Edition no. 1 April 2015

MÄDLER® Catalogue 41

23,000 Parts! To 95% immediately available!

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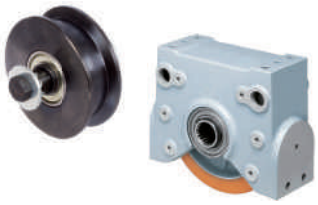

General technical information, page 816

Special parts / Custom-made parts

Are you looking for a part that's not in the catalogue?
We can also supply parts other than those listed.
Apart from this we can also produce special parts
according to drawing or customer specification. Please contact us.

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Bevel Gears / Worm Drives / Trapezoidal Spindle Drives / Ball Screw Drives / Clamping Sets

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Couplings / Cardan Joints / Bearing Housings

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Pneumatic Elements

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Rolling bearings are to find:

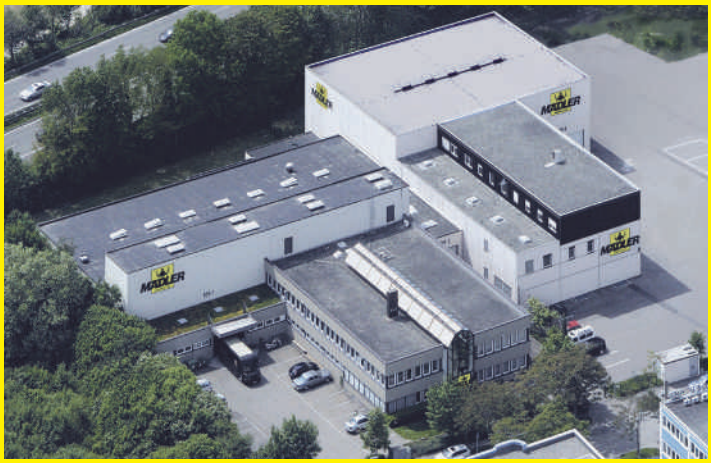
- ***in this catalog page 416***
- ***on the internet at www.maedler.de***

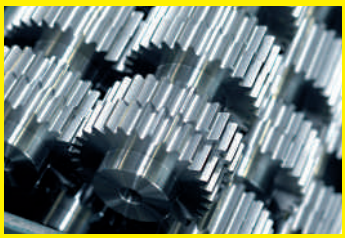
MÄDLER®

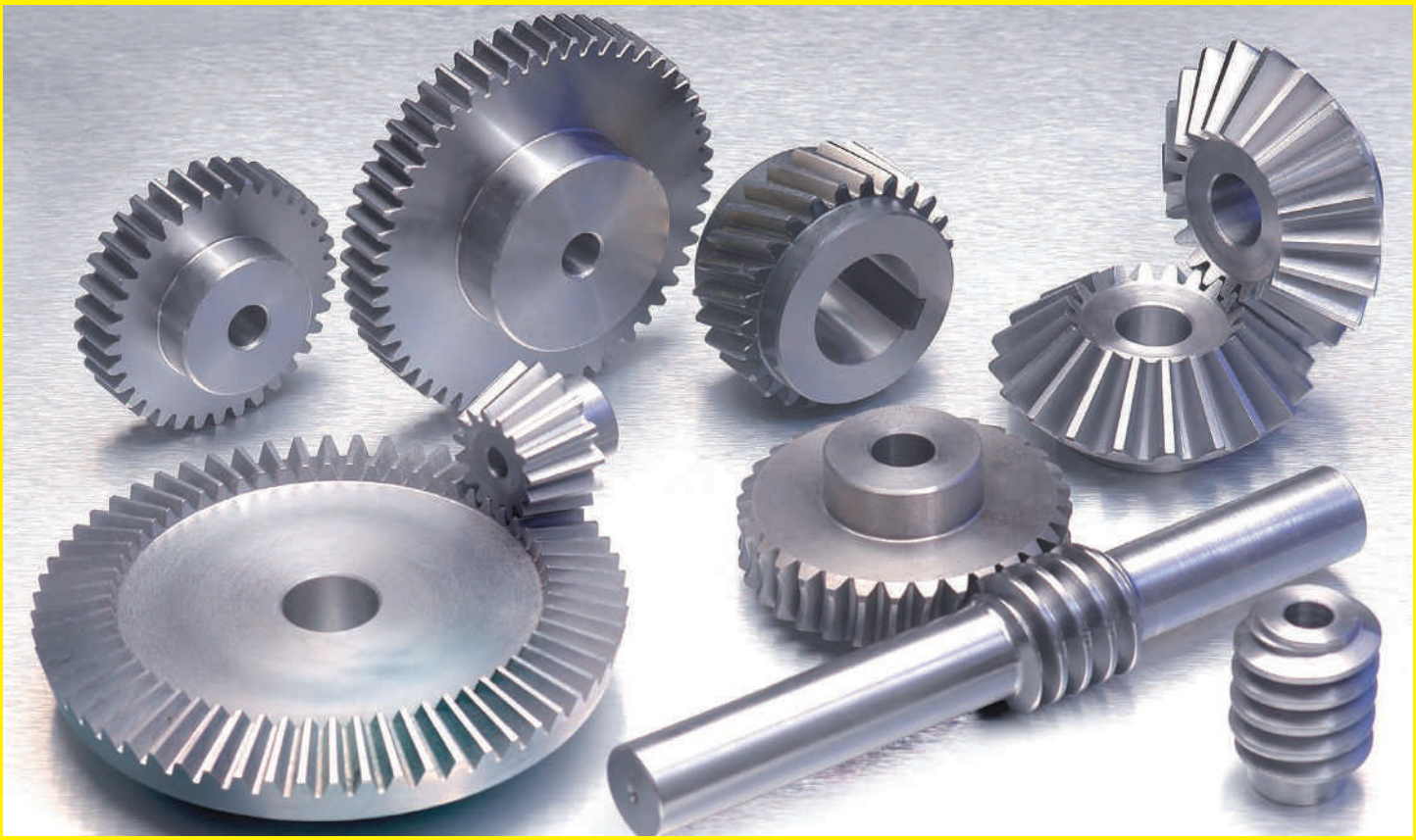
GEGRÜNDET 1882

Your Power Transmission Supplier

- 130 years of experience
- top quality
- very extensive product range
- more than over 20,000 parts immediately available
- distributors in more than 30 countries







www.maedler.de

...we keep things moving

The Company

MÄDLER® GmbH
Head office Stuttgart

MÄDLER® GmbH
Düsseldorf branch

MÄDLER® GmbH
Hamburg branch

MÄDLER® Norm-Antrieb AG
Swiss Subsidiary

On November 9th, 1882 the foundations were laid in Berlin. Bruno Mädler went self employed. He was dealing with fittings and hardware for the building industry, rivets, screws, bolts and nuts.

But business went booming fast. In 1905 the company proudly moved into their first own company building. The numbers of customers, products and employees were quickly rising. Thus in the 30ies the company had about 300 employees and was one of the leading tool building and mechanical engineering companies in Germany.

The end of world war II in 1945 brought along drastic changes, also for Bruno Mädler. Two months before the end of the war: air raid on Berlin. Hardly one stone remained on the other. The ***MÄDLER®*** company building in Koepenicker Street was completely destroyed.

When the rebuilding began, nobody new about the separation of Berlin that would later take place. The decision for a restart in East Berlin therefore evolved as momentous: The trade company was thus later managed as a trust and in 1972 the company was officially converted into public property.

The branch in West Berlin, which had been started at the same time, took a different development. After the war it became the new basis for company development. But: the strong competition of the free-market economy made the company change its approach. The main goal was now to find new, promising market niches.

And in fact, a sector that was perfectly suited could be found: gear elements, gear units, geared motors, machine building elements, standard parts and threaded spindles with accessories offered good future perspectives.

And the further development showed how correct this estimation had been. 1959 the branch in Stuttgart was founded, followed by Dusseldorf in 1963.

An even bigger step followed in 1968: Due to supply shortages and the high demands we have always had on quality we started to be interested in building up our own production and in 1968 we got the chance to join up with a company.

This cooperation went so well, that in 1984 our first own production site, the toothing and gearing technology company Verzahnungstechnik Mädler GmbH, was founded. At the same time a number of other things happened:

- 1970: the company headquarters are moved from Berlin to Stuttgart.
- 1975: the subsidiary in Hamburg is founded.
- 1977: the business premises in Berlin are being closed.
- 1978: the Transnord GmbH in Hamburg is founded, with participation of the ***MÄDLER®*** GmbH.
- 1978: ***MÄDLER®*** also starts trading in the neighbouring countries. The company ***MÄDLER®*** Norm-Antrieb AG in Feuerthalen/ Switzerland starts making business.
- 1988 the headquarters in Stuttgart move into their new, own premises. 1990 the subsidiary in Dusseldorf moves - for the same reason.
- 2004 the area in Stuttgart is extended by about 3000 sqm.
- 2007 the Madler-Silvertech Power Transmission Components LTD. was founded in Shenzen. This is the third factory of ***MÄDLER®***.
- 2010: the subsidiary in Hamburg moves together with the factory Transnord into new buildings in Stapelfeld near Hamburg.
- 2012 the area in Stuttgart is extended by about 5400 sqm.
- 2015 in Stuttgart, the central stock is extended by a new hall. The factory in Stuttgart moves into a new, bigger building.

The Product Development

What once started with a few hundred parts, progressed rapidly. All company areas - whether trade or production schedule, driving, gearing or long-thread technology - have developed a variety that nobody would have expected.

A result to be proud of, and which the about 130 ***MÄDLER®*** employees gain from their 25.000 active customers. Then again, there is still a lot of potential left.

From more than 23,000 parts in the catalogue product range, about 5,000 articles are produced by the own manufacturing companies to ensure the high quality level.

The Standard Programme

The ***MÄDLER®*** standard range is mainly oriented on the general demand from our international business partners and is continuously extended with standard parts as well as technical innovations.
To some extend the standard range is complemented with our own ***MÄDLER®*** products as, e.g., trapezoidal thread spindles with nuts, splined hubs with clamp collars, sprockets and so on.

Especially in the spare parts range an immediate supply - ex stock - is an absolute necessity which can reduce costs induced by machine downtimes. In this field ***MÄDLER®*** offers a wide range of standard parts and a wide-spread, reliable distribution network offering you fast solutions for your problems.
You can take us at our word...

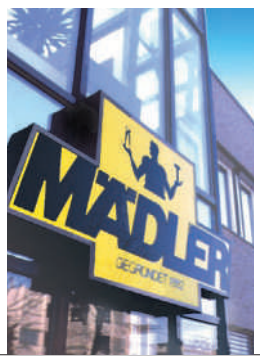
MÄDLER® meets even the highest quality requirements: Top quality, precision and reliability.

Custom-Made Products

The modern production machinery and our team of specialized, skilled workers serve as basis for another main part of our production: custom-made products according to drawings or your specifications, from one-off production up to large series, at a good price and with short delivery times – with perfect quality control, and flexible, as today's market demands.

Gears from module 0.3 to module 8, Gear racks from module 0.3 to module 16, bevel gears from module 0.5 to module 8, worm gears and worms from
module 0.3 to module 6, trapezoidal thread from 10 x 3 mm to 70 x 10 mm single and double thread, including all matching trapezoidal thread nuts. Splined hubs and clamp collars for splined hub profiles 11 x 14 to 46 x 54.

Our Own Production



The ***MÄDLER***® group produces its parts at two manufacturing sites in Germany, in Stuttgart and Hamburg. There specialised workers produce our own ***MÄDLER***® -product range on the most modern CNC machinery.

One-off production according to drawings or samples up to larger series. with a perfect quality control, flexible, as today's market demands.

The most important prerequisite is a highly qualified and also cost-effective production and a guarantee for shortest delivery times for all parts listed in the yellow ***MÄDLER***® catalogues and the
internet.

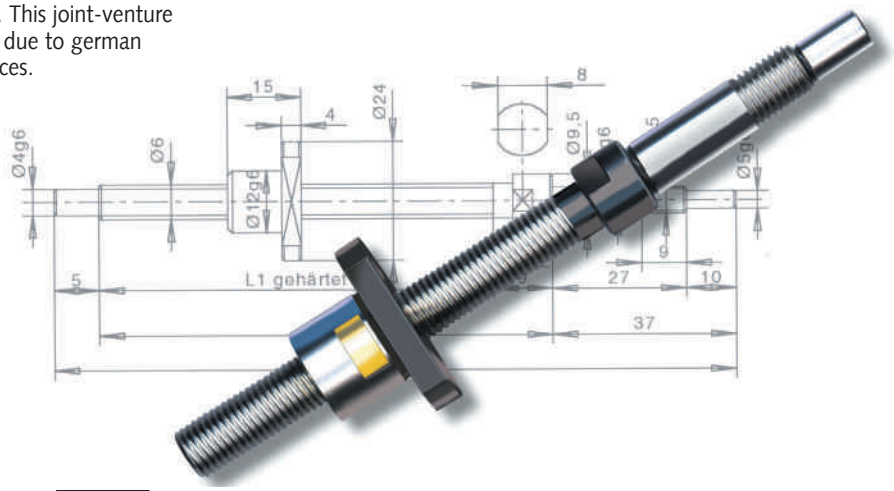
Another factory is in China. This joint-venture enables simplier mass parts due to german quality standards at low prices.

WE KEEP THINGS MOVING

Ballscrew Spindle Drives

MÄDLER® can supply you with ballscrew spindle drives matching your special specifications.

More detailed information on page 317.



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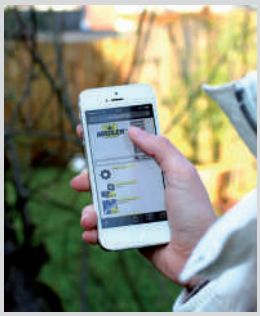
...the entire MÄDLER® range with CAD files on the Internet



We present the entire ***MÄDLER***® range with CAD files and ***MÄDLER***® info, continuously updated, on the internet. Fast access to the data, fast ordering by internet.
Orders by internet, phone, fax or e-mail: We guarantee delivery at short notice.

Dimensions and other information in this catalogue display the current state of technology. We reserve the right for changes.
This catalogue was created with due diligence, but errors might still occur. We refuse to accept any claims in this respect. We reserve the right to alter dimensions, and to change or remove single products and product groups without prior notice. Our general conditions of sales, delivery and payment can be found on the last page of this catalogue.

...we keep things moving

Come and visit our stall at a fair and get detailed information on our entire product range. Exact dates at: www.maedler.de

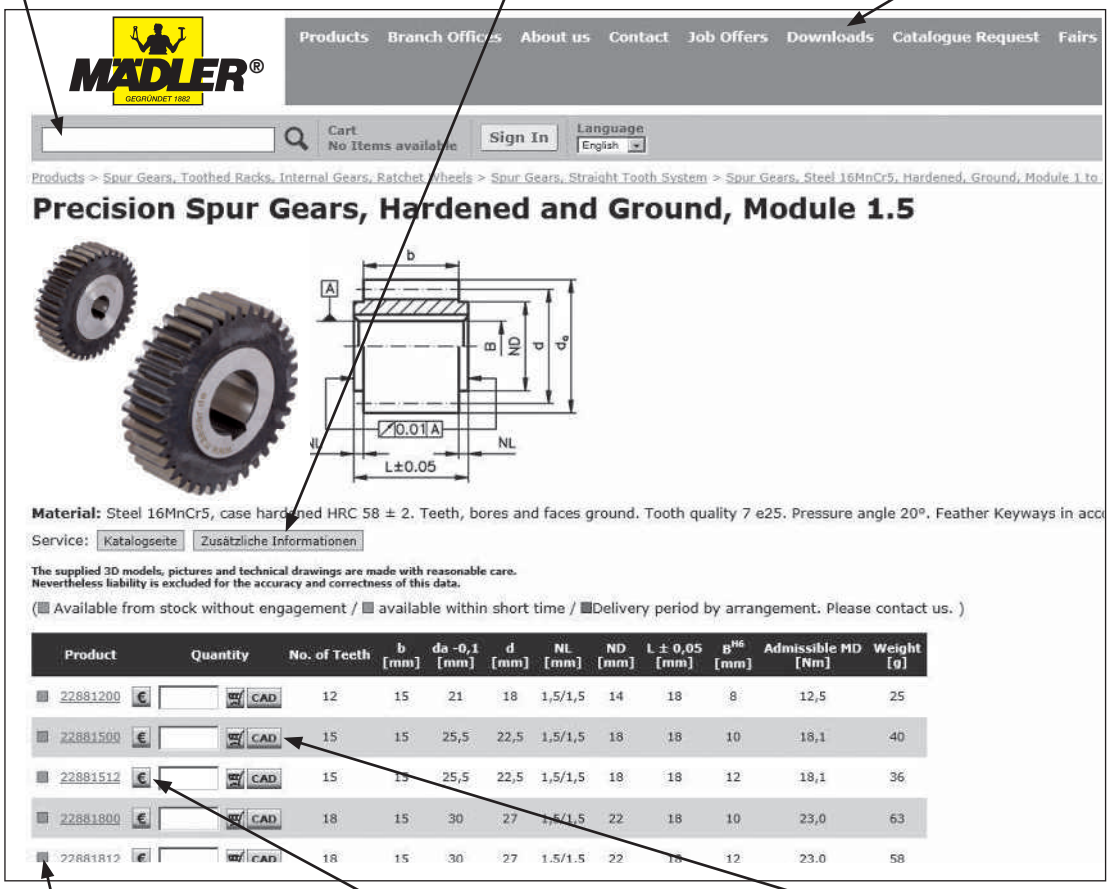
Please use our website

at www.maedler.de

Put in a search word or part number and go directly to the product page

Find the PDF-catalogue page and further information

Manual instructions, certificates, safety data sheets in the section Downloads



The availability of all products is shown by coloured sign

Drag the mouse onto the currency-symbol to see the prices*

Download CAD-drawings in 3D

A lot of possibilities and information:

- **Download of PDF catalogues in different languages.**
- **See all our branches and distributors.**
- **Make easily your order online and follow your parcel.**
- ***MÄDLER*®-Tools: Use our selection- and calculation tools.**
- **News: Useful information about exhibitions and others.**
- **Newsletter: Monthly information per e-mail.**

Qualitiy Management DIN EN ISO 9001

MÄDLER GmbH maintains a quality management system according to DIN EN ISO 9001 and was certified the first time in 1995.

On the iternet at **www. maedler.de** in the section **Downloads** you find:

- PDF catalogues in several languages.
- Operating instructions.
- Safety data sheets.
- Excel-Pricelist for customers in Germany.
- Certificates of conformity.
- Quality management certificate DIN 9001.
- Certificate AEO.
- Company profile.
- CAD files.

MÄDLER® meets even the highest quality requirements:Top quality, precision and reliability.

Roller Chains DIN ISO 606 (ex DIN 8187) - Description

General Description
When used properly, high quality roller chains are powerful and reliable drive systems. They can serve to bridge large centre distances. Various transmission ratios can be realized, independently of the centre distance. In Europe mainly roller chains according to DIN ISO 606 (ex DIN 8187) are used.

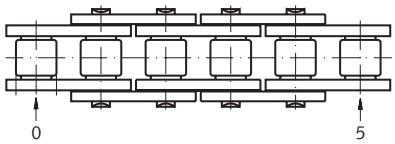
Selection, Dimensioning and Efficiency
The the performance diagram and the calculation given on page 36 can serve to determine a chain drive with a prospective service life of hours. With proper lubrication the degree of efficiency is approx. 98 %.

Note Regarding the Breaking Load
The DIN ISO 606 (ex DIN 8187) specifies the minimum breaking load for each chain size. When this breaking load is exceeded, the chain is destroyed. Roller chains should be loaded with no more than one sixth of the stated breaking load, to avoid an early plastic deformation (permanent elongation).

Mounting and Maintenance
The shafts must be set in parallel. The sprockets must be aligned. The slack span should amount to approx 1% to max 2% of the centre distance. For this purpose we recommend mounting a chain tensioner.

Large centre distances require a support (guide rail) to be used. Chain drives must always be well lubricated. Lubricants and lubrication methods depend on the specific application.

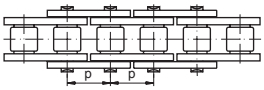
Determining the Chain Length
The chain length can be stated in meter or mm, or by stating the number of links. In the latter case, inner **and** outer links are counted. The chains are usually delivered open. The last link on both ends is an inner link.
This leads to an uneven number of links.
If a straight connecting ling is used, the closed chain strand has an even number of links. Example of an open chain (without connecting link) with 5 links:



An uneven number of links in a closed strand can only be realized by using a cranked link.
Note: this link reduces the load bearing capacity of the chain by 20%.

Roller Chains in Catalogue Version

Single-Strand (Simplex-) Roller Chains:
Either as standard version made from special, high-quality steel, or lubrication-free, with additional nickel plating, or in stainless steel.



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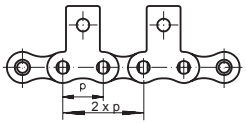
Single-Strand Chains with Attachments:
In stock as chain with straight and bent attachments, one-sided or two-sided attached to the outer link, as one-whole or two-hole version, with a distance of 2 x p, 4 x p and 6 x p. Other distances available at short notice on request.



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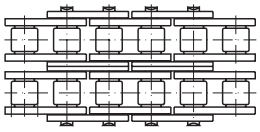
Double-Strand (Duplex-) Roller Chains:
As standard version made from special, high-quality steel.
The transmission power is 1.75 times higher than single-strand.



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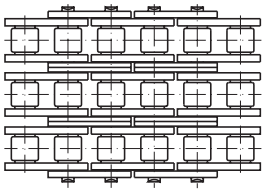
Triple-Strand (Triplex-) Roller Chains:
As standard version made from special, high-quality steel. The transmission power of this chain is 2.5 times higher than single-strand.



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Sprockets in Catalogue Version

Sprockets for roller chains DIN ISO 606 (ex DIN 8187), with main dimension according to DIN 8192 (tooth profile DIN 8196) as well as various tensioning elements are available in large variety straight from stock. Other sprockets and custom-made products on request.

Overview sprockets: page 60.
Mounting options: page 817.

Dimensioning of Roller-Chain Drives DIN ISO 606 (ex DIN 8187)

Notes Regarding the Calculation

The dimensioning of a roller-chain drive can be worked out using the performance diagram below.
This diagram shows the calculated transmittable power for a service life of 15,000 hours.
The calculated performance is worked out by multiplying the power to be transmitted with the corrective factors stated below.
The performance diagram is non binding. It is based on empirical values and set at optimum conditions. Special operational conditions can shorten the service life of the chain.

