109 - 0,050	2,83 3,21	0,018	31,77 €
PSG1.25-26DL PSG1.25-26PK	26	32,50	35,00	8	22	0,109 - 0,050	3,09 3,50	0,019	32,91 €
PSG1.25-27DL PSG1.25-27PK	27	33,75	36,25	8	22	0,109 - 0,050	3,37 3,81	0,021	33,57 €
PSG1.25-28DL PSG1.25-28PK	28	35,00	37,50	8	25	0,109 - 0,050	3,65 4,13	0,024	34,31 €
PSG1.25-29DL PSG1.25-29PK	29	36,25	38,75	8	25	0,109 - 0,050	3,87 4,47	0,025	35,24 €
PSG1.25-30DL PSG1.25-30PK	30	37,50	40,00	8	25	0,109 - 0,050	4,05 4,83	0,026	35,81 €
PSG1.25-32DL PSG1.25-32PK	32	40,00	42,50	8	25	0,109 - 0,050	4,39 5,59	0,029	36,73 €
PSG1.25-35DL PSG1.25-35PK	35	43,75	46,25	10	30	0,109 - 0,050	4,91 6,70	0,036	38,01 €
PSG1.25-38DL PSG1.25-38PK	38	47,50	50,00	10	30	0,109 - 0,050	5,45 7,43	0,041	39,56 €
PSG1.25-40DL PSG1.25-40PK	40	50,00	52,50	10	30	0,120 - 0,057	5,81 7,93	0,044	41,00 €
PSG1.25-42DL PSG1.25-42PK	42	52,50	55,00	10	30	0,122 - 0,055	6,17 8,41	0,048	41,29 €
PSG1.25-45DL PSG1.25-45PK	45	56,25	58,75	10	30	0,122 - 0,055	6,71 9,14	0,053	41,91 €

Dimensions in mm

On request

MODULE 1.25



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List:	-5%	-10%	On request

Part number Delrin Peak	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque Delrin Nm	Torque Peak Nm	Weight Delrin (kg)	Price each Delrin	Price each 1 to 5 Peak
PSG1.25-48DL PSG1.25-48PK	48	60,00	62,50	10	40	0,122 - 0,055	7,26	9,89	0,069	42,24	€
PSG1.25-50DL PSG1.25-50PK	50	62,50	65,00	10	40	0,122 - 0,055	7,63	10,40	0,073	46,62	€
PSG1.25-52DL PSG1.25-52PK	52	65,00	67,50	10	40	0,122 - 0,055	7,99	10,89	0,077	48,01	€
PSG1.25-55DL PSG1.25-55PK	55	68,75	71,25	10	40	0,122 - 0,055	8,54	11,64	0,084	50,03	€
PSG1.25-58DL PSG1.25-58PK	58	72,50	75,00	10	40	0,122 - 0,055	9,09	12,40	0,092	51,53	€
PSG1.25-60DL PSG1.25-60PK	60	75,00	77,50	10	50	0,122 - 0,055	9,47	12,91	0,109	52,71	€
PSG1.25-62DL PSG1.25-62PK	62	77,50	80,00	10	50	0,122 - 0,055	9,82	13,39	0,114	54,46	€
PSG1.25-65DL PSG1.25-65PK	65	81,25	83,75	10	50	0,123 - 0,053	10,36	14,13	0,123	58,37	€
PSG1.25-68DL PSG1.25-68PK	68	85,00	87,50	10	50	0,123 - 0,053	10,90	14,87	0,131	61,36	€
PSG1.25-70DL PSG1.25-70PK	70	87,50	90,00	10	50	0,123 - 0,053	11,27	15,36	0,137	62,63	€
PSG1.25-72DL PSG1.25-72PK	72	90,00	92,50	10	50	0,123 - 0,053	11,63	15,86	0,143	64,00	€
PSG1.25-75DL PSG1.25-75PK	75	93,75	96,25	10	60	0,123 - 0,053	12,18	16,61	0,168	68,27	€
PSG1.25-78DL PSG1.25-78PK	78	97,50	100,00	10	60	0,123 - 0,053	12,74	17,37	0,178	69,31	€
PSG1.25-80DL PSG1.25-80PK	80	100,00	102,50	10	60	0,138 - 0,064	13,11	17,88	0,185	70,71	€
PSG1.25-82DL PSG1.25-82PK	82	102,50	105,00	10	60	0,138 - 0,064	13,49	18,40	0,192	71,72	€
PSG1.25-85DL PSG1.25-85PK	85	106,25	108,75	10	60	0,138 - 0,064	14,04	19,14	0,203	73,25	€
PSG1.25-90DL PSG1.25-90PK	90	112,50	115,00	10	65	0,138 - 0,064	14,96	20,40	0,230	75,61	€
PSG1.25-95DL PSG1.25-95PK	95	118,75	121,25	10	65	0,138 - 0,064	15,88	21,66	0,250	83,70	€
PSG1.25-100DL PSG1.25-100PK	100	125,00	127,50	14	65	0,140 - 0,062	16,79	22,89	0,268	84,81	€
PSG1.25-110DL PSG1.25-110PK	110	137,50	140,00	14	70	0,140 - 0,062	18,61	25,37	0,323	106,21	€
PSG1.25-120DL PSG1.25-120PK	120	150,00	152,50	14	70	0,140 - 0,062	20,43	27,85	0,373	120,09	€

Dimensions in mm

MODULE 1.5



- 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%

Spur gear Delrin or Peek



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

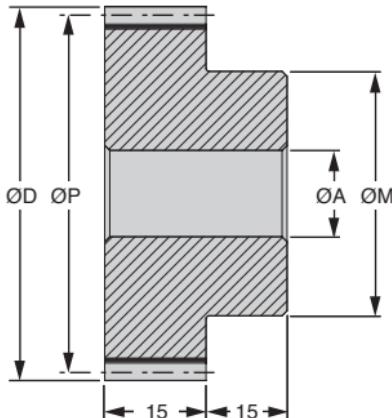
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin	Part number Peek	Z Teeth	OP Pitch	OD External	OA Bore	OB Boss	Backlash (mm)	Torque (Nm) Delrin	Weight Delrin (kg)	Price each Delrin	1 to 5 Peek
PSG1.5-18DL	PSG1.5-18PK	18	27,0	30,0	6	22	0,128 - 0,052	1,90	2,15	0,019	29,33 €
PSG1.5-19DL	PSG1.5-19PK	19	28,5	31,5	6	22	0,128 - 0,052	2,14	2,43	0,020	30,43 €
PSG1.5-20DL	PSG1.5-20PK	20	30,0	33,0	6	22	0,128 - 0,052	2,40	2,71	0,022	31,97 €
PSG1.5-21DL	PSG1.5-21PK	21	31,5	34,5	8	25	0,129 - 0,051	2,67	3,02	0,025	32,24 €
PSG1.5-22DL	PSG1.5-22PK	22	33,0	36,0	8	25	0,129 - 0,051	2,96	3,35	0,026	32,60 €
PSG1.5-23DL	PSG1.5-23PK	23	34,5	37,5	8	25	0,129 - 0,051	3,27	3,70	0,028	33,21 €
PSG1.5-24DL	PSG1.5-24PK	24	36,0	39,0	8	25	0,129 - 0,051	3,59	4,06	0,030	33,52 €
PSG1.5-25DL	PSG1.5-25PK	25	37,5	40,5	8	25	0,129 - 0,051	3,93	4,45	0,031	35,26 €
PSG1.5-26DL	PSG1.5-26PK	26	39,0	42,0	8	25	0,129 - 0,051	4,30	4,86	0,033	36,95 €
PSG1.5-27DL	PSG1.5-27PK	27	40,5	43,5	8	25	0,129 - 0,051	4,67	5,29	0,035	38,12 €
PSG1.5-28DL	PSG1.5-28PK	28	42,0	45,0	8	25	0,129 - 0,051	5,07	5,74	0,037	39,16 €
PSG1.5-29DL	PSG1.5-29PK	29	43,5	46,5	10	35	0,129 - 0,051	5,49	6,21	0,048	37,31 €
PSG1.5-30DL	PSG1.5-30PK	30	45,0	48,0	10	35	0,129 - 0,051	5,93	6,70	0,050	40,96 €
PSG1.5-32DL	PSG1.5-32PK	32	48,0	51,0	10	35	0,129 - 0,051	6,86	7,76	0,055	42,39 €
PSG1.5-35DL	PSG1.5-35PK	35	52,5	55,5	10	35	0,171 - 0,069	7,98	9,51	0,062	43,74 €
PSG1.5-38DL	PSG1.5-38PK	38	57,0	60,0	12	45	0,171 - 0,069	8,86	11,47	0,082	47,92 €
PSG1.5-40DL	PSG1.5-40PK	40	60,0	63,0	12	45	0,171 - 0,069	9,45	12,89	0,088	49,83 €
PSG1.5-42DL	PSG1.5-42PK	42	63,0	66,0	12	45	0,171 - 0,069	10,03	13,67	0,094	50,05 €
PSG1.5-45DL	PSG1.5-45PK	45	67,5	70,5	12	45	0,171 - 0,069	10,90	14,86	0,104	51,16 €
PSG1.5-48DL	PSG1.5-48PK	48	72,0	75,0	12	45	0,171 - 0,069	11,79	16,08	0,114	54,66 €

Dimensions in mm

On request

MODULE 1.5

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Delrin Peak	Weight Delrin (kg)	Price each 1 to 5 Delrin Peak		
PSG1.5-50DL	PSG1.5-50PK	50	75,0	78,0	14	55	0,171 - 0,069	12,40	16,91	0,136	61,06 €
PSG1.5-52DL	PSG1.5-52PK	52	78,0	81,0	14	55	0,171 - 0,069	12,99	17,71	0,144	64,18 €
PSG1.5-55DL	PSG1.5-55PK	55	82,5	85,5	14	55	0,173 - 0,067	13,88	18,92	0,156	65,80 €
PSG1.5-58DL	PSG1.5-58PK	58	87,0	90,0	14	55	0,173 - 0,067	14,78	20,15	0,169	67,29 €
PSG1.5-60DL	PSG1.5-60PK	60	90,0	93,0	14	55	0,173 - 0,067	15,39	20,98	0,177	67,94 €
PSG1.5-62DL	PSG1.5-62PK	62	93,0	96,0	14	55	0,173 - 0,067	15,97	21,77	0,186	69,28 €
PSG1.5-65DL	PSG1.5-65PK	65	97,5	100,5	14	55	0,173 - 0,067	16,84	22,97	0,201	71,89 €
PSG1.5-68DL	PSG1.5-68PK	68	102,0	105,0	16	65	0,173 - 0,067	17,72	24,17	0,233	76,25 €
PSG1.5-70DL	PSG1.5-70PK	70	105,0	108,0	16	65	0,173 - 0,067	18,31	24,97	0,244	79,02 €
PSG1.5-72DL	PSG1.5-72PK	72	108,0	111,0	16	65	0,173 - 0,067	18,91	25,78	0,254	83,50 €
PSG1.5-75DL	PSG1.5-75PK	75	112,5	115,5	16	65	0,173 - 0,067	19,80	27,00	0,271	89,02 €
PSG1.5-78DL	PSG1.5-78PK	78	117,0	120,0	16	65	0,173 - 0,067	20,71	28,23	0,288	93,82 €
PSG1.5-80DL	PSG1.5-80PK	80	120,0	123,0	16	65	0,173 - 0,067	21,31	29,06	0,300	97,31 €
PSG1.5-82DL	PSG1.5-82PK	82	123,0	126,0	16	65	0,175 - 0,065	21,93	29,91	0,312	101,75 €

Dimensions in mm

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%



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

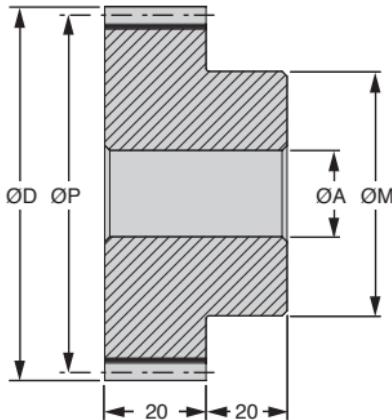
Qty.	1+	6+	19+	50+
Disc.	List. -5%	-10%	On request	

Part number Delrin	Part number Peek	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin	Weight Delrin (kg)	Price each Delrin	1 to 5 Peek
PSG2.0-18DL	PSG2.0-18PK	18	36	40	10	30	0,129 - 0,051	3,20	3,62	0,044	44,11 €
PSG2.0-19DL	PSG2.0-19PK	19	38	42	10	30	0,129 - 0,051	3,60	4,07	0,047	45,07 €
PSG2.0-20DL	PSG2.0-20PK	20	40	44	10	30	0,129 - 0,051	4,03	4,56	0,051	46,01 €
PSG2.0-21DL	PSG2.0-21PK	21	42	46	12	35	0,129 - 0,051	4,48	5,07	0,059	47,23 €
PSG2.0-22DL	PSG2.0-22PK	22	44	48	12	35	0,129 - 0,051	4,97	5,62	0,063	47,99 €
PSG2.0-23DL	PSG2.0-23PK	23	46	50	12	35	0,129 - 0,051	5,48	6,21	0,067	48,99 €
PSG2.0-24DL	PSG2.0-24PK	24	48	52	12	35	0,129 - 0,051	6,03	6,82	0,071	50,05 €
PSG2.0-25DL	PSG2.0-25PK	25	50	54	12	35	0,129 - 0,051	6,60	7,47	0,075	52,86 €
PSG2.0-26DL	PSG2.0-26PK	26	52	56	12	35	0,171 - 0,069	7,21	8,16	0,080	54,54 €
PSG2.0-27DL	PSG2.0-27PK	27	54	58	12	35	0,171 - 0,069	7,85	8,88	0,085	56,48 €
PSG2.0-28DL	PSG2.0-28PK	28	56	60	12	35	0,171 - 0,069	8,51	9,63	0,089	57,71 €

Dimensions in mm

On request

MODULE 2.0



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Delrin	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peak	Weight Delrin (kg)	Price each 1 to 5 Delrin	Price each 1 to 5 Peak
PSG2.0-29DL	PSG2.0-29PK	29	58	62	14	45	0,171 - 0,069	9,21	10,42	0,110	59,14 €
PSG2.0-30DL	PSG2.0-30PK	30	60	64	14	45	0,171 - 0,069	9,95	11,25	0,115	60,45 €
PSG2.0-32DL	PSG2.0-32PK	32	64	68	14	45	0,171 - 0,069	11,51	13,02	0,126	65,66 €
PSG2.0-35DL	PSG2.0-35PK	35	70	74	14	45	0,171 - 0,069	14,10	15,96	0,144	72,49 €
PSG2.0-38DL	PSG2.0-38PK	38	76	80	14	45	0,171 - 0,069	17,01	19,25	0,163	79,58 €
PSG2.0-40DL	PSG2.0-40PK	40	80	84	16	55	0,171 - 0,069	19,13	21,64	0,196	82,92 €
PSG2.0-42DL	PSG2.0-42PK	42	84	88	16	55	0,173 - 0,067	21,14	24,20	0,211	85,45 €
PSG2.0-45DL	PSG2.0-45PK	45	90	94	16	55	0,173 - 0,067	22,99	28,36	0,234	89,18 €
PSG2.0-48DL	PSG2.0-48PK	48	96	100	16	55	0,173 - 0,067	24,87	32,90	0,258	96,04 €
PSG2.0-50DL	PSG2.0-50PK	50	100	104	20	65	0,173 - 0,067	26,15	35,66	0,296	102,81 €
PSG2.0-52DL	PSG2.0-52PK	52	104	108	20	65	0,173 - 0,067	27,39	37,35	0,314	106,63 €
PSG2.0-55DL	PSG2.0-55PK	55	110	114	20	65	0,173 - 0,067	29,27	39,91	0,342	120,43 €
PSG2.0-58DL	PSG2.0-58PK	58	116	120	20	65	0,173 - 0,067	31,17	42,50	0,372	127,69 €
PSG2.0-60DL	PSG2.0-60PK	60	120	124	20	65	0,173 - 0,067	32,45	44,26	0,393	130,92 €
PSG2.0-62DL	PSG2.0-62PK	62	124	128	20	65	0,175 - 0,065	33,68	45,92	0,414	134,14 €

Dimensions in mm

MODULE 2.5



- 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)

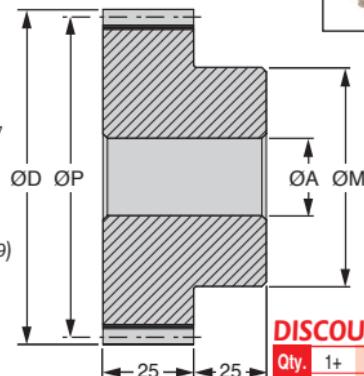
- Tapped hole

- 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 Delrin	Part number Peek	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Delrin	Torque (Nm) Peek	Weight Delrin (kg)	Price each 1 to 5 Delrin	Price each 1 to 5 Peek
PSG2.5-18DL	PSG2.5-18PK	18	45.0	50,0	14	35	0,129 - 0,051	4,78	5,40	0,078	59,31	€
PSG2.5-19DL	PSG2.5-19PK	19	47,5	52,5	14	35	0,129 - 0,051	5,38	6,08	0,085	60,91	€
PSG2.5-20DL	PSG2.5-20PK	20	50,0	55,0	14	35	0,129 - 0,051	6,02	6,81	0,091	63,13	€
PSG2.5-21DL	PSG2.5-21PK	21	52,5	57,5	14	35	0,171 - 0,069	6,70	7,58	0,098	64,66	€
PSG2.5-22DL	PSG2.5-22PK	22	55,0	60,0	14	35	0,171 - 0,069	7,43	8,40	0,106	67,00	€
PSG2.5-23DL	PSG2.5-23PK	23	57,5	62,5	16	45	0,171 - 0,069	8,20	9,27	0,132	68,71	€
PSG2.5-24DL	PSG2.5-24PK	24	60,0	65,0	16	45	0,171 - 0,069	9,01	10,19	0,140	70,67	€
PSG2.5-25DL	PSG2.5-25PK	25	62,5	67,5	16	45	0,171 - 0,069	9,87	11,17	0,149	74,54	€
PSG2.5-26DL	PSG2.5-26PK	26	65,0	70,0	16	45	0,171 - 0,069	10,77	12,19	0,157	78,30	€
PSG2.5-27DL	PSG2.5-27PK	27	67,5	72,5	16	45	0,171 - 0,069	11,72	13,27	0,167	79,96	€
PSG2.5-28DL	PSG2.5-28PK	28	70,0	75,0	16	45	0,171 - 0,069	12,72	14,39	0,176	82,04	€
PSG2.5-29DL	PSG2.5-29PK	29	72,5	77,5	18	55	0,171 - 0,069	13,77	15,58	0,210	84,73	€
PSG2.5-30DL	PSG2.5-30PK	30	75,0	80,0	18	55	0,171 - 0,069	14,86	16,81	0,220	87,63	€
PSG2.5-32DL	PSG2.5-32PK	32	80,0	85,0	18	55	0,171 - 0,069	17,20	19,46	0,241	92,91	€
PSG2.5-35DL	PSG2.5-35PK	35	87,5	92,5	18	55	0,173 - 0,067	21,08	23,85	0,276	98,45	€
PSG2.5-38DL	PSG2.5-38PK	38	95,0	100,0	20	70	0,173 - 0,067	25,42	28,76	0,361	108,20	€
PSG2.5-40DL	PSG2.5-40PK	40	100,0	105,0	20	70	0,173 - 0,067	28,58	32,34	0,388	112,46	€
PSG2.5-42DL	PSG2.5-42PK	42	105,0	110,0	20	70	0,173 - 0,067	31,96	36,17	0,416	116,93	€
PSG2.5-45DL	PSG2.5-45PK	45	112,5	117,5	20	70	0,173 - 0,067	37,45	42,38	0,461	121,09	€
PSG2.5-48DL	PSG2.5-48PK	48	120,0	125,0	20	70	0,173 - 0,067	43,46	49,17	0,509	129,71	€
PSG2.5-50DL	PSG2.5-50PK	50	125,0	130,0	20	70	0,175 - 0,065	47,75	54,02	0,543	130,04	€

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

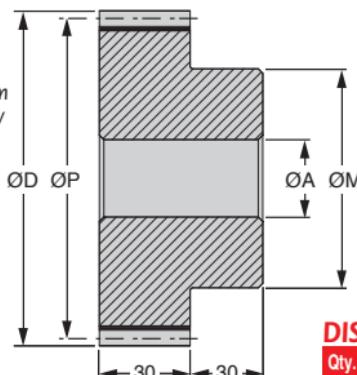
- Efficiency approx 98%

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 Delrin	Peek	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Delrin	Weight Delrin (kg)	Price each 1 to 5 Delrin	Peek
PSG3.0-18DL	PSG3.0-18PK	18	54	60	14	45	0,171 - 0,069	6,63	7,50	0,150	52,64 €
PSG3.0-19DL	PSG3.0-19PK	19	57	63	14	45	0,171 - 0,069	7,46	8,45	0,161	54,61 €
PSG3.0-20DL	PSG3.0-20PK	20	60	66	14	45	0,171 - 0,069	8,35	9,45	0,172	56,41 €
PSG3.0-21DL	PSG3.0-21PK	21	63	69	16	55	0,171 - 0,069	9,30	10,53	0,214	58,26 €
PSG3.0-22DL	PSG3.0-22PK	22	66	72	16	55	0,171 - 0,069	10,31	11,67	0,226	60,25 €
PSG3.0-23DL	PSG3.0-23PK	23	69	75	16	55	0,171 - 0,069	11,38	12,88	0,240	62,19 €
PSG3.0-24DL	PSG3.0-24PK	24	72	78	16	55	0,171 - 0,069	12,51	14,15	0,254	63,97 €
PSG3.0-25DL	PSG3.0-25PK	25	75	81	16	55	0,171 - 0,069	13,70	15,50	0,268	67,85 €
PSG3.0-26DL	PSG3.0-26PK	26	78	84	16	55	0,171 - 0,069	14,96	16,92	0,283	71,72 €
PSG3.0-27DL	PSG3.0-27PK	27	81	87	16	55	0,173 - 0,067	16,28	18,42	0,299	73,45 €
PSG3.0-28DL	PSG3.0-28PK	28	84	90	16	55	0,173 - 0,067	17,66	19,99	0,315	75,50 €
PSG3.0-29DL	PSG3.0-29PK	29	87	93	18	70	0,173 - 0,067	19,12	21,63	0,390	78,58 €
PSG3.0-30DL	PSG3.0-30PK	30	90	96	18	70	0,173 - 0,067	20,63	23,35	0,407	81,42 €
PSG3.0-32DL	PSG3.0-32PK	32	96	102	18	70	0,173 - 0,067	23,88	27,01	0,444	87,34 €
PSG3.0-35DL	PSG3.0-35PK	35	105	111	18	70	0,173 - 0,067	29,26	33,11	0,504	101,16 €
PSG3.0-38DL	PSG3.0-38PK	38	114	120	18	70	0,173 - 0,067	35,30	39,93	0,569	108,58 €
PSG3.0-40DL	PSG3.0-40PK	40	120	126	18	70	0,173 - 0,067	39,69	44,90	0,615	111,63 €

Dimensions in mm

Ground
spur gears
p.440-p.457

Ground spur gear



p.440

MODULE Skive hobbed spur gears

0.5



- 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 (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

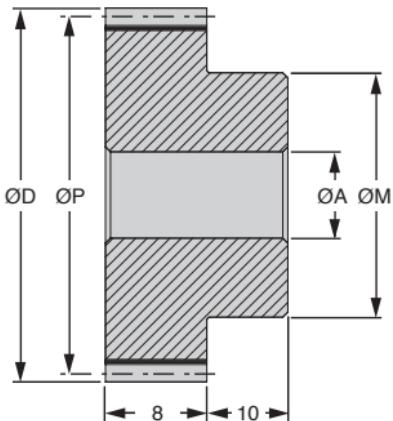
DISCOUNTS

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
PSG0.5-20HC	20	10,0	11,0	4	8	-	0,029 - 0,061	1,11	0,006	83,18 €
PSG0.5-21HC	21	10,5	11,5	4	8	-	0,028 - 0,062	1,16	0,006	84,03 €
PSG0.5-22HC	22	11,0	12,0	4	8	-	0,028 - 0,062	1,22	0,006	85,12 €
PSG0.5-23HC	23	11,5	12,5	4	8	-	0,028 - 0,062	1,27	0,006	86,13 €
PSG0.5-24HC	24	12,0	13,0	5	10	-	0,028 - 0,062	1,33	0,008	87,13 €
PSG0.5-25HC	25	12,5	13,5	5	10	-	0,030 - 0,066	1,38	0,009	88,05 €
PSG0.5-26HC	26	13,0	14,0	5	10	-	0,030 - 0,066	1,44	0,009	89,36 €
PSG0.5-27HC	27	13,5	14,5	5	10	-	0,030 - 0,066	1,50	0,009	90,24 €
PSG0.5-28HC	28	14,0	15,0	5	10	-	0,030 - 0,066	1,55	0,010	91,21 €
PSG0.5-29HCK	29	14,5	15,5	6	13	2	0,030 - 0,066	1,61	0,013	91,73 €
PSG0.5-30HCK	30	15,0	16,0	6	13	2	0,030 - 0,066	1,65	0,014	92,10 €
PSG0.5-32HCK	32	16,0	17,0	6	13	2	0,030 - 0,066	1,76	0,015	94,31 €
PSG0.5-35HCK	35	17,5	18,5	6	13	2	0,030 - 0,066	1,93	0,016	97,50 €
PSG0.5-38HCK	38	19,0	20,0	6	17	2	0,029 - 0,067	2,09	0,026	100,48 €
PSG0.5-40HCK	40	20,0	21,0	6	17	2	0,029 - 0,067	2,45	0,027	102,69 €
PSG0.5-42HCK	42	21,0	22,0	6	17	2	0,029 - 0,067	2,57	0,028	104,48 €
PSG0.5-45HCK	45	22,5	23,5	6	17	2	0,029 - 0,067	2,75	0,030	107,74 €
PSG0.5-48HCK	48	24,0	25,0	6	17	2	0,029 - 0,067	2,94	0,032	111,97 €
PSG0.5-50HCK	50	25,0	26,0	6	17	2	0,029 - 0,067	3,32	0,034	113,13 €
PSG0.5-52HCK	52	26,0	27,0	6	17	2	0,035 - 0,078	3,45	0,035	114,79 €

Dimensions in mm

MODULE 0.5



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
PSG0.5-55HCK	55	27,5	28,5	6	17	2	0,035 - 0,078	3,65	0,038	117,17 €
PSG0.5-58HCK	58	29,0	30,0	6	17	2	0,035 - 0,078	3,85	0,040	119,59 €
PSG0.5-60HCK	60	30,0	31,0	6	17	2	0,035 - 0,078	4,15	0,042	120,83 €
PSG0.5-62HCK	62	31,0	32,0	8	20	2	0,033 - 0,079	4,29	0,048	122,36 €
PSG0.5-65HCK	65	32,5	33,5	8	20	2	0,033 - 0,079	4,50	0,051	125,03 €
PSG0.5-68HCK	68	34,0	35,0	8	20	2	0,033 - 0,079	4,70	0,054	125,82 €
PSG0.5-70HCK	70	35,0	36,0	8	20	2	0,033 - 0,079	4,84	0,056	127,20 €
PSG0.5-72HCK	72	36,0	37,0	8	20	2	0,033 - 0,079	4,98	0,058	128,35 €
PSG0.5-75HCK	75	37,5	38,5	8	20	2	0,033 - 0,079	5,19	0,062	129,42 €
PSG0.5-78HCK	78	39,0	40,0	8	20	2	0,033 - 0,079	5,40	0,065	131,29 €
PSG0.5-80HCK	80	40,0	41,0	8	25	2	0,033 - 0,079	5,80	0,082	131,62 €
PSG0.5-82HCK	82	41,0	42,0	8	25	2	0,033 - 0,079	5,95	0,084	133,70 €
PSG0.5-85HCK	85	42,5	43,5	8	25	2	0,033 - 0,079	6,16	0,088	135,05 €
PSG0.5-90HCK	90	45,0	46,0	8	25	2	0,033 - 0,079	6,53	0,095	137,30 €
PSG0.5-100HCK	100	50,0	51,0	10	30	3	0,033 - 0,079	7,42	0,123	139,29 €
PSG0.5-120HCK	120	60,0	61,0	10	35	3	0,038 - 0,092	8,90	0,177	168,77 €
PSG0.5-130HCK	130	65,0	66,0	10	35	3	0,038 - 0,092	9,65	0,196	193,64 €
PSG0.5-140HCK	140	70,0	71,0	10	35	3	0,038 - 0,092	10,39	0,217	201,69 €
PSG0.5-150HCK	150	75,0	76,0	10	40	3	0,038 - 0,092	11,37	0,262	219,60 €
PSG0.5-200HCK	200	100,0	101,0	14	50	5	0,036 - 0,094	15,32	0,444	270,68 €
PSG0.5-250HCK	250	125,0	126,0	16	60	5	0,039 - 0,104	19,15	0,679	324,66 €

Dimensions in mm

MODULE Skive hobbed spur gears

0.8



- 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 (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

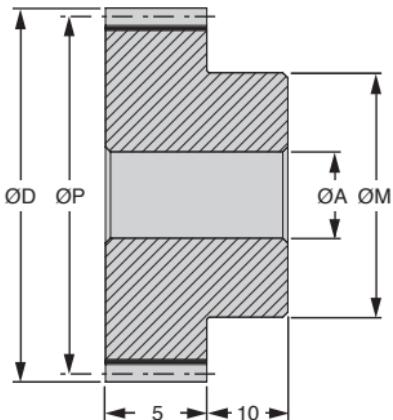
DISCOUNTS

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
PSG0.8-18HC	18	14,4	16,0	5	11	-	0,030 - 0,066	3,46	0,015	81,37 €
PSG0.8-19HC	19	15,2	16,8	5	11	-	0,030 - 0,066	3,65	0,016	82,58 €
PSG0.8-20HC	20	16,0	17,6	5	11	-	0,030 - 0,066	4,53	0,017	83,79 €
PSG0.8-21HC	21	16,8	18,4	5	12	-	0,030 - 0,066	4,76	0,020	86,45 €
PSG0.8-22HC	22	17,6	19,2	5	12	-	0,030 - 0,066	4,98	0,021	87,68 €
PSG0.8-23HC	23	18,4	20,0	5	12	-	0,029 - 0,067	5,21	0,023	88,11 €
PSG0.8-24HCK	24	19,2	20,8	6	14	2	0,029 - 0,067	5,44	0,026	88,57 €
PSG0.8-25HCK	25	20,0	21,6	6	14	2	0,029 - 0,067	5,66	0,028	92,29 €
PSG0.8-26HCK	26	20,8	22,4	6	14	2	0,029 - 0,067	5,90	0,029	95,56 €
PSG0.8-27HCK	27	21,6	23,2	6	14	2	0,029 - 0,067	6,13	0,031	97,56 €
PSG0.8-28HCK	28	22,4	24,0	8	18	2	0,029 - 0,067	6,35	0,037	99,71 €
PSG0.8-29HCK	29	23,2	24,8	8	18	2	0,029 - 0,067	6,58	0,039	102,32 €
PSG0.8-30HCK	30	24,0	25,6	8	18	2	0,029 - 0,067	6,76	0,041	104,04 €
PSG0.8-32HCK	32	25,6	27,2	8	18	2	0,035 - 0,078	7,21	0,045	106,73 €
PSG0.8-35HCK	35	28,0	29,6	10	20	3	0,035 - 0,078	7,89	0,052	110,35 €
PSG0.8-38HCK	38	30,4	32,0	10	20	3	0,033 - 0,079	8,57	0,059	114,85 €
PSG0.8-40HCK	40	32,0	33,6	10	20	3	0,033 - 0,079	10,03	0,064	119,06 €
PSG0.8-42HCK	42	33,6	35,2	10	20	3	0,033 - 0,079	10,53	0,069	119,93 €
PSG0.8-45HCK	45	36,0	37,6	10	20	3	0,033 - 0,079	11,28	0,077	121,66 €
PSG0.8-48HCK	48	38,4	40,0	10	30	3	0,033 - 0,079	12,04	0,117	122,69 €

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	135,45 €
PSG0.8-52HCK	52	41,6	43,2	10	30	3	0,033 - 0,079	14,15	0,129	139,46 €
PSG0.8-55HCK	55	44,0	45,6	10	30	3	0,033 - 0,079	14,97	0,139	145,25 €
PSG0.8-58HCK	58	46,4	48,0	10	30	3	0,033 - 0,079	15,78	0,150	149,66 €
PSG0.8-60HCK	60	48,0	49,6	10	40	3	0,033 - 0,079	17,00	0,200	153,12 €
PSG0.8-62HCK	62	49,6	51,2	10	40	3	0,033 - 0,079	17,57	0,208	158,14 €
PSG0.8-65HCK	65	52,0	53,6	10	40	3	0,038 - 0,092	18,42	0,220	169,47 €
PSG0.8-68HCK	68	54,4	56,0	10	40	3	0,038 - 0,092	19,27	0,233	178,19 €
PSG0.8-70HCK	70	56,0	57,6	10	40	3	0,038 - 0,092	19,83	0,241	181,89 €
PSG0.8-72HCK	72	57,6	59,2	10	40	3	0,038 - 0,092	20,40	0,250	185,83 €
PSG0.8-75HCK	75	60,0	61,6	10	50	3	0,038 - 0,092	21,25	0,320	198,24 €
PSG0.8-78HCK	78	62,4	64,0	10	50	3	0,038 - 0,092	22,10	0,334	201,23 €
PSG0.8-80HCK	80	64,0	65,6	10	50	3	0,038 - 0,092	23,77	0,344	205,30 €
PSG0.8-82HCK	82	65,6	67,2	10	50	3	0,038 - 0,092	24,36	0,354	208,24 €
PSG0.8-85HCK	85	68,0	69,6	10	50	3	0,038 - 0,092	25,25	0,370	212,71 €
PSG0.8-90HCK	90	72,0	73,6	10	65	3	0,038 - 0,092	26,74	0,504	219,58 €
PSG0.8-95HCK	95	76,0	77,6	10	65	3	0,038 - 0,092	28,22	0,533	243,07 €
PSG0.8-100HCK	100	80,0	81,6	14	65	5	0,038 - 0,092	30,39	0,553	246,29 €
PSG0.8-110HCK	110	88,0	89,6	14	70	5	0,036 - 0,094	31,91	0,661	308,31 €
PSG0.8-120HCK	120	96,0	97,6	14	70	5	0,036 - 0,094	33,43	0,733	348,65 €

Dimensions in mm

MODULE Skive hobbed spur gears

Case hardened steel

1.0



- 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.



Quality grade 6e25

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

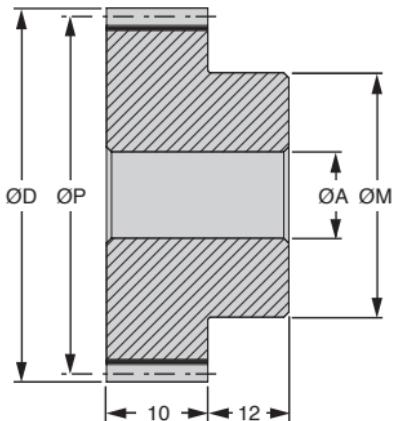
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Teeth	OP Pitch	OD External	OA Bore	ØM 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	86,29 €
PSG1.0-19HC	19	19	21	5	15	-	0,029 - 0,067	6,83	0,035	87,58 €
PSG1.0-20HC	20	20	22	5	15	-	0,029 - 0,067	8,85	0,038	90,44 €
PSG1.0-21HC	21	21	23	5	15	-	0,029 - 0,067	9,29	0,040	91,01 €
PSG1.0-22HC	22	22	24	5	15	-	0,029 - 0,067	9,73	0,043	92,33 €
PSG1.0-23HC	23	23	25	5	15	-	0,029 - 0,067	10,18	0,045	92,68 €
PSG1.0-24HCK	24	24	26	6	20	2	0,029 - 0,067	10,62	0,060	93,26 €
PSG1.0-25HCK	25	25	27	6	20	2	0,029 - 0,067	11,06	0,063	97,15 €
PSG1.0-26HCK	26	26	28	6	20	2	0,035 - 0,078	11,52	0,066	100,60 €
PSG1.0-27HCK	27	27	29	6	20	2	0,035 - 0,078	11,96	0,069	102,69 €
PSG1.0-28HCK	28	28	30	6	20	2	0,035 - 0,078	12,41	0,073	104,98 €
PSG1.0-29HCK	29	29	31	8	25	2	0,035 - 0,078	12,85	0,089	107,74 €
PSG1.0-30HCK	30	30	32	8	25	2	0,035 - 0,078	13,21	0,092	109,53 €
PSG1.0-32HCK	32	32	34	8	25	2	0,033 - 0,079	14,09	0,100	112,33 €
PSG1.0-35HCK	35	35	37	8	25	3	0,033 - 0,079	15,41	0,112	116,18 €
PSG1.0-38HCK	38	38	40	10	34	3	0,033 - 0,079	16,73	0,160	120,92 €
PSG1.0-40HCK	40	40	42	10	34	3	0,033 - 0,079	19,59	0,170	125,37 €
PSG1.0-42HCK	42	42	44	10	34	3	0,033 - 0,079	20,57	0,180	126,31 €
PSG1.0-45HCK	45	45	47	10	34	3	0,033 - 0,079	22,04	0,196	128,07 €
PSG1.0-48HCK	48	48	50	10	34	3	0,033 - 0,079	23,51	0,213	129,13 €

Dimensions in mm

MODULE

1.0



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
PSG1.0-50HCK	50	50	52	10	34	3	0,033 - 0,079	26,57	0,225	142,54 €
PSG1.0-52HCK	52	52	54	10	40	3	0,038 - 0,092	27,64	0,270	146,77 €
PSG1.0-55HCK	55	55	57	10	40	3	0,038 - 0,092	29,23	0,290	152,89 €
PSG1.0-58HCK	58	58	60	10	40	3	0,038 - 0,092	30,82	0,311	157,52 €
PSG1.0-60HCK	60	60	62	10	40	3	0,038 - 0,092	33,20	0,325	161,22 €
PSG1.0-62HCK	62	62	64	10	40	3	0,038 - 0,092	34,31	0,340	166,48 €
PSG1.0-65HCK	65	65	67	10	50	3	0,038 - 0,092	35,97	0,430	178,36 €
PSG1.0-68HCK	68	68	70	10	50	3	0,038 - 0,092	37,63	0,455	187,59 €
PSG1.0-70HCK	70	70	72	10	50	3	0,038 - 0,092	38,73	0,472	191,47 €
PSG1.0-72HCK	72	72	74	10	50	3	0,038 - 0,092	39,84	0,489	195,63 €
PSG1.0-75HCK	75	75	77	10	50	3	0,038 - 0,092	41,50	0,516	208,68 €
PSG1.0-78HCK	78	78	80	10	60	3	0,038 - 0,092	43,16	0,626	211,87 €
PSG1.0-80HCK	80	80	82	10	60	3	0,038 - 0,092	46,42	0,645	216,10 €
PSG1.0-82HCK	82	82	84	10	60	3	0,036 - 0,094	47,58	0,665	219,20 €
PSG1.0-85HCK	85	85	87	10	60	3	0,036 - 0,094	49,32	0,696	223,91 €
PSG1.0-90HCK	90	90	92	10	60	3	0,036 - 0,094	52,22	0,750	231,11 €
PSG1.0-95HCK	95	95	97	10	60	3	0,036 - 0,094	55,12	0,807	255,83 €
PSG1.0-100HCK	100	100	102	14	70	5	0,036 - 0,094	59,36	0,950	259,23 €
PSG1.0-110HCK	110	110	112	14	70	5	0,040 - 0,102	65,30	1,079	324,51 €
PSG1.0-120HCK	120	120	122	14	70	5	0,040 - 0,102	71,24	1,220	366,95 €

Dimensions in mm

MODULE 1.25 Skive hobbed spur gears

Case hardened steel

1.25



- 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.