Calculation of the Transmittable Power P_B

$P_B = P_N \times K_1 \times K_2 \times K_3 \times K_4$

P_B: Calculated Transmittable Power [kW]

P_N: Input Power [kW]

K_1: Factor Considering the Number of Teeth (Table 1)

K_2: Factor Considering the Transmission (Table 2)

K_3: Factor Considering the Centre Distance (Table 3)

K_4: Factor Considering the Type of Load (Table 4)

Table 1: Corrective Factor K_1 Considering the Number of Teeth of the Smaller Sprocket

Number of Teeth	11	13	15	17	19	21	23	25	31	37
Factor K_1	2.5	2.0	1.75	1.55	1.35	1.2	1.1	1.0	0.78	0.64

Table 2: Corrective Factor K_2 Considering the Transmission Ratio

Transmission Ratio	1 : 1	2 : 1	3 : 1	5 : 1
Factor K_2	1.22	1.08	1	0.92

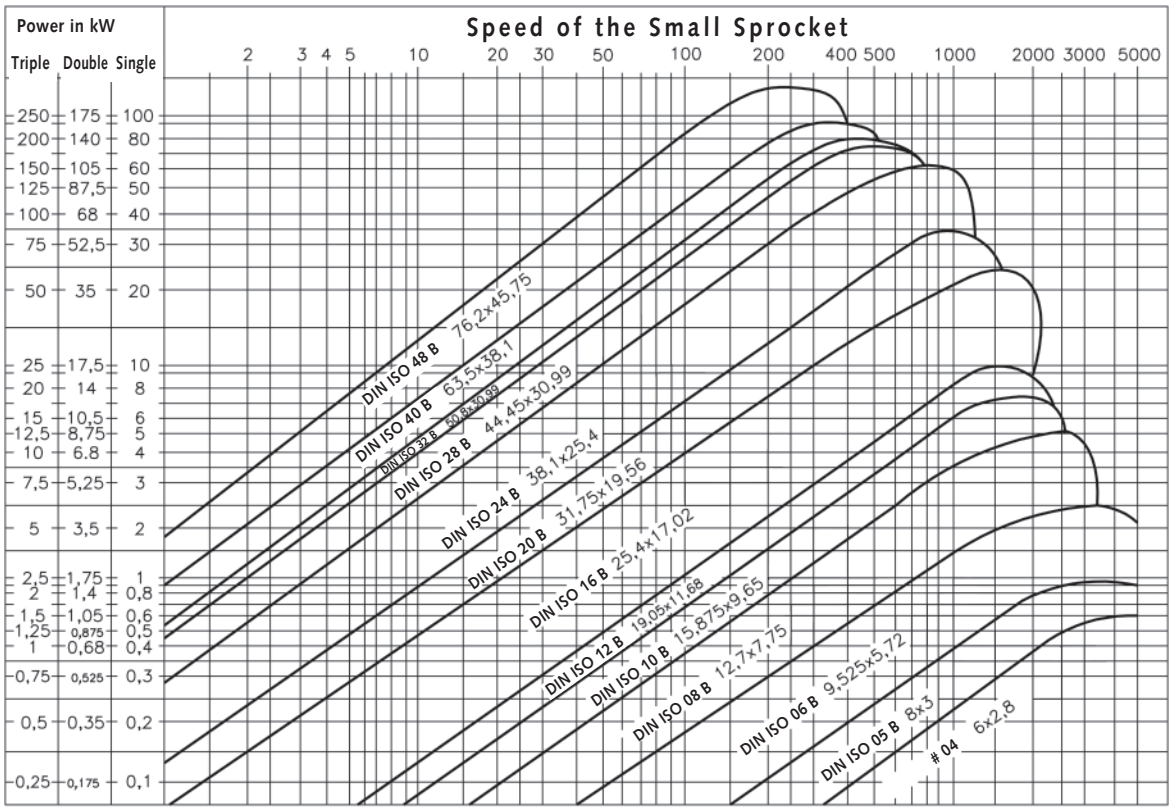
Table 3: Corrective Factor K_3 Considering the center distance

Center Distance	10 x p	20 x p	40 x p	80 x p
Factor K_3	1,3	1,15	1	0,85

Table 4: Corrective Factor K_4 Considering the Type of Load (Operating Factor)

	Output (Type of Load of Driven Machine)		
Input	Uniform	Medium Shocks	Strong Shocks
Uniform	1.0	1.4	1.8
Light Shocks	1.1	1.5	1.9
Medium Shocks	1.3	1.7	2.1

Performance Diagram: Calculated Transmittable Power P_B

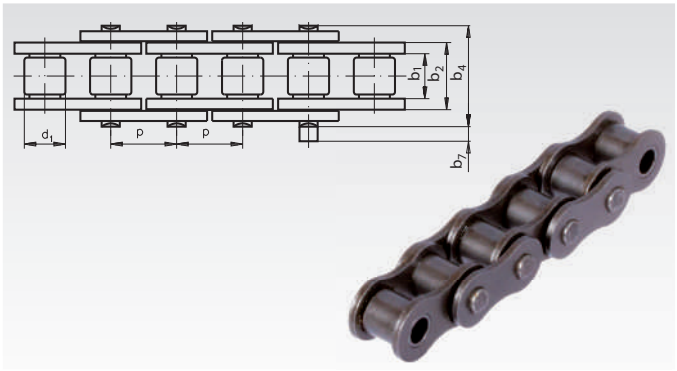


Single-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Special chain steel.

High-quality simplex roller chains, pre-stretched according to DIN.
Notes regarding the performance calculation on page 36.
Waisted link plates (size 06 with straight link plates).
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.

Temperature range: -20°C to +120°C.
Other temperatures are possible if special grease is used.



Ordering Details: e.g.: Product No. 100 000 00, Bush Chain, Single Strand, Pitch 4mm

DIN ISO-No.	Product No.	Pitch x Inner Width p x b_{1min} mm			inch	Inner Width b_2 mm	Roller-Ø d_1 mm	Pin Ø mm	Width over Pin b_4 mm	Projection over Link b_7 [4] mm	Breaking Load min. N	Weight kg/m
comp. Stand.[1]	**100 000 00** [1]	4,0	x	2,7	-	4,10	2,50	1,65	7,0	0,9	1800	0,08
03 [2]	**100 300 00** [2]	5,0	x	2,5	-	4,15	3,20	1,49	7,4	2,5	2200	0,10
04 [2]	**100 600 00** [2]	6,0	x	2,8	-	4,10	4,00	1,85	7,4	2,9	3000	0,12
05 B-1	**100 800 00**	8,0	x	3,0	-	4,77	5,00	2,31	8,6	3,1	4400	0,18
06 B-1 [3]	**101 000 00** [3]	9,525	x	5,72	3/8 x 7/32	8,53	6,35	3,28	13,5	3,3	8900	0,41
081	**102 000 00**	12,7	x	3,3	1/2 x 1/8	5,80	7,75	3,66	10,2	1,5	8000	0,28
083	**103 000 00**	12,7	x	4,88	1/2 x 3/16	7,90	7,75	4,09	12,9	1,5	11600	0,42
comp. Stand.	**103 400 00**	12,7	x	4,88	1/2 x 3/16V	9,30	7,75	4,18	14,4	1,5	17500	0,59
08 B-1	**105 000 00**	12,7	x	7,75	1/2 x 5/16	11,30	8,51	4,45	17,0	3,9	17800	0,70
10 B-1	**106 000 00**	15,875	x	9,65	5/8 x 3/8	13,28	10,16	5,08	19,6	4,1	22200	0,95
12 B-1	**107 000 00**	19,05	x	11,68	3/4 x 7/16	15,62	12,07	5,72	22,7	4,6	28900	1,25
16 B-1	**108 000 00**	25,4	x	17,02	1“ x 17,02mm	25,45	15,88	8,28	36,1	5,4	60000	2,60
20 B-1	**109 000 00**	31,75	x	19,56	1 1/4 x 3/4	29,01	19,05	10,19	43,2	6,1	95000	3,70
24 B-1	**110 000 00**	38,1	x	25,4	1 1/2 x 1	37,92	25,40	14,63	53,4	6,6	160000	6,90

[1] Bush Chain (without rollers).
[2] This size is not part of the DIN.
[3] With straight links plates.
[4] Maximum values at the connecting link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Single-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Special chain steels. **Attention please:** Product numbers marked with * are in packing units of 5 pieces.
Ordering Details: e.g.: Product No. 100 303 00, Connecting Link No. 11/E, 03


No. 11/E


No. 12/L


No. 15/C


No. 10/S


No. 4/B

DIN ISO No.	Product No. Connecting Link No. 11/E	Weight g	Product No. Cranked Link No. 12/L [3]	Weight g	Product No. Cranked Double No. 15/C [3]	Weight g	Product No. Connecting Link No. 10/S	Weight g	Product No. Inner Link No. 4/B	Weight g
Company Std.[1]	-		-	-	-	-	**100 002 00**	0,4	-	-
03	**100 303 00**	0,4	-	-	**100 305 00**	0,8	-	-	**100 301 00**	0,5
04	**100 603 00***	0,6	-	-	**100 605 00**	1,4	-	-	**100 601 00**	0,8
05 B-1	**100 803 00***	2	-	-	**100 805 00**	2	-	-	**100 801 00**	1,4
06 B-1	**101 003 00***	4	**101 004 00**	4	**101 005 00**	9	-	-	**101 001 00**	4
081	**102 003 00***	4	**102 004 00**	4	**102 005 00**	8	-	-	**102 001 00**	4
083	**103 003 00***	5	**103 004 00**	6	**103 005 00**	11	-	-	**103 001 00**	5
Company Std.[2]	**103 403 00**	6	**103 404 00**	8	**103 405 00**	14	-	-	**103 401 00**	6
08 B-1	**105 003 00***	9	**105 004 00**	9	**105 005 00**	18	-	-	**105 001 00**	9
10 B-1	**106 003 00***	13	**106 004 00**	15	**106 005 00**	31	**106 002 00**	12	**106 001 00**	16
12 B-1	**107 003 00***	21	**107 004 00**	24	**107 005 00**	48	-	-	**107 001 00**	25
16 B-1	**108 003 00**	66	**108 004 00**	80	**108 005 00**	140	**108 002 00**	64	**108 001 00**	79
20 B-1	**109 003 00**	115	**109 004 00**	145	**109 005 00**	279	**109 002 00**	108	**109 001 00**	129
24 B-1	-	-	**110 004 00**	293	-	-	**110 002 00**	286	**110 001 00**	268

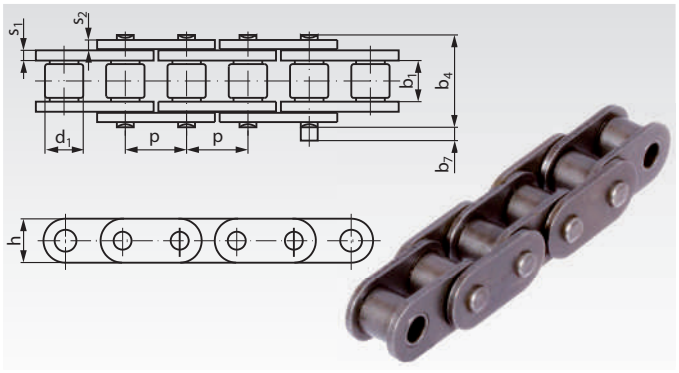
* Delivery in packing units of 5 pieces.
[1] Pitch 4 mm for chain 100 000 00.
[2] Pitch 12.7 mm for chain 103 400 00.
[3] With cranked links power and breaking load are reduced by 20%.

Single-Strand Roller Chains, similar to DIN ISO 606 (ex DIN 8187), with straight plates

Material: Special chain steel.

High-quality simplex roller chains, pre-stretched according to DIN.
Notes regarding the performance calculation on page 36.
With straight link plates, to use as conveyor chain or drive chain.
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.

Temperature range: -20°C to +120°C.
Other temperatures are possible if special grease is used.



Ordering Details: e.g.: Product No. 105 000 00GL, Roller Chain 08 B-1-GL, with straight plates

DIN ISO-No.	Product No.	Pitch x Inner Width p x b_{1min} mm			inch	Plate Height h max. mm	Plate Thickness s_1/s_2 max. mm	Roller-Ø d_1 mm	Pin Ø mm	Width over Pin b_4 mm	Projection over link b_7 [1] mm	Breaking Load min. N	Weight kg/m
08 B-1-GL	**105 000 00GL**	12,7	x	7,75	1/2 x 5/16	11,8	1,60	8,51	4,45	16,7	1,5	17800	0,80
10 B-1-GL	**106 000 00GL**	15,875	x	9,65	5/8 x 3/8	14,7	1,70	10,16	5,08	19,5	2,4	22200	1,06
12 B-1-GL	**107 000 00GL**	19,05	x	11,68	3/4 x 7/16	16,0	1,85	12,07	5,72	22,5	2,7	28900	1,32
16 B-1-GL	**108 000 00GL**	25,4	x	17,02	1“ x 17,02mm	21,0	4,15/3,1	15,88	8,28	36,1	3,0	60000	3,08
16 B-1-GLH	**108 000 00GLH**	25,4	x	17,02	1“ x 17,02mm	24,0	4,15/3,1	15,88	8,28	36,1	3,0	60000	3,49
20 B-1-GL	**109 000 00GL**	31,75	x	19,56	1 1/4 x 3/4	26,4	4,50/3,5	19,05	10,19	43,2	3,7	95000	4,16

[1] Maximum value at the connecting link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Single-Strand Roller Chains similar to DIN ISO 606 (ex DIN 8187), with straight plates

Materials: Special Chain Steel. **Attention please:** Product numbers marked with * are in packing units of 5 pieces.
Ordering Details: e.g.: Product No. 105 003 00GL, Connecting Link No.11/E, 08 B-1-GL with straight plates


No. 11/E


No. 12/L


No. 4/B

DIN ISO No.	Product No. Connect. Link No. 11/E	Weight g	Product No. Cranked No. 12/L [1]	Weight g	Product No. Inner Link No. 4/B	Weight g
08 B-1-GL	**105 003 00GL***	10	**105 004 00**	9	**105 001 00GL**	10
10 B-1-GL	**106 003 00GL***	17	**106 004 00**	15	**106 001 00GL**	18
12 B-1-GL	**107 003 00GL***	23	**107 004 00**	24	**107 001 00GL**	28
16 B-1-GL	**108 003 00GL**	72	**108 004 00**	80	**108 001 00GL**	83
16 B-1-GLH	**108 003 00GLH**	78	-	-	**108 001 00GLH**	93
20 B-1-GL	**109 003 00GL** [2]	126	**109 004 00**	145	**109 001 00GL**	141

[1] With cranked links power and breaking loads are reduced by 20%.
[2] With cottered pin.

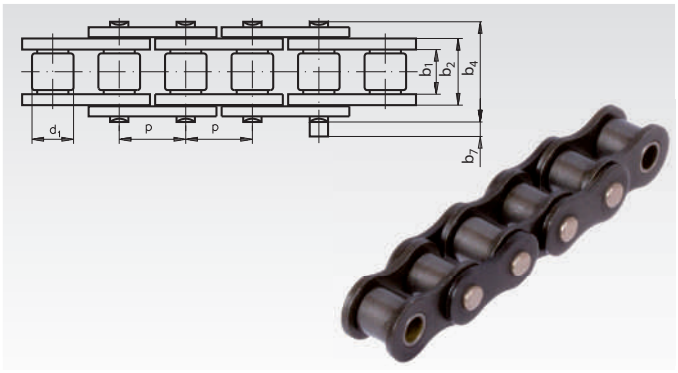
* Delivery in packing units of 5 pieces.

Single-Strand Roller Chains, similar to DIN ISO 606 (ex DIN 8187), Self-Lubricating

Materials: Special Chain Steel, Sintered Bronze Bushes.

Self-Lubricating Single-Strand Roller Chain, Dimensions and Pre-stretching according to DIN ISO 606 (ex DIN 8187).
Waisted Link Plates.
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.

Temperature range: -10° to +120°C.



Ordering Details: e.g.: Product No. 105 770 00, Roller Chain 08 B-1 self-lubricating

DIN ISO-No.	Product No.	Pitch x Inner Width p x b_{1min} mm			inch	Inner Width b_2 mm	Roller-Ø d_1 mm	Pin Ø mm	Width over Pin b_4 mm	Projection over Link b_7 [1] mm	Breaking Load min. N	Weight kg/m
08 B-1	**105 770 00**	12,7	x	7,75	1/2 x 5/16	11,30	8,51	4,45	17,0	3,9	17800	0,69
10 B-1	**106 770 00**	15,875	x	9,65	5/8 x 3/8	13,28	10,16	5,08	19,6	4,1	22200	0,93
12 B-1	**107 770 00**	19,05	x	11,68	3/4 x 7/16	15,62	12,07	5,72	22,7	4,6	28900	1,15
16 B-1	**108 770 00**	25,4	x	17,02	1“ x 17,02mm	25,45	15,88	8,28	36,1	5,4	60000	2,71

[1] Maximum value at the connecting link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Self-Lubricating, Single-Strand Roller Chains, similar to DIN ISO 606 (ex DIN 8187)

Materials: Special Chain Steel, Coated Pins.

Ordering Details: e.g.: Product No. 105 773 00, Connecting Link No.11/E, 08 B-1


No. 11/E


No. 12/L


No. 4/B

DIN ISO No.	**Product No. Connect. Link No. 11/E**	Weight g	**Product No. Cranked No. 12/L** [1]	Weight g	**Product No. Inner Link No. 4/B**	Weight g
08 B-1	**105 770 03**	9	**105 770 04**	9	**105 770 01**	9
10 B-1	**106 770 03**	13	**106 770 04**	15	**106 770 01**	16
12 B-1	**107 770 03**	21	**107 770 04**	24	**107 770 01**	25
16 B-1	**108 770 03** [2]	66	**108 770 04**	80	**108 770 01**	79

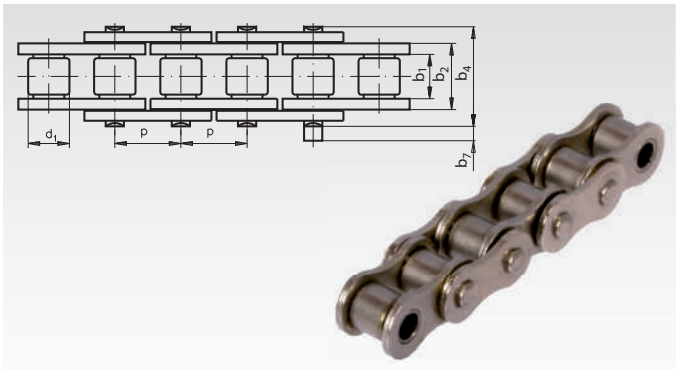
[1] With cranked links power and breaking loads are reduced by 20%.
[2] With cottered pin.

Single-Strand Roller Chains, similar to DIN ISO 606 (ex DIN 8187), Nickel Plated

Material: Special Chain Steel, Nickel Plated.

High quality single-strand roller chains with good corrosion resistance.
Dimensions and Pre-stretching according to DIN ISO 606 (ex DIN 8187).
Notes regarding the performance calculation are on page 36.
Wasted Link Plates (size 06 with straight link plates).
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.

Temperature range: -10°C to +120°C.
Other temperatures are possible if special grease is used.



Ordering Details: e.g.: Product No. 100 668 00, Roller Chain 05 B-1, nickel plated

DIN ISO-No.	Product No. Nickel plated	Pitch x Inner Width $p \times b_{1min}$ mm		inch	Inner Width b_2 mm	Roller-Ø d_1 mm	Pin Ø mm	Width over Pin b_4 mm	Projection over Link b_7 [2] mm	Breaking Load min. N	Weight kg/m
05 B-1	**100 668 00**	8,0 x 3,0		-	4,77	5,00	2,31	8,6	3,1	4400	0,20
06 B-1 [1]	**101 660 00** [1]	9,525 x 5,72		3/8 x 7/32	8,53	6,35	3,28	13,5	3,3	8900	0,41
08 B-1	**105 660 00**	12,7 x 7,75		1/2 x 5/16	11,30	8,51	4,45	17,0	3,9	17800	0,69
10 B-1	**106 660 00**	15,875 x 9,65		5/8 x 3/8	13,28	10,16	5,08	19,6	4,1	22200	0,93
12 B-1	**107 660 00**	19,05 x 11,68		3/4 x 7/16	15,62	12,07	5,72	22,7	4,6	28900	1,15
16 B-1	**108 660 00**	25,4 x 17,02		1" x 17,02mm	25,45	15,88	8,28	36,1	5,4	60000	2,71
20 B-1	**109 660 00**	31,75 x 19,56		1 1/4 x 3/4	29,01	19,05	10,19	43,2	6,1	95000	3,70
24 B-1	**110 660 00**	38,1 x 25,4		1 1/2 x 1	37,92	25,40	14,63	53,4	6,6	160000	7,10

[1] With straight link plates.
[2] Maximum values at the connecting link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Single-Strand Roller Chains, similar to DIN ISO 606 (ex DIN 8187), Nickel Plated

Material: Special Chain Steel, Nickel Plated. **Attention please:** Product numbers marked with * are in packing units of 5 pieces.