Quality grade 6e25

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.

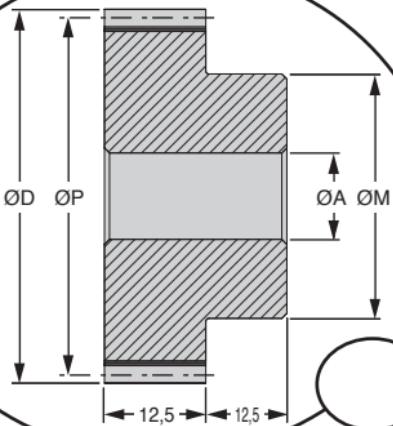
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Teeth	DP Pitch	OD 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	107,34 €
PSG1.25-19HCK	19	23,75	26,25	6	15	2	0,097 - 0,046	12,75	0,055	109,56 €
PSG1.25-20HCK	20	25,00	27,50	6	15	2	0,108 - 0,052	16,97	0,059	111,16 €
PSG1.25-21HCK	21	26,25	28,75	8	20	2	0,108 - 0,052	17,82	0,073	114,66 €
PSG1.25-22HCK	22	27,50	30,00	8	20	2	0,108 - 0,052	18,67	0,079	116,32 €
PSG1.25-23HCK	23	28,75	31,25	8	20	2	0,108 - 0,052	19,52	0,084	116,85 €
PSG1.25-24HCK	24	30,00	32,50	8	22	2	0,108 - 0,052	20,36	0,096	117,49 €
PSG1.25-25HCK	25	31,25	33,75	8	22	2	0,109 - 0,050	21,21	0,102	122,38 €
PSG1.25-26HCK	26	32,50	35,00	8	22	2	0,109 - 0,050	22,50	0,108	126,76 €
PSG1.25-27HCK	27	33,75	36,25	8	22	2	0,109 - 0,050	23,37	0,114	129,36 €
PSG1.25-28HCK	28	35,00	37,50	8	25	2	0,109 - 0,050	24,23	0,132	132,28 €
PSG1.25-29HCK	29	36,25	38,75	8	25	2	0,109 - 0,050	25,10	0,138	135,72 €
PSG1.25-30HCK	30	37,50	40,00	8	25	2	0,109 - 0,050	25,80	0,145	138,01 €
PSG1.25-32HCK	32	40,00	42,50	8	25	2	0,109 - 0,050	27,52	0,160	141,56 €
PSG1.25-35HCK	35	43,75	46,25	10	30	3	0,109 - 0,050	30,10	0,200	146,37 €
PSG1.25-38HCK	38	47,50	50,00	10	30	3	0,109 - 0,050	32,68	0,226	152,32 €
PSG1.25-40HCK	40	50,00	52,50	10	30	3	0,120 - 0,057	38,26	0,245	157,94 €
PSG1.25-42HCK	42	52,50	55,00	10	30	3	0,122 - 0,055	40,17	0,264	159,07 €
PSG1.25-45HCK	45	56,25	58,75	10	30	3	0,122 - 0,055	43,04	0,296	161,39 €
PSG1.25-48HCK	48	60,00	62,50	10	40	3	0,122 - 0,055	45,91	0,383	162,77 €

Dimensions in mm

MODULE 1.25



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
PSG1.25-50HCK	50	62,50	65,00	10	40	3	0,122 - 0,055	51,90	0,407	179,64 €
PSG1.25-52HCK	52	65,00	67,50	10	40	3	0,122 - 0,055	53,98	0,431	184,96 €
PSG1.25-55HCK	55	68,75	71,25	10	40	3	0,122 - 0,055	57,09	0,469	192,69 €
PSG1.25-58HCK	58	72,50	75,00	10	40	3	0,122 - 0,055	60,20	0,510	198,52 €
PSG1.25-60HCK	60	75,00	77,50	10	50	3	0,122 - 0,055	64,85	0,608	203,09 €
PSG1.25-62HCK	62	77,50	80,00	10	50	3	0,122 - 0,055	67,01	0,637	209,77 €
PSG1.25-65HCK	65	81,25	83,75	10	50	3	0,123 - 0,053	70,25	0,683	224,79 €
PSG1.25-68HCK	68	85,00	87,50	10	50	3	0,123 - 0,053	73,49	0,731	236,37 €
PSG1.25-70HCK	70	87,50	90,00	10	50	3	0,123 - 0,053	75,65	0,764	241,27 €
PSG1.25-72HCK	72	90,00	92,50	10	50	3	0,123 - 0,053	77,82	0,798	246,48 €
PSG1.25-75HCK	75	93,75	96,25	10	60	3	0,123 - 0,053	81,06	0,935	262,94 €
PSG1.25-78HCK	78	97,50	100,00	10	60	3	0,123 - 0,053	84,30	0,991	266,91 €
PSG1.25-80HCK	80	100,00	102,50	10	60	3	0,138 - 0,064	90,66	1,029	272,30 €
PSG1.25-82HCK	82	102,50	105,00	10	60	3	0,138 - 0,064	92,92	1,067	276,18 €
PSG1.25-85HCK	85	106,25	108,75	10	60	3	0,138 - 0,064	96,32	1,128	282,15 €
PSG1.25-90HCK	90	112,50	115,00	10	65	3	0,138 - 0,064	101,99	1,281	291,21 €
PSG1.25-95HCK	95	118,75	121,25	10	65	3	0,138 - 0,064	107,66	1,392	322,39 €
PSG1.25-100HCK	100	125,00	127,50	14	65	5	0,140 - 0,062	115,95	1,494	326,66 €
PSG1.25-110HCK	110	137,50	140,00	14	70	5	0,140 - 0,062	121,74	1,798	408,90 €
PSG1.25-120HCK	120	150,00	152,50	14	70	5	0,140 - 0,062	127,54	2,075	462,41 €

Dimensions in mm

Ground spur gear



MODULE

Heat treated steel

1,0



- Ground spur gear, precision

JIS B1702 grade 3

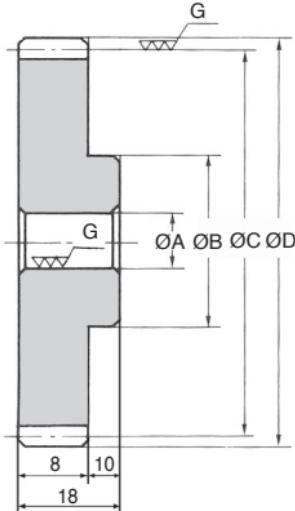
- Pressure angle 20°

- 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	84,59 €
GG1-16	16	16	18	13	6	0,08-0,16	0,02	87,30 €
GG1-17	17	17	19	14	6	0,08-0,16	0,02	90,04 €
GG1-18	18	18	20	15	6	0,08-0,16	0,03	92,11 €
GG1-19	19	19	21	16	6	0,08-0,16	0,03	95,52 €
GG1-20	20	20	22	17	6	0,08-0,16	0,03	96,52 €
GG1-21	21	21	23	18	8	0,08-0,16	0,04	99,25 €
GG1-22	22	22	24	18	8	0,08-0,16	0,04	101,00 €
GG1-23	23	23	25	20	8	0,08-0,16	0,04	104,72 €
GG1-24	24	24	26	20	8	0,08-0,16	0,05	107,82 €

Dimensions in mm

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	110,17 €
GG1-26	26	26	28	20	8	0,08-0,16	0,05	112,88 €
GG1-27	27	27	29	20	8	0,08-0,16	0,05	115,30 €
GG1-28	28	28	30	20	8	0,08-0,16	0,06	117,69 €
GG1-29	29	29	31	25	8	0,08-0,16	0,07	122,83 €
GG1-30	30	30	32	25	10	0,08-0,16	0,07	124,51 €
GG1-32	32	32	34	25	10	0,08-0,16	0,08	126,53 €
GG1-34	34	34	36	25	10	0,08-0,16	0,08	131,67 €
GG1-35	35	35	37	25	10	0,08-0,16	0,09	134,37 €
GG1-36	36	36	38	25	10	0,08-0,16	0,09	137,12 €
GG1-38	38	38	40	30	10	0,08-0,16	0,12	141,92 €
GG1-40	40	40	42	30	10	0,08-0,16	0,12	144,98 €
GG1-42	42	42	44	30	10	0,08-0,16	0,13	147,37 €
GG1-44	44	44	46	30	10	0,08-0,16	0,14	152,50 €
GG1-45	45	45	47	30	10	0,08-0,16	0,15	156,29 €
GG1-48	48	48	50	30	10	0,08-0,16	0,16	167,83 €
GG1-50	50	50	52	35	12	0,08-0,16	0,18	173,68 €
GG1-55	55	55	57	35	12	0,10-0,18	0,21	189,38 €
GG1-56	56	56	58	35	12	0,10-0,18	0,22	191,73 €
GG1-60	60	60	62	40	12	0,10-0,18	0,26	205,02 €
GG1-64	64	64	66	40	12	0,10-0,18	0,29	220,08 €
GG1-70	70	70	72	40	12	0,10-0,18	0,32	237,50 €
GG1-75	75	75	77	40	12	0,10-0,18	0,36	253,86 €
GG1-80	80	80	82	50	15	0,10-0,18	0,45	271,94 €
GG1-90	90	90	92	50	15	0,10-0,18	0,53	305,07 €
GG1-100	100	100	102	50	15	0,10-0,18	0,63	358,95 €
GG1-120	120	120	122	50	15	0,12-0,20	0,84	438,16 €

Dimensions in mm

MODULE

1,5



Heat treated steel



- Ground spur gear, precision

JIS B1702 grade 3

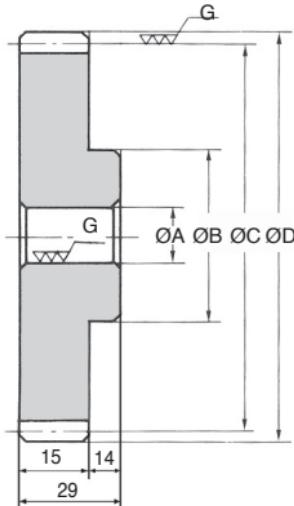
- Pressure angle 20°

- 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	89,35 €
GG1.5-15	15	22,5	25,5	18	10	0,08-0,16	0,07	90,73 €
GG1.5-16	16	24,0	27,0	20	10	0,08-0,16	0,08	95,52 €
GG1.5-17	17	25,5	28,5	21	10	0,08-0,16	0,08	97,56 €
GG1.5-18	18	27,0	30,0	22	10	0,08-0,16	0,10	99,94 €
GG1.5-19	19	28,5	31,5	23	10	0,08-0,16	0,10	106,38 €
GG1.5-20	20	30,0	33,0	24	10	0,08-0,16	0,13	111,53 €
GG1.5-21	21	31,5	34,5	25	10	0,08-0,16	0,13	114,63 €
GG1.5-22	22	33,0	36,0	26	12	0,08-0,16	0,15	116,63 €
GG1.5-23	23	34,5	37,5	27	12	0,08-0,16	0,15	120,41 €

Dimensions in mm

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	124,51 €
GG1.5-25	25	37,5	40,5	30	12	0,08-0,16	0,20	131,67 €
GG1.5-26	26	39,0	42,0	32	12	0,08-0,16	0,20	133,11 €
GG1.5-27	27	40,5	43,5	34	15	0,08-0,16	0,21	135,80 €
GG1.5-28	28	42,0	45,0	36	15	0,08-0,16	0,25	136,77 €
GG1.5-29	29	43,5	46,5	37	15	0,08-0,16	0,25	137,81 €
GG1.5-30	30	45,0	48,0	38	15	0,08-0,16	0,29	139,54 €
GG1.5-32	32	48,0	51,0	40	15	0,08-0,16	0,33	148,74 €
GG1.5-34	34	51,0	54,0	42	15	0,08-0,18	0,35	155,94 €
GG1.5-35	35	52,5	55,5	42	15	0,08-0,18	0,39	157,28 €
GG1.5-36	36	54,0	57,0	45	15	0,08-0,18	0,43	158,99 €
GG1.5-38	38	57,0	60,0	45	15	0,08-0,18	0,44	163,11 €
GG1.5-40	40	60,0	63,0	50	15	0,08-0,18	0,53	169,57 €
GG1.5-42	42	63,0	66,0	50	15	0,08-0,18	0,54	178,77 €
GG1.5-44	44	66,0	69,0	50	15	0,08-0,18	0,58	186,63 €
GG1.5-45	45	67,5	70,5	50	18	0,10-0,18	0,61	190,74 €
GG1.5-48	48	72,0	75,0	50	18	0,10-0,18	0,67	203,37 €
GG1.5-50	50	75,0	78,0	60	18	0,10-0,18	0,80	209,15 €
GG1.5-55	55	82,5	85,5	60	18	0,10-0,18	0,92	229,95 €
GG1.5-56	56	84,0	87,0	60	18	0,10-0,18	0,92	233,73 €
GG1.5-60	60	90,0	93,0	60	20	0,10-0,18	1,00	253,86 €
GG1.5-64	64	96,0	99,0	60	20	0,10-0,18	1,10	278,08 €
GG1.5-70	70	105,0	108,0	60	20	0,12-0,20	1,30	297,51 €
GG1.5-75	75	112,5	115,5	60	20	0,12-0,20	1,40	324,50 €
GG1.5-80	80	120,0	123,0	70	20	0,12-0,20	1,70	349,43 €
GG1.5-90	90	135,0	138,0	70	20	0,12-0,20	2,00	404,36 €
GG1.5-100	100	150,0	153,0	70	20	0,12-0,20	2,40	481,18 €

Dimensions in mm

Ground spur gear



MODULE 2,0



Heat treated steel



- Ground spur gear, precision

JIS B1702 grade 3

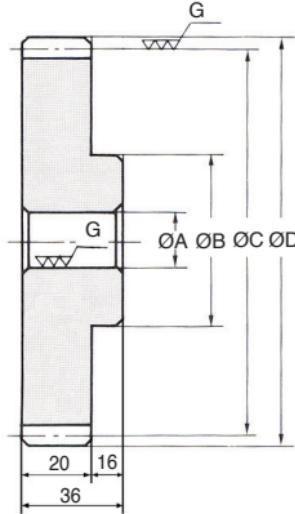
- Pressure angle 20°

- Material: steel S45C

- Tooth surfaces induction hardened

- Surface hardness 48-53HRC

- Datum reference surface for teeth grinding: bore



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	107,43 €
GG2-15	15	30	34	24	12	0,10-0,20	0,18	111,53 €
GG2-16	16	32	36	26	12	0,10-0,20	0,18	115,30 €
GG2-17	17	34	38	28	12	0,10-0,20	0,19	120,41 €
GG2-18	18	36	40	30	12	0,10-0,20	0,25	124,51 €
GG2-19	19	38	42	31	12	0,10-0,20	0,24	127,59 €
GG2-20	20	40	44	32	15	0,10-0,20	0,31	128,28 €
GG2-21	21	42	46	34	15	0,10-0,20	0,28	128,95 €
GG2-22	22	44	48	36	15	0,10-0,20	0,38	132,36 €
GG2-23	23	46	50	37	15	0,10-0,20	0,35	138,51 €

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	141,57 €
GG2-25	25	50	54	40	15	0,10-0,20	0,49	142,62 €
GG2-26	26	52	56	42	15	0,12-0,22	0,46	151,48 €
GG2-27	27	54	58	44	15	0,12-0,22	0,50	152,84 €
GG2-28	28	56	60	45	15	0,12-0,22	0,61	157,93 €
GG2-29	29	58	62	48	15	0,12-0,22	0,59	159,35 €
GG2-30	30	60	64	50	18	0,12-0,22	0,67	163,11 €
GG2-32	32	64	68	50	18	0,12-0,22	0,74	169,26 €
GG2-34	34	68	72	50	18	0,12-0,22	0,75	180,83 €
GG2-35	35	70	74	50	18	0,12-0,22	0,84	187,95 €
GG2-36	36	72	76	50	18	0,12-0,22	0,88	190,05 €
GG2-38	38	76	80	50	18	0,12-0,22	0,89	203,03 €
GG2-40	40	80	84	60	20	0,12-0,22	1,10	222,81 €
GG2-42	42	84	88	60	20	0,12-0,22	1,10	229,65 €
GG2-44	44	88	92	60	20	0,12-0,22	1,20	242,96 €
GG2-45	45	90	94	60	20	0,12-0,22	1,30	250,10 €
GG2-48	48	96	100	60	20	0,12-0,22	1,50	272,67 €
GG2-50	50	100	104	60	25	0,12-0,22	1,60	281,87 €
GG2-55	55	110	114	60	25	0,14-0,24	1,70	310,83 €
GG2-56	56	112	116	60	25	0,14-0,24	1,80	316,33 €
GG2-60	60	120	124	65	25	0,14-0,24	2,20	345,63 €
GG2-64	64	128	132	65	25	0,14-0,24	2,30	378,79 €
GG2-70	70	140	144	70	25	0,14-0,24	2,90	417,32 €
GG2-75	75	150	154	70	25	0,14-0,24	3,10	464,40 €
GG2-80	80	160	164	80	25	0,14-0,24	3,80	492,75 €
GG2-90	90	180	184	80	25	0,14-0,24	4,50	583,56 €
GG2-100	100	200	204	80	25	0,14-0,24	5,40	684,57 €

Dimensions in mm

Ground spur gear



MODULE

2,5



Heat treated steel



- Ground spur gear, precision

JIS B1702 grade 3

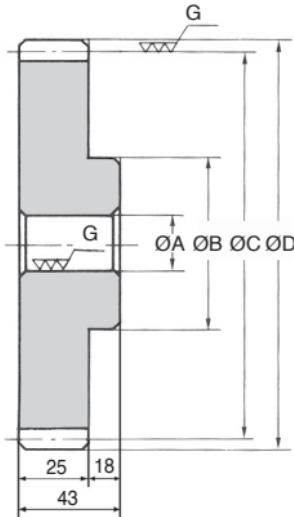
- Pressure angle 20°

- 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	116,03 €
GG2.5-15	15	37,5	42,5	30	15	0,10-0,20	0,33	121,13 €
GG2.5-16	16	40,0	45,0	32	15	0,10-0,20	0,38	129,95 €
GG2.5-17	17	42,5	47,5	35	15	0,10-0,20	0,36	134,05 €
GG2.5-18	18	45,0	50,0	38	15	0,10-0,20	0,50	141,57 €
GG2.5-19	19	47,5	52,5	39	15	0,10-0,20	0,46	147,69 €
GG2.5-20	20	50,0	55,0	40	18	0,10-0,20	0,55	158,29 €
GG2.5-21	21	52,5	57,5	42	18	0,12-0,22	0,54	162,06 €
GG2.5-22	22	55,0	60,0	44	18	0,12-0,22	0,60	170,91 €
GG2.5-23	23	57,5	62,5	46	18	0,12-0,22	0,66	175,68 €

Dimensions in mm

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	184,56 €
GG2.5-25	25	62,5	67,5	50	20	0,12-0,22	0,93	190,74 €
GG2.5-26	26	65,0	70,0	54	20	0,12-0,22	0,87	201,35 €
GG2.5-27	27	67,5	72,5	56	20	0,12-0,22	0,94	205,76 €
GG2.5-28	28	70,0	75,0	60	20	0,12-0,22	1,20	214,98 €
GG2.5-29	29	72,5	77,5	60	20	0,12-0,22	1,10	221,11 €
GG2.5-30	30	75,0	80,0	65	20	0,12-0,22	1,30	231,68 €
GG2.5-32	32	80,0	85,0	70	20	0,12-0,22	1,50	245,38 €
GG2.5-34	34	85,0	90,0	70	20	0,12-0,22	1,60	262,06 €
GG2.5-35	35	87,5	92,5	70	20	0,12-0,22	1,70	266,17 €
GG2.5-36	36	90,0	95,0	70	20	0,12-0,22	1,80	281,49 €
GG2.5-38	38	95,0	100,0	70	20	0,12-0,22	1,80	300,61 €
GG2.5-40	40	100,0	105,0	70	25	0,14-0,24	2,10	313,24 €
GG2.5-42	42	105,0	110,0	75	25	0,14-0,24	2,20	334,42 €
GG2.5-44	44	110,0	115,0	75	25	0,14-0,24	2,30	344,96 €
GG2.5-45	45	112,5	117,5	75	25	0,14-0,24	2,60	350,79 €
GG2.5-48	48	120,0	125,0	75	25	0,14-0,24	2,80	377,75 €
GG2.5-50	50	125,0	130,0	80	25	0,14-0,24	3,10	400,64 €
GG2.5-55	55	137,5	142,5	80	25	0,14-0,24	3,50	439,88 €
GG2.5-56	56	140,0	145,0	80	25	0,14-0,24	3,60	450,76 €
GG2.5-60	60	150,0	155,0	80	25	0,14-0,24	4,20	496,50 €
GG2.5-70	70	175,0	180,0	80	25	0,14-0,24	5,30	620,42 €
GG2.5-75	75	187,5	192,5	90	25	0,14-0,24	6,20	682,56 €
GG2.5-80	80	200,0	205,0	90	25	0,14-0,24	6,90	762,70 €

Dimensions in mm

Ground spur gear



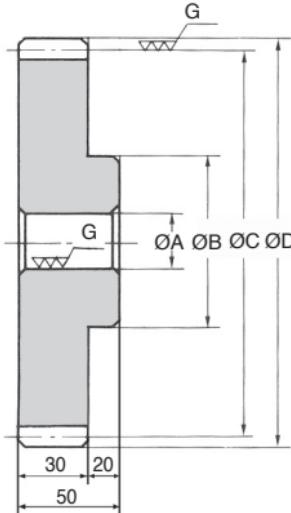
MODULE

3,0



- 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

Heat treated steel



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	148,42 €
GG3-15	15	45	51	36	16	0,10-0,20	0,58	150,78 €
GG3-16	16	48	54	38	16	0,10-0,20	0,66	156,96 €
GG3-17	17	51	57	37	16	0,12-0,22	0,57	162,40 €
GG3-18	18	54	60	40	16	0,12-0,22	0,80	171,25 €
GG3-19	19	57	63	45	16	0,12-0,22	0,77	182,19 €
GG3-20	20	60	66	50	20	0,12-0,22	0,98	190,41 €
GG3-21	21	63	69	52	20	0,12-0,22	0,94	202,70 €
GG3-22	22	66	72	54	20	0,12-0,22	1,20	208,46 €
GG3-23	23	69	75	56	20	0,12-0,22	1,10	220,75 €

Dimensions in mm

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	225,53 €
GG3-25	25	75	81	60	20	0,12-0,22	1,50	235,76 €
GG3-26	26	78	84	62	20	0,12-0,22	1,50	252,54 €
GG3-27	27	81	87	65	20	0,12-0,22	1,60	257,24 €
GG3-28	28	84	90	70	20	0,12-0,22	2,00	268,88 €
GG3-29	29	87	93	70	20	0,12-0,22	1,90	276,42 €
GG3-30	30	90	96	75	25	0,12-0,22	2,20	291,08 €
GG3-32	32	96	102	75	25	0,12-0,22	2,40	315,31 €
GG3-34	34	102	108	75	25	0,14-0,24	2,40	343,98 €
GG3-35	35	105	111	80	25	0,14-0,24	2,90	349,77 €
GG3-36	36	108	114	80	25	0,14-0,24	3,00	357,61 €
GG3-38	38	114	120	80	25	0,14-0,24	3,00	384,60 €
GG3-40	40	120	126	80	25	0,14-0,24	3,50	405,06 €
GG3-42	42	126	132	80	25	0,14-0,24	3,50	434,02 €
GG3-44	44	132	138	80	25	0,14-0,24	3,80	448,39 €
GG3-45	45	135	141	80	25	0,14-0,24	4,20	468,16 €
GG3-48	48	144	150	85	25	0,14-0,24	5,30	514,63 €
GG3-50	50	150	156	85	30	0,14-0,24	5,60	531,32 €
GG3-55	55	165	171	90	30	0,14-0,24	5,90	642,22 €
GG3-56	56	168	174	90	30	0,14-0,24	6,00	648,07 €
GG3-60	60	180	186	100	30	0,14-0,24	7,40	696,85 €
GG3-70	70	210	216	100	30	0,14-0,24	9,10	869,57 €
GG3-75	75	225	231	100	30	0,14-0,24	10,30	976,68 €
GG3-80	80	240	246	100	30	0,14-0,24	11,60	1 072,95 €

Dimensions in mm

Precision
helical gears
p.460-p.481

Parallel helical gear



p.460

Crossed helical gear



p.472

MODULE Parallel helical gear

Pre-treated or case hardened steel

0.5



- 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

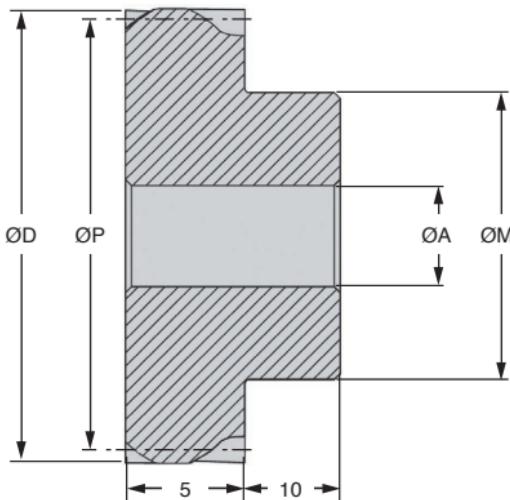
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Standard Hardened	Z Teeth	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight (kg)	Price each 1 to 5 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 29,03 € 47,96 €
PHG0.5-21R PHG0.5-21RH	21	10,87	11,87	4	8	0,079 - 0,037	0,36	1,31	0,007 29,33 € 48,45 €
PHG0.5-22R PHG0.5-22RH	22	11,39	12,39	4	8	0,079 - 0,037	0,37	1,37	0,007 29,86 € 49,26 €
PHG0.5-23R PHG0.5-23RH	23	11,91	12,91	4	8	0,079 - 0,037	0,39	1,43	0,007 30,14 € 49,72 €
PHG0.5-24R PHG0.5-24RH	24	12,42	13,42	5	10	0,091 - 0,044	0,41	1,50	0,009 30,52 € 50,33 €
PHG0.5-25R PHG0.5-25RH	25	12,94	13,94	5	10	0,091 - 0,044	0,43	1,56	0,009 30,81 € 50,86 €
PHG0.5-26R PHG0.5-26RH	26	13,46	14,46	5	10	0,091 - 0,044	0,56	1,79	0,009 31,30 € 51,67 €
PHG0.5-27R PHG0.5-27RH	27	13,98	14,98	5	10	0,091 - 0,044	0,58	1,86	0,010 31,57 € 52,14 €
PHG0.5-28R PHG0.5-28RH	28	14,49	15,49	5	10	0,091 - 0,044	0,60	1,92	0,010 31,99 € 52,86 €
PHG0.5-29R PHG0.5-29RH	29	15,01	16,01	6	13	0,091 - 0,044	0,62	1,99	0,015 32,14 € 53,02 €
PHG0.5-30R PHG0.5-30RH	30	15,53	16,53	6	13	0,091 - 0,044	0,73	2,05	0,015 32,21 € 53,20 €
PHG0.5-32R PHG0.5-32RH	32	16,56	17,56	6	13	0,091 - 0,044	0,78	2,19	0,016 32,93 € 54,36 €
PHG0.5-35R PHG0.5-35RH	35	18,12	19,12	6	13	0,092 - 0,043	0,85	2,39	0,018 34,06 € 56,24 €
PHG0.5-38R PHG0.5-38RH	38	19,67	20,67	6	18	0,092 - 0,043	0,93	2,60	0,028 35,24 € 58,20 €
PHG0.5-40R PHG0.5-40RH	40	20,71	21,71	6	18	0,092 - 0,043	1,25	3,04	0,030 35,91 € 59,26 €
PHG0.5-42R PHG0.5-42RH	42	21,74	22,74	6	18	0,092 - 0,043	1,31	3,19	0,031 36,57 € 60,37 €
PHG0.5-45R PHG0.5-45RH	45	23,29	24,29	6	18	0,092 - 0,043	1,40	3,42	0,033 37,70 € 62,23 €
PHG0.5-48R PHG0.5-48RH	48	24,85	25,85	6	18	0,092 - 0,043	1,50	3,65	0,036 38,84 € 64,11 €
PHG0.5-50R PHG0.5-50RH	50	25,88	26,88	6	18	0,100 - 0,047	1,95	4,12	0,037 39,56 € 65,24 €

Dimensions in mm

MODULE

0.5



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) Standard Hardened	Weight (kg) Standard	Price each 1 to 5 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	40,14 €	66,21 €
PHG0.5-55R	PHG0.5-55RH	55	28,47	29,47	6	25	0,100 - 0,047	2,15	4,53	0,060	40,96 €	67,66 €
PHG0.5-58R	PHG0.5-58RH	58	30,02	31,02	6	25	0,102 - 0,046	2,27	4,78	0,063	41,77 €	68,99 €
PHG0.5-60R	PHG0.5-60RH	60	31,06	32,06	6	25	0,102 - 0,046	2,67	5,15	0,065	42,39 €	69,95 €
PHG0.5-62R	PHG0.5-62RH	62	32,09	33,09	6	25	0,102 - 0,046	2,76	5,32	0,067	42,86 €	70,71 €
PHG0.5-65R	PHG0.5-65RH	65	33,65	34,65	6	25	0,102 - 0,046	2,89	5,58	0,070	43,71 €	72,15 €
PHG0.5-68R	PHG0.5-68RH	68	35,20	36,20	6	25	0,102 - 0,046	3,03	5,84	0,073	44,21 €	73,01 €
PHG0.5-70R	PHG0.5-70RH	70	36,23	37,23	6	25	0,102 - 0,046	3,11	6,01	0,075	44,44 €	73,33 €
PHG0.5-72R	PHG0.5-72RH	72	37,27	38,27	6	25	0,102 - 0,046	3,20	6,18	0,078	44,96 €	74,14 €
PHG0.5-75R	PHG0.5-75RH	75	38,82	39,82	6	25	0,102 - 0,046	3,34	6,44	0,081	45,29 €	74,72 €
PHG0.5-78R	PHG0.5-78RH	78	40,38	41,38	8	35	0,102 - 0,046	3,47	6,69	0,119	46,06 €	76,04 €
PHG0.5-80R	PHG0.5-80RH	80	41,41	42,41	8	35	0,102 - 0,046	4,60	7,20	0,122	46,28 €	76,38 €
PHG0.5-82R	PHG0.5-82RH	82	42,45	43,45	8	35	0,102 - 0,046	4,71	7,38	0,125	46,70 €	77,08 €
PHG0.5-85R	PHG0.5-85RH	85	44,00	45,00	8	35	0,102 - 0,046	4,89	7,65	0,129	47,17 €	77,86 €
PHG0.5-90R	PHG0.5-90RH	90	46,59	47,59	8	35	0,102 - 0,046	5,17	8,10	0,136	48,06 €	79,31 €
PHG0.5-100R	PHG0.5-100RH	100	51,76	52,76	8	35	0,115 - 0,097	5,89	9,21	0,151	48,81 €	80,51 €
PHG0.5-120R	PHG0.5-120RH	120	62,12	63,12	8	35	0,115 - 0,097	7,07	11,05	0,188	59,03 €	97,45 €
PHG0.5-130R	PHG0.5-130RH	130	67,29	68,29	12	45	0,115 - 0,097	7,66	11,97	0,251	67,21 €	110,91 €
PHG0.5-140R	PHG0.5-140RH	140	72,47	73,47	12	45	0,115 - 0,097	8,25	12,89	0,273	70,60 €	116,54 €
PHG0.5-150R	PHG0.5-150RH	150	77,65	78,65	12	45	0,115 - 0,097	9,03	14,11	0,297	77,98 €	128,70 €
PHG0.5-200R	PHG0.5-200RH	200	103,53	104,53	14	55	0,139 - 0,066	12,17	19,01	0,498	94,93 €	156,64 €
PHG0.5-230R	PHG0.5-230RH	230	119,06	120,06	16	65	0,139 - 0,066	13,99	21,86	0,673	106,21 €	175,29 €

Dimensions in mm

MODULE Parallel helical gear

Pre-treated or case hardened steel

1.0



- 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.



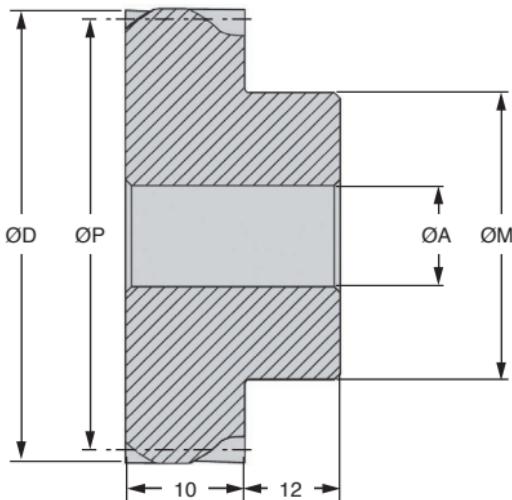
Quality grade 7e25

DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Standard Hardened	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight Price each 1 to 5 (kg) 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 51,49 € 48,45 €
PHG1.0-19R PHG1.0-19RH	19	19,67	21,67	5	13	0,132 - 0,054	1,77	6,48 0,033 29,94 € 49,44 €
PHG1.0-20R PHG1.0-20RH	20	20,71	22,71	5	13	0,132 - 0,054	2,37	8,69 0,035 30,81 € 50,86 €
PHG1.0-21R PHG1.0-21RH	21	21,74	23,74	5	13	0,132 - 0,054	2,49	9,12 0,038 31,04 € 51,25 €
PHG1.0-22R PHG1.0-22RH	22	22,78	24,78	5	13	0,132 - 0,054	2,61	9,56 0,041 31,43 € 51,86 €
PHG1.0-23R PHG1.0-23RH	23	23,81	25,81	5	13	0,132 - 0,054	2,72	9,99 0,044 31,57 € 52,14 €
PHG1.0-24R PHG1.0-24RH	24	24,85	26,85	6	20	0,132 - 0,054	2,84	10,43 0,062 31,75 € 52,43 €
PHG1.0-25R PHG1.0-25RH	25	25,88	27,88	6	20	0,132 - 0,054	2,96	10,86 0,066 33,04 € 54,52 €
PHG1.0-26R PHG1.0-26RH	26	26,92	28,92	6	20	0,132 - 0,054	3,88	14,21 0,069 34,43 € 56,82 €
PHG1.0-27R PHG1.0-27RH	27	27,95	29,95	6	20	0,132 - 0,054	4,02	14,76 0,072 34,97 € 57,76 €
PHG1.0-28R PHG1.0-28RH	28	28,99	30,99	6	20	0,132 - 0,054	4,17	15,30 0,076 35,79 € 59,03 €
PHG1.0-29R PHG1.0-29RH	29	30,02	32,02	6	20	0,134 - 0,053	4,32	15,85 0,080 36,67 € 60,51 €
PHG1.0-30R PHG1.0-30RH	30	31,06	33,06	6	20	0,134 - 0,053	5,10	16,39 0,084 37,36 € 61,67 €
PHG1.0-32R PHG1.0-32RH	32	33,13	35,13	6	20	0,134 - 0,053	5,44	17,48 0,092 38,25 € 63,13 €
PHG1.0-35R PHG1.0-35RH	35	36,23	38,23	6	20	0,134 - 0,053	5,95	19,12 0,105 39,56 € 65,24 €

Dimensions in mm



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Standard	Hardened	Z Teeth	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm)		Weight (kg)	Price each	1 to 5 Standard	1 to 5 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	41,27 €	68,12 €	
PHG1.0-40R	PHG1.0-40RH		40	41,41	43,41	8	35	0,134 - 0,053	8,70	24,31	0,187	42,77 €	70,56 €	
PHG1.0-42R	PHG1.0-42RH		42	43,48	45,48	8	35	0,134 - 0,053	9,13	25,52	0,197	42,77 €	70,99 €	
PHG1.0-45R	PHG1.0-45RH		45	46,59	48,59	8	35	0,134 - 0,053	9,78	27,35	0,215	43,57 €	71,95 €	
PHG1.0-48R	PHG1.0-48RH		48	49,69	51,69	8	35	0,134 - 0,053	10,44	29,17	0,233	44,11 €	72,76 €	
PHG1.0-50R	PHG1.0-50RH		50	51,76	53,76	10	40	0,177 - 0,072	13,60	32,97	0,269	48,57 €	80,10 €	
PHG1.0-52R	PHG1.0-52RH		52	53,83	55,83	10	40	0,177 - 0,072	14,15	34,29	0,282	50,03 €	82,56 €	
PHG1.0-55R	PHG1.0-55RH		55	56,94	58,94	10	40	0,177 - 0,072	14,96	36,27	0,303	52,11 €	86,01 €	
PHG1.0-58R	PHG1.0-58RH		58	60,05	62,05	10	40	0,177 - 0,072	15,78	38,25	0,326	53,72 €	88,60 €	
PHG1.0-60R	PHG1.0-60RH		60	62,12	64,12	10	40	0,177 - 0,072	18,59	41,20	0,341	55,10 €	90,96 €	
PHG1.0-62R	PHG1.0-62RH		62	64,19	66,19	10	40	0,177 - 0,072	19,21	42,57	0,357	56,71 €	93,62 €	
PHG1.0-65R	PHG1.0-65RH		65	67,29	69,29	10	50	0,177 - 0,072	20,14	44,63	0,449	60,89 €	100,50 €	
PHG1.0-68R	PHG1.0-68RH		68	70,40	72,40	10	50	0,177 - 0,072	21,07	46,69	0,475	63,84 €	105,35 €	
PHG1.0-70R	PHG1.0-70RH		70	72,47	74,47	10	50	0,177 - 0,072	21,69	48,07	0,493	65,12 €	107,47 €	
PHG1.0-72R	PHG1.0-72RH		72	74,54	76,54	10	50	0,177 - 0,072	22,31	49,44	0,512	66,52 €	109,79 €	
PHG1.0-75R	PHG1.0-75RH		75	77,65	79,65	10	50	0,177 - 0,072	23,24	51,50	0,541	69,90 €	115,35 €	
PHG1.0-78R	PHG1.0-78RH		78	80,75	82,75	10	50	0,179 - 0,070	24,17	53,56	0,571	72,33 €	119,34 €	
PHG1.0-80R	PHG1.0-80RH		80	82,82	84,82	10	50	0,179 - 0,070	32,03	57,60	0,592	73,67 €	121,59 €	
PHG1.0-82R	PHG1.0-82RH		82	84,89	86,89	12	60	0,179 - 0,070	32,83	59,04	0,689	76,06 €	125,53 €	
PHG1.0-85R	PHG1.0-85RH		85	88,00	90,00	12	60	0,179 - 0,070	34,03	61,20	0,722	78,27 €	129,15 €	
PHG1.0-90R	PHG1.0-90RH		90	93,17	95,17	12	60	0,179 - 0,070	36,03	64,80	0,780	80,46 €	132,81 €	
PHG1.0-95R	PHG1.0-95RH		95	98,35	100,35	12	60	0,179 - 0,070	38,03	68,40	0,840	87,19 €	143,93 €	
PHG1.0-100R	PHG1.0-100RH		100	103,53	105,53	12	60	0,179 - 0,070	47,15	73,67	0,905	88,33 €	145,72 €	
PHG1.0-110R	PHG1.0-110RH		110	113,88	115,88	14	70	0,179 - 0,070	51,86	81,03	1,132	101,60 €	167,66 €	
PHG1.0-120R	PHG1.0-120RH		120	124,23	126,23	14	70	0,181 - 0,068	56,57	88,40	1,284	125,13 €	206,49 €	
PHG1.0-125R	PHG1.0-125RH		125	129,41	131,41	14	70	0,235 - 0,101	58,93	92,08	1,365	134,46 €	221,91 €	