Ordering Details: e.g.: Product No. 100 668 03, Connecting Link No.11/E, 05 B-1, nickel plated

No. 11/E: Connecting link with spring clip

No. 12/L: Cranked link with cottered pin

No. 4/B: Inner Link

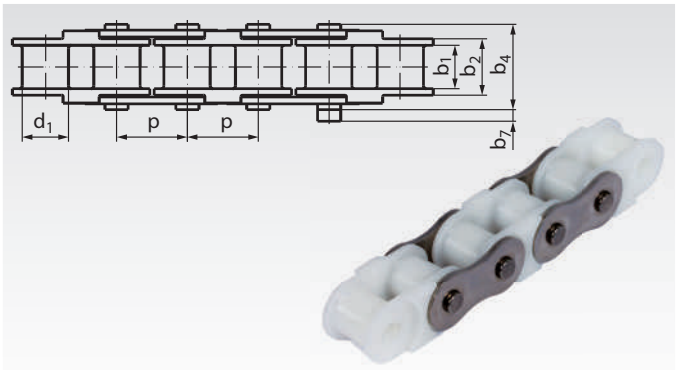
DIN ISO No.	Product No. Connecting Link No. 11/E	Weight g	Product No. Cranked No. 12/L [1]	Weight g	Product No. Inner Link No. 4/B	Weight g
05 B-1	**100 668 03***	2	**100 668 04**	1,4	**100 668 01**	1,5
06 B-1	**101 660 03***	4	**101 660 04**	4	**101 660 01**	4
08 B-1	**105 660 03***	7	**105 660 04**	10	**105 660 01**	9
10 B-1	**106 660 03**	13	**106 660 04**	15	**106 660 01**	16
12 B-1	**107 660 03**	14	**107 660 04**	25	**107 660 01**	26
16 B-1	**108 660 03**	65	**108 660 04**	81	**108 660 01**	72
20 B-1	**109 660 03** [2]	115	**109 660 04**	145	**109 660 01**	129
24 B-1	**110 660 03** [2]	286	**110 660 04**	293	**110 660 01**	268

[1] With cranked links power and breaking loads are reduced by 20%.
[2] With cottered pin.

* Delivery in packing units of 5 pieces.

Chains KE and KE-Eco, similar to DIN ISO 606 (ex DIN 8187), Plastic with Stainless Steel

Material and type:
Type KE: Inner links made from special polycarbonate with high chemical resistance, for food industry or laboratory. Outer links from stainless steel 1.4301.
Type KE-Eco: Similar to KE, but inner links from standard polycarbonate, with lower chemical resistance.



Main dimensions according to DIN ISO 606 (ex DIN 8187).
- Very light and silent running.
- Very clean due to closed surfaces on the inner link.
- High corrosion resistance.
- Long lifetime, without any lubrication.
- Breaking load significantly higher than pure plastic chains.
- Temperature range -10°C to +80°C. V_{max} 70m/min.

Chains are supplied with an uneven number of links, ending with inner links. Connecting links must be ordered separately.

Ordering Details: e.g.: Product No. 101 550 00, Chain KE 06 B-1

DIN ISO	Product No. Type KE	Product No. Type KE-Eco	Pitch x Inner Width p x b_{1min} mm		Zoll	Inner Width b_2 mm	Roller-Ø d_1 mm	Pin Ø mm	Width over Pin b_4 mm	Projection b_7 [2] mm	Calculated Load max. [3] N	Weight kg/m
06 B-1 [1]	**101 550 00** [1]	**101 560 00** [1]	9,525 x 5,72		3/8 x 7/32	8,53	6,35	3,28	13,5	3,3	200	0,23
08 B-1	**105 550 00**	**105 560 00**	12,7 x 7,75		1/2 x 5/16	11,30	8,51	4,45	17,0	3,9	430	0,40
10 B-1	**106 550 00**	**106 560 00**	15,875 x 9,65		5/8 x 3/8	13,28	10,16	5,08	19,6	4,1	520	0,51
12 B-1	**107 550 00**	**107 560 00**	19,05 x 11,68		3/4 x 7/16	15,62	12,07	5,72	22,7	4,6	700	0,67
16 B-1	-	**108 560 00**	25,4 x 17,02		1“ x 17,02mm	25,45	15,88	8,28	35,4	5,4	930	1,39

[1] With straight link plates.
[2] Maximum value at the connecting link.
[3] See calculation factors below.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting links for chains KE and KE-Eco

Material: Stainless steel 1.4301.

Ordering Details: e.g.: Product No. 101 990 03, Connecting Link No.11/E, 06 B-1, stainless

No. 11/E: Connecting link with spring clip

DIN ISO No.	**Product No.** Connecting Link No. 11/E	Weight g
06 B-1	**101 990 03**	4
08 B-1	**105 990 03**	7
10 B-1	**106 990 03**	13
12 B-1	**107 990 03**	14

Load calculation factors for Chains KE and KE-Eco

The actual load is to be calculated with the following factors. The result may not be greater than the allowed calculated load.

1. Shock load: Usual factors see page 36

2. Number of sprocket teeth:
9 - 14 teeth: Factor 1.16
15 - 23 teeth: Factor 1.12
24 - 37 teeth: Factor 1.08
38 - 59 teeth: Factor 1.04
Above 60 teeth: Factor 1.00

3. Chain speed:
0 to 15m/min: Factor 1.0
16 to 30m/min: Factor 1.2
31 to 50m/min: Factor 1.4
51 to 70m/min: Factor 1.6

Resistance of KE-Chains

Resistant against:
Acetone, alcohol, ammonia water, malic acid (50%), petrol, benzene, butyric acid, acetic acid, formaldehyde, glycerine, caustic potash, potassium nitrate, lactic acid (10%), sodium chloride, sodium bicarbonate, oils (plant / mineral), paraffin, petroleum, juices, hydrogen sulphide (dry), tartaric acid (10%), sugar solutions etc.
Tested at 20°C, without any guarantee about secondary effects.

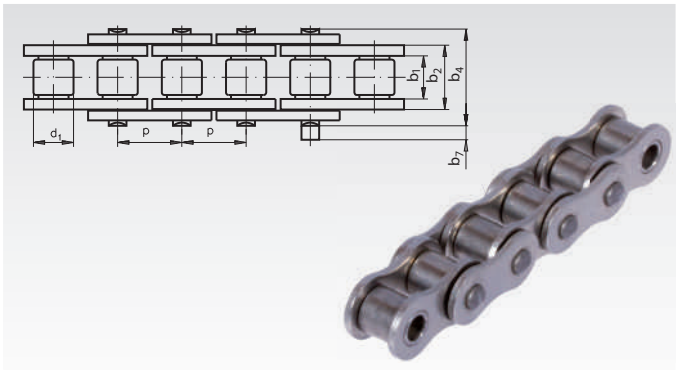
Not resistant against:
Chlorine gas, chromic acid, iodine, phosphoric acid, carbolic acid, nitric acid, hydrochloric acid, ozone, sulphuric acid, hydrogen sulphide (wet), stearic acid etc.

Single-Strand Roller Chains Similar to DIN ISO 606 (ex DIN 8187), Stainless Steel

Material: Stainless steel 1.4301.

STAINLESS

Simplex roller chains with good chemical resistance.
Main dimensions according to DIN ISO 606 (ex DIN 8187). Due to the material properties, the stated transmittable power and breaking load are below the value for the standard chains. The application should use no more than one sixth of the braking load stated.
Not pre-stretched, not lubricated. The chains must be lubricated according to the type of application. Waisted link plates (size 06 with straight link plates).
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links have to be ordered separately.



Ordering Details: e.g.: Product No. 100 996 00, Roller Chain 04, Stainless Steel

DIN ISO-No.	Product No. Stainless	Pitch x Inner Width p x b_{1min} mm			inch	Inner Width b_2 mm	Roller-Ø d_1 mm	Pin Ø mm	Width over Pin b_4 mm	Projection over Link b_7 [3] mm	Breaking Load min. N	Weight kg/m
04 [1]	**100 996 00** [1]	6,0	x	2,8	-	4,10	4,00	1,85	7,4	2,9	2000	0,12
05 B-1	**100 998 00**	8,0	x	3,0	-	4,77	5,00	2,31	8,6	3,1	3500	0,18
06 B-1 [2]	**101 990 00** [2]	9,525	x	5,72	3/8 x 7/32	8,53	6,35	3,28	13,5	3,3	6200	0,41
083	**103 990 00**	12,7	x	4,88	1/2 x 3/16	7,90	7,75	4,09	12,9	1,5	7000	0,42
08 B-1	**105 990 00**	12,7	x	7,75	1/2 x 5/16	11,30	8,51	4,45	17,0	3,9	12000	0,70
10 B-1	**106 990 00**	15,875	x	9,65	5/8 x 3/8	13,28	10,16	5,08	19,6	4,1	14500	0,95
12 B-1	**107 990 00**	19,05	x	11,68	3/4 x 7/16	15,62	12,07	5,72	22,7	4,6	18500	1,25
16 B-1	**108 990 00**	25,4	x	17,02	1“ x 17,02mm	25,45	15,88	8,28	36,1	5,4	40000	2,60

[1] This size is not part of the DIN.
[2] With straight link plates.
[3] Maximum values at the connecting link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Single-Strand Roller Chains Similar to DIN ISO 606 (ex DIN 8187), Stainless Steel

Material: Stainless steel 1.4301.

Ordering Details: e.g.: Product No. 100 996 03, Connecting Link No. 11/E, 04, Stainless Steel

STAINLESS

No. 11/E: Connecting Link with Spring Clip

No. 12/L: Cranked Link with Cottered Pin

No. 4/B: Inner Link

DIN ISO No.	Product No. Connecting Link No. 11/E	Weight g	Product No. Cranked No. 12/L [1]	Weight g	Product No. Inner Link No. 4/B	Weight g
04	**100 996 03**	0,6	**-**	-	**100 996 01**	0,8
05 B-1	**100 998 03**	2	**100 998 04**	1,4	**100 998 01**	1,5
06 B-1	**101 990 03**	4	**101 990 04**	4	**101 990 01**	4
083	**103 990 03**	4	**103 990 04** [2]	4	**103 990 01**	5
08 B-1	**105 990 03**	7	**105 990 04**	10	**105 990 01**	9
10 B-1	**106 990 03**	13	**106 990 04**	15	**106 990 01**	16
12 B-1	**107 990 03**	14	**107 990 04**	25	**107 990 01**	26
16 B-1	**108 990 03**	65	**108 990 04**	81	**108 990 01**	72

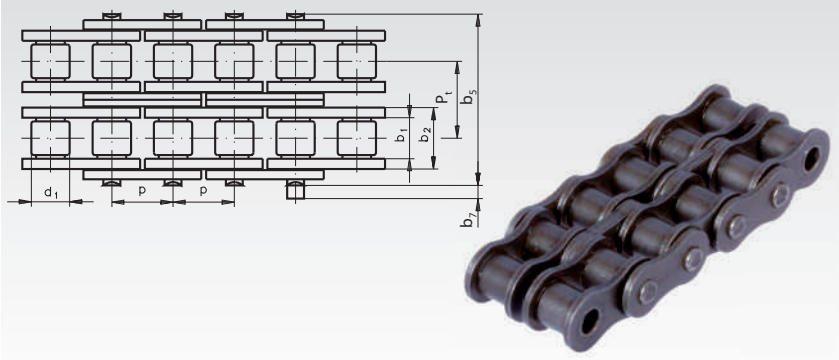
[1] With cranked links, power and breaking load are reduced by 20%.
[2] Only with riveted bolts.

Double-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Special chain steels.

High-quality duplex roller chains, pre-stretched according to DIN.
Notes regarding the performance calculation on page 36.
Waisted link plates (size 06 with straight link plates).
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.

Temperature range: -20°C to +120°C.
Other temperatures are possible if special grease is used.



Ordering Details: e.g.: Product No. 120 000 00, Double-Strand Roller Chain, 05 B-2

DIN ISO-No.	Product No.	Pitch x Inner Width $p \times b_{1min}$ mm			inch	Inner Link Width b_2 mm	Roller-Ø d_1 mm	Width b_5 mm	Transverse Pitch P_t mm	Projection b_7 [2] mm	Breaking Load min. N	Weight kg/m
05 B-2	**120 000 00**	8,0	x	3,0	-	4,77	5,00	14,3	5,64	3,1	7800	0,36
06 B-2 [1]	**121 000 00** [1]	9,525	x	5,72	3/8 x 7/32	8,53	6,35	23,8	10,24	3,3	16900	0,78
08 B-2	**125 000 00**	12,7	x	7,75	1/2 x 5/16	11,30	8,51	31,0	13,92	3,9	31100	1,36
10 B-2	**126 000 00**	15,875	x	9,65	5/8 x 3/8	13,28	10,16	36,2	16,59	4,1	44500	1,82
12 B-2	**127 000 00**	19,05	x	11,68	3/4 x 7/16	15,62	12,07	42,2	19,46	4,6	57800	2,38
16 B-2	**128 000 00**	25,4	x	17,02	1“ x 17,02mm	25,45	15,88	68,0	31,88	5,4	106000	5,40
20 B-2	**129 000 00**	31,75	x	19,56	1 1/4 x 3/4	29,01	19,05	79,7	36,45	6,1	170000	7,20
24 B-2	**129 500 00**	38,1	x	25,4	1 1/2 x 1	37,92	25,40	101,8	48,36	6,6	280000	13,50

[1] With straight link plates.
[2] Maximum values at the link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Double-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Special chain steels.

No. 11/E: Connecting Link with Spring Clip
Nr. 10/S: Connecting Link with Cottered Pin

No. 12/L: Cranked Link with Cottered Pin

No. 15/C: Cranked Double Link

No. 4/B: Inner Link (2 pieces required)

Details: e.g.:
Product No. 120 003 00,
Connecting Link No. 11/E, 05 B-2

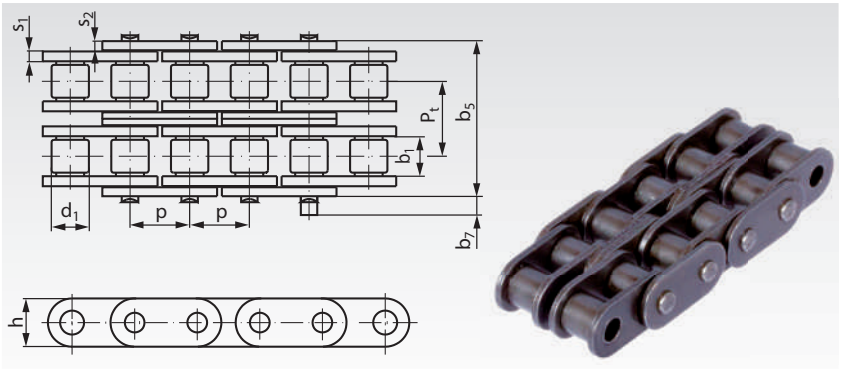
DIN ISO No.	Product No. Conn. Link No. 11/E	Product No. Conn. Link No. 10/S	Weight g	Product No. Cranked Link No. 12/L [1]	Weight g	Product No. Crkd. Double No. 15/C [1]	Weight g	Product No. Inner Link No. 4/B [2]	Weight g
05 B-2	**120 003 00**	-	2	-	-	**120 005 00**	6	**100 801 00**	1,4
06 B-2	**121 003 00**	-	7	**121 004 00**	7	**121 005 00**	15	**101 001 00**	4
08 B-2	**125 003 00**	-	17	**125 004 00**	18	**125 005 00**	38	**105 001 00**	9
10 B-2	**126 003 00**	-	24	**126 004 00**	30	**126 005 00**	62	**106 001 00**	16
12 B-2	**127 003 00**	-	39	**127 004 00**	47	**127 005 00**	99	**107 001 00**	25
16 B-2	**128 003 00**	-	122	**128 004 00**	137	**128 005 00**	183	**108 001 00**	79
20 B-2	-	**129 002 00**	163	**129 004 00**	183	-	-	**109 001 00**	129
24 B-2	-	**129 502 00**	305	**129 504 00**	343	-	-	**110 001 00**	268

[1] With cranked links, power and breaking load are reduced by 20%.
[2] 2 pieces required.

Double-Strand Roller Chains Similar to DIN ISO 606 (ex DIN 8187), with Straight Plates

Material: Special chain steels.

High-quality duplex roller chains, pre-stretched according to DIN.
Notes regarding the performance calculation on page 36.
With straight link plates, to use as conveyor chain or drive chain.
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.



Temperature range: -20°C to +120°C.
Other temperatures are possible if special grease is used.

Ordering Details: e.g.: Product No. 125 000 00GL,
Double-Strand Roller Chain, 08 B-2-GL, with straight plates

DIN ISO-No.	Product No.	Pitch x Inner Width p x b_{1min} mm			inch	Plate Height h max. mm	Plate Thickness s_1/s_2 max. mm	Roller-Ø d_1 mm	Width over Pin b_5 mm	Transv. Pitch P_t mm	Projection over link b_7 [1] mm	Breaking Load min. N	Weight kg/m
08 B-2-GL	**125 000 00GL**	12,7	x	7,75	1/2 x 5/16	11,8	1,6	8,51	31,2	13,92	3,9	31100	1,45
10 B-2-GL	**126 000 00GL**	15,875	x	9,65	5/8 x 3/8	14,7	1,7	10,16	36,1	16,59	4,1	44500	2,00
12 B-2-GL	**127 000 00GL**	19,05	x	11,68	3/4 x 7/16	16,0	1,85	12,07	42,0	19,46	4,6	57800	2,62
16 B-2-GL	**128 000 00GL**	25,4	x	17,02	1" x 17,02mm	21,0	4,15/3,1	15,88	68,0	31,88	5,4	106000	6,10
16 B-2-GLH	**128 000 00GLH**	25,4	x	17,02	1" x 17,02mm	24,0	4,15/3,1	15,88	68,0	31,88	5,4	106000	6,90
20 B-2-GL	**129 000 00GL**	31,75	x	19,56	1 1/4 x 3/4	26,4	4,50/3,5	19,05	79,7	36,45	6,1	170000	8,23

[1] Maximum values at the link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Double-Strand Roller Chains Similar to DIN ISO 606 (ex DIN 8187), with Straight Plates

Material: Special chain steels.

Details: e.g.:
Product No. 125 003 00GL,
Connecting Link No. 11/E, 08 B-2-GL

No. 11/E: Connecting Link with Spring Clip

No. 12/L: Cranked Link with Cottered Pin

No. 4/B: Inner Link (2 pieces required)

DIN ISO No.	Product No. Conn. Link No. 11/E	Weight g	Product No. Cranked Link No. 12/L [1]	Weight g	Product No. Inner Link No. 4/B [2]	Weight g
08 B-2-GL	**125 003 00GL**	19	**125 004 00**	18	**105 001 00GL**	10
10 B-2-GL	**126 003 00GL**	31	**126 004 00**	30	**106 001 00GL**	18
12 B-2-GL	**127 003 00GL**	44	**127 004 00**	47	**107 001 00GL**	28
16 B-2-GL	**128 003 00GL**	135	**128 004 00**	137	**108 001 00GL**	83
16 B-2-GLH	**128 003 00GLH**	154	**-**	-	**108 001 00GLH**	93
20 B-2-GL	**129 003 00GL**	235	**129 004 00**	343	**109 001 00GL**	141

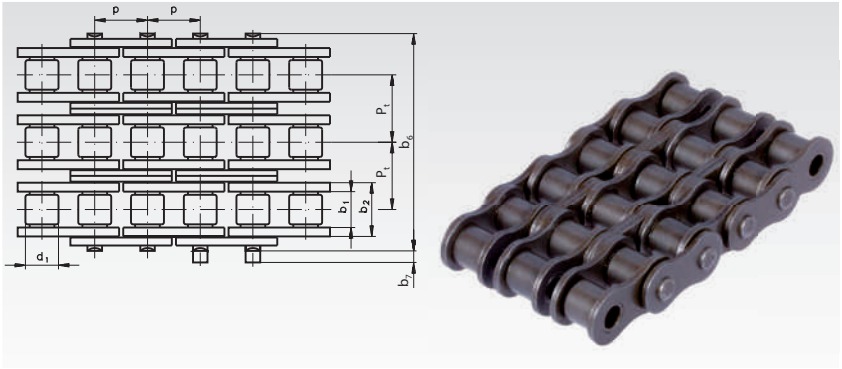
[1] With cranked links, power and breaking loads are reduced by 20%.
[2] 2 pieces required.

Triple-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Special chain steels.

High-quality triplex roller chains, pre-stretched according to DIN. Notes regarding the performance calculation on page 36.
Waisted link plates (size 06 with straight link plates).
Chains are supplied with an uneven number of links, with inner links at both ends. Connecting links must be ordered separately.

Temperature range: -20°C to +120°C.
Other temperatures are possible if special grease is used.



Ordering Details: e.g.: Product No. 131 000 00, Triple-Strand Roller Chain, 06 B-3

DIN ISO-No.	Product No.	Pitch x Inner Width p x b_{1min} mm			inch	Inner Link Width b_2 mm	Roller-Ø d_1 mm	Width b_6 mm	Transverse Pitch P_t mm	Projection b_7 [2] mm	Breaking Load min. N	Weight kg/m
06 B-3 [1]	**131 000 00** [1]	9,525	x	5,72	3/8 x 7/32	8,53	6,35	34,4	10,24	3,3	24900	1,18
08 B-3	**135 000 00**	12,7	x	7,75	1/2 x 5/16	11,30	8,51	44,9	13,92	3,9	44500	2,0
10 B-3	**136 000 00**	15,875	x	9,65	5/8 x 3/8	13,28	10,16	52,8	16,59	4,1	66700	2,8
12 B-3	**137 000 00**	19,05	x	11,68	3/4 x 7/16	15,62	12,07	61,7	19,46	4,6	86700	3,8
16 B-3	**138 000 00**	25,4	x	17,02	1" x 17,02mm	25,45	15,88	99,9	31,88	5,4	160000	8,0

[1] With straight link plates.
[2] Maximum values at the connecting link.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!). Connecting links have to be ordered separately.

Connecting Links for Triple-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material:
Special chain steels.

No. 11/E: Connecting Link with Spring Clip

No. 12/L: Cranked Link with Cottered Pin

No. 4/B: Inner Link (3 Pieces Required)

Ordering Details: e.g.: Product No. 131 003 00, Connecting Link No. 11/E, 06 B-3

DIN ISO No.	Product No. Connecting Link No. 11/E	Weight g	Product No. Crkd.. Link No. 12/L [1]	Weight g	Product No. Inner Link No. 4/B [2]	Weight g
06 B-3	**131 003 00**	9	**131 004 00**	11	**101 001 00**	4
08 B-3	**135 003 00**	26	**135 004 00**	27	**105 001 00**	9
10 B-3	**136 003 00**	36	**136 004 00**	45	**106 001 00**	16
12 B-3	**137 003 00**	60	**137 004 00**	71	**107 001 00**	25
16 B-3	**138 003 00**	183	**138 004 00**	210	**108 001 00**	79

[1] With cranked links, power and breaking load are reduced by 20%.

[2] 3 pieces required.