Dimensions in mm

MODULE Parallel helical gear

Pre-treated or case hardened steel

1.5



- **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

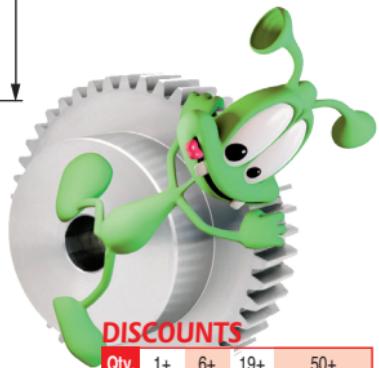
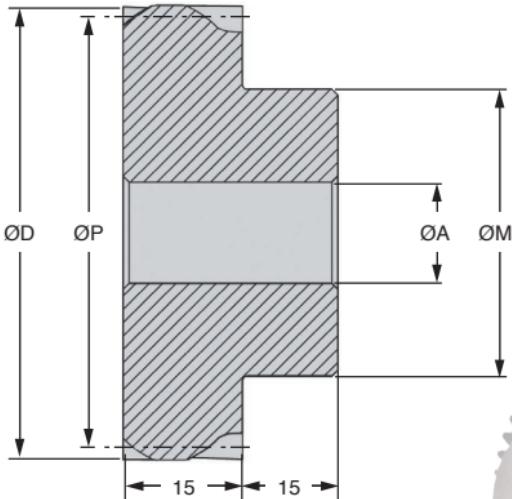
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	OP	OD	ØA	ØM	Backlash	Torque (Nm)	Weight (kg)	Price each 1 to 5
Standard	Hardened	Teeth	Pitch	External	Bore	(mm)	Standard	Standard	Standard
PHG1.5-15R	PHG1.5-15RH	15	23,29	26,29	6	19	0,132 - 0,054	4,35	15,93 0,076 35,46 € 58,47 €
PHG1.5-16R	PHG1.5-16RH	16	24,85	27,85	6	19	0,132 - 0,054	4,63	16,99 0,083 36,29 € 59,87 €
PHG1.5-17R	PHG1.5-17RH	17	26,40	29,40	6	19	0,132 - 0,054	4,92	18,06 0,090 37,36 € 61,67 €
PHG1.5-18R	PHG1.5-18RH	18	27,95	30,95	6	19	0,132 - 0,054	5,21	19,12 0,098 38,50 € 63,52 €
PHG1.5-19R	PHG1.5-19RH	19	29,51	32,51	6	19	0,132 - 0,054	5,50	20,18 0,106 39,97 € 65,99 €
PHG1.5-20R	PHG1.5-20RH	20	31,06	34,06	6	19	0,134 - 0,053	7,37	27,04 0,115 41,91 € 69,16 €
PHG1.5-21R	PHG1.5-21RH	21	32,61	35,61	6	19	0,134 - 0,053	7,74	28,39 0,124 42,49 € 70,17 €
PHG1.5-22R	PHG1.5-22RH	22	34,16	37,16	8	28	0,134 - 0,053	8,11	29,74 0,167 42,86 € 70,71 €
PHG1.5-23R	PHG1.5-23RH	23	35,72	38,72	8	28	0,134 - 0,053	8,48	31,09 0,177 43,52 € 71,84 €
PHG1.5-24R	PHG1.5-24RH	24	37,27	40,27	8	28	0,134 - 0,053	8,85	32,44 0,188 44,11 € 72,76 €
PHG1.5-25R	PHG1.5-25RH	25	38,82	41,82	8	28	0,134 - 0,053	9,22	33,80 0,198 46,28 € 76,38 €
PHG1.5-26R	PHG1.5-26RH	26	40,38	43,38	8	28	0,134 - 0,053	12,06	44,23 0,210 48,50 € 80,04 €
PHG1.5-27R	PHG1.5-27RH	27	41,93	44,93	8	28	0,134 - 0,053	12,53	45,93 0,221 50,22 € 82,86 €
PHG1.5-28R	PHG1.5-28RH	28	43,48	46,48	8	28	0,134 - 0,053	12,99	47,63 0,234 51,61 € 85,18 €

Dimensions in mm

MODULE

1.5



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Standard	Hardened	Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5
			Teeth	Pitch	External	Bore	Boss	Standard	Hardened	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	52,31 € 86,34 €
PHG1.5-30R	PHG1.5-30RH	30	46,59	49,59	10	40	0,134 - 0,053	15,86	55,32	0,328	53,88 € 88,94 €
PHG1.5-32R	PHG1.5-32RH	32	49,69	52,69	10	40	0,134 - 0,053	16,92	59,01	0,355	55,76 € 92,05 €
PHG1.5-35R	PHG1.5-35RH	35	54,35	57,35	10	40	0,177 - 0,072	18,51	64,54	0,400	57,46 € 94,78 €
PHG1.5-38R	PHG1.5-38RH	38	59,01	62,01	12	50	0,177 - 0,072	20,09	70,07	0,524	62,95 € 103,87 €
PHG1.5-40R	PHG1.5-40RH	40	62,12	65,12	12	50	0,177 - 0,072	27,06	82,04	0,558	65,73 € 108,50 €
PHG1.5-42R	PHG1.5-42RH	42	65,22	68,22	12	50	0,177 - 0,072	28,42	86,15	0,595	65,80 € 108,58 €
PHG1.5-45R	PHG1.5-45RH	45	69,88	72,88	12	50	0,177 - 0,072	30,45	92,30	0,652	67,23 € 110,96 €
PHG1.5-48R	PHG1.5-48RH	48	74,54	77,54	12	50	0,177 - 0,072	32,48	98,45	0,714	71,75 € 118,43 €
PHG1.5-50R	PHG1.5-50RH	50	77,65	80,65	14	65	0,177 - 0,072	42,34	111,29	0,908	80,46 € 132,79 €
PHG1.5-52R	PHG1.5-52RH	52	80,75	83,75	14	65	0,179 - 0,070	44,03	115,74	0,953	84,24 € 139,01 €
PHG1.5-55R	PHG1.5-55RH	55	85,41	88,41	14	65	0,179 - 0,070	46,57	122,42	1,024	86,56 € 142,78 €
PHG1.5-58R	PHG1.5-58RH	58	90,07	93,07	14	65	0,179 - 0,070	49,11	129,09	1,100	88,33 € 145,72 €
PHG1.5-60R	PHG1.5-60RH	60	93,17	96,17	14	65	0,179 - 0,070	57,86	139,05	1,152	89,23 € 147,22 €
PHG1.5-62R	PHG1.5-62RH	62	96,28	99,28	14	65	0,179 - 0,070	59,78	143,68	1,206	90,94 € 150,04 €
PHG1.5-65R	PHG1.5-65RH	65	100,94	103,94	16	85	0,179 - 0,070	62,68	150,64	1,557	94,31 € 155,68 €
PHG1.5-68R	PHG1.5-68RH	68	105,60	108,60	16	85	0,179 - 0,070	65,57	157,59	1,646	100,14 € 165,26 €
PHG1.5-70R	PHG1.5-70RH	70	108,70	111,70	16	85	0,179 - 0,070	67,50	162,22	1,707	103,65 € 171,05 €
PHG1.5-72R	PHG1.5-72RH	72	111,81	114,81	16	85	0,179 - 0,070	69,43	166,86	1,770	109,56 € 180,80 €
PHG1.5-75R	PHG1.5-75RH	75	116,47	119,47	16	85	0,179 - 0,070	72,32	173,81	1,888	116,73 € 192,64 €
PHG1.5-78R	PHG1.5-78RH	78	121,13	124,13	16	85	0,186 - 0,070	75,21	180,76	1,970	123,05 € 203,07 €

Dimensions in mm

MODULE Parallel helical gear

Pre-treated or case hardened steel

2.0



- 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:
 - 35NC6 Pre-treated steel 28HRC
 - 20NC2 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

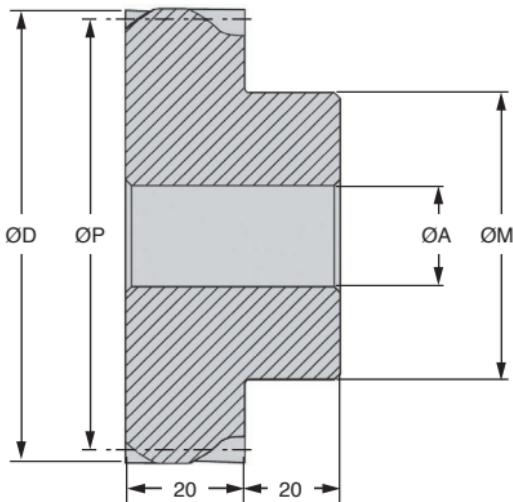
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard Hardened	ØP Teeth	ØD Pitch	ØA External	ØM Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight Price each 1 to 5 (kg)	Price each 1 to 5 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	52,49 € 86,63 €
PHG2.0-16R PHG2.0-16RH	16	33,13	37,13	10	25	0,134 - 0,053	10,37	38,03	0,186	55,10 € 90,96 €
PHG2.0-17R PHG2.0-17RH	17	35,20	39,20	10	25	0,134 - 0,053	11,02	40,41	0,203	56,26 € 92,84 €
PHG2.0-18R PHG2.0-18RH	18	37,27	41,27	10	25	0,134 - 0,053	11,67	42,79	0,222	57,69 € 95,20 €
PHG2.0-19R PHG2.0-19RH	19	39,34	43,34	10	25	0,134 - 0,053	12,32	45,16	0,241	59,14 € 97,61 €
PHG2.0-20R PHG2.0-20RH	20	41,41	45,41	10	25	0,134 - 0,053	16,50	60,51	0,261	60,37 € 99,64 €
PHG2.0-21R PHG2.0-21RH	21	43,48	47,48	12	35	0,134 - 0,053	17,33	63,53	0,346	62,00 € 102,32 €
PHG2.0-22R PHG2.0-22RH	22	45,55	49,55	12	35	0,134 - 0,053	18,15	66,56	0,368	63,13 € 104,13 €
PHG2.0-23R PHG2.0-23RH	23	47,62	51,62	12	35	0,134 - 0,053	18,98	69,58	0,392	64,36 € 106,26 €
PHG2.0-24R PHG2.0-24RH	24	49,69	53,69	12	35	0,134 - 0,053	19,80	72,61	0,416	65,77 € 108,52 €
PHG2.0-25R PHG2.0-25RH	25	51,76	55,76	12	35	0,177 - 0,072	20,63	75,63	0,442	69,56 € 114,83 €
PHG2.0-26R PHG2.0-26RH	26	53,83	57,83	12	35	0,177 - 0,072	26,99	98,97	0,469	71,60 € 118,20 €
PHG2.0-27R PHG2.0-27RH	27	55,90	59,90	12	35	0,177 - 0,072	28,03	102,78	0,497	74,09 € 122,25 €

Dimensions in mm

MODULE

2.0



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) Standard	Weight (kg) Standard	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PHG2.0-28R	PHG2.0-28RH	28	57,98	61,98	14	45	0,177 - 0,072	29,07	106,58	0,611 75,75 € 125,03 €
PHG2.0-29R	PHG2.0-29RH	29	60,05	64,05	14	45	0,177 - 0,072	30,11	110,39	0,641 77,61 € 128,02 €
PHG2.0-30R	PHG2.0-30RH	30	62,12	66,12	14	45	0,177 - 0,072	35,50	130,15	0,672 79,26 € 130,84 €
PHG2.0-32R	PHG2.0-32RH	32	66,26	70,26	14	45	0,177 - 0,072	37,86	138,83	0,737 86,16 € 142,17 €
PHG2.0-35R	PHG2.0-35RH	35	72,47	76,47	14	45	0,177 - 0,072	41,41	151,84	0,843 95,20 € 157,08 €
PHG2.0-38R	PHG2.0-38RH	38	78,68	82,68	16	50	0,177 - 0,072	44,96	164,86	1,001 104,46 € 172,35 €
PHG2.0-40R	PHG2.0-40RH	40	82,82	86,82	16	50	0,179 - 0,070	60,57	194,48	1,083 108,80 € 179,53 €
PHG2.0-42R	PHG2.0-42RH	42	86,96	90,96	16	50	0,179 - 0,070	63,59	204,20	1,169 112,12 € 184,99 €
PHG2.0-45R	PHG2.0-45RH	45	93,17	97,17	16	50	0,179 - 0,070	68,14	218,79	1,307 117,05 € 193,14 €
PHG2.0-48R	PHG2.0-48RH	48	99,39	103,39	16	60	0,179 - 0,070	72,68	233,37	1,589 126,08 € 208,04 €
PHG2.0-50R	PHG2.0-50RH	50	103,53	107,53	16	60	0,179 - 0,070	94,75	263,79	1,692 134,94 € 222,68 €
PHG2.0-52R	PHG2.0-52RH	52	107,67	111,67	16	60	0,179 - 0,070	98,54	274,34	1,799 140,01 € 231,06 €
PHG2.0-55R	PHG2.0-55RH	55	113,88	117,88	16	60	0,179 - 0,070	104,22	290,17	1,968 158,08 € 260,81 €
PHG2.0-58R	PHG2.0-58RH	58	120,09	124,09	20	70	0,181 - 0,068	109,91	306,00	2,272 167,70 € 276,67 €
PHG2.0-60R	PHG2.0-60RH	60	124,23	128,23	20	70	0,181 - 0,068	129,47	329,60	2,396 171,94 € 283,70 €
PHG2.0-62R	PHG2.0-62RH	62	128,37	132,37	20	70	0,235 - 0,101	133,79	340,59	2,524 176,07 € 290,52 €

Dimensions in mm

MODULE 2.5 Parallel helical gear

Pre-treated or case hardened steel

2.5



- 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%



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 15° right angled helical gear must be used with a corresponding 15° left angled gear.

Incompatible with SH range.

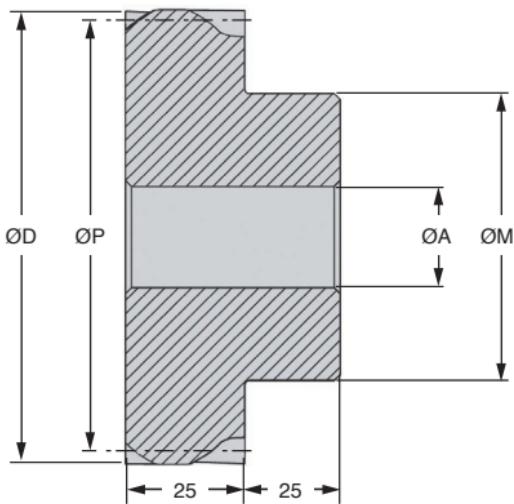
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	OP	OD	OA	OB	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each	1 to 5
Standard	Hardened	Teeth	Pitch	External	Bore	Standard	Standard	Standard	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
PHG2.5-16R	PHG2.5-16RH	16	41,41	46,41	12	30	0,134 - 0,053	19,37	71,04	0,356
PHG2.5-17R	PHG2.5-17RH	17	44,00	49,00	12	30	0,134 - 0,053	20,59	75,48	0,389
PHG2.5-18R	PHG2.5-18RH	18	46,59	51,59	12	30	0,134 - 0,053	21,80	79,92	0,425
PHG2.5-19R	PHG2.5-19RH	19	49,18	54,18	12	30	0,134 - 0,053	23,01	84,36	0,463
PHG2.5-20R	PHG2.5-20RH	20	51,76	56,76	12	30	0,177 - 0,072	30,82	113,02	0,502

Dimensions in mm

MODULE 2.5



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm)	Weight Standard Hardened	Price each 1 to 5 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 84,90 € 140,10 €
PHG2.5-22R	PHG2.5-22RH	22	56,94	61,94	14	45	0,177 - 0,072	33,90	124,32 0,745 87,94 € 145,14 €
PHG2.5-23R	PHG2.5-23RH	23	59,53	64,53	14	45	0,177 - 0,072	35,45	129,97 0,791 90,15 € 148,77 €
PHG2.5-24R	PHG2.5-24RH	24	62,12	67,12	14	45	0,177 - 0,072	36,99	135,62 0,839 92,78 € 153,09 €
PHG2.5-25R	PHG2.5-25RH	25	64,70	69,70	14	45	0,177 - 0,072	38,53	141,27 0,889 98,09 € 161,41 €
PHG2.5-26R	PHG2.5-26RH	26	67,29	72,29	14	45	0,177 - 0,072	50,42	184,86 0,942 102,74 € 169,53 €
PHG2.5-27R	PHG2.5-27RH	27	69,88	74,88	14	45	0,177 - 0,072	52,36	191,97 0,996 104,85 € 173,04 €
PHG2.5-28R	PHG2.5-28RH	28	72,47	77,47	16	55	0,177 - 0,072	54,30	199,08 1,188 107,76 € 177,81 €
PHG2.5-29R	PHG2.5-29RH	29	75,06	80,06	16	55	0,177 - 0,072	56,23	206,19 1,246 111,22 € 183,51 €
PHG2.5-30R	PHG2.5-30RH	30	77,65	82,65	16	55	0,177 - 0,072	66,30	243,11 1,307 115,01 € 189,79 €
PHG2.5-32R	PHG2.5-32RH	32	82,82	87,82	16	55	0,179 - 0,070	70,72	259,32 1,434 121,89 € 201,12 €
PHG2.5-35R	PHG2.5-35RH	35	90,59	95,59	16	55	0,179 - 0,070	77,35	283,63 1,640 127,03 € 209,62 €
PHG2.5-38R	PHG2.5-38RH	38	98,35	103,35	16	65	0,179 - 0,070	83,98	307,94 2,050 139,49 € 230,22 €
PHG2.5-40R	PHG2.5-40RH	40	103,53	108,53	16	65	0,179 - 0,070	113,13	379,84 2,210 145,00 € 239,31 €
PHG2.5-42R	PHG2.5-42RH	42	108,70	113,70	16	65	0,179 - 0,070	118,79	398,83 2,380 149,52 € 246,69 €
PHG2.5-45R	PHG2.5-45RH	45	116,47	121,47	20	75	0,179 - 0,070	127,27	427,31 2,817 154,76 € 255,38 €
PHG2.5-48R	PHG2.5-48RH	48	124,23	129,23	20	75	0,181 - 0,068	135,75	455,80 3,104 165,82 € 273,56 €
PHG2.5-50R	PHG2.5-50RH	50	129,41	134,41	20	75	0,235 - 0,101	176,98	515,22 3,305 173,37 € 286,08 €

Dimensions in mm

MODULE Parallel helical gear

Pre-treated or case hardened steel

3.0



- 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:
 - 35NC6 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

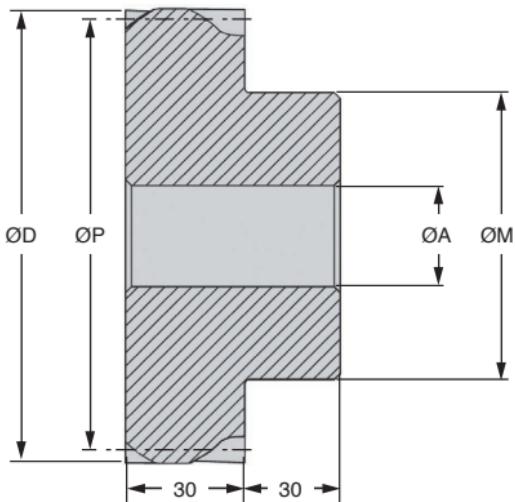
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	ØP Standard	ØP Hardened	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each Standard	Price each Hardened
PHG3.0-15R PHG3.0-15RH	15	46,59	52,59	14	38	0,134 - 0,053	30,26	110,96	0,592	96,83 €	159,79 €	
PHG3.0-16R PHG3.0-16RH	16	49,69	55,69	14	38	0,134 - 0,053	32,28	118,36	0,646	100,48 €	165,76 €	
PHG3.0-17R PHG3.0-17RH	17	52,80	58,80	14	38	0,177 - 0,072	34,30	125,76	0,704	103,63 €	170,99 €	
PHG3.0-18R PHG3.0-18RH	18	55,90	61,90	14	38	0,177 - 0,072	36,31	133,15	0,766	107,15 €	176,81 €	
PHG3.0-19R PHG3.0-19RH	19	59,01	65,01	14	38	0,177 - 0,072	38,33	140,55	0,831	110,89 €	182,96 €	
PHG3.0-20R PHG3.0-20RH	20	62,12	68,12	14	38	0,177 - 0,072	51,35	188,30	0,900	114,29 €	188,59 €	
PHG3.0-21R PHG3.0-21RH	21	65,22	71,22	14	38	0,177 - 0,072	53,92	197,71	0,972	117,61 €	194,10 €	

Dimensions in mm

MODULE

3.0



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard	Teeth Hardened	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight (kg)	Price each 1 to 5 Standard Hardened
PHG3.0-22R	PHG3.0-22RH	22	68,33	74,33	16	55	0,177 - 0,072	56,49	207,13	1,318 124,64 € 205,68 €
PHG3.0-23R	PHG3.0-23RH	23	71,43	77,43	16	55	0,177 - 0,072	59,06	216,54	1,397 131,51 € 217,05 €
PHG3.0-24R	PHG3.0-24RH	24	74,54	80,54	16	55	0,177 - 0,072	61,62	225,96	1,480 134,84 € 222,48 €
PHG3.0-25R	PHG3.0-25RH	25	77,65	83,65	16	55	0,177 - 0,072	64,19	235,37	1,567 138,83 € 229,06 €
PHG3.0-26R	PHG3.0-26RH	26	80,75	86,75	16	55	0,179 - 0,070	84,00	308,00	1,657 143,01 € 235,95 €
PHG3.0-27R	PHG3.0-27RH	27	83,86	89,86	16	55	0,179 - 0,070	87,23	319,85	1,751 148,14 € 244,48 €
PHG3.0-28R	PHG3.0-28RH	28	86,96	92,96	16	55	0,179 - 0,070	90,46	331,70	1,848 159,00 € 262,33 €
PHG3.0-29R	PHG3.0-29RH	29	90,07	96,07	20	70	0,179 - 0,070	93,69	343,54	2,240 184,16 € 303,87 €
PHG3.0-30R	PHG3.0-30RH	30	93,17	99,17	20	70	0,179 - 0,070	110,47	405,05	2,350 197,74 € 326,26 €
PHG3.0-32R	PHG3.0-32RH	32	99,39	105,39	20	70	0,179 - 0,070	117,83	432,05	2,570 203,17 € 335,25 €
PHG3.0-35R	PHG3.0-35RH	35	108,70	114,70	20	70	0,179 - 0,070	128,88	472,56	2,920 209,29 € 345,35 €
PHG3.0-38R	PHG3.0-38RH	38	118,02	124,02	20	70	0,179 - 0,070	139,93	513,06	3,310 297,61 € 491,07 €
PHG3.0-40R	PHG3.0-40RH	40	124,23	130,23	20	70	0,181 - 0,069	188,49	656,36	3,590 305,78 € 504,57 €

Dimensions in mm

MODULE Crossed helical gear

Pre-treated or case hardened steel

0.5



- 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:
 - 35NC6 Pre-treated steel 28HRC
 - 20NC2 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

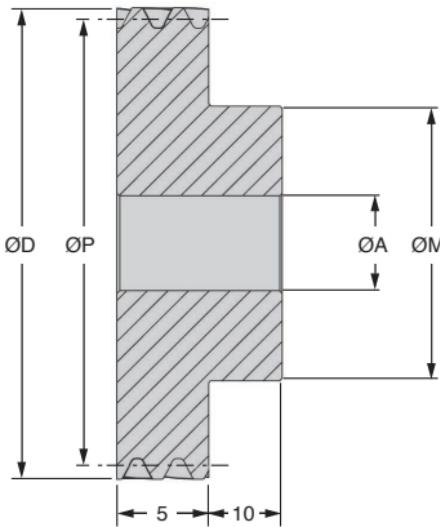
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Standard Hardened	Z Teeth	OP Pitch	OD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight (kg)	Price each Standard	1 to 5 Hardened
PXHG0.5-40R	PXHG0.5-40RH	40	28.28	29.28	8	22	0,143 - 0,058	0,19	0,68	0,048 39,45 € 65,12 €
PXHG0.5-42R	PXHG0.5-42RH	42	29.70	30,70	8	22	0,143 - 0,058	0,20	0,72	0,051 40,45 € 66,74 €
PXHG0.5-45R	PXHG0.5-45RH	45	31,82	32,82	8	22	0,146 - 0,055	0,21	0,77	0,055 41,36 € 68,23 €
PXHG0.5-48R	PXHG0.5-48RH	48	33,94	34,94	8	30	0,146 - 0,055	0,22	0,82	0,084 41,95 € 69,21 €
PXHG0.5-50R	PXHG0.5-50RH	50	35,36	36,36	8	30	0,146 - 0,055	0,23	0,85	0,087 42,79 € 70,62 €
PXHG0.5-52R	PXHG0.5-52RH	52	36,77	37,77	8	30	0,146 - 0,055	0,24	0,89	0,090 43,10 € 71,11 €
PXHG0.5-55R	PXHG0.5-55RH	55	38,89	39,89	8	30	0,146 - 0,055	0,26	0,94	0,095 43,96 € 72,56 €
PXHG0.5-58R	PXHG0.5-58RH	58	41,01	42,01	8	35	0,146 - 0,055	0,27	0,99	0,120 44,39 € 73,22 €
PXHG0.5-60R	PXHG0.5-60RH	60	42,43	43,43	8	35	0,146 - 0,055	0,28	1,02	0,124 44,96 € 74,14 €
PXHG0.5-62R	PXHG0.5-62RH	62	43,84	44,84	8	35	0,146 - 0,055	0,29	1,06	0,128 45,29 € 74,72 €
PXHG0.5-65R	PXHG0.5-65RH	65	45,96	46,96	8	35	0,146 - 0,055	0,30	1,11	0,134 46,26 € 76,33 €
PXHG0.5-68R	PXHG0.5-68RH	68	48,08	49,08	8	35	0,146 - 0,055	0,32	1,16	0,140 46,39 € 76,60 €
PXHG0.5-70R	PXHG0.5-70RH	70	49,50	50,50	8	35	0,146 - 0,055	0,33	1,19	0,144 46,43 € 76,64 €
PXHG0.5-72R	PXHG0.5-72RH	72	50,91	51,91	8	35	0,165 - 0,061	0,33	1,23	0,148 56,07 € 92,54 €
PXHG0.5-75R	PXHG0.5-75RH	75	53,03	54,03	8	35	0,165 - 0,061	0,35	1,28	0,155 56,14 € 92,60 €

Dimensions in mm

MODULE

0.5



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Standard	Hardened	Z	ØP	ØD	ØA	ØM	Backlash (mm)	Torque (Nm)	Weight	Price each	1 to 5
			Teeth	Pitch	External	Bore	Boss	Standard	Hardened	(kg)	Standard	Hardened
PXHG0.5-78R	PXHG0.5-78RH	78	55,15	56,15	10	45	0,165 - 0,061	0,36	1,33	0,208	56,48 €	93,21 €
PXHG0.5-80R	PXHG0.5-80RH	80	56,57	57,57	10	45	0,165 - 0,061	0,37	1,36	0,212	56,21 €	92,78 €
PXHG0.5-82R	PXHG0.5-82RH	82	57,98	58,98	10	45	0,165 - 0,061	0,38	1,40	0,217	57,87 €	95,50 €
PXHG0.5-85R	PXHG0.5-85RH	85	60,10	61,10	10	45	0,165 - 0,061	0,40	1,45	0,225	62,14 €	102,58 €
PXHG0.5-90R	PXHG0.5-90RH	90	63,64	64,64	10	45	0,165 - 0,061	0,42	1,53	0,238	67,16 €	110,80 €
PXHG0.5-95R	PXHG0.5-95RH	95	67,18	68,18	10	45	0,165 - 0,061	0,44	1,62	0,253	70,12 €	115,71 €
PXHG0.5-100R	PXHG0.5-100RH	100	70,71	71,71	12	50	0,165 - 0,061	0,40	1,47	0,293	74,28 €	122,55 €
PXHG0.5-105R	PXHG0.5-105RH	105	74,25	75,25	12	50	0,165 - 0,061	0,42	1,55	0,308	78,27 €	129,15 €
PXHG0.5-110R	PXHG0.5-110RH	110	77,78	78,78	12	50	0,165 - 0,061	0,44	1,62	0,325	79,98 €	131,97 €
PXHG0.5-115R	PXHG0.5-115RH	115	81,32	82,32	12	50	0,169 - 0,056	0,46	1,70	0,342	82,20 €	135,67 €
PXHG0.5-120R	PXHG0.5-120RH	120	84,85	85,85	12	50	0,169 - 0,056	0,48	1,77	0,360	82,69 €	136,44 €
PXHG0.5-130R	PXHG0.5-130RH	130	91,92	92,92	12	60	0,169 - 0,056	0,52	1,92	0,465	86,75 €	143,14 €
PXHG0.5-140R	PXHG0.5-140RH	140	98,99	99,99	12	60	0,169 - 0,056	0,56	2,06	0,507	90,24 €	148,90 €
PXHG0.5-150R	PXHG0.5-150RH	150	106,07	107,07	12	60	0,199 - 0,081	0,58	2,14	0,551	98,43 €	162,40 €
PXHG0.5-160R	PXHG0.5-160RH	160	113,14	114,14	14	65	0,199 - 0,081	0,62	2,29	0,632	103,53 €	170,80 €
PXHG0.5-170R	PXHG0.5-170RH	170	120,21	121,21	14	65	0,204 - 0,076	0,66	2,43	0,683	108,29 €	178,73 €
PXHG0.5-180R	PXHG0.5-180RH	180	127,28	128,28	14	65	0,204 - 0,076	0,70	2,57	0,736	110,40 €	182,16 €

Dimensions in mm

MODULE Crossed helical gear

Pre-treated or case hardened steel

1.0



- 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.

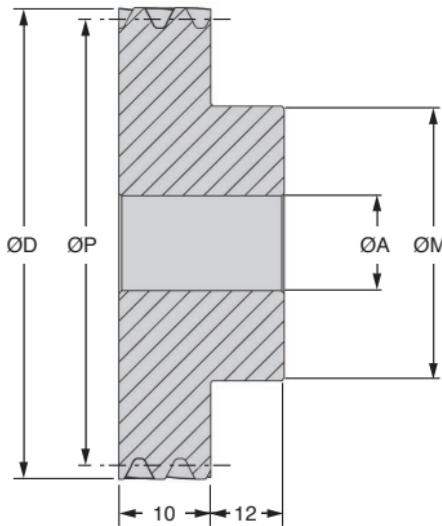
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard	OP Hardened	External Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard	Torque (Nm) Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PXHG1.0-20R	PXHG1.0-20RH	20	28.28	30.28	5	18	0,187 - 0,068	0,37	1,36	0,069	34,95 €	57,69 €
PXHG1.0-21R	PXHG1.0-21RH	21	29,70	31,70	5	18	0,187 - 0,068	0,39	1,43	0,074	35,53 €	58,68 €
PXHG1.0-22R	PXHG1.0-22RH	22	31,11	33,11	5	18	0,190 - 0,065	0,41	1,50	0,080	36,45 €	60,14 €
PXHG1.0-23R	PXHG1.0-23RH	23	32,53	34,53	5	18	0,190 - 0,065	0,43	1,57	0,085	36,87 €	60,81 €
PXHG1.0-24R	PXHG1.0-24RH	24	33,94	35,94	6	30	0,190 - 0,065	0,45	1,64	0,132	37,31 €	61,58 €
PXHG1.0-25R	PXHG1.0-25RH	25	35,36	37,36	6	30	0,190 - 0,065	0,47	1,71	0,138	38,12 €	62,89 €
PXHG1.0-26R	PXHG1.0-26RH	26	36,77	38,77	6	30	0,190 - 0,065	0,48	1,77	0,144	38,52 €	63,61 €
PXHG1.0-27R	PXHG1.0-27RH	27	38,18	40,18	6	30	0,190 - 0,065	0,50	1,84	0,151	39,97 €	65,99 €
PXHG1.0-28R	PXHG1.0-28RH	28	39,60	41,60	6	30	0,190 - 0,065	0,52	1,91	0,157	40,66 €	67,16 €
PXHG1.0-29R	PXHG1.0-29RH	29	41,01	43,01	6	30	0,190 - 0,065	0,54	1,98	0,164	40,96 €	67,66 €
PXHG1.0-30R	PXHG1.0-30RH	30	42,43	44,43	6	30	0,190 - 0,065	0,56	2,05	0,172	41,18 €	67,99 €
PXHG1.0-32R	PXHG1.0-32RH	32	45,25	47,25	6	30	0,190 - 0,065	0,60	2,18	0,187	41,69 €	68,77 €
PXHG1.0-35R	PXHG1.0-35RH	35	49,50	51,50	6	30	0,190 - 0,065	0,65	2,39	0,212	46,26 €	76,33 €

Dimensions in mm

MODULE 1.0



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List:	-5%	-10%	On request

Part number	Standard Hardened	Z	ØP Pitch	ØD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight Price each 1 to 5 (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 48,81 € 80,51 €
PXHG1.0-40R	PXHG1.0-40RH	40	56,57	58,57	10	45	0,250 - 0,089	0,74	2,73 0,332 50,50 € 83,37 €
PXHG1.0-42R	PXHG1.0-42RH	42	59,40	61,40	10	45	0,250 - 0,089	0,78	2,87 0,352 52,31 € 86,34 €
PXHG1.0-45R	PXHG1.0-45RH	45	63,64	65,64	10	45	0,250 - 0,089	0,84	3,07 0,384 56,57 € 93,33 €
PXHG1.0-48R	PXHG1.0-48RH	48	67,88	69,88	10	45	0,250 - 0,089	0,89	3,27 0,419 60,89 € 100,50 €
PXHG1.0-50R	PXHG1.0-50RH	50	70,71	72,71	10	45	0,250 - 0,089	0,80	2,95 0,443 63,47 € 104,79 €
PXHG1.0-52R	PXHG1.0-52RH	52	73,54	75,54	10	50	0,250 - 0,089	0,84	3,07 0,503 66,85 € 110,30 €
PXHG1.0-55R	PXHG1.0-55RH	55	77,78	79,78	10	50	0,250 - 0,089	0,88	3,24 0,542 68,77 € 113,50 €
PXHG1.0-58R	PXHG1.0-58RH	58	82,02	84,02	10	50	0,254 - 0,085	0,93	3,42 0,584 71,11 € 117,40 €
PXHG1.0-60R	PXHG1.0-60RH	60	84,85	86,85	10	50	0,254 - 0,085	0,97	3,54 0,613 72,64 € 119,87 €
PXHG1.0-62R	PXHG1.0-62RH	62	87,68	89,68	10	50	0,254 - 0,085	1,00	3,66 0,643 72,66 € 119,93 €
PXHG1.0-65R	PXHG1.0-65RH	65	91,92	93,92	10	55	0,254 - 0,085	1,05	3,83 0,729 82,98 € 136,94 €
PXHG1.0-68R	PXHG1.0-68RH	68	96,17	98,17	10	55	0,254 - 0,085	1,09	4,01 0,778 84,11 € 138,83 €
PXHG1.0-70R	PXHG1.0-70RH	70	98,99	100,99	10	55	0,254 - 0,085	1,13	4,13 0,812 84,13 € 138,88 €
PXHG1.0-72R	PXHG1.0-72RH	72	101,82	103,82	10	55	0,254 - 0,085	1,16	4,25 0,847 105,18 € 173,58 €
PXHG1.0-75R	PXHG1.0-75RH	75	106,07	108,07	10	55	0,254 - 0,085	1,17	4,29 0,901 108,45 € 178,95 €
PXHG1.0-78R	PXHG1.0-78RH	78	110,31	112,31	12	65	0,254 - 0,085	1,22	4,46 1,040 112,33 € 185,38 €
PXHG1.0-80R	PXHG1.0-80RH	80	113,14	115,14	12	65	0,254 - 0,085	1,25	4,57 1,079 119,09 € 196,52 €
PXHG1.0-82R	PXHG1.0-82RH	82	115,97	117,97	12	65	0,254 - 0,085	1,28	4,69 1,119 124,32 € 205,17 €
PXHG1.0-85R	PXHG1.0-85RH	85	120,21	122,21	12	65	0,259 - 0,081	1,32	4,86 1,181 131,34 € 216,69 €

Dimensions in mm

MODULE Crossed helical gear

Pre-treated or case hardened steel

1.5**- 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

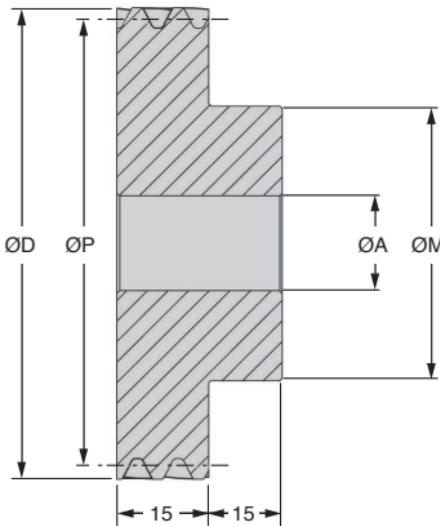
Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number Standard Hardened	Z Teeth	OP Pitch	OD External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight Price each 1 to 5 (kg) 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 40,78 € 67,29 €
PXHG1.5-16R	PXHG1.5-16RH	16	33,94	36,94	6	25	0,190 - 0,065	0,67 2,46 0,156 41,50 € 68,52 €
PXHG1.5-17R	PXHG1.5-17RH	17	36,06	39,06	6	25	0,190 - 0,065	0,71 2,61 0,170 44,11 € 72,76 €
PXHG1.5-18R	PXHG1.5-18RH	18	38,18	41,18	6	25	0,190 - 0,065	0,75 2,76 0,184 46,18 € 76,21 €
PXHG1.5-19R	PXHG1.5-19RH	19	40,31	43,31	6	25	0,190 - 0,065	0,80 2,92 0,200 47,66 € 78,60 €
PXHG1.5-20R	PXHG1.5-20RH	20	42,43	45,43	6	25	0,190 - 0,065	0,84 3,07 0,216 49,75 € 82,13 €
PXHG1.5-21R	PXHG1.5-21RH	21	44,55	47,55	8	40	0,190 - 0,065	0,88 3,22 0,318 51,25 € 84,56 €
PXHG1.5-22R	PXHG1.5-22RH	22	46,67	49,67	8	40	0,190 - 0,065	0,92 3,38 0,335 52,99 € 87,47 €
PXHG1.5-23R	PXHG1.5-23RH	23	48,79	51,79	8	40	0,190 - 0,065	0,88 3,24 0,354 53,55 € 88,39 €
PXHG1.5-24R	PXHG1.5-24RH	24	50,91	53,91	8	40	0,250 - 0,089	0,92 3,39 0,373 54,02 € 89,18 €
PXHG1.5-25R	PXHG1.5-25RH	25	53,03	56,03	8	40	0,250 - 0,089	0,96 3,53 0,394 57,46 € 94,78 €
PXHG1.5-26R	PXHG1.5-26RH	26	55,15	58,15	8	40	0,250 - 0,089	1,00 3,67 0,415 58,76 € 96,98 €
PXHG1.5-27R	PXHG1.5-27RH	27	57,28	60,28	8	40	0,250 - 0,089	1,04 3,81 0,437 61,24 € 101,05 €
PXHG1.5-28R	PXHG1.5-28RH	28	59,40	62,40	8	40	0,250 - 0,089	1,08 3,95 0,459 62,56 € 103,26 €