Roller Chains with Straight Attachments DIN ISO 606 (ex DIN 8187-2), M1, 2 x p

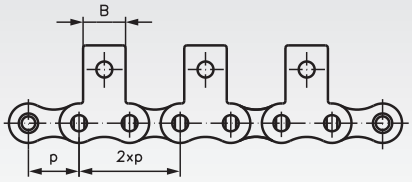
Attachment distance 2 x p
(attachment at every outer link),
either one-sided or two-sided.

Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

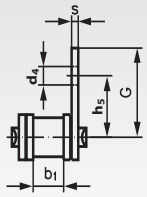
Connecting links M1 have to be ordered separately (see below).

Ordering Details, e.g., Product No.: 101 000 31, Straight Attachments-Roller Chain 06 B-1-M1, One-Sided on the Outer Link, Distance 2xp

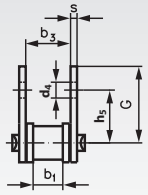
M1 = Slim Version, 1 Mounting Hole



Straight Attachments, M1, 1 Mounting Hole



One-Sided



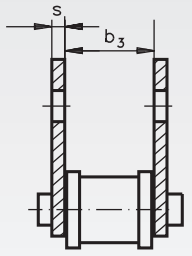
Two- Sided

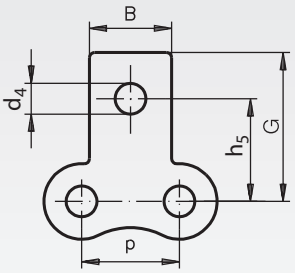
DIN ISO No.	Product No. One-Sided 2 x p	Product No. Two-Sided 2 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 31**	**101 000 32**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	8,0	1,2	8,66	0,45	0,49
08 B-1	**105 000 31**	**105 000 32**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	9,5	1,6	11,43	0,75	0,81
10 B-1	**106 000 31**	**106 000 32**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	14,3	1,7	13,41	1,02	1,12
12 B-1	**107 000 31**	**107 000 32**	3/4 x 7/16"	19,05	11,68	21,0	26,6	6,6	16,0	1,8	15,75	1,28	1,41
16 B-1	**108 000 31**	**108 000 32**	1"x17,02mm	25,4	17,02	23,0	31,8	6,6	19,1	2,8	25,6	2,93	3,14

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!).
Connecting links have to be ordered separately.

Connecting links M1 with spring clip, with Straight Attachments DIN ISO 606 (ex DIN 8187-2)






One-Sided


Two-Sided

Ordering Details, e.g., Product No. 101 003 31, Connecting Link M1, one-sided

M1 = Slim Version, 1 Mounting Hole

DIN ISO	Product No. One-Sided	Product No. Two-Sided	p mm	h_5 mm	G* mm	d_4 mm	B* mm	s min.* mm	b_3 min. mm	Weight* 1-Sided g	Weight* 2-Sided g
06 B-1**	**101 003 31**	**101 003 32**	9,525	9,53	13,5	3,5	8,0	1,2	8,66	5	5,6
08 B-1	**105 003 31**	**105 003 32**	12,7	13,0	17,9	4,5	9,5	1,6	11,43	11,5	13,9
10 B-1	**106 003 31**	**106 003 32**	15,875	16,5	21,9	5,5	14,3	1,7	13,41	18,1	21,2
12 B-1	**107 003 31**	**107 003 32**	19,05	21,0	26,6	6,6	16,0	1,8	15,75	24	28
16 B-1	**108 003 31**	**108 003 32**	25,4	23,0	31,80	6,6	19,1	2,8	25,6	78	89

* The marked dimensions are not listed in the DIN and may vary a little.
** This size is not listed in the DIN.

Roller Chains with Straight Attachments DIN ISO 606 (ex DIN 8187-2), M1, 4 x p

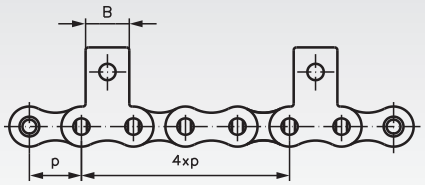
Attachment distance 4 x p
(attachment at every second outer link),
either one-sided or two-sided.

Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

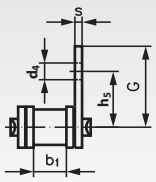
Connecting links (e.g. no.11/E) have to be ordered separately (see page 37).

Ordering Details, e.g., Product No.: 101 000 33, Straight Attachments-Roller Chain 06 B-1-M1, One-Sided on the Outer Link, Distance 4 x p

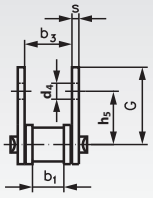
M1 = Slim Version, 1 Mounting Hole



Straight Attachments, M1, 1 Mounting Hole



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 4 x p	Product No. Two-Sided 4 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 33**	**101 000 34**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	8,0	1,2	8,66	0,45	0,49
08 B-1	**105 000 33**	**105 000 34**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	9,5	1,6	11,43	0,75	0,81
10 B-1	**106 000 33**	**106 000 34**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	14,3	1,7	13,41	1,02	1,12
12 B-1	**107 000 33**	**107 000 34**	3/4 x 7/16"	19,05	11,68	21,0	26,6	6,6	16,0	1,8	15,75	1,28	1,41
16 B-1	**108 000 33**	**108 000 34**	1"x17,02mm	25,4	17,02	23,0	31,8	6,6	19,1	2,8	25,6	2,93	3,14

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Straight Attachments DIN ISO 606 (ex DIN 8187-2), M1, 6 x p

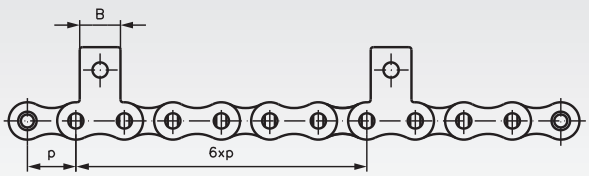
Attachment distance 6 x p
(attachment at every third outer link),
either one-sided or two-sided.

Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

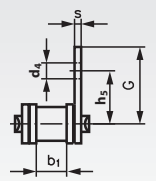
Connecting links (e.g. no.11/E) have to be ordered separately (see page 37).

Ordering Details, e.g., Product No.: 101 000 35, Straight Attachments-Roller Chain 06 B-1-M1, One-Sided on the Outer Link, Distance 6 x p

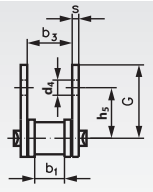
M1 = Slim Version, 1 Mounting Hole



Straight Attachments, M1, 1 Mounting Hole



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 6 x p	Product No. Two-Sided 6 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 35**	**101 000 36**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	8,0	1,2	8,66	0,45	0,49
08 B-1	**105 000 35**	**105 000 36**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	9,5	1,6	11,43	0,75	0,81
10 B-1	**106 000 35**	**106 000 36**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	14,3	1,7	13,41	1,02	1,12
12 B-1	**107 000 35**	**107 000 36**	3/4 x 7/16"	19,05	11,68	21,0	26,6	6,6	16,0	1,8	15,75	1,28	1,41
16 B-1	**108 000 35**	**108 000 36**	1"x17,02mm	25,4	17,02	23,0	31,8	6,6	19,1	2,8	25,6	2,93	3,14

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Straight Attachments DIN ISO 606 (ex DIN 8187-2), M2, 2 x p

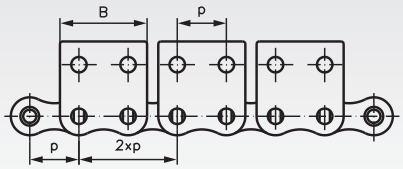
Attachment distance 2 x p
(attachment at every outer link),
either one-sided or two-sided.

Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

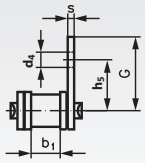
Connecting links M2 have to be ordered separately (see below).

Ordering Details, e.g., Product No. 101 000 51, Wide Straight Attachments-Roller Chain 06 B-1-M2, One-Sided on the Outer Link, Distance 2 x p

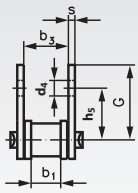
M2 = Wide Version, 2 Mounting Holes



Straight Attachments, M2, 2 Mounting Holes



One-Sided



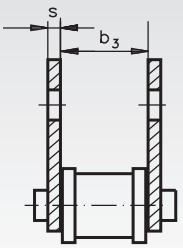
Two-Sided

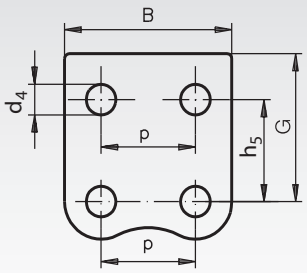
DIN ISO No.	Product No. One-Sided 2 x p	Product No. Two-Sided 2 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 51**	**101 000 52**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	17,7	1,2	8,66	0,51	0,61
08 B-1	**105 000 51**	**105 000 52**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	23,2	1,6	11,43	0,84	0,99
10 B-1	**106 000 51**	**106 000 52**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	29,5	1,7	13,41	1,13	1,32
12 B-1	**107 000 51**	**107 000 52**	3/4 x 7/16"	19,05	11,68	21,0	26,6	6,6	33,8	1,8	15,75	1,43	1,70
16 B-1	**108 000 51**	**108 000 52**	1"x 17,02mm	25,4	17,02	23,0	31,8	6,6	46,2	2,8	25,6	3,24	3,76

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!).
Connecting links have to be ordered separately.

Connecting Links M2 with Spring Clip, with Wide Straight Attachments DIN ISO 606 (ex DIN 8187-2)






One-Sided


Two-Sided

Ordering Details, e.g., Product No. 101 003 51, Connecting Link M2, one-sided

M2 = Wide Version, 2 Mounting Holes

DIN ISO	Product No. One-Sided	Product No. Two-Sided	p mm	h_5 mm	G* mm	d_4 mm	B* mm	s min.* mm	b_3 min. mm	Weight* 1-Sided g	Weight* 2-Sided g
06 B-1**	**101 003 51**	**101 003 52**	9,525	9,53	13,5	3,5	17,7	1,2	8,66	5,6	6,9
08 B-1	**105 003 51**	**105 003 52**	12,7	13,0	17,9	4,5	23,2	1,6	11,43	11	18
10 B-1	**106 003 51**	**106 003 52**	15,875	16,5	21,9	5,5	29,5	1,7	13,41	21	30
12 B-1	**107 003 51**	**107 003 52**	19,05	21,0	26,6	6,6	33,8	1,8	15,75	30	40
16 B-1	**108 003 51**	**108 003 52**	25,4	23,0	31,8	6,6	46,2	2,8	25,6	89	117

* The marked dimensions are not listed in the DIN and may vary a little.
** This size is not listed in the DIN.

STAINLESS Stainless Version Page 54

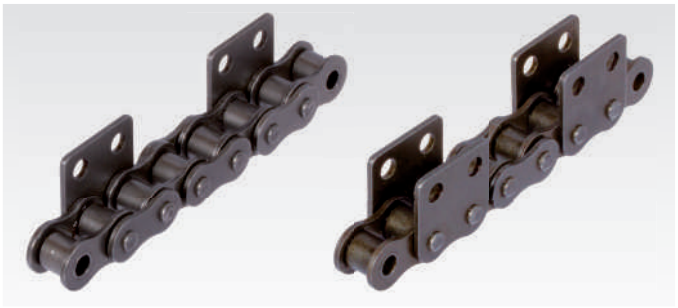
Roller Chains with Straight Attachments DIN ISO 606 (ex DIN 8187-2), M2, 4 x p

Attachment distance 4 x p
(attachment at every second outer link),
either one-sided or two-sided.

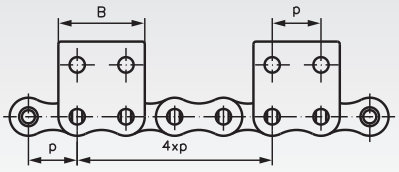
Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

Connecting links (e.g. no.11/E) have to be ordered separately
(see page 37).

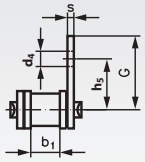
Ordering Details, e.g., Product No. 101 000 53, Wide Straight Attachments-Roller Chain 06 B-1-M2, One-Sided on the Outer Link, Distance 4 x p



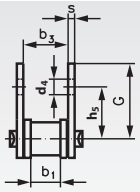
M2 = Wide Version, 2 Mounting Holes



Straight Attachments, M2, 2 Mounting Holes



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 4 x p	Product No. Two-Sided 4 x p	Pitch x Inner Width $p \times b_1$ inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 53**	**101 000 54**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	17,7	1,2	8,66	0,51	0,61
08 B-1	**105 000 53**	**105 000 54**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	23,2	1,6	11,43	0,84	0,99
10 B-1	**106 000 53**	**106 000 54**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	29,5	1,7	13,41	1,13	1,32
12 B-1	**107 000 53**	**107 000 54**	3/4 x 7/16"	19,05	11,68	21,0	26,6	6,6	33,8	1,8	15,75	1,43	1,70
16 B-1	**108 000 53**	**108 000 54**	1" x 17,02mm	25,4	17,02	23,0	31,8	6,6	46,2	2,8	25,6	3,24	3,76

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Straight Attachments DIN ISO 606 (ex DIN 8187-2), M2, 6 x p

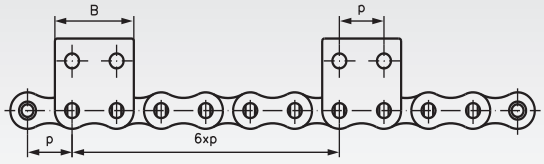
Attachment distance 6 x p
(attachment at every third outer link),
either one-sided or two-sided.

Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

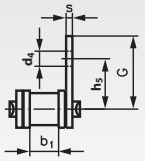
Connecting links (e.g. no.11/E) have to be ordered separately
(see page 37).

Ordering Details, e.g., Product No. 101 000 55, Wide Straight Attachments-Roller Chain 06 B-1-M2, One-Sided on the Outer Link, Distance 6 x p

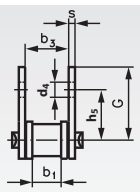
M2 = Wide Version, 2 Mounting Holes



Straight Attachments, M2, 2 Mounting Holes



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 6 x p	Product No. Two-Sided 6 x p	Pitch x Inner Width $p \times b_1$ inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 55**	**101 000 56**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	17,7	1,2	8,66	0,51	0,61
08 B-1	**105 000 55**	**105 000 56**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	23,2	1,6	11,43	0,84	0,99
10 B-1	**106 000 55**	**106 000 56**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	29,5	1,7	13,41	1,13	1,32
12 B-1	**107 000 55**	**107 000 56**	3/4 x 7/16"	19,05	11,68	21,0	26,6	6,6	33,8	1,8	15,75	1,43	1,70
16 B-1	**108 000 55**	**108 000 56**	1" x 17,02mm	25,4	17,02	23,0	31,8	6,6	46,2	2,8	25,6	3,24	3,76

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Bent Attachments DIN ISO 606 (ex DIN 8187-2), K1, 2 x p

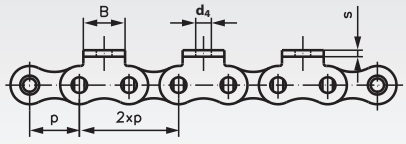
Attachment distance 2 x p
(attachment at every outer link),
either one-sided or two-sided.

Other Attachment distance can be supplied at short notice.
Different attachment sizes and special chains on request.

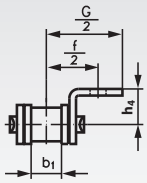
Connecting links K1 have to be ordered separately (see below).

Ordering Details, e.g., Product No. 101 000 01, Roller Chain with Bent Attachments 06 B-1-K1, One-Sided on the Outer Link, Distance 2xp

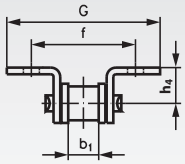
K1 = Slim Version, 1 Mounting Hole



Bent Attachments, K1, 1 Mounting Hole



One-Sided



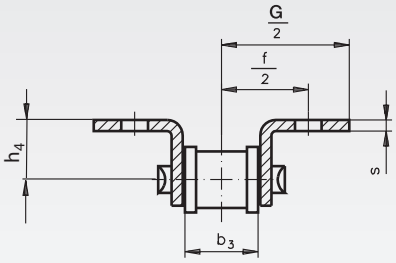
Two-Sided

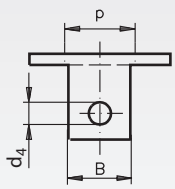
DIN ISO No.	Product No. One-Sided 2 x p	Product No. Two-Sided 2 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 01**	**101 000 02**	3/8 x 7/32"	9,525	5,72	6,5	3,5	9,53	13,5	8,0	1,2	0,45	0,49
08 B-1	**105 000 01**	**105 000 02**	1/2 x 5/16"	12,7	7,75	8,9	4,5	12,7	17,6	9,5	1,6	0,75	0,81
10 B-1	**106 000 01**	**106 000 02**	5/8 x 3/8"	15,875	9,65	10,3	5,5	15,9	22,5	14,3	1,7	1,03	1,12
12 B-1	**107 000 01**	**107 000 02**	3/4 x 7/16"	19,05	11,68	13,5	6,6	19,05	26,2	16,0	1,8	1,27	1,38
16 B-1	**108 000 01**	**108 000 02**	1"x 17,02mm	25,4	17,02	15,9	6,6	25,40	36,3	19,1	2,8	2,94	3,17

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!).
Connecting links have to be ordered separately.

Connecting Links K1 with Spring Clip, with Slim, Bent Attachments DIN ISO 606 (ex DIN 8187-2)





Slim Bent Attachment = Version K1 (view from top, turned).

One-Sided

Two-Sided

Ordering Details, e.g., Product No. 101 003 01, Connecting Link K1, one-sided

K1 = Slim Version, 1 Mounting Hole

DIN ISO	Product No. One-Sided	Product No. Two-Sided	p mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min.* mm	Weight* 1-Sided g	Weight* 2-Sided g
06 B-1**	**101 003 01**	**101 003 02**	9,525	6,5	3,5	9,53	13,5	8,0	1,2	5,1	5,7
08 B-1	**105 003 01**	**105 003 02**	12,7	8,9	4,5	12,7	17,6	9,5	1,6	11,2	13,6
10 B-1	**106 003 01**	**106 003 02**	15,875	10,3	5,5	15,9	22,5	14,3	1,7	17,4	21,5
12 B-1	**107 003 01**	**107 003 02**	19,05	13,5	6,6	19,05	26,2	16,0	1,8	23	28
16 B-1	**108 003 01**	**108 003 02**	25,4	15,9	6,6	25,4	36,3	19,1	2,8	75	89

* The marked dimensions are not listed in the DIN and may vary a little.
** This size is not listed in the DIN.

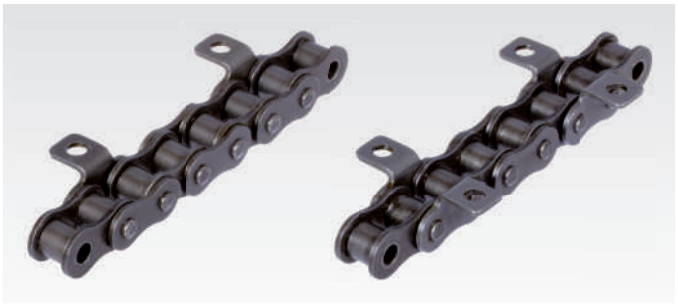
Roller Chains with Bent Attachments DIN ISO 606 (ex DIN 8187-2), K1, 4 x p

Attachment distance 4 x p
(attachment at every second outer link),
either one-sided or two-sided.

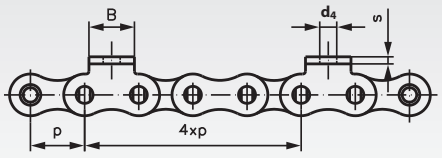
Other Attachment distance can be supplied at short notice.
Different attachment sizes and special chains on request.

Connecting links (e.g. no.11/E) have to be ordered separately
(see page 37).

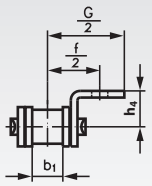
Ordering Details, e.g., Product No. 101 000 03, Roller Chain with Bent Attachments 06 B-1-K1, One-Sided on the Outer Link, Distance 4 x p



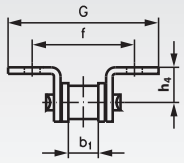
K1 = Slim Version, 1 Mounting Hole



Bent Attachments, K1, 1 Mounting Hole



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 4 x p	Product No. Two-Sided 4 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 03**	**101 000 04**	3/8 x 7/32"	9,525	5,72	6,5	3,5	9,53	13,5	8,0	1,2	0,45	0,49
08 B-1	**105 000 03**	**105 000 04**	1/2 x 5/16"	12,7	7,75	8,9	4,5	12,7	17,6	9,5	1,6	0,75	0,81
10 B-1	**106 000 03**	**106 000 04**	5/8 x 3/8"	15,875	9,65	10,3	5,5	15,9	22,5	14,3	1,7	1,03	1,12
12 B-1	**107 000 03**	**107 000 04**	3/4 x 7/16"	19,05	11,68	13,5	6,6	19,05	26,2	16,0	1,8	1,27	1,38
16 B-1	**108 000 03**	**108 000 04**	1" x 17,02mm	25,4	17,02	15,9	6,6	25,4	36,3	19,1	2,8	2,94	3,17

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Bent Attachments DIN ISO 606 (ex DIN 8187-2), K1, 6 x p

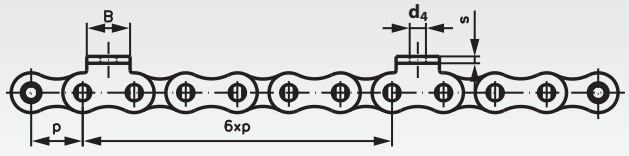
Attachment distance 6 x p
(attachment at every third outer link),
either one-sided or two-sided.

Other Attachment distance can be supplied at short notice.
Different attachment sizes and special chains on request.

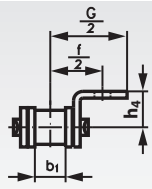
Connecting links (e.g. no.11/E) have to be ordered separately
(see page 37).

Ordering Details, e.g., Product No. 101 000 05, Roller Chain with Bent Attachments 06 B-1-K1, One-Sided on the Outer Link, Distance 6 x p

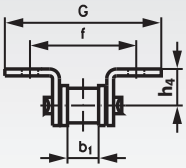
K1 = Slim Version, 1 Mounting Hole



Bent Attachments, K1, 1 Mounting Hole



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 6 x p	Product No. Two-Sided 6 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 05**	**101 000 06**	3/8 x 7/32"	9,525	5,72	6,5	3,5	9,53	13,5	8,0	1,2	0,45	0,49
08 B-1	**105 000 05**	**105 000 06**	1/2 x 5/16"	12,7	7,75	8,9	4,5	12,7	17,6	9,5	1,6	0,75	0,81
10 B-1	**106 000 05**	**106 000 06**	5/8 x 3/8"	15,875	9,65	10,3	5,5	15,9	22,5	14,3	1,7	1,03	1,12
12 B-1	**107 000 05**	**107 000 06**	3/4 x 7/16"	19,05	11,68	13,5	6,6	19,05	26,2	16,0	1,8	1,27	1,38
16 B-1	**108 000 05**	**108 000 06**	1" x 17,02mm	25,4	17,02	15,9	6,6	25,4	36,3	19,1	2,8	2,94	3,17

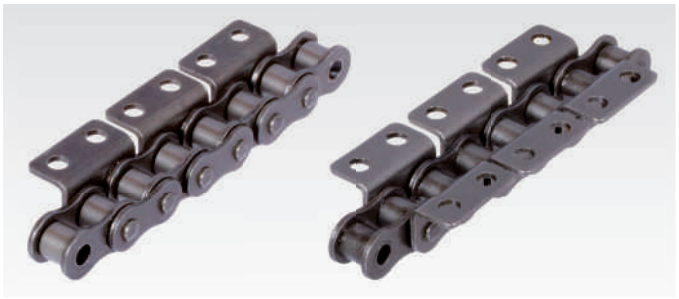
* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Bent Attachments DIN ISO 606 (ex DIN 8187-2), K2, 2 x p

Attachment distance 2 x p
(attachment at every outer link),
either one-sided or two-sided.

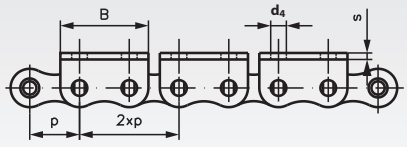
Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

Connecting links K2 have to be ordered separately (see below).

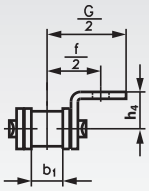


Ordering Details, e.g., Product No. 101 000 21, Roller Chain with Bent Attachments 06 B-1-K2, One-Sided on the Outer Link, Distance 2xp

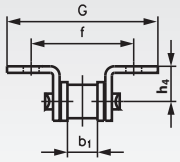
K2 = Wide Version, 2 Mounting Holes



Bent Attachments, K2, 2 Mounting Holes



One-Sided



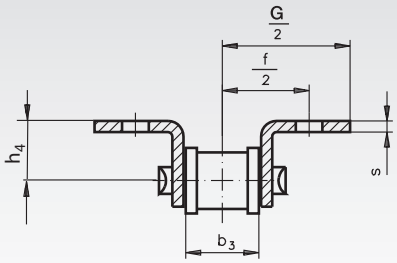
Two-Sided

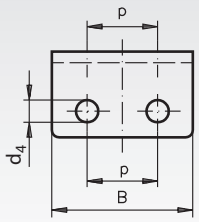
DIN ISO No.	Product No. One-Sided 2 x p	Product No. Two-Sided 2 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 21**	**101 000 22**	3/8 x 7/32“	9,525	5,72	6,5	3,5	9,53	13,26	17,6	1,2	0,51	0,61
08 B-1	**105 000 21**	**105 000 22**	1/2 x 5/16“	12,7	7,75	8,9	4,5	12,7	17,6	23,2	1,6	0,84	0,99
10 B-1	**106 000 21**	**106 000 22**	5/8 x 3/8“	15,875	9,65	10,3	5,5	15,9	22,9	29,5	1,6	1,13	1,30
12 B-1	**107 000 21**	**107 000 22**	3/4 x 7/16“	19,05	11,68	13,5	6,6	19,05	26,2	33,8	1,8	1,40	1,64
16 B-1	**108 000 21**	**108 000 22**	1“ x 17,02mm	25,4	17,02	15,9	6,6	25,4	36,3	46,2	2,8	3,26	3,82

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!).
Connecting links have to be ordered separately.

Connecting Links K2 with Spring Clip, with Wide, Bent Attachments DIN ISO 606 (ex DIN 8187-2)





Wide Bent Attachment = Version K2 (view from top, turned).

One-Sided

Two-Sided

Ordering Details, e.g., Product No. 101 003 21, Connecting Link K2, one-sided

K2 = Wide Version, 2 Mounting Holes

DIN ISO	Product No. One-Sided	Product No. Two-Sided	p mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min.* mm	Weight* 1-Sided g	Weight* 2-Sided g
06 B-1**	**101 003 21**	**101 003 22**	9,525	6,5	3,5	9,53	13,26	17,6	1,2	6,2	6,2
08 B-1	**105 003 21**	**105 003 22**	12,7	8,9	4,5	12,7	17,6	23,2	1,6	13,7	18,4
10 B-1	**106 003 21**	**106 003 22**	15,875	10,3	5,5	15,9	22,9	29,5	1,6	21	29
12 B-1	**107 003 21**	**107 003 22**	19,05	13,5	6,6	19,05	26,2	33,8	1,8	29	40
16 B-1	**108 003 21**	**108 003 22**	25,4	15,9	6,6	25,4	36,3	46,2	2,8	88	116

* The marked dimensions are not listed in the DIN and may vary a little.
** This size is not listed in the DIN.

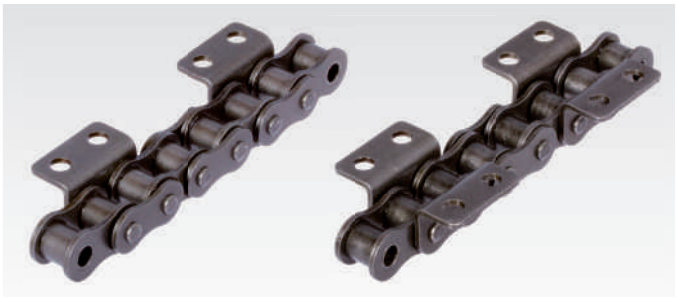
STAINLESS Stainless Version Page 55

Roller Chains with Bent Attachments DIN ISO 606 (ex DIN 8187-2), K2, 4 x p

Attachment distance 4 x p
(attachment at every second outer link),
either one-sided or two-sided.

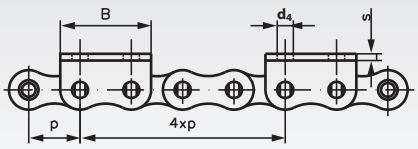
Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

Connecting links (e.g. no.11/E) have to be ordered separately (see page 37).

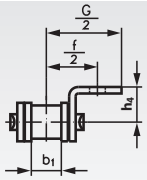


Ordering Details, e.g., Product No. 101 000 23, Roller Chain with Bent Attachments 06 B-1-K2, One-Sided on the Outer Link, Distance 4 x p

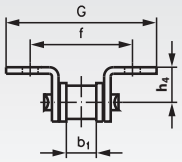
K2 = Wide Version, 2 Mounting Holes



Bent Attachments, K2, 2 Mounting Holes



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 4 x p	Product No. Two-Sided 4 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 23**	**101 000 24**	3/8 x 7/32"	9,525	5,72	6,5	3,5	9,53	13,26	17,6	1,2	0,51	0,61
08 B-1	**105 000 23**	**105 000 24**	1/2 x 5/16"	12,7	7,75	8,9	4,5	12,7	17,6	23,2	1,6	0,84	0,99
10 B-1	**106 000 23**	**106 000 24**	5/8 x 3/8"	15,875	9,65	10,3	5,5	15,9	22,9	29,5	1,6	1,13	1,30
12 B-1	**107 000 23**	**107 000 24**	3/4 x 7/16"	19,05	11,68	13,5	6,6	19,05	26,2	33,8	1,8	1,40	1,64
16 B-1	**108 000 23**	**108 000 24**	1" x 17,02mm	25,4	17,02	15,9	6,6	25,4	36,3	46,2	2,8	3,26	3,82

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Bent Attachments DIN ISO 606 (ex DIN 8187-2), K2, 6 x p

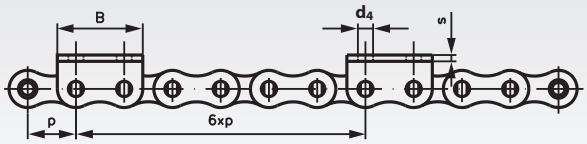
Attachment distance 6 x p
(attachment at every third outer link),
either one-sided or two-sided.

Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

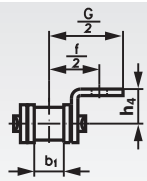
Connecting links (e.g. no.11/E) have to be ordered separately (see page 37).

Ordering Details, e.g., Product No. 101 000 25, Roller Chain with Bent Attachments 06 B-1-K2, One-Sided on the Outer Link, Distance 6 x p

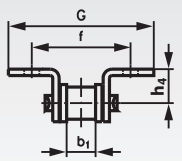
K2 = Wide Version, 2 Mounting Holes



Bent Attachments, K2, 2 Mounting Holes



One-Sided



Two-Sided

DIN ISO No.	Product No. One-Sided 6 x p	Product No. Two-Sided 6 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 000 25**	**101 000 26**	3/8 x 7/32"	9,525	5,72	6,5	3,5	9,53	13,26	17,6	1,2	0,51	0,61
08 B-1	**105 000 25**	**105 000 26**	1/2 x 5/16"	12,7	7,75	8,9	4,5	12,7	17,6	23,2	1,6	0,84	0,99
10 B-1	**106 000 25**	**106 000 26**	5/8 x 3/8"	15,875	9,65	10,3	5,5	15,9	22,9	29,5	1,6	1,13	1,30
12 B-1	**107 000 25**	**107 000 26**	3/4 x 7/16"	19,05	11,68	13,5	6,6	19,05	26,2	33,8	1,8	1,40	1,64
16 B-1	**108 000 25**	**108 000 26**	1" x 17,02mm	25,4	17,02	15,9	6,6	25,4	36,3	46,2	2,8	3,26	3,82

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Roller Chains with Straight Attachments Similar to DIN ISO 606 (ex DIN 8187-2), M2, 2 x p, Stainless

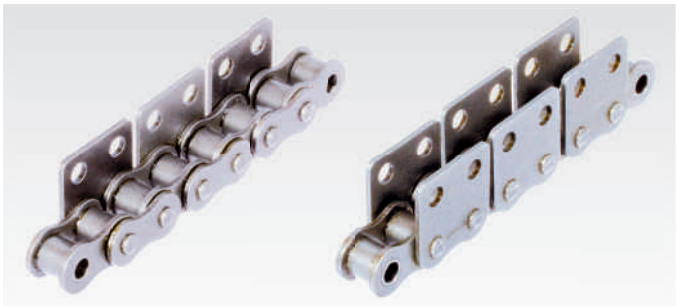
Material: Stainless steel 1.4301.

STAINLESS

Attachment distance 2 x p
(attachment at every outer link),
either one-sided or two-sided.

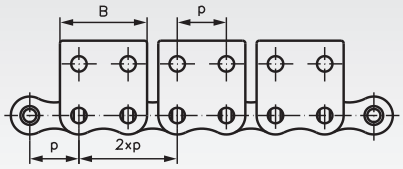
Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

Connecting links M2 have to be ordered separately (see below).

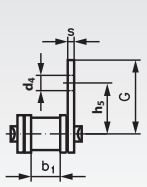


Ordering Details, e.g., Product No. 101 990 51, Wide Straight Attachments-Roller Chain 06 B-1-M2, One-Sided on the Outer Link, Distance 2 x p, stainless

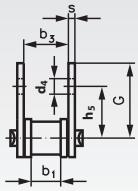
M2 = Wide Version, 2 Mounting Holes



Straight Attachments, M2, 2 Mounting Holes



One-Sided



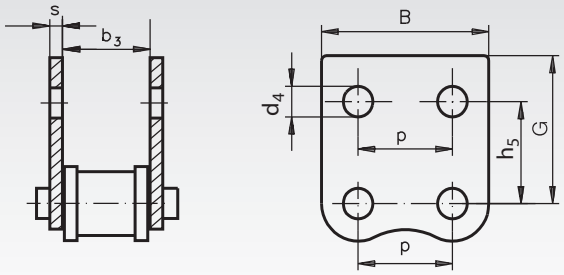
Two-Sided

DIN ISO No.	Product No. One-Sided 2 x p	Product No. Two-Sided 2 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_5 mm	G* mm	d_4 mm	B* mm	s min* mm	$b_3$min. mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 990 51**	**101 990 52**	3/8 x 7/32"	9,525	5,72	9,53	13,5	3,5	17,7	1,2	8,66	0,51	0,61
08 B-1	**105 990 51**	**105 990 52**	1/2 x 5/16"	12,7	7,75	13,0	17,9	4,5	23,2	1,6	11,43	0,84	0,99
10 B-1	**106 990 51**	**106 990 52**	5/8 x 3/8"	15,875	9,65	16,5	21,9	5,5	29,5	1,7	13,41	1,13	1,32

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!).
Connecting links have to be ordered separately.

Connecting Links M2 with Spring Clip, with Wide Straight Attachments Similar to DIN ISO 606, Stainless



One-Sided

Two-Sided

Ordering Details, e.g., Product No. 101 993 51, Connecting Link M2, one-sided, stainless

STAINLESS

M2 = Wide Version, 2 Mounting Holes

DIN ISO	Product No. One-Sided	Product No. Two-Sided	p mm	h_5 mm	G* mm	d_4 mm	B* mm	s min.* mm	b_3 min. mm	Weight* 1-Sided g	Weight* 2-Sided g
06 B-1**	**101 993 51**	**101 993 52**	9,525	9,53	13,5	3,5	17,7	1,2	8,66	5,6	6,9
08 B-1	**105 993 51**	**105 993 52**	12,7	13,0	17,9	4,5	23,2	1,6	11,43	11	18
10 B-1	**106 993 51**	**106 993 52**	15,875	16,5	21,9	5,5	29,5	1,7	13,41	21	30
12 B-1	**107 993 51**	**107 993 52**	19,05	21,0	26,6	6,6	33,8	1,8	15,75	30	40
16 B-1	**108 993 51**	**108 993 52**	25,4	23,0	31,8	6,6	46,2	2,8	25,6	89	117

* The marked dimensions are not listed in the DIN and may vary a little.
** This size is not listed in the DIN.

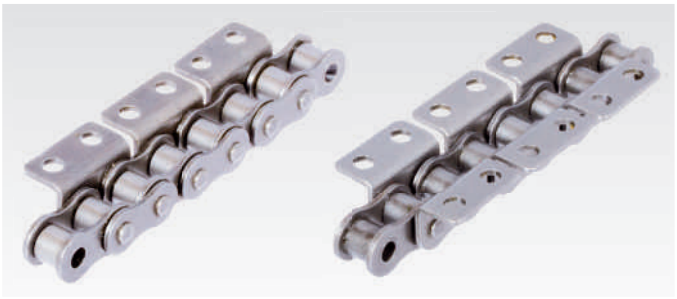
Roller Chains with Bent Attachments Similar to DIN ISO 606 (ex DIN 8187-2), K2, 2 x p, Stainless

Attachment distance 2 x p
(attachment at every outer link),
either one-sided or two-sided.

STAINLESS

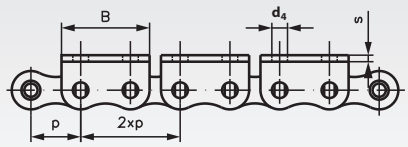
Other attachment distances can be supplied at short notice.
Different attachment sizes and special chains on request.

Connecting links K2 have to be ordered separately (see below).

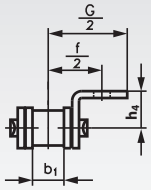


Ordering Details, e.g., Product No. 101 990 21, Roller Chain with Bent Attachments 06 B-1-K2, One-Sided on the Outer Link, Distance 2xp, stainless

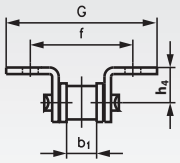
K2 = Wide Version, 2 Mounting Holes



Bent Attachments, K2, 2 Mounting Holes



One-Sided



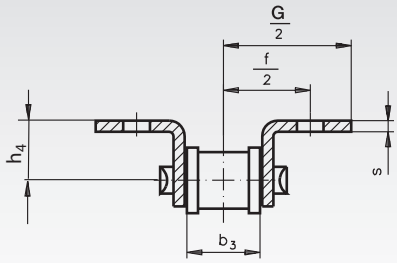
Two-Sided

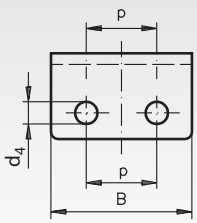
DIN ISO No.	Product No. One-Sided 2 x p	Product No. Two-Sided 2 x p	Pitch x Inner Width p x b_1 inch	Pitch p mm	Inner Width b_1 min. mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min* mm	Weight* 1-Sided kg/m	Weight* 2-Sided kg/m
06 B-1**	**101 990 21**	**101 990 22**	3/8 x 7/32"	9,525	5,72	6,5	3,5	9,53	13,5	17,6	1,2	0,51	0,61
08 B-1	**105 990 21**	**105 990 22**	1/2 x 5/16"	12,7	7,75	8,9	4,5	12,7	17,6	23,2	1,6	0,84	0,99
10 B-1	**106 990 21**	**106 990 22**	5/8 x 3/8"	15,875	9,65	10,3	5,5	15,9	22,5	29,5	1,7	1,13	1,30

* The marked dimensions are not listed in the DIN and may vary a little.
Attachments with dimensions according to company standard are still available on request.
** This size is not listed in the DIN.

Attention please: Packing Unit 5m
If special lengths are needed, please tell us the length and the number of links (uneven number!).
Connecting links have to be ordered separately.

Connecting Links K2 with Spring Clip, with Wide, Bent Attachments Similar to DIN ISO 606, Stainless





Wide Bent Attachment = Version K2 (view from top, turned).

One-Sided

Two-Sided

Ordering Details, e.g., Product No. 101 993 21, Connecting Link K2, one-sided, stainless

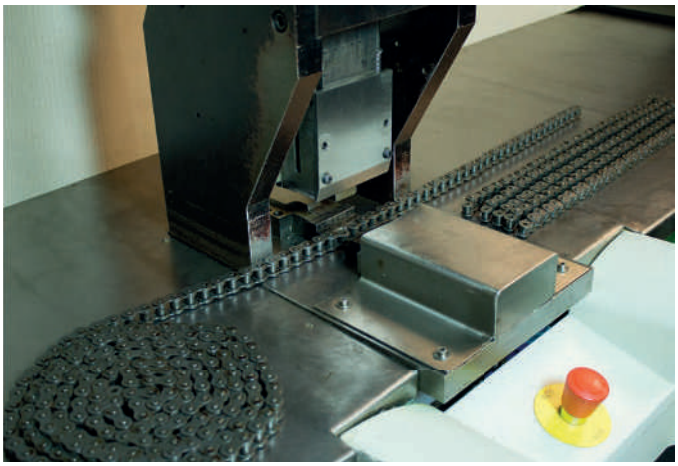
STAINLESS

K2 = Wide Version, 2 Mounting Holes

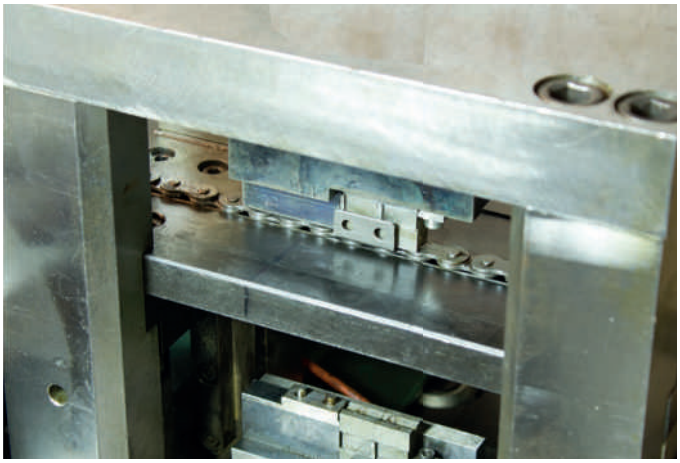
DIN ISO	Product No. One-Sided	Product No. Two-Sided	p mm	h_4 mm	d_4 mm	f/2 mm	G/2* mm	B* mm	s min.* mm	Weight* 1-Sided g	Weight* 2-Sided g
06 B-1**	**101 993 21**	**101 993 22**	9,525	6,5	3,5	9,53	13,5	17,6	1,2	6,2	6,2
08 B-1	**105 993 21**	**105 993 22**	12,7	8,9	4,5	12,7	17,6	23,2	1,6	13,7	18,4
10 B-1	**106 993 21**	**106 993 22**	15,875	10,3	5,5	15,9	22,5	29,5	1,7	21	29
12 B-1	**107 993 21**	**107 993 22**	19,05	13,5	6,6	19,05	26,2	33,8	1,8	29	40
16 B-1	**108 993 21**	**108 993 22**	25,4	15,9	6,6	25,4	36,3	46,2	2,8	88	116

* The marked dimensions are not listed in the DIN and may vary a little.
** This size is not listed in the DIN.

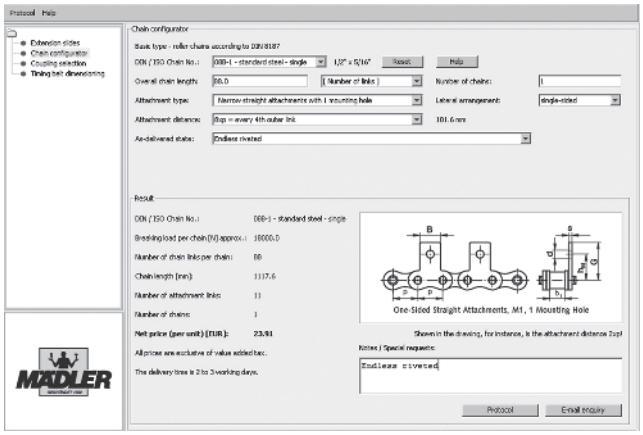
Cutting the Chain:
- Special chain breaking machine with quick tool change for several chain sizes.
- For cutting chains to any fixed length required by the customer.
- From one-off pieces to large series at very short notice.