Dimensions in mm

MODULE

1.5



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List	-5%	-10%	On request

Part number	Z	OP	OD	ØA	ØM	Backlash (mm)	Torque (Nm)	Weight (kg)	Price each 1 to 5			
Standard	Hardened	Teeth	Pitch	External	Bore		Standard Hardened	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	62,58 €	103,32 €
PXHG1.5-30R	PXHG1.5-30RH	30	63,64	66,64	10	50	0,250 - 0,089	1,15	4,23	0,584	62,61 €	103,37 €
PXHG1.5-32R	PXHG1.5-32RH	32	67,88	70,88	10	50	0,250 - 0,089	1,23	4,51	0,635	66,50 €	109,79 €
PXHG1.5-35R	PXHG1.5-35RH	35	74,25	77,25	10	50	0,250 - 0,089	1,27	4,65	0,718	76,36 €	126,02 €
PXHG1.5-38R	PXHG1.5-38RH	38	80,61	83,61	12	55	0,254 - 0,085	1,38	5,04	0,850	81,85 €	135,10 €
PXHG1.5-40R	PXHG1.5-40RH	40	84,85	87,85	12	55	0,254 - 0,085	1,45	5,31	0,914	83,75 €	138,22 €
PXHG1.5-42R	PXHG1.5-42RH	42	89,10	92,10	12	55	0,254 - 0,085	1,52	5,58	0,982	84,92 €	140,17 €
PXHG1.5-45R	PXHG1.5-45RH	45	95,46	98,46	12	55	0,254 - 0,085	1,63	5,97	1,090	87,68 €	144,71 €
PXHG1.5-48R	PXHG1.5-48RH	48	101,82	104,82	12	55	0,254 - 0,085	1,74	6,37	1,206	95,32 €	157,33 €
PXHG1.5-50R	PXHG1.5-50RH	50	106,07	109,07	14	65	0,254 - 0,085	1,75	6,43	1,389	101,43 €	167,37 €
PXHG1.5-52R	PXHG1.5-52RH	52	110,31	113,31	14	65	0,254 - 0,085	1,82	6,69	1,473	110,61 €	182,46 €
PXHG1.5-55R	PXHG1.5-55RH	55	116,67	119,67	14	65	0,254 - 0,085	1,93	7,07	1,606	117,28 €	193,55 €
PXHG1.5-58R	PXHG1.5-58RH	58	123,04	126,04	14	65	0,259 - 0,081	2,03	7,46	1,747	130,65 €	215,55 €
PXHG1.5-60R	PXHG1.5-60RH	60	127,28	130,28	14	65	0,332 - 0,126	2,10	7,72	1,845	130,73 €	215,66 €

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.

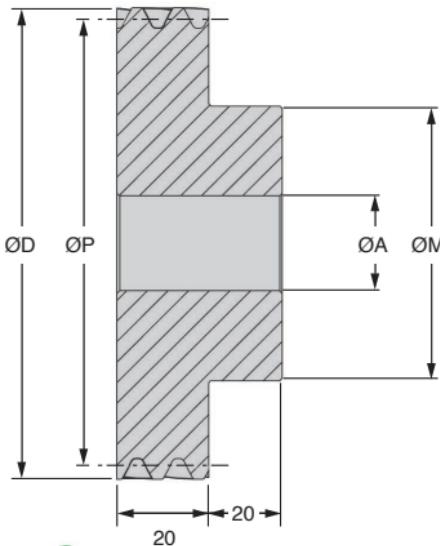
DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z Standard Hardened	ØP Teeth	ØD Pitch	ØA External	ØA Bore	ØM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight Standard	Price each 1 to 5 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 58,92 € 97,25 €
PXHG2.0-16R	PXHG2.0-16RH	16	45,25	49,25	10	35	0,190 - 0,065	1,19	4,37	0,376 60,14 € 99,27 €
PXHG2.0-17R	PXHG2.0-17RH	17	48,08	52,08	10	35	0,190 - 0,065	1,16	4,26	0,408 64,91 € 107,13 €
PXHG2.0-18R	PXHG2.0-18RH	18	50,91	54,91	10	35	0,250 - 0,089	1,23	4,51	0,442 67,00 € 110,52 €
PXHG2.0-19R	PXHG2.0-19RH	19	53,74	57,74	10	35	0,250 - 0,089	1,30	4,76	0,478 69,39 € 114,46 €
PXHG2.0-20R	PXHG2.0-20RH	20	56,57	60,57	10	35	0,250 - 0,089	1,37	5,01	0,517 70,86 € 116,95 €
PXHG2.0-21R	PXHG2.0-21RH	21	59,40	63,40	12	45	0,250 - 0,089	1,44	5,27	0,703 74,22 € 122,53 €
PXHG2.0-22R	PXHG2.0-22RH	22	62,23	66,23	12	45	0,250 - 0,089	1,50	5,52	0,745 80,65 € 133,08 €
PXHG2.0-23R	PXHG2.0-23RH	23	65,05	69,05	12	45	0,250 - 0,089	1,57	5,77	0,789 82,24 € 135,72 €
PXHG2.0-24R	PXHG2.0-24RH	24	67,88	71,88	12	45	0,250 - 0,089	1,64	6,02	0,835 86,16 € 142,17 €
PXHG2.0-25R	PXHG2.0-25RH	25	70,71	74,71	12	45	0,250 - 0,089	1,61	5,90	0,883 94,04 € 155,14 €
PXHG2.0-26R	PXHG2.0-26RH	26	73,54	77,54	12	45	0,250 - 0,089	1,67	6,14	0,933 95,22 € 157,20 €
PXHG2.0-27R	PXHG2.0-27RH	27	76,37	80,37	12	45	0,250 - 0,089	1,74	6,37	0,985 100,00 € 165,04 €

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	Price each 1 to 5
Standard Hardened	Teeth	Pitch	External	Bore	Boss	Standard	Standard Hardened	(kg)	Standard Hardened
PXHG2.0-28R	28	79,20	83,20	14	55	0,250 - 0,089	1,80	6,61	1,322 101,82 € 168,04 €
PXHG2.0-29R	29	82,02	86,02	14	55	0,250 - 0,085	1,87	6,84	1,378 104,98 € 173,21 €
PXHG2.0-30R	30	84,85	88,85	14	55	0,250 - 0,085	1,93	7,08	1,436 106,24 € 175,29 €
PXHG2.0-32R	32	90,51	94,51	14	55	0,250 - 0,085	2,06	7,55	1,557 112,12 € 185,01 €
PXHG2.0-35R	35	98,99	102,99	14	55	0,254 - 0,085	2,25	8,26	1,755 126,31 € 208,38 €
PXHG2.0-38R	38	107,48	111,48	20	65	0,254 - 0,085	2,37	8,69	1,836 134,74 € 222,31 €
PXHG2.0-40R	40	113,14	117,14	20	65	0,254 - 0,085	2,49	9,14	1,989 154,13 € 254,23 €
PXHG2.0-42R	42	118,79	122,79	20	65	0,254 - 0,085	2,62	9,60	2,150 160,85 € 265,38 €
PXHG2.0-45R	45	127,28	131,28	20	65	0,332 - 0,126	2,81	10,29	2,407 176,81 € 291,75 €

Dimensions in mm

MODULE

2.5

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%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

- Hole for dowel pin

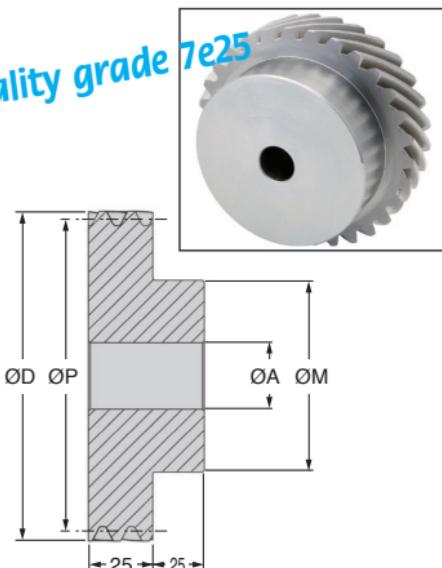
Info.

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.

Quality grade 7e25



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

Part number	Z	OP Pitch	OD External	OA Bore	OM Boss	Backlash (mm)	Torque (Nm) Standard Hardened	Weight (kg)	Price each 1 to 5 Standard	Price each 1 to 5 Hardened
PXHG2.5-15R	15	53,03	58,03	14	45	0,250 - 0,089	1,60	5,88	81,53 €	134,56 €
PXHG2.5-16R	16	56,57	61,57	14	45	0,250 - 0,089	1,71	6,27	70,79 €	83,59 €
PXHG2.5-17R	17	60,10	65,10	14	45	0,250 - 0,089	1,82	6,66	80,73 €	149,71 €
PXHG2.5-18R	18	63,64	68,64	14	45	0,250 - 0,089	1,92	7,05	86,99 €	157,30 €
PXHG2.5-19R	19	67,18	72,18	14	45	0,250 - 0,089	2,03	7,44	97,31 €	160,60 €
PXHG2.5-20R	20	70,71	75,71	20	55	0,250 - 0,089	2,01	7,37	103,13 €	170,19 €
PXHG2.5-21R	21	74,25	79,25	20	55	0,250 - 0,089	2,11	7,74	11,83 €	176,02 €
PXHG2.5-22R	22	77,78	82,78	20	55	0,250 - 0,089	2,21	8,11	12,65 €	195,49 €
PXHG2.5-23R	23	81,32	86,32	20	55	0,254 - 0,085	2,31	8,48	13,51 €	114,46 €
PXHG2.5-24R	24	84,85	89,85	20	55	0,254 - 0,085	2,41	8,85	14,44 €	177,17 €
PXHG2.5-25R	25	88,39	93,39	20	55	0,254 - 0,085	2,51	9,22	1,535 €	208,51 €
PXHG2.5-26R	26	91,92	96,92	20	55	0,254 - 0,085	2,61	9,59	1,633 €	221,32 €
PXHG2.5-27R	27	95,46	100,46	20	55	0,254 - 0,085	2,72	9,96	1,734 €	230,43 €
PXHG2.5-28R	28	98,99	103,99	20	55	0,254 - 0,085	2,82	10,32	1,839 €	225,89 €
PXHG2.5-29R	29	102,53	107,53	25	65	0,254 - 0,085	2,92	10,69	2,064 €	145,53 €
PXHG2.5-30R	30	106,07	111,07	25	65	0,254 - 0,085	2,92	10,72	2,177 €	147,42 €
PXHG2.5-32R	32	113,14	118,14	25	65	0,254 - 0,085	3,12	11,43	2,415 €	157,91 €
PXHG2.5-35R	35	123,74	128,74	25	65	0,259 - 0,081	3,41	12,50	2,800 €	281,06 €

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%

Options

- Alternative bores (H7)

- Keyway conforming to DIN 6885 (JS9)

- Tapped hole

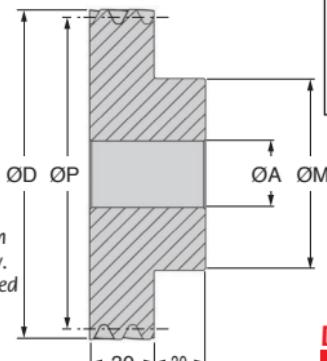
- Hole for dowel pin

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.



quality grade 7e25



DISCOUNTS

Qty.	1+	6+	19+	50+
Disc.	List.	-5%	-10%	On request

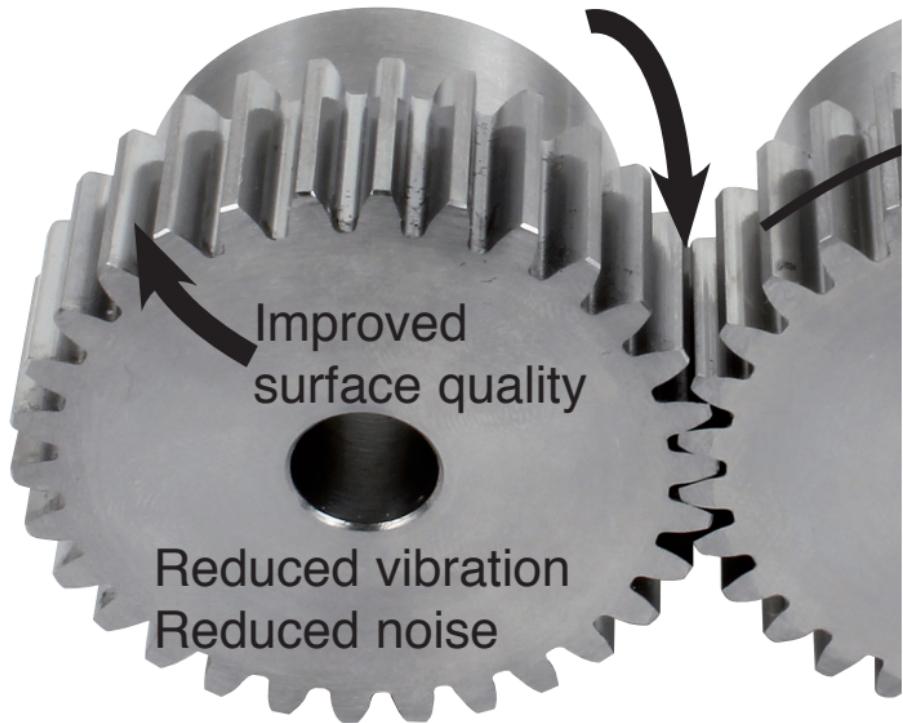
Part number	Z	ØP	ØD	ØA	ØM	Backlash	Torque (Nm)	Weight	Price each 1 to 5	
Standard	Hardened	Teeth	Pitch	External	Bore	(mm)	Standard	Hardened	Standard	Hardened
PXHG3.0-15R	PXHG3.0-15RH	15	63.64	69.64	16	45	0.250 - 0.089	2.31	8.46	1.020 103.55 € 170.88 €
PXHG3.0-16R	PXHG3.0-16RH	16	67.88	73.88	16	45	0.250 - 0.089	2.46	9.03	1.122 106.81 € 176.31 €
PXHG3.0-17R	PXHG3.0-17RH	17	72.12	78.12	16	45	0.250 - 0.089	2.46	9.03	1.231 116.54 € 192.31 €
PXHG3.0-18R	PXHG3.0-18RH	18	76.37	82.37	16	45	0.250 - 0.089	2.61	9.56	1.346 123.14 € 203.17 €
PXHG3.0-19R	PXHG3.0-19RH	19	80.61	86.61	16	45	0.254 - 0.085	2.75	10.09	1.468 126.21 € 208.27 €
PXHG3.0-20R	PXHG3.0-20RH	20	84.85	90.85	16	45	0.254 - 0.085	2.90	10.62	1.597 135.00 € 222.70 €
PXHG3.0-21R	PXHG3.0-21RH	21	89.10	95.10	20	55	0.254 - 0.085	3.04	11.15	1.864 139.84 € 230.71 €
PXHG3.0-22R	PXHG3.0-22RH	22	93.34	99.34	20	55	0.254 - 0.085	3.19	11.68	2.006 150.02 € 247.53 €
PXHG3.0-23R	PXHG3.0-23RH	23	97.58	103.58	20	55	0.254 - 0.085	3.33	12.21	2.154 158.08 € 260.81 €
PXHG3.0-24R	PXHG3.0-24RH	24	101.82	107.82	20	55	0.254 - 0.085	3.48	12.74	2.309 161.24 € 266.08 €
PXHG3.0-25R	PXHG3.0-25RH	25	106.07	112.07	20	55	0.254 - 0.085	3.51	12.86	2.471 180.50 € 297.86 €
PXHG3.0-26R	PXHG3.0-26RH	26	110.31	116.31	20	55	0.254 - 0.085	3.65	13.37	2.640 183.90 € 303.50 €
PXHG3.0-27R	PXHG3.0-27RH	27	114.55	120.55	20	55	0.254 - 0.085	3.79	13.89	2.815 188.98 € 311.82 €
PXHG3.0-28R	PXHG3.0-28RH	28	118.79	124.79	20	55	0.254 - 0.085	3.93	14.40	2.997 191.78 € 316.43 €
PXHG3.0-29R	PXHG3.0-29RH	29	123.04	129.04	25	65	0.259 - 0.081	4.07	14.92	3.325 197.46 € 325.79 €
PXHG3.0-30R	PXHG3.0-30RH	30	127.28	133.28	25	65	0.332 - 0.126	4.21	15.43	3.520 213.29 € 351.93 €

Dimensions in mm



Precision gears

Controlled backlash



Smoother
operation

Advantages

Contact our
TECHNICAL DEPARTMENT
on +33 437 496 496
or cial2@hpceurope.com

Limited runout



Teeth conform to DIN 3961
Quality grades 6 to 8
Longer life expectancy



Spur and helical gears

Description	Symbol	Unit	Equation for spur gears	Equation for helical gears
Normal module	m_n			
Transverse module	m_t		$= m_n / \cos \beta$	
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 as standard	0 as standard
Addendum	h_a	mm	$1.m_n$	$1.m_n$
Dedendum	h_f	mm	$1.25m_n$	$1.25m_n$
Tooth depth	h	mm	$2.25m_n$	$2.25m_n$
Gear ratio	R		$= Z_2 / Z_1$	$= Z_2 / Z_1$
Centre distance	a	mm	$= (d_1 + d_2) / 2$	$= (d_1 + d_2) / 2$
Pitch circle diameter	d	mm	$= Z.m_n$	$= Z.m_n = (Z.m_n) / \cos \beta$
Tip diameter	d_a	mm	$= d + (2m_n \cdot x) + (2m_n)$	$= d + (2m_n \cdot x) + (2m_n)$
Root diameter	d_r	mm	$= d_a - (2.h)$	$= d_a - (2.h)$
Normal pitch	p_n	mm	$= \pi.m_n$	$= \pi.m_n$
Transverse pitch	p_t		-	$= \pi.m_t = (\pi.m_n) / \cos \beta$
Axial pitch	p_x		-	$= \pi.m_x = (\pi.m_n) / \sin \beta$
Normal tooth thickness in pitch circle	s_n	mm	$= (p_n/2) + 2m_n \cdot x \cdot \tan \alpha_t$	$= (p_n/2) + 2m_n \cdot x \cdot \tan \alpha_t$
Transversal tooth thickness in pitch circle	s_t	mm	-	$= (p_t/2) + 2m_n \cdot x \cdot \tan \alpha_t$

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.