Riveting the Chain:
- Special chain-riveting machine with quick tool change for several chain sizes.
- Riveting fixed-length chains into endless riveted chains.
- Riveting of attachments to create customized chains matching your special requirements, e.g. with different distances of the attachments.
- From one-off pieces to large series at very short notice.



Chain Configurator on the Internet:
- At www.maedler.de in the section ***MÄDLER***®-Tools.
- Fast selection of attachments according to DIN ISO 606 (ex DIN 8187-2).
- Selection of chain lengths and attachment distances.
- Printout with detailed description, also stating the price.



Other Special Chains (on request):
- With extended pins in various arrangements, with or without keyway.
- Other attachment shapes (e.g. serrated for use with cardboard packaging material or with extra large carriers to transport round material).
- Roller chains with long links.
- Roller chains of other standards (e.g. Ansi / DIN 8188).

Plastic Guide Rails for Roller Chains DIN ISO 606 (ex DIN 8187)

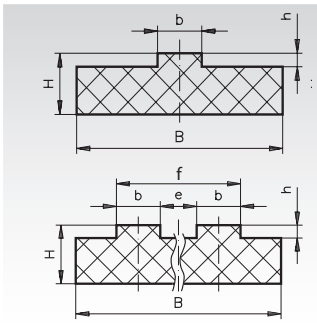
Material: Low pressure polyethylene PE-UHMW.

These side-rails serve to support fast-running roller chains which are lined up exactly; other than steel or metal side-rails they dampen the noise and reduce strong wear.
Special features: wear-resistant, self-lubricating, resistant against diluted acids and diluted alkalines, impact resistant, corrosion resistant, soil resistant and cost efficient.
Stock lengths 1 meter and 2 meter.

Temperature range: -200°C to +60°C (for short time up to +80°C).

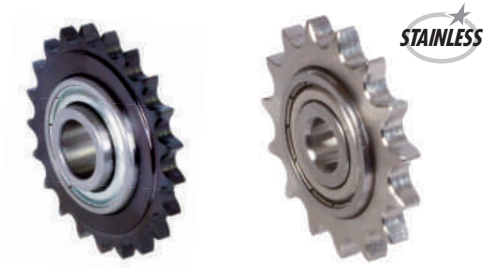
Fixed length and other types on request.

Ordering Details, e.g., Product No. 141 001 00, Guide Rail 06 B-1, length 1m, 15x10mm



DIN ISO	Product No. Length 1m*	Product No. Length 2m	Pitch inch	B mm	H mm	b mm	e mm	f mm	h mm	Weight kg/m
06 B-1	**141 001 00**	**141 101 00**	3/8 x 7/32"	15	10	5,4	-	-	1,5	0,13
083	**141 003 00**	**141 103 00**	1/2 x 3/16"	15	10	4,7	-	-	1,6	0,10
08 B-1	**141 005 00**	**141 105 00**	1/2 x 5/16"	20	10	7,4	-	-	2,2	0,18
08 B-1	**141 005 01**	**141 105 01**	1/2 x 5/16"	20	15	7,4	-	-	2,2	0,26
08 B-1	**141 005 02**	**141 105 02**	1/2 x 5/16"	20	20	7,4	-	-	2,2	0,34
10 B-1	**141 006 00**	**141 106 00**	5/8 x 3/8"	20	15	9,2	-	-	2,6	0,25
10 B-1	**141 006 01**	**141 106 01**	5/8 x 3/8"	20	20	9,2	-	-	2,6	0,33
12 B-1	**141 007 00**	**141 107 00**	3/4 x 7/16"	25	15	11,3	-	-	2,4	0,32
12 B-1	**141 007 01**	**141 107 01**	3/4 x 7/16"	25	20	11,3	-	-	2,4	0,43
16 B-1	**141 008 00**	**141 108 00**	1" x 17,02 mm	40	15	16,5	-	-	3,5	0,45
16 B-1	**141 008 01**	**141 108 01**	1" x 17,02 mm	40	20	16,5	-	-	3,5	0,68
06 B-2	**141 021 00**	**141 121 00**	3/8 x 7/32"	25	10	5,4	4,9	15,7	1,5	0,22
08 B-2	**141 025 00**	**141 125 00**	1/2 x 5/16"	35	10	7,4	6,6	21,4	2,2	0,30
08 B-2	**141 025 01**	**141 125 01**	1/2 x 5/16"	35	15	7,4	6,6	21,4	2,2	0,46
08 B-2	**141 025 02**	**141 125 02**	1/2 x 5/16"	35	20	7,4	6,6	21,4	2,2	0,63
10 B-2	**141 026 00**	**141 126 00**	5/8 x 3/8"	40	10	9,2	7,4	25,8	2,6	0,32
10 B-2	**141 026 01**	**141 126 01**	5/8 x 3/8"	40	15	9,2	7,4	25,8	2,6	0,54
10 B-2	**141 026 02**	**141 126 02**	5/8 x 3/8"	40	20	9,2	7,4	25,8	2,6	0,77
12 B-2	**141 027 01**	**141 127 01**	3/4 x 7/16"	45	15	11,3	8,2	30,8	2,4	0,62
12 B-2	**141 027 02**	**141 127 02**	3/4 x 7/16"	45	20	11,3	8,2	30,8	2,4	0,85
16 B-2	**141 028 01**	**141 128 01**	1" x 17,02 mm	65	15	16,5	15,4	48,4	3,5	0,86
16 B-2	**141 028 02**	**141 128 02**	1" x 17,02 mm	65	20	16,5	15,4	48,4	3,5	1,19
06 B-3	**141 031 00**	**141 131 00**	3/8 x 7/32"	35	10	5,4	4,9	25,9	1,5	0,77
08 B-3	**141 035 00**	**141 135 00**	1/2 x 5/16"	45	10	7,4	6,5	35,2	2,2	0,82
08 B-3	**141 035 01**	**141 135 01**	1/2 x 5/16"	45	15	7,4	6,5	35,2	2,2	1,05
08 B-3	**141 035 02**	**141 135 02**	1/2 x 5/16"	45	20	7,4	6,5	35,2	2,2	1,27
10 B-3	**141 036 00**	**141 136 00**	5/8 x 3/8"	55	10	9,2	7,4	42,4	2,6	0,85
10 B-3	**141 036 01**	**141 136 01**	5/8 x 3/8"	55	15	9,2	7,4	42,4	2,6	1,13
10 B-3	**141 036 02**	**141 136 02**	5/8 x 3/8"	55	20	9,2	7,4	42,4	2,6	1,40
12 B-3	**141 037 00**	**141 137 00**	3/4 x 7/16"	60	15	11,3	8,2	50,2	2,4	0,86
12 B-3	**141 037 01**	**141 137 01**	3/4 x 7/16"	60	20	11,3	8,2	50,2	2,4	1,16

* One end is cut by saw. Length tolerance -5mm.



Tensioning Wheels page 109

Chain Breaker

Ordering Details: e.g.:
Product No. 140 703 00, Chain Breaker 06 B

Product No.	for DIN	Weight g
140 703 00	06 B-1, 06 B-2	910
140 705 00	081, 083, 08 B-1 and 08 B-2	915
140 707 00	10 B-1, 10 B-2, 12 B-1 and 12 B-2	1160
140 708 00	16 B-1	2020

Replacement Pin for Chain Breaker

Product No. Replacement Pin	Matching Chain Breaker	
140 713 00	140 703 00	(Type 455)
140 715 00	140 705 00	(Type 462)
140 717 00	140 707 00	(Type 501-513)
140 718 00	140 708 00	(Type 548)

Chain Puller

Ordering Details: e.g.:
Product No. 140 721 00, Chain Puller 081-12 B

Product No.	for DIN*	Weight g
140 721 00	081, 083, 08 B to 12 B	160
140 722 00	16 B to max. 65 mm	960

*can also be used for similar sizes of other standards and for double-strand and triple-strand chains.

Product No. 140 721 00 with knob.

Product No. 140 722 00 with turn lever.

Chain Lubrication Spray

Ordering Details:
Product No. 140 701 00, Chain Lubrication Spray

Product No.	Contents ml	Weight g
140 701 00	400	465

- special adhesive lubricant for the maintenance of heavy duty and fast running drives or timing chains, plain bearings, open gear units, etc.
- temperature resistant from -10° to +140°C.
- strong adhesive power.
- highly capable of creep.
- drives out water.
- dampens noise.
- protects from wear.
- protects from corrosion.
- silicone-free.

Chain Tensioners page 111

Rolling bearings at MÄDLER®:

Ball bearings, open

Ball bearings, 2Z

Ball bearings, 2RS

SKF®

The premium brand
- for the sophisiticated application

MÄDLER® GEGRÜNDET 1882

The reliable brand
- the inexpensive option

Angular contact ball bearings

Self aligning ball bearings

Cylindrical roller bearings

Spherical roller bearings

Tapered roller bearings

The rolling bearings are to find:

- in this catalog page 416
- on the internet at www.maedler.de

Overview Sprockets for Roller Chains DIN ISO 606 (ex DIN 8187)

Sprockets for Single-Strand Roller Chains (Simplex-Chains)

Single-strand roller chains see page: 35-42, 46-55
Chain tensioners see page: 111
Chain-tensioning wheels see page: 109-115

Other sizes and sprockets with special design on request.

Overview Sprockets for Roller Chains DIN ISO 606 (ex DIN 8187)

Sprockets for Double-Strand Roller Chains (Duplex-Chains)

Double-strand roller chains see page: 43
Double-strand chain tensioners see page: 111
Double-strand chain-tensioning-wheels see page: 115

Other sizes and sprockets with special design on request.

Sprockets for Triple-Strand Roller Chains (Triplex-Chains)

Triple-strand roller chains see page: 45
Triple-strand chain tensioners see page: 112
Triple-strand chain-tensioning-wheel page: 115

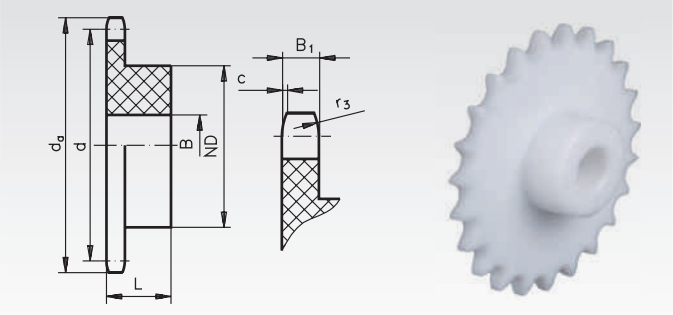
Other sizes and sprockets with special design on request.

Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRK Made from Acetal Resin with One-Sided Hub, Die Cast

Bores ISO H8.
Material specifications see page 821.

Metal inlays at the hub with custom bore, feather keyways or threads for set screw available on request, depending on the amount and size ordered.



Ordering Details: e.g.: Product No. 100 513 00, KRK, Pitch 6 mm, Acetal Resin

Pitch 6 mm, ISO 04, B_1 = 2.6 mm, c = 0.6 mm, r_3 = 6 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	ND mm	L mm	Weight g
100 513 00	13	27,5	25,05	8	18	10	3
100 515 00	15	31,0	28,86	8	21	10	5
100 517 00	17	35,0	32,65	8	24	13	8
100 519 00	19	39,0	36,44	8	24	13	9
100 521 00	21	42,5	40,25	10	28	13	11
100 523 00	23	46,5	44,06	10	28	13	12
100 525 00	25	50,0	47,87	10	28	13	13

Pitch 1/2 x 1/8", ISO 081, B_1 = 3 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	ND mm	L mm	Weight g
102 513 00	13	58,0	53,07	8	24	16	15
102 515 00	15	66,0	61,09	8	24	16	18
102 517 00	17	74,0	69,11	10	28	18	25
102 519 00	19	82,0	77,16	10	28	18	29
102 521 00	21	90,5	85,22	12	32	20	39
102 523 00	23	98,5	93,27	12	32	20	46
102 525 00	25	107,0	101,33	12	32	20	51

Pitch 8 mm, ISO 05 B-1, B_1 = 2.8 mm, c = 0.8 mm, r_3 = 8 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	ND mm	L mm	Weight g
100 563 00	13	36,5	33,42	8	24	13	8
100 565 00	15	41,5	38,48	8	24	13	9
100 567 00	17	46,5	43,53	10	28	14	13
100 569 00	19	52,0	48,61	10	28	14	14
100 571 00	21	57,0	53,68	10	28	14	15
100 573 00	23	62,5	58,75	10	28	14	17
100 575 00	25	67,0	63,83	10	28	14	19

Pitch 1/2 x 3/16", ISO 083, B_1 = 4 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	ND mm	L mm	Weight g
103 513 00	13	58,0	53,07	8	24	17,4	18
103 515 00	15	66,0	61,09	8	24	17,4	23
103 517 00	17	74,0	69,11	10	28	19,4	31
103 519 00	19	82,0	77,16	10	28	19,4	37
103 521 00	21	90,5	85,22	12	32	21,4	48
103 523 00	23	98,5	93,27	12	32	21,4	56
103 525 00	25	107,0	101,33	12	32	21,4	66

Pitch 3/8 x 7/32", ISO 06 B-1, B_1 = 5.3 mm, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	ND mm	L mm	Weight g
101 513 00	13	43,0	39,79	8	24	16	13
101 515 00	15	49,0	45,81	8	24	16	16
101 517 00	17	55,5	51,83	10	28	16	20
101 519 00	19	61,5	57,87	10	28	16	24
101 521 00	21	68,0	63,91	12	32	20	33
101 523 00	23	74,0	69,95	12	32	20	38
101 525 00	25	80,0	76,00	12	32	20	44

Pitch 1/2 x 5/16", ISO 08 B-1, B_1 = 7.2 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	ND mm	L mm	Weight g
105 513 00	13	58,0	53,07	10	28	20	26
105 515 00	15	66,0	61,09	10	28	20	33
105 517 00	17	74,0	69,11	12	32	25	48
105 519 00	19	82,0	77,16	12	32	25	56
105 521 00	21	90,5	85,22	16	36	25	68
105 523 00	23	98,5	93,27	16	36	25	79
105 525 00	25	107,0	101,33	16	36	25	90

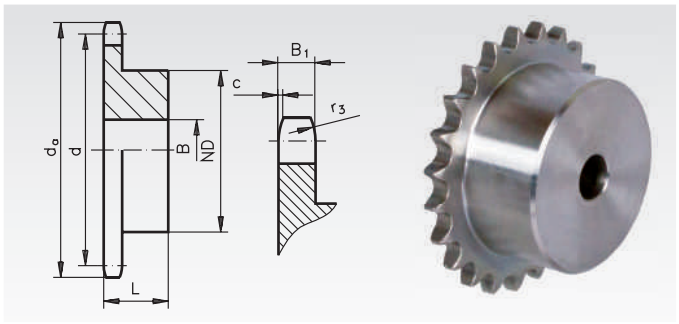
Note regarding pulleys made from acetal resin

Inside these injection-moulded parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRR Made from Stainless Steel with One-Sided Hub

Material: Stainless steel 1.4305.
Teeth milled, pre-bored.



Ordering Details: e.g.: Product No. 100 998 13, Sprocket, Pitch 8 mm, 13 Teeth, Stainless

Pitch 8 mm, ISO 05 B-1, B_1 = 2.8 mm, c = 0.8 mm, r_3 = 8 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
100 998 13	13	36,7	33,42	23	8	13	44
100 998 15	15	41,7	38,48	28	8	13	65
100 998 17	17	46,8	43,53	30	8	14	85
100 998 19	19	51,9	48,61	30	8	14	93
100 998 21	21	57,0	53,68	35	8	14	124
100 998 23	23	62,0	58,75	35	8	14	131
100 998 25	25	67,5	63,83	35	8	14	142

Pitch 5/8 x 3/8", ISO 10 B-1, B_1 = 9.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
106 991 13	13	73,0	66,32	47	12	30	482
106 991 14	14	78,0	71,34	52	12	30	570
106 991 15	15	83,0	76,36	57	12	30	695
106 991 16	16	88,0	81,37	60	14	30	757
106 991 17	17	93,0	86,39	60	14	30	812
106 991 18	18	98,3	91,42	70	14	30	1039
106 991 19	19	103,3	96,45	70	14	30	1175
106 991 20	20	108,4	101,49	75	14	30	1228
106 991 21	21	113,4	106,52	75	16	30	1382
106 991 23	23	123,4	116,58	80	16	30	1500
106 991 25	25	134,0	126,66	80	16	30	1620
106 991 30	30	158,8	151,87	90	20	35	2464

Pitch 3/8 x 7/32", ISO 06 B-1, B_1 = 5.3 mm, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
101 991 13	13	43,0	39,79	28	10	25	123
101 991 15	15	49,3	45,81	34	10	25	188
101 991 16	16	52,3	48,82	37	10	28	241
101 991 17	17	55,3	51,83	40	10	28	287
101 991 18	18	58,3	54,85	43	10	28	331
101 991 19	19	61,3	57,87	45	10	28	370
101 991 20	20	64,3	60,89	46	10	28	380
101 991 21	21	68,0	63,91	48	12	28	391
101 991 23	23	73,5	69,95	52	12	28	502
101 991 25	25	80,0	76,00	57	12	28	592
101 991 30	30	94,7	91,12	60	12	28	787

Pitch 3/4 x 7/16", ISO 12 B-1, B_1 = 11.1 mm, c = 2 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
107 991 13	13	87,5	79,59	58	16	35	830
107 991 15	15	99,8	91,63	70	16	35	1190
107 991 16	16	105,5	97,65	75	16	35	1376
107 991 17	17	111,5	103,67	80	16	35	1569
107 991 18	18	118,0	109,71	80	16	35	1653
107 991 19	19	124,2	115,75	80	16	35	1752
107 991 20	20	129,7	121,78	80	16	35	1837
107 991 21	21	136,0	127,82	90	20	40	2398
107 991 23	23	149,0	139,90	90	20	40	2613
107 991 25	25	160,0	152,00	90	20	40	2853

Pitch 1/2 x 5/16", ISO 08 B-1, B_1 = 7.2 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
105 991 12	12	53,0	49,07	33	10	28	215
105 991 13	13	57,9	53,07	37	10	28	270
105 991 15	15	65,9	61,09	45	10	28	395
105 991 16	16	69,9	65,10	50	12	28	465
105 991 17	17	74,0	69,11	52	12	28	510
105 991 18	18	78,0	73,14	56	12	28	593
105 991 19	19	82,0	77,16	60	12	28	670
105 991 20	20	86,0	81,19	64	12	28	775
105 991 21	21	90,1	85,22	68	14	28	861
105 991 23	23	98,1	93,27	70	14	28	958
105 991 25	25	106,2	101,33	70	14	28	1034
105 991 30	30	126,3	121,50	80	16	30	1480

Pitch 1" x 17.02, ISO 16 B-1, B_1 = 16.2 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
108 991 13	13	117,0	106,12	78	16	40	1830
108 991 15	15	133,0	122,17	92	16	40	2527
108 991 16	16	141,0	130,20	100	20	45	3218
108 991 17	17	149,0	138,22	100	20	45	3417
108 991 18	18	157,0	146,28	100	20	45	3642
108 991 19	19	165,2	154,33	100	20	45	3882
108 991 20	20	173,0	162,38	100	20	45	4102
108 991 21	21	181,2	170,43	110	20	50	5121

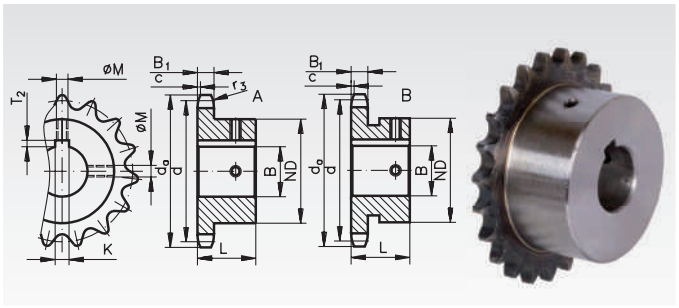
Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRF, Teeth Hardened, Pitch 3/8 x 7/32", ISO 06 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 101 810 12, Sprocket KRF, Pitch 3/8 x 7/32" , 10 Teeth, 12 mm Bore

Pitch 3/8 x 7/32", B_1 = 5.3 mm, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
101 810 12	10	12	B	34,5	30,82	26	20	4	1,8	M4	0,066
101 810 14	10	14	B	34,5	30,82	29	20	5	2,3	M4	0,068
101 811 14	11	14	B	37,5	33,80	29	25	5	2,3	M4	0,144
101 811 15	11	15	B	37,5	33,80	30	25	5	2,3	M4	0,088
101 812 12	12	12	B	40,5	36,80	26	25	4	1,8	M4	0,102
101 812 14	12	14	B	40,5	36,80	29	25	5	2,3	M4	0,108
101 812 15	12	15	B	40,5	36,80	30	25	5	2,3	M4	0,110
101 813 14	13	14	A	43,5	39,80	28	25	5	2,3	M4	0,116
101 813 15	13	15	A	43,5	39,80	28	25	5	2,3	M4	0,110
101 814 14	14	14	A	46,5	42,80	31	25	5	2,3	M4	0,144
101 814 15	14	15	A	46,5	42,80	31	25	5	2,3	M4	0,140
101 814 16	14	16	A	46,5	42,80	31	25	5	2,3	M4	0,134
101 814 19	14	19	B	46,5	42,80	35	25	6	2,8	M5	0,142
101 815 14	15	14	A	49,5	45,81	34	25	5	2,3	M4	0,174
101 815 15	15	15	A	49,5	45,81	34	25	5	2,3	M4	0,170
101 815 20	15	20	A	49,5	45,81	34	25	6	2,8	M5	0,142
101 815 24	15	24	B	49,5	45,81	42	25	8	3,3	M6	0,168
101 815 25	15	25	B	49,5	45,81	42	25	8	3,3	M6	0,160
101 816 15	16	15	A	52,5	48,82	37	28	5	2,3	M4	0,228
101 816 18	16	18	A	52,5	48,82	37	28	6	2,8	M5	0,212
101 816 20	16	20	A	52,5	48,82	37	28	6	2,8	M5	0,188
101 816 25	16	25	B	52,5	48,82	42	28	8	3,3	M6	0,202
101 817 14	17	14	A	55,5	51,83	40	28	5	2,3	M4	0,274
101 817 16	17	16	A	55,5	51,83	40	28	5	2,3	M4	0,266
101 817 20	17	20	A	55,5	51,83	40	28	6	2,8	M5	0,238
101 817 24	17	24	B	55,5	51,83	46	28	8	3,3	M6	0,262
101 817 25	17	25	B	55,5	51,83	46	28	8	3,3	M6	0,256
101 818 14	18	14	A	58,6	54,85	40	28	5	2,3	M4	0,286
101 818 16	18	16	A	58,6	54,85	43	28	5	2,3	M4	0,310
101 818 20	18	20	A	58,6	54,85	43	28	6	2,8	M5	0,282

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

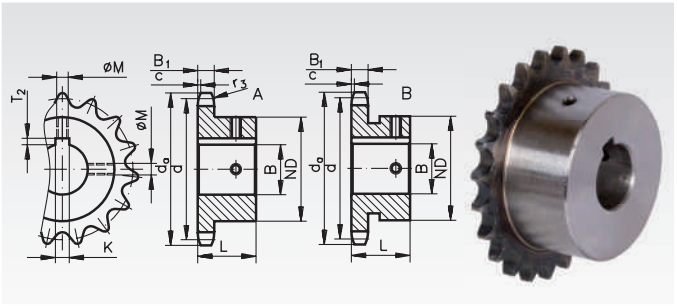
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 3/8 x 7/32", ISO 06 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 101 818 24, Sprocket KRF, Pitch 3/8 x 7/32" , 18 Teeth, 24 mm Bore

Pitch 3/8 x 7/32", B_1 = 5.3 mm, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
101 818 24	18	24	A	58,6	54,85	43	28	8	3,3	M6	0,252
101 818 25	18	25	A	58,6	54,85	43	28	8	3,3	M6	0,242
101 819 12	19	12	A	61,6	57,87	40	28	4	1,8	M4	0,304
101 819 14	19	14	A	61,6	57,87	40	28	5	2,3	M4	0,286
101 819 15	19	15	A	61,6	57,87	45	28	5	2,3	M4	0,350
101 819 20	19	20	A	61,6	57,87	45	28	6	2,8	M5	0,318
101 819 25	19	25	A	61,6	57,87	45	28	8	3,3	M6	0,276
101 820 14	20	14	A	64,6	60,89	40	28	5	2,3	M4	0,306
101 820 20	20	20	A	64,6	60,89	46	28	6	2,8	M5	0,340
101 820 24	20	24	A	64,6	60,89	46	28	8	3,3	M6	0,308
101 820 25	20	25	A	64,6	60,89	46	28	8	3,3	M6	0,300
101 821 15	21	15	A	67,6	63,91	48	28	5	2,3	M4	0,408
101 821 20	21	20	A	67,6	63,91	48	28	6	2,8	M5	0,380
101 821 24	21	24	A	67,6	63,91	48	28	8	3,3	M6	0,348
101 821 25	21	25	A	67,6	63,91	48	28	8	3,3	M6	0,340
101 822 20	22	20	A	70,6	66,93	50	28	6	2,8	M5	0,424
101 822 24	22	24	A	70,6	66,93	50	28	8	3,3	M6	0,384
101 822 25	22	25	A	70,6	66,93	50	28	8	3,3	M6	0,382
101 823 20	23	20	A	73,7	69,95	52	28	6	2,8	M5	0,464
101 823 25	23	25	A	73,7	69,95	52	28	8	3,3	M6	0,420
101 824 20	24	20	A	76,7	72,97	54	28	6	2,8	M5	0,508
101 824 25	24	25	A	76,7	72,97	54	28	8	3,3	M6	0,466
101 824 30	24	30	A	76,7	72,97	54	28	8	3,3	M6	0,422
101 825 20	25	20	A	79,7	76,00	57	28	6	2,8	M5	0,568
101 825 22	25	22	A	79,7	76,00	57	28	6	2,8	M5	0,550
101 825 25	25	25	A	79,7	76,00	57	28	8	3,3	M6	0,524
101 825 30	25	30	A	79,7	76,00	57	28	8	3,3	M6	0,478
101 830 20	30	20	A	94,8	91,12	60	30	6	2,8	M5	0,746
101 830 25	30	25	A	94,8	91,12	60	30	8	3,3	M6	0,704
101 830 30	30	30	A	94,8	91,12	60	30	8	3,3	M6	0,656

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway Width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

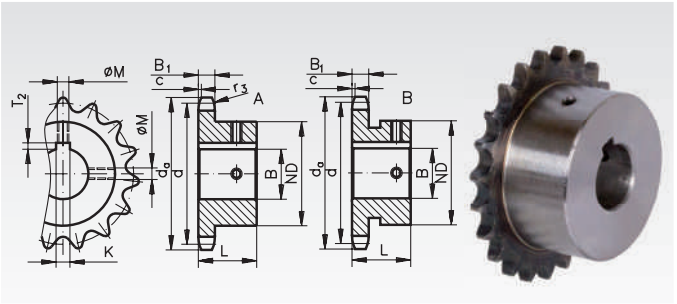
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 1/2 x 5/16", ISO 08 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 105 810 15, Sprocket KRF, Pitch 1/2 x 5/16" , 10 Teeth, 15 mm Bore

Pitch 1/2 x 5/16", B_1 = 7.2 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
105 810 15	10	15	B	45,90	41,10	31	25	5	2,3	M4	0,126
105 810 16	10	16	B	45,90	41,10	31	25	5	2,3	M4	0,118
105 811 14	11	14	A	49,90	45,07	29	25	5	2,3	M4	0,142
105 811 15	11	15	B	49,90	45,07	31	25	5	2,3	M4	0,146
105 811 16	11	16	B	49,90	45,07	31	25	5	2,3	M4	0,140
105 811 18	11	18	B	49,90	45,07	37	25	6	2,8	M5	0,158
105 812 15	12	15	A	53,90	49,07	33	28	5	2,3	M4	0,200
105 812 16	12	16	A	53,90	49,07	33	28	5	2,3	M4	0,184
105 812 18	12	18	A	53,90	49,07	33	28	6	2,8	M5	0,174
105 812 20	12	20	A	53,90	49,07	33	28	6	2,8	M5	0,166
105 812 25	12	25	B	53,90	49,07	42	28	8	3,3	M6	0,180
105 813 16	13	16	A	57,90	53,07	37	28	5	2,3	M4	0,246
105 813 20	13	20	A	57,90	53,07	37	28	6	2,8	M5	0,220
105 813 25	13	25	B	57,90	53,07	42	28	8	3,3	M6	0,216
105 813 28	13	28	B	57,90	53,07	45	28	8	3,3	M6	0,212
105 814 16	14	16	A	61,90	57,07	41	28	5	2,3	M4	0,304
105 814 19	14	19	A	61,90	57,07	41	28	6	2,8	M5	0,284
105 814 20	14	20	A	61,90	57,07	41	28	6	2,8	M5	0,276
105 814 25	14	25	A	61,90	57,07	41	28	8	3,3	M6	0,236
105 814 28	14	28	B	61,90	57,07	48	28	8	3,3	M6	0,266
105 815 16	15	16	A	65,90	61,09	45	28	5	2,3	M4	0,366
105 815 19	15	19	A	65,90	61,09	45	28	6	2,8	M5	0,348
105 815 20	15	20	A	65,90	61,09	45	28	6	2,8	M5	0,340
105 815 24	15	24	A	65,90	61,09	45	28	8	3,3	M6	0,308
105 815 25	15	25	A	65,90	61,09	45	28	8	3,3	M6	0,300
105 815 28	15	28	A	65,90	61,09	45	28	8	3,3	M6	0,272
105 815 30	15	30	B	65,90	61,09	52	28	8	3,3	M6	0,316
105 816 18	16	18	A	69,90	65,10	50	28	6	2,8	M5	0,438
105 816 20	16	20	A	69,90	65,10	50	28	6	2,8	M5	0,426
105 816 24	16	24	A	69,90	65,10	50	28	8	3,3	M6	0,382
105 816 25	16	25	A	69,90	65,10	50	28	8	3,3	M6	0,382
105 816 30	16	30	A	69,90	65,10	50	28	8	3,3	M6	0,336
105 817 18	17	18	A	74,00	69,11	52	28	6	2,8	M5	0,486
105 817 19	17	19	A	74,00	69,11	52	28	6	2,8	M5	0,482
105 817 20	17	20	A	74,00	69,11	52	28	6	2,8	M5	0,472
105 817 24	17	24	A	74,00	69,11	52	28	8	3,3	M6	0,438
105 817 25	17	25	A	74,00	69,11	52	28	8	3,3	M6	0,428
105 817 28	17	28	A	74,00	69,11	52	28	8	3,3	M6	0,402
105 817 30	17	30	A	74,00	69,11	52	28	8	3,3	M6	0,388
105 818 18	18	18	A	78,00	73,14	52	28	6	2,8	M5	0,510
105 818 20	18	20	A	78,00	73,14	56	28	6	2,8	M5	0,550
105 818 24	18	24	A	78,00	73,14	56	28	8	3,3	M6	0,516

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

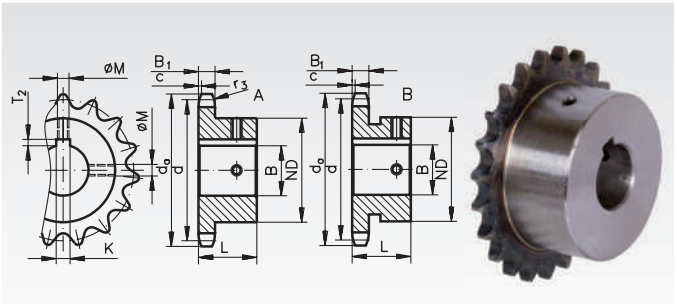
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 1/2 x 5/16", ISO 08 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 105 818 25, Sprocket KRF, Pitch 1/2 x 5/16" , 18 Teeth, 25 mm Bore

Pitch 1/2 x 5/16", B_1 = 7.2 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
105 818 25	18	25	A	78,00	73,14	56	28	8	3,3	M6	0,510
105 818 30	18	30	A	78,00	73,14	56	28	8	3,3	M6	0,464
105 818 35	18	35	A	78,00	73,14	56	28	10	3,3	M8	0,406
105 819 20	19	20	A	82,00	77,16	60	28	6	2,8	M5	0,636
105 819 25	19	25	A	82,00	77,16	60	28	8	3,3	M6	0,584
105 819 30	19	30	A	82,00	77,16	60	28	8	3,3	M6	0,548
105 819 35	19	35	A	82,00	77,16	60	28	10	3,3	M8	0,488
105 820 18	20	18	A	86,00	81,19	55	28	6	2,8	M5	0,614
105 820 20	20	20	A	86,00	81,19	64	28	6	2,8	M5	0,740
105 820 24	20	24	A	86,00	81,19	64	28	8	3,3	M6	0,710
105 820 25	20	25	A	86,00	81,19	64	28	8	3,3	M6	0,700
105 820 28	20	28	A	86,00	81,19	64	28	8	3,3	M6	0,672
105 820 30	20	30	A	86,00	81,19	64	28	8	3,3	M6	0,652
105 820 35	20	35	A	86,00	81,19	64	28	10	3,3	M8	0,610
105 821 20	21	20	A	90,10	85,22	60	28	6	2,8	M5	0,702
105 821 25	21	25	A	90,10	85,22	68	28	8	3,3	M6	0,782
105 821 30	21	30	A	90,10	85,22	68	28	8	3,3	M6	0,750
105 821 35	21	35	A	90,10	85,22	68	28	10	3,3	M8	0,686
105 822 20	22	20	A	94,10	89,24	65	28	6	2,8	M5	0,816
105 822 25	22	25	A	94,10	89,24	70	28	8	3,3	M6	0,858
105 822 30	22	30	A	94,10	89,24	70	28	8	3,3	M6	0,808
105 822 35	22	35	A	94,10	89,24	70	28	10	3,3	M8	0,754
105 823 20	23	20	A	98,10	93,27	65	28	6	2,8	M5	0,848
105 823 25	23	25	A	98,10	93,27	70	28	8	3,3	M6	0,884
105 823 30	23	30	A	98,10	93,27	70	28	8	3,3	M6	0,844
105 823 35	23	35	A	98,10	93,27	70	28	10	3,3	M8	0,780
105 824 20	24	20	A	102,10	97,29	65	28	6	2,8	M5	0,880
105 824 25	24	25	A	102,10	97,29	70	28	8	3,3	M6	0,830
105 824 28	24	28	A	102,10	97,29	70	28	8	3,3	M6	0,804
105 824 30	24	30	A	102,10	97,29	70	28	8	3,3	M6	0,882
105 824 35	24	35	A	102,10	97,29	70	28	10	3,3	M8	0,824
105 825 20	25	20	A	106,20	101,33	65	28	6	2,8	M5	0,820
105 825 24	25	24	A	106,20	101,33	70	28	8	3,3	M6	0,872
105 825 25	25	25	A	106,20	101,33	70	28	8	3,3	M6	0,868
105 825 28	25	28	A	106,20	101,33	70	28	8	3,3	M6	0,842
105 825 30	25	30	A	106,20	101,33	70	28	8	3,3	M6	0,824
105 825 35	25	35	A	106,20	101,33	70	28	10	3,3	M8	0,864
105 830 25	30	25	A	126,30	121,50	75	30	8	3,3	M6	1,314
105 830 28	30	28	A	126,30	121,50	75	30	8	3,3	M6	1,284
105 830 30	30	30	A	126,30	121,50	80	30	8	3,3	M6	1,366
105 830 35	30	35	A	126,30	121,50	80	30	10	3,3	M8	1,314

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

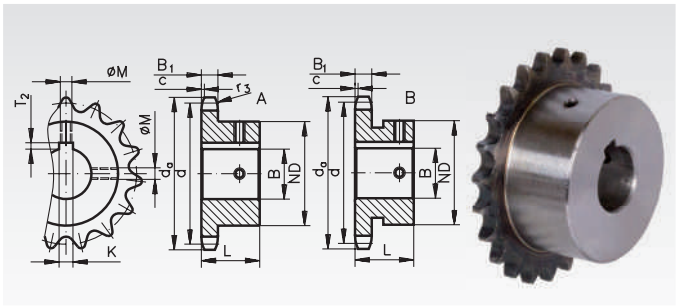
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 5/8 x 3/8", ISO 10 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 106 810 18, Sprocket KRF, Pitch 5/8 x 3/8" , 10 Teeth, 18 mm Bore

Pitch 5/8 x 3/8", B_1 = 9.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
106 810 18	10	18	A	58,3	51,37	35	25	6	2,8	M5	0,202
106 810 19	10	19	A	58,3	51,37	35	25	6	2,8	M5	0,186
106 810 20	10	20	A	58,3	51,37	35	25	6	2,8	M5	0,184
106 811 20	11	20	A	63,2	56,34	37	30	6	2,8	M5	0,260
106 811 25	11	25	B	63,2	56,34	47	30	8	3,3	M6	0,280
106 812 20	12	20	A	68,2	61,34	42	30	6	2,8	M5	0,344
106 812 25	12	25	A	68,2	61,34	42	30	8	3,3	M6	0,300
106 812 30	12	30	B	68,2	61,34	51	30	8	3,3	M6	0,322
106 813 18	13	18	A	73,2	66,32	47	30	6	2,8	M5	0,450
106 813 20	13	20	A	73,2	66,32	47	30	6	2,8	M5	0,436
106 813 25	13	25	A	73,2	66,32	47	30	8	3,3	M6	0,380
106 813 30	13	30	A	73,2	66,32	47	30	8	3,3	M6	0,340
106 814 20	14	20	A	78,2	71,34	52	30	6	2,8	M5	0,534
106 814 25	14	25	A	78,2	71,34	52	30	8	3,3	M6	0,480
106 814 30	14	30	A	78,2	71,34	52	30	8	3,3	M6	0,436
106 815 20	15	20	A	83,2	76,36	57	30	6	2,8	M5	0,646
106 815 24	15	24	A	83,2	76,36	57	30	8	3,3	M6	0,606
106 815 25	15	25	A	83,2	76,36	57	30	8	3,3	M6	0,588
106 815 30	15	30	A	83,2	76,36	57	30	8	3,3	M6	0,550
106 815 35	15	35	A	83,2	76,36	57	30	10	3,3	M8	0,486
106 816 20	16	20	A	88,3	81,37	60	30	6	2,8	M5	0,742
106 816 24	16	24	A	88,3	81,37	60	30	8	3,3	M6	0,708
106 816 25	16	25	A	88,3	81,37	60	30	8	3,3	M6	0,688
106 816 30	16	30	A	88,3	81,37	60	30	8	3,3	M6	0,646
106 816 35	16	35	A	88,3	81,37	60	30	10	3,3	M8	0,578
106 817 20	17	20	A	93,3	86,39	60	30	6	2,8	M5	0,784
106 817 25	17	25	A	93,3	86,39	60	30	8	3,3	M6	0,738
106 817 30	17	30	A	93,3	86,39	60	30	8	3,3	M6	0,684
106 817 35	17	35	A	93,3	86,39	60	30	10	3,3	M8	0,630
106 818 20	18	20	A	98,3	91,42	60	30	6	2,8	M5	0,834
106 818 25	18	25	A	98,3	91,42	70	30	8	3,3	M6	0,854
106 818 30	18	30	A	98,3	91,42	70	30	8	3,3	M6	0,810
106 818 35	18	35	A	98,3	91,42	70	30	10	3,3	M8	0,840
106 818 40	18	40	A	98,3	91,42	70	30	12	3,3	M10	0,772

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

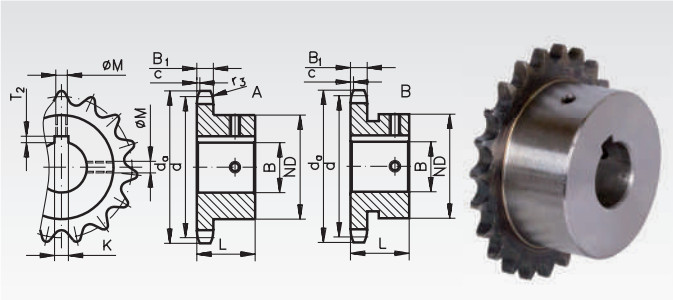
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 5/8 x 3/8", ISO 10 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 106 819 20, Sprocket KRF, Pitch5/8 x 3/8" , 19 Teeth, 20 mm Bore

Pitch 5/8 x 3/8", B_1 = 9.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
106 819 20	19	20	A	103,3	96,45	60	30	6	2,8	M5	0,800
106 819 25	19	25	A	103,3	96,45	70	30	8	3,3	M6	1,020
106 819 30	19	30	A	103,3	96,45	70	30	8	3,3	M6	0,870
106 819 35	19	35	A	103,3	96,45	70	30	10	3,3	M8	0,808
106 819 40	19	40	A	103,3	96,45	70	30	12	3,3	M10	0,834
106 820 20	20	20	A	108,4	101,49	65	30	6	2,8	M5	1,036
106 820 25	20	25	A	108,4	101,49	70	30	8	3,3	M6	1,070
106 820 30	20	30	A	108,4	101,49	75	30	8	3,3	M6	1,116
106 820 35	20	35	A	108,4	101,49	75	30	10	3,3	M8	1,052
106 820 40	20	40	A	108,4	101,49	75	30	12	3,3	M10	0,880
106 821 20	21	20	A	113,4	106,52	65	30	6	2,8	M5	1,084
106 821 25	21	25	A	113,4	106,52	70	30	8	3,3	M6	1,124
106 821 30	21	30	A	113,4	106,52	75	30	8	3,3	M6	1,168
106 821 35	21	35	A	113,4	106,52	75	30	10	3,3	M8	1,106
106 821 40	21	40	A	113,4	106,52	75	30	12	3,3	M10	1,032
106 822 20	22	20	A	118,4	111,55	65	30	6	2,8	M5	1,140
106 822 25	22	25	A	118,4	111,55	70	30	8	3,3	M6	1,186
106 822 30	22	30	A	118,4	111,55	80	30	8	3,3	M6	1,322
106 822 35	22	35	A	118,4	111,55	80	30	10	3,3	M8	1,264
106 822 40	22	40	A	118,4	111,55	80	30	12	3,3	M10	1,184
106 823 20	23	20	A	123,5	116,58	65	30	6	2,8	M5	1,216
106 823 25	23	25	A	123,5	116,58	70	30	8	3,3	M6	1,250
106 823 30	23	30	A	123,5	116,58	80	30	8	3,3	M6	1,382
106 823 35	23	35	A	123,5	116,58	80	30	10	3,3	M8	1,332
106 823 40	23	40	A	123,5	116,58	80	30	12	3,3	M10	1,258
106 824 20	24	20	A	128,5	121,62	65	30	6	2,8	M5	1,278
106 824 25	24	25	A	128,5	121,62	70	30	8	3,3	M6	1,328
106 824 30	24	30	A	128,5	121,62	80	30	8	3,3	M6	1,454
106 824 35	24	35	A	128,5	121,62	80	30	10	3,3	M8	1,388
106 824 40	24	40	A	128,5	121,62	80	30	12	3,3	M10	1,328
106 825 20	25	20	A	133,6	126,66	65	30	6	2,8	M5	1,352
106 825 25	25	25	A	133,6	126,66	70	30	8	3,3	M6	1,388
106 825 30	25	30	A	133,6	126,66	80	30	8	3,3	M6	1,530
106 825 35	25	35	A	133,6	126,66	80	30	10	3,3	M8	1,472
106 825 40	25	40	A	133,6	126,66	80	30	12	3,3	M10	1,400

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

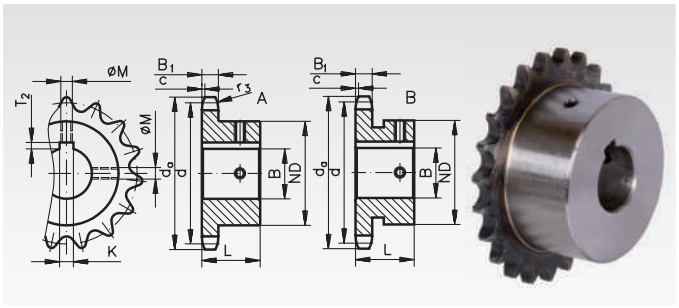
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 3/4 x 7/16", ISO 12 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 107 810 20, Sprocket KRF, Pitch 3/4 x 7/16" , 10 Teeth, 20 mm Bore