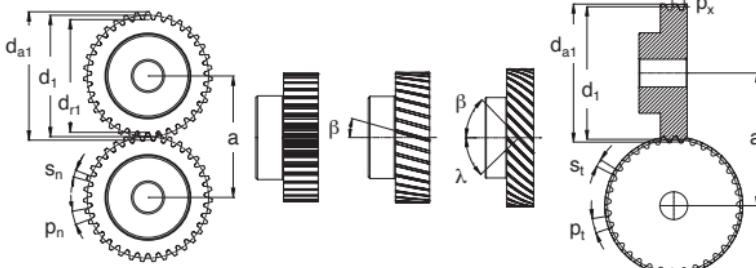
For s_n & s_t , when $x=0$, this is the theoretical tooth thickness. Actual tooth thickness will be less.

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 $17^\circ 45'$.



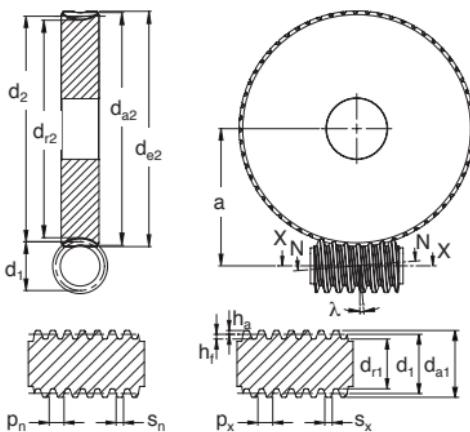


Worms and wheels

Description	Symbol	Unit	Formula
Axial module	m_x		
Normal module	m_n		$= m_x \cdot \sin \lambda$
Normal Pressure Angle	α_n	degrees	$= \tan^{-1} (\tan \alpha_t / \cos \lambda)$
Transverse Pressure Angle	α_t	degrees	20°
Lead angle	λ	degrees	$= \tan^{-1} ((m_x \cdot Z_1) / d_2)$
Helix angle	β	degrees	$90^\circ - \lambda$
Number of starts on worm	Z_1		
Number of starts on wheel	Z_2		
Profile shift coefficient	x		0 as standard
Addendum	h_a	mm	$1.m_x$
Dedendum	h_f	mm	$1.25m_x$
Tooth depth	h	mm	$2.25m_x$
Gear ratio	R		$= Z_2 / Z_1$
Centre distance	a	mm	$= (d_1 + d_2) / 2$
Reference diameter of worm	d_1	mm	$(m_x \cdot Z_1) / \tan \lambda$
Reference diameter of wheel	d_2	mm	$= Z_2 \cdot m_x$
Tip diameter of worm	d_{a1}	mm	$= d_1 + (2m_x)$
Root diameter of worm	d_{r1}	mm	$= d_{a1} - (2h)$
Tip diameter of worm	d_{a2}	mm	$= d_2 + (2m_x)$
Root diameter of wheel	d_{r2}	mm	$= d_{a2} - (2h)$
Outside diameter of wheel	d_{e2}	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	$= (p_x/2) + 2m_x \cdot x \cdot \tan \alpha_t$

Tip diameter is the theoretical diameter of the gear without tooth thickness tolerance applied.

For s_n & s_t , when $x = 0$, this is the theoretical tooth thickness. Actual tooth thickness will be less.



Worms and wheels -Technical information

Efficiency



Efficiency

The following formulae allows an approximate value for the efficiency of a worm/wheel pair to calculated. The efficiency is dependent on the type of lubrication used (these figures are based on use of mineral oil) and do not take into account bearing, seal and other losses.

$$\eta = \tan \lambda / \tan (\lambda + p_z)$$

$$p_z = \arctan (\mu)$$

$$v_g = (d_1 \cdot n_1) / (19098 \cdot \tan \lambda)$$

$$T_1 = (T_2 / u)^* \eta$$

T_1 = Input torque (Nm)

T_2 = Output torque (Nm)

R = Ratio

η = Efficiency

λ = Lead angle (degrees)

μ = Coefficient of friction

p_z = Angle of friction

v_g = Sliding speed (m/s)

n_1 = Rotational speed of worm (rpm)

d_1 = Pitch diameter of worm (mm)

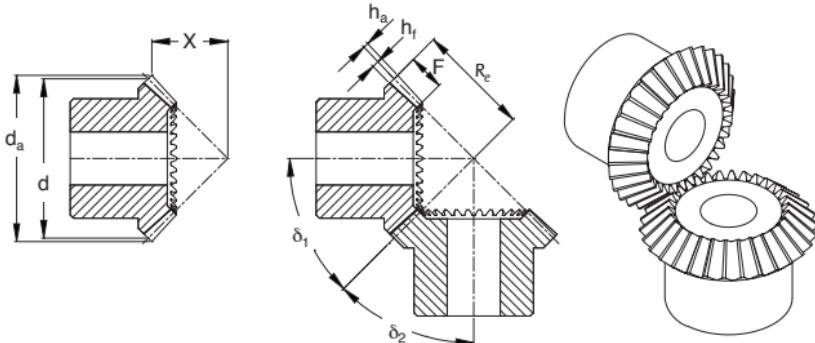
Coefficient of friction (Mineral oil)

Speed (m/s)	μ for speeds 0-30m/s									
	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.0-0.9	0.1500	0.0803	0.0694	0.0623	0.0583	0.0543	0.0521	0.0500	0.0480	0.0459
1.0-1.9	0.0438	0.0423	0.0410	0.0396	0.0382	0.0369	0.0359	0.0352	0.0344	0.0336
2.0-2.9	0.0329	0.0322	0.0316	0.0309	0.0304	0.0297	0.0293	0.0289	0.0286	0.0280
3.0-3.9	0.0276	0.0272	0.0268	0.0265	0.0261	0.0257	0.0254	0.0251	0.0248	0.0245
4.0-4.9	0.0242	0.0239	0.0236	0.0234	0.0232	0.0229	0.0226	0.0224	0.0223	0.0221
5.0-5.9	0.0219	0.0217	0.0215	0.0214	0.0212	0.0210	0.0209	0.0207	0.0205	0.0203
6.0-6.9	0.0202	0.0200	0.0199	0.0197	0.0196	0.0194	0.0193	0.0192	0.0190	0.0189
7.0-7.9	0.0187	0.0186	0.0185	0.0184	0.0183	0.0182	0.0181	0.0179	0.0178	0.0177
8.0-8.9	0.0176	0.0175	0.0174	0.0173	0.0173	0.0172	0.0172	0.0170	0.0169	0.0169
9.0-9.9	0.0169	0.0168	0.0166	0.0166	0.0164	0.0164	0.0164	0.0163	0.0162	0.0162
10.0-10.9	0.0161	0.0160	0.0159	0.0159	0.0159	0.0158	0.0157	0.0156	0.0156	0.0156
11.0-11.9	0.0155	0.0154	0.0154	0.0153	0.0153	0.0152	0.0151	0.0151	0.0150	0.0150
12.0-12.9	0.0149	0.0149	0.0149	0.0148	0.0148	0.0147	0.0147	0.0147	0.0146	0.0146
13.0-13.9	0.0146	0.0146	0.0146	0.0145	0.0145	0.0144	0.0144	0.0144	0.0144	0.0144
14.0-14.9	0.0143	0.0143	0.0143	0.0142	0.0142	0.0142	0.0142	0.0142	0.0141	0.0141
15.0-15.9	0.0141	0.0141	0.0141	0.0140	0.0140	0.0139	0.0139	0.0139	0.0139	0.0139
16.0-16.9	0.0139	0.0138	0.0138	0.0138	0.0138	0.0138	0.0137	0.0137	0.0137	0.0137
17.0-17.9	0.0137	0.0136	0.0136	0.0136	0.0136	0.0136	0.0135	0.0135	0.0135	0.0135
18.0-18.9	0.0135	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134
19.0-19.9	0.0134	0.0133	0.0133	0.0133	0.0133	0.0133	0.0132	0.0132	0.0132	0.0132
20.0-20.9	0.0132	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131
21.0-21.9	0.0131	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130	0.0130
22.0-22.9	0.0130	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129	0.0129
23.0-23.9	0.0129	0.0129	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
24.0-24.9	0.0128	0.0128	0.0127	0.0127	0.0127	0.0127	0.0127	0.0127	0.0127	0.0127
25.0-25.9	0.0127	0.0127	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126
26.0-26.9	0.0126	0.0126	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
27.0-27.9	0.0125	0.0125	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124
28.0-28.9	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0124	0.0123	0.0123
29.0-29.9	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123	0.0123
30.0	0.0123	-	-	-	-	-	-	-	-	-



Bevel gears

Description	Symbol	Unit	Formula
Normal module	m_n		
Pressure angle	α	degrees	20°
Shaft angle	\square	degrees	$= \tan^{-1} ((m_n \cdot Z_1) / d_1)$
Gear ratio	R		$= Z_2 / Z_1$
Pitch diameter	d	mm	$= Z \cdot m_n$
Pitch cone angle	δ_1	degrees	$= \tan^{-1} (\sin \square / (R + \cos \square))$
Pitch cone angle	δ_2	degrees	$= \square - \delta_1$
Cone Distance	R_c	mm	$= d_2 / 2 \sin \delta_2$
Addendum	h_a	mm	$1 \cdot m_n$
Dedendum	h_f	mm	$1.25 \cdot m_n$ (mod 0.6 to 1) $1.22 \cdot m_n$ (mod 1.5 to 2) $1.20 \cdot m_n$ (mod 4)
Outside diameter	d_a	mm	$= d + 2h_a \cos \delta$
Pitch apex to crown	X	mm	$= R_c \cos \delta - h_a \sin \delta$





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 jt

This is the length of arc on the pitch circle diameter through which each can be rotated whilst the other is held stationary. It is measured in the transverse section. Units are mm and degrees

$$j_t = \frac{A_{sn1} + A_{sn2}}{\cos \beta} + \Delta j_a$$

Normal Backlash Jn

This is the shortest distance between the flanks of the gears when the opposite flanks are in contact. It is measured in the transverse section. Units are mm and degrees

For spur, helical, crossed axis helical gears:

$$j_n = j_t \cdot \cos \alpha_n \cdot \cos \beta$$



Backlash

Change in circumferential backlash due to Centre Distance Tolerance ΔJ_a

Units =mm and degrees

$$\Delta J_a = 2 \cdot A_s \cdot \frac{\tan \alpha_n}{\cos \beta}$$

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 ($\beta = 0$ for spur gears)

Replace helix angle β with lead angle λ for worm and wheel.

$1^\circ = 60$ arc minutes



e25 DIN 3967

From	To	Upper tooth thickness allowance A_{sne}	Tooth thickness allowance 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

e25 DIN 58405

Reference diameter d (mm)	Normal module m_n	Upper tooth thickness allowance A_{sne}	Tooth thickness allowance T_{sn}
From 3 to 6	Since 0.16 to 0.25	0.028	0.011
	Since 0.25 to 0.6	0.030	0.012
	Since 0.6 to 1.6	0.035	0.014
> 6 to 12	Since 0.16 to 0.25	0.030	0.012
	Since 0.25 to 0.6	0.035	0.014
	Since 0.6 to 1.6	0.040	0.016
> 12 to 25	Since 0.16 to 0.25	0.035	0.014
	Since 0.25 to 0.6	0.040	0.016
	Since 0.6 to 1.6	0.045	0.018
	Since 1.6 to 3	0.050	0.020
> 25 to 50	Since 0.16 to 0.25	0.040	0.016
	Since 0.25 to 0.6	0.045	0.018
	Since 0.6 to 1.6	0.050	0.020
	Since 1.6 to 3	0.055	0.022
> 50 to 100	Since 0.16 to 0.25	0.045	0.012
	Since 0.25 to 0.6	0.050	0.018
	Since 0.6 to 1.6	0.055	0.020
	Since 1.6 to 3	0.063	0.022
> 100 to 200	Since 0.6 to 1.6	0.063	0.024
	Since 1.6 to 3	0.070	0.029
	Since 0.6 to 1.6	0.070	0.029
> 200 to 400	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

$$\text{PSG0.5-20 } d_1 = z * m_n = 10.00\text{mm}$$

$$\text{PSG0.5-40 } d_2 = 20.00\text{mm}$$

- 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

$$\text{centre distance} = (10 + 20) / 2 = 15\text{mm}$$

$$J57 = 0.009\text{mm}$$

- 5• Calculate the change in backlash due to centre distance

$$j_a = 2 \cdot A_s \cdot \frac{\tan \alpha_n}{\cos \beta} + 2 \cdot 0.009 \cdot \frac{\tan 20}{\cos 0} = 0.007\text{mm}$$

backlash (Remove the minus sign on A_{sn})

$$j_t = \frac{A_{sni1} + A_{sni2}}{\cos \beta} + \Delta j_a = \frac{0.035 + 0.040}{\cos 0} + 0.007 = 0.082\text{mm}$$

- 6• Calculate the maximum

minimum backlash (Remove the minus sign on A_{sn})

$$j_t = \frac{A_{sne1} + A_{sne2}}{\cos \beta} + \Delta j_d = \frac{0.021 + 0.024}{\cos 0} - 0.007 = 0.038\text{mm}$$

- 7• Calculate the

backlash

$$j_\theta = \frac{360 \times j_t}{\pi \times d_2} \quad 1^\circ = 60 \text{ arc minutes}$$

- 8• Convert to angular

$$j_\theta = 28.208 \text{ to } 13,072 \text{ arc minutes}$$

General terms and conditions of sale

Note. This translation of the original Engrenages HPC (Henceforth shortened to HPC) French terms and conditions is offered as a guide only. In the case of any dispute, the French document will apply.

1- APPLICATION AND ACCEPTANCE OF THESE GENERAL TERMS AND CONDITIONS OF SALE

These terms and conditions of sale are made available to all HPC customers and are sent to every customer placing an order. Consequently the act of placing an order with HPC implies complete and unreserved agreement by the buyer to these general terms and conditions of sale, to the exclusion of any other documents such as catalogues produced by the seller, which are provided for information only and are merely intended as an indication, and despite any other information marked on the customer's order documents, the customer's terms and conditions of purchase or in any other document transmitted by the customer to HPC. Any conditions other than those relating to products being manufactured to a customer's specifications, applied by the buyer will therefore by default be not accepted by the seller, regardless of when they may be brought to their attention unless they have been confirmed in writing by the seller.

Only specifications relating to custom-made parts can modify these general terms and conditions.

The fact that the seller 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 customer. Any order by telephone must be confirmed in writing by the customer within 24 hours or 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 customer or the delivery of the products ordered.

In case of any modification HPC may deem necessary to apply to the customer's order and confirmed in the order acknowledgment sent to the customer, 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- MODIFICATIONS TO ORDERS

Any modification to, or cancellation of an order requested by the buyer cannot be taken into consideration unless it is received in writing before the goods (for standard products) are despatched or manufacture is started (for custom-made products) and acceptance of the modification has been expressly confirmed by HPC in a fax addressed to the customer 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.

However, in the case of a standard parts order placed by a non-professional buyer, they may exercise their right to retraction and cancel the order within 7 days after reception of merchandise. Return carriage costs are to be paid by the buyer.

4- PRICES

All prices mentioned in the catalogue are quoted without tax. VAT at the current rate, delivery and packing charges as marked in the catalogue and any insurance to which the customer wishes to

General terms and conditions of sale

subscribe will be added to these prices. Different packaging options are detailed in the catalogue and the most suitable will be chosen by HPC at time of shipment unless the customer 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.

In the case of non-professionals purchasing by mail-order, prices are guaranteed for 2 months from the date of publication of the catalogue

5- DELIVERY METHODS AND DESPATCH DATES.

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 sent to the customer when the order is acknowledged.

Despatch dates are given as an estimate only and can by no means be used as the basis for any claim for damages, charges for late delivery or interest; neither can they be used as justification for delaying or cancelling of the order, whatever the cause, length or consequences of the delay may be.

HPC is released from its obligation to deliver the goods in the case of factors outside of their control such as but not limited to; war, riots, fire, industrial disputes, natural disasters or failure of their suppliers.

B- DELIVERY

Unless stated otherwise, delivery is carried out by the collection of the goods by customer from HPC's premises in Dardilly 69570 (France) or by delivery a means of transport chosen by HPC or the customer. Products are sold from Dardilly 69570 France (HPC premises) and are transported at the risk of the customer, 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 customer's cost by a transport method chosen by HPC unless one has been specified by the customer.

In case of loss or damage during transit, it is the customer's responsibility to contact 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

Excepting 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.

It is the buyer's responsibility to provide full proof of the existence of problems or faults with the goods supplied. He must give the seller access and means to evaluate these problems and to remedy them. He will not however attempt to repair any faults either directly or by the use of a third party.

General terms and conditions of sale

HPC's guarantee is limited to the free replacement or repair of products or components that they have agreed are faulty.

Any product for which the buyer wishes to invoke the guarantee must be returned to the seller's customer service department whose agreement is essential for any replacement. Postage costs will be charged to the buyer if the claim for replacement under guarantee clause is found not to be applicable.

6- METHODS OF PAYMENT

Our invoices which will be sent at the same time as goods are despatched, are payable as follows:

- On receipt, if goods are sold and collected from HPC's premises
- 30 days from the end of the month of the invoice date for other sales
- 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 8 days of receipt of a formal notice of non payment, the customer will be liable for charges equivalent to an interest rate of one and a half times the 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 customer 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 customer to pay all sums outstanding to HPC, even if they are not yet due and whatever the intended method of payment might be.

8- GUARANTEE

HPC guarantees the customer against defects that appear in the products sold under the conditions stipulated in article 1641 of the French Civil Code.

For products made to a customer's specifications, 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 customer may use them for. The customer is solely responsible for the information transmitted to HPC.

For standard products, HPC guarantees their conformity to the specifications quoted in the catalogue. HPC's responsibility and/or the implementation of the guarantee owed by HPC cannot take place more than 30 days after receipt of the goods by the customer. 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.

In the event that a product manufactured to a customer's specification infringes the rights of a third party, the customer 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 customer 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 applicable uses and standards (in particular in the event of use or installation in any aerial or rocket engine for which the products are completely unsuited)

General terms and conditions of sale

9- RETURN OF MATERIAL

Every returned product must be the subject of a formal written agreement between the HPC and the customer by fax or by mail. Any product returned without this prior agreement will be stored on behalf of the customer but will not oblige HPC to provide a refund or replacement. This agreement is not however necessary when a non-professional buyer exercises his right to retraction as provided for by French law.

In any event, no product returned more than 30 days after receipt of the product by the customer 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. The choice of transporter will be made by HPC.

Products that are returned will be subject to formal inspection for both quality and quantity. Once accepted by HPC, a Credit Note for the value of the products valid for duration of six months will be issued. However, the right of a non-professional buyer to return goods for a refund remains unchanged, so long as the products are safely returned to HPC.

In the case of an obvious defect or the delivery of the wrong product, once accepted by the seller, the buyer will either receive at the discretion of HPC, replacement products or a refund, no other charges or penalties will be accepted.

10- RETENTION OF OWNERSHIP

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 prevision above do not prevent the risk in the product passing to the customer (in particular risk of loss, deterioration, and damage caused by the parts) once the parts have been dispatched or delivered by HPC.

If a customer supplies a product for modification, repair or to be used as a model, the customer remains the owner of the original product and is responsible for the cost of their transport to and from HPC. The customer 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 controlled by 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 tribunals of the jurisdiction where the registered office of HPC is located, even in the event of an introduction of third parties or multiple defendants.

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CHA-R	hinge		5	218	224		
CHC	socket head screw	1	400	405			
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