Pitch 3/4 x 7/16", B_1 = 11.1 mm, c = 2 mm, r_3 = 19 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
107 810 20	10	20	A	69,8	61,64	42	30	6	2,8	M5	0,358
107 810 25	10	25	A	69,8	61,64	42	30	8	3,3	M6	0,316
107 811 20	11	20	A	75,8	67,61	46	35	6	2,8	M5	0,504
107 811 25	11	25	A	75,8	67,61	46	35	8	3,3	M6	0,452
107 812 20	12	20	A	81,8	73,60	52	35	6	2,8	M5	0,656
107 812 25	12	25	A	81,8	73,60	52	35	8	3,3	M6	0,604
107 812 30	12	30	A	81,8	73,60	52	35	8	3,3	M6	0,546
107 812 35	12	35	A	81,8	73,60	56	35	10	3,3	M8	0,536
107 813 20	13	20	A	87,8	79,59	58	35	6	2,8	M5	0,812
107 813 25	13	25	A	87,8	79,59	58	35	8	3,3	M6	0,758
107 813 30	13	30	A	87,8	79,59	58	35	8	3,3	M6	0,688
107 813 35	13	35	A	87,8	79,59	58	35	10	3,3	M8	0,624
107 814 20	14	20	A	93,8	85,61	60	35	6	2,8	M5	0,806
107 814 24	14	24	A	93,8	85,61	64	35	8	3,3	M6	0,836
107 814 25	14	25	A	93,8	85,61	64	35	8	3,3	M6	0,830
107 814 28	14	28	A	93,8	85,61	64	35	8	3,3	M6	0,888
107 814 30	14	30	A	93,8	85,61	64	35	8	3,3	M6	0,800
107 814 35	14	35	A	93,8	85,61	64	35	10	3,3	M8	0,786
107 815 20	15	20	A	99,8	91,63	65	35	6	2,8	M5	1,076
107 815 25	15	25	A	99,8	91,63	70	35	8	3,3	M6	1,126
107 815 28	15	28	A	99,8	91,63	70	35	8	3,3	M6	1,080
107 815 30	15	30	A	99,8	91,63	70	35	8	3,3	M6	1,064
107 815 35	15	35	A	99,8	91,63	70	35	10	3,3	M8	0,880
107 815 40	15	40	A	99,8	91,63	70	35	12	3,3	M10	0,808
107 816 20	16	20	A	105,8	97,65	65	35	6	2,8	M5	1,154
107 816 24	16	24	A	105,8	97,65	70	35	8	3,3	M6	1,216
107 816 25	16	25	A	105,8	97,65	70	35	8	3,3	M6	1,188
107 816 30	16	30	A	105,8	97,65	75	35	8	3,3	M6	1,248
107 816 35	16	35	A	105,8	97,65	75	35	10	3,3	M8	1,160
107 816 40	16	40	A	105,8	97,65	75	35	12	3,3	M10	1,080
107 817 25	17	25	A	111,9	103,67	70	35	8	3,3	M6	1,280
107 817 30	17	30	A	111,9	103,67	80	35	8	3,3	M6	1,434
107 817 35	17	35	A	111,9	103,67	80	35	10	3,3	M8	1,372
107 817 40	17	40	A	111,9	103,67	80	35	12	3,3	M10	1,278
107 818 25	18	25	A	117,9	109,71	70	35	8	3,3	M6	1,368
107 818 30	18	30	A	117,9	109,71	80	35	8	3,3	M6	1,520
107 818 35	18	35	A	117,9	109,71	80	35	10	3,3	M8	1,450
107 818 40	18	40	A	117,9	109,71	80	35	12	3,3	M10	1,364

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

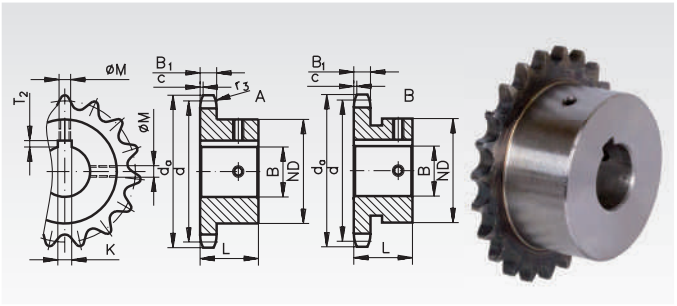
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 3/4 x 7/16", ISO 12 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 107 819 25, Sprocket KRF, Pitch 3/4 x 7/16" , 19 Teeth, 25 mm Bore

Pitch 3/4 x 7/16", B_1 = 11.1 mm, c = 2 mm, r_3 = 19 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
107 819 25	19	25	A	123,9	115,75	70	35	8	3,3	M6	1,448
107 819 30	19	30	A	123,9	115,75	80	35	8	3,3	M6	1,618
107 819 35	19	35	A	123,9	115,75	80	35	10	3,3	M8	1,534
107 819 40	19	40	A	123,9	115,75	80	35	12	3,3	M10	1,460
107 819 50	19	50	A	123,9	115,75	80	35	14	3,8	M12	1,254
107 820 25	20	25	A	130,0	121,78	70	35	8	3,3	M6	1,542
107 820 30	20	30	A	130,0	121,78	80	35	8	3,3	M6	1,716
107 820 35	20	35	A	130,0	121,78	80	35	10	3,3	M8	1,634
107 820 40	20	40	A	130,0	121,78	80	35	12	3,3	M10	1,554
107 820 45	20	45	A	130,0	121,78	80	35	14	3,8	M12	1,450
107 820 50	20	50	A	130,0	121,78	80	35	14	3,8	M12	1,362
107 821 25	21	25	A	136,0	127,82	70	40	8	3,3	M6	1,782
107 821 30	21	30	A	136,0	127,82	80	40	8	3,3	M6	1,868
107 821 35	21	35	A	136,0	127,82	90	40	10	3,3	M8	2,180
107 821 40	21	40	A	136,0	127,82	90	40	12	3,3	M10	2,082
107 821 45	21	45	A	136,0	127,82	90	40	14	3,8	M12	1,878
107 821 50	21	50	A	136,0	127,82	90	40	14	3,8	M12	1,872
107 822 25	22	25	A	142,0	133,86	70	40	8	3,3	M6	1,804
107 822 30	22	30	A	142,0	133,86	80	40	8	3,3	M6	2,086
107 822 35	22	35	A	142,0	133,86	90	40	10	3,3	M8	2,312
107 822 40	22	40	A	142,0	133,86	90	40	12	3,3	M10	2,208
107 822 50	22	50	A	142,0	133,86	90	40	14	3,8	M12	1,886
107 823 25	23	25	A	148,1	139,90	70	40	8	3,3	M6	2,020
107 823 30	23	30	A	148,1	139,90	80	40	8	3,3	M6	2,214
107 823 35	23	35	A	148,1	139,90	90	40	10	3,3	M8	2,414
107 823 40	23	40	A	148,1	139,90	90	40	12	3,3	M10	2,320
107 823 45	23	45	A	148,1	139,90	90	40	14	3,8	M12	2,206
107 823 50	23	50	A	148,1	139,90	90	40	14	3,8	M12	2,102
107 824 30	24	30	A	154,1	145,94	80	40	8	3,3	M6	2,316
107 824 35	24	35	A	154,1	145,94	90	40	10	3,3	M8	2,536
107 824 40	24	40	A	154,1	145,94	90	40	12	3,3	M10	2,436
107 825 25	25	25	A	160,2	152,00	70	40	8	3,3	M6	2,254
107 825 30	25	30	A	160,2	152,00	80	40	8	3,3	M6	2,448
107 825 35	25	35	A	160,2	152,00	90	40	10	3,3	M8	2,666
107 825 40	25	40	A	160,2	152,00	90	40	12	3,3	M10	2,576
107 825 45	25	45	A	160,2	152,00	90	40	14	3,8	M12	2,456
107 825 50	25	50	A	160,2	152,00	90	40	14	3,8	M12	2,364

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

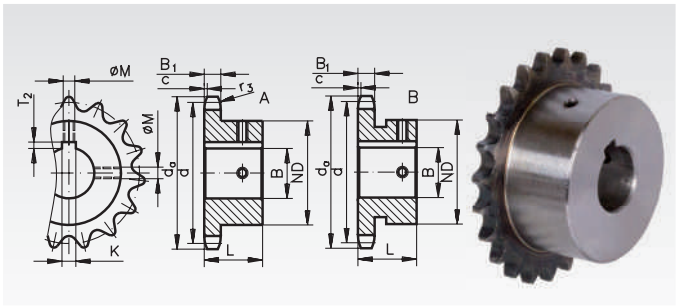
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 1“ x 17.02 mm, ISO 16 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 108 811 25, Sprocket KRF, Pitch 1“ x 17.02mm, 11 Teeth, 25 mm Bore

Pitch 1“ x 17.02 mm, B_1 = 16.2 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
108 811 25	11	25	A	101,7	90,14	61	40	8	3,3	M6	1,124
108 811 30	11	30	A	101,7	90,14	61	40	8	3,3	M6	1,060
108 811 35	11	35	A	101,7	90,14	61	40	10	3,3	M8	0,876
108 811 40	11	40	A	101,7	90,14	67	40	12	3,3	M10	0,882
108 812 25	12	25	A	109,7	98,14	69	40	8	3,3	M6	1,418
108 812 30	12	30	A	109,7	98,14	69	40	8	3,3	M6	1,350
108 812 35	12	35	A	109,7	98,14	69	40	10	3,3	M8	1,268
108 812 40	12	40	A	109,7	98,14	69	40	12	3,3	M10	1,166
108 813 25	13	25	A	117,7	106,12	70	40	8	3,3	M6	1,588
108 813 30	13	30	A	117,7	106,12	78	40	8	3,3	M6	1,626
108 813 35	13	35	A	117,7	106,12	78	40	10	3,3	M8	1,608
108 813 40	13	40	A	117,7	106,12	78	40	12	3,3	M10	1,506
108 814 30	14	30	A	125,7	114,15	80	40	8	3,3	M6	1,820
108 814 35	14	35	A	125,7	114,15	84	40	10	3,3	M8	1,812
108 814 40	14	40	A	125,7	114,15	84	40	12	3,3	M10	1,830
108 814 45	14	45	A	125,7	114,15	84	40	14	3,8	M12	1,712
108 814 50	14	50	A	125,7	114,15	84	40	14	3,8	M12	1,606
108 815 25	15	25	A	133,7	122,17	70	40	8	3,3	M6	1,842
108 815 30	15	30	A	133,7	122,17	80	40	8	3,3	M6	2,088
108 815 35	15	35	A	133,7	122,17	82	40	10	3,3	M8	2,302
108 815 40	15	40	A	133,7	122,17	82	40	12	3,3	M10	2,210
108 815 45	15	45	A	133,7	122,17	82	40	14	3,8	M12	2,078
108 815 50	15	50	A	133,7	122,17	82	40	14	3,8	M12	1,888
108 816 25	16	25	A	141,8	130,20	80	45	8	3,3	M6	2,544
108 816 30	16	30	A	141,8	130,20	80	45	8	3,3	M6	2,468
108 816 35	16	35	A	141,8	130,20	100	45	10	3,3	M8	3,010
108 816 40	16	40	A	141,8	130,20	100	45	12	3,3	M10	2,880
108 816 45	16	45	A	141,8	130,20	100	45	14	3,8	M12	2,776
108 816 50	16	50	A	141,8	130,20	100	45	14	3,8	M12	2,648
108 817 30	17	30	A	149,8	138,22	100	45	8	3,3	M6	2,666
108 817 35	17	35	A	149,8	138,22	100	45	10	3,3	M8	3,214
108 817 40	17	40	A	149,8	138,22	100	45	12	3,3	M10	3,086
108 817 45	17	45	A	149,8	138,22	100	45	14	3,8	M12	2,866

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

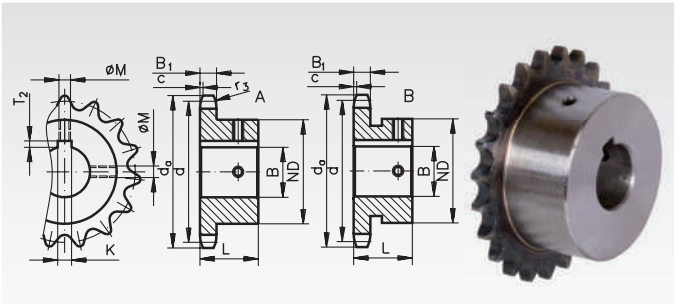
Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRF, Teeth Hardened, Pitch 1“ x 17.02 mm, ISO 16 B-1

Material: Steel C45.

Ready-to-install, for various shaft diameters.

Teeth milled and induction hardened (approx. HRC 50), custom bore H7 - surface parameter R_a 1.6, keyway in accordance with DIN 6885/1 positioned beneath tip of tooth, 2 threads for set screws, one positioned for the keyway, one offset by 90°.



Ordering Details: e.g.: Product No. 108 817 50, Sprocket KRF, Pitch 1“ x 17.02mm, 17 Teeth, 50 mm Bore

Pitch 1“ x 17.02 mm, B_1 = 16.2 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	Bore mm	Type	d_a mm	d mm	ND mm	L mm	K mm	T_2 mm	M	Weight kg
108 817 50	17	50	A	149,8	138,22	100	45	14	3,8	M12	2,842
108 818 30	18	30	A	157,8	146,28	80	45	8	3,3	M6	2,888
108 818 35	18	35	A	157,8	146,28	100	45	10	3,3	M8	3,416
108 818 40	18	40	A	157,8	146,28	100	45	12	3,3	M10	3,322
108 818 45	18	45	A	157,8	146,28	100	45	14	3,8	M12	3,188
108 818 50	18	50	A	157,8	146,28	100	45	14	3,8	M12	3,062
108 819 30	19	30	A	165,9	154,33	80	45	8	3,3	M6	3,122
108 819 35	19	35	A	165,9	154,33	100	45	10	3,3	M8	3,670
108 819 40	19	40	A	165,9	154,33	100	45	12	3,3	M10	3,558
108 819 50	19	50	A	165,9	154,33	100	45	14	3,8	M12	3,286
108 820 30	20	30	A	173,9	162,38	80	45	8	3,3	M6	3,372
108 820 35	20	35	A	173,9	162,38	100	45	10	3,3	M8	3,802
108 820 40	20	40	A	173,9	162,38	100	45	12	3,3	M10	3,782
108 820 50	20	50	A	173,9	162,38	100	45	14	3,8	M12	3,552
108 821 30	21	30	A	182,0	170,43	80	50	8	3,3	M6	3,812
108 821 35	21	35	A	182,0	170,43	100	50	10	3,3	M8	4,446
108 821 40	21	40	A	182,0	170,43	110	50	12	3,3	M10	4,752
108 821 50	21	50	A	182,0	170,43	110	50	14	3,8	M12	4,480
108 822 30	22	30	A	190,1	178,48	80	50	8	3,3	M6	4,078
108 822 35	22	35	A	190,1	178,48	100	50	10	3,3	M8	4,716
108 822 40	22	40	A	190,1	178,48	110	50	12	3,3	M10	5,042
108 823 30	23	30	A	198,1	186,53	80	50	8	3,3	M6	4,350
108 823 40	23	40	A	198,1	186,53	110	50	12	3,3	M10	5,320
108 824 30	24	30	A	206,2	194,59	80	50	8	3,3	M6	4,676
108 824 35	24	35	A	206,2	194,59	100	50	10	3,3	M8	5,312
108 824 40	24	40	A	206,2	194,59	110	50	12	3,3	M10	5,630
108 824 45	24	45	A	206,2	194,59	110	50	14	3,8	M12	5,464
108 824 50	24	50	A	206,2	194,59	110	50	14	3,8	M12	5,318
108 825 30	25	30	A	214,2	202,66	80	50	8	3,3	M6	4,874
108 825 35	25	35	A	214,2	202,66	100	50	10	3,3	M8	5,586
108 825 40	25	40	A	214,2	202,66	110	50	12	3,3	M10	5,820
108 825 45	25	45	A	214,2	202,66	110	50	14	3,8	M12	5,766
108 825 50	25	50	A	214,2	202,66	110	50	14	3,8	M12	5,640

Tolerances

Bore
from 12 mm to 18 mm: +0.018 / -0
from 19 mm to 30 mm: +0.021 / -0
from 32 mm to 50 mm: +0.025 / -0

Keyway width
from 4 mm to 6 mm: +0.030 / -0
from 8 mm to 10 mm: +0.036 / -0
from 12 mm to 14 mm: +0.043 / -0

Keyway depth
from 1.8 mm to 2.8 mm: +0.10 / -0
from 3.3 mm to 3.8 mm: +0.20 / -0

Sprockets KRT / KRTG with One-Sided Hub for Taper Bushes

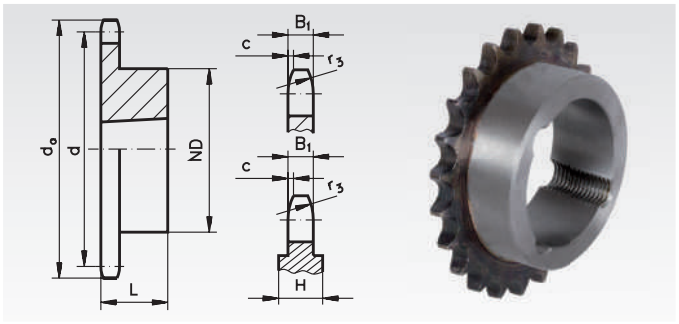
Material: Steel C45, optionally hardened or grey cast iron.

Type KRT: Not hardened.

Type KRTG: Teeth induction hardened (approx. HRC 50).

Sprockets for taper bushes, for easy and fast mounting. The taper bush has to be ordered separately. Product numbers ending with G are made from grey cast iron GG25. 12B-1 with 57 teeth is reinforced, with the teeth centered on the wheel plate, see drawing.

Ordering Details: e.g.: Product No. 101 771 17, KRT 06 B-1, 17 Teeth, Dimension bore with Reference to Taper Bush Type, see page 76.



ISO 06 B-1, Pitch 3/8 x 7/32", B_1 = 5.3 mm, c = 1,0 mm, r_3 = 10 mm

Product No. KRT	Product No. KRTG	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper-bush
101 771 17	101 781 17	17	55,3	51,83	45	22	0,11	1008
101 771 18	101 781 18	18	58,3	54,85	45	22	0,14	1008
101 771 19	101 781 19	19	61,3	57,87	45	22	0,15	1008
101 771 20	101 781 20	20	64,3	60,89	46	22	0,16	1008
101 771 21	101 781 21	21	68,0	63,91	46	22	0,18	1008
101 771 22	101 781 22	22	71,0	66,93	50	22	0,25	1108
101 771 23	101 781 23	23	73,5	69,95	63	25	0,27	1210
101 771 24	101 781 24	24	77,0	72,97	63	25	0,30	1210
101 771 25	101 781 25	25	80,0	76,00	63	25	0,32	1210
101 771 26	101 781 26	26	83,0	79,02	63	25	0,33	1210
101 771 27	101 781 27	27	86,0	82,05	63	25	0,34	1210
101 771 28	101 781 28	28	89,0	85,07	63	25	0,37	1210
101 771 30	101 781 30	30	94,7	91,12	63	25	0,39	1210
101 771 38	-	38	119,5	115,35	70	25	0,65	1210
101 771 45	-	45	140,7	136,55	70	25	1,01	1210
101 771 57G	-	57	176,9	172,91	83	25	1,34	1210

ISO 08 B-1, Pitch 1/2 x 5/16", B_1 = 7.2 mm, c = 1,3 mm, r_3 = 13 mm

Product No. KRT	Product No. KRTG	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper-bush
105 771 15	105 781 15	15	65,0	61,09	45	22	0,19	1008
105 771 16	105 781 16	16	69,5	65,10	50	22	0,24	1108
105 771 17	105 781 17	17	73,6	69,11	60	25	0,24	1210
105 771 18	105 781 18	18	77,8	73,14	60	25	0,29	1210
105 771 19	105 781 19	19	81,7	77,16	63	25	0,34	1210
105 771 20	105 781 20	20	85,8	81,19	71	25	0,34	1610
105 771 21	105 781 21	21	89,7	85,22	71	25	0,38	1610
105 771 22	105 781 22	22	93,8	89,24	71	25	0,43	1610
105 771 23	105 781 23	23	98,2	93,27	76	25	0,48	1610
105 771 24	105 781 24	24	101,8	97,29	76	25	0,67	1610
105 771 25	105 781 25	25	105,8	101,33	76	25	0,72	1610
105 771 26	105 781 26	26	110,0	105,36	76	25	0,82	1610
105 771 27	105 781 27	27	114,0	109,40	76	25	0,86	1610
105 771 28	105 781 28	28	118,0	113,42	90	32	0,86	2012
105 771 30	105 781 30	30	126,1	121,50	90	32	0,91	2012
105 771 38	-	38	158,6	153,80	90	32	1,20	2012
105 771 45	-	45	188,0	182,07	100	32	1,68	2012
105 771 57G	-	57	236,4	230,54	111	32	2,78	2012

ISO 10 B-1, Pitch 5/8 x 3/8", B_1 = 9.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No. KRT	Product No. KRTG	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper-bush
106 771 13	106 781 13	13	73,0	66,32	47	22	0,24	1008
106 771 14	106 781 14	14	78,0	71,34	52	22	0,29	1108
106 771 15	106 781 15	15	83,0	76,36	60	25	0,34	1210
106 771 16	106 781 16	16	88,0	81,37	70	25	0,34	1610
106 771 17	106 781 17	17	93,0	86,39	71	25	0,38	1610
106 771 18	106 781 18	18	98,3	91,42	75	25	0,43	1610
106 771 19	106 781 19	19	103,3	96,45	75	25	0,62	1610
106 771 20	106 781 20	20	108,4	101,49	75	25	0,77	1610
106 771 21	106 781 21	21	113,4	106,52	76	25	0,72	1610
106 771 22	106 781 22	22	118,0	111,55	76	25	0,77	1610
106 771 23	106 781 23	23	123,4	116,58	76	25	0,96	1610
106 771 24	106 781 24	24	128,3	121,62	90	32	1,06	2012
106 771 25	106 781 25	25	134,0	126,66	90	32	1,15	2012
106 771 26	106 781 26	26	139,0	131,70	90	32	1,20	2012
106 771 27	106 781 27	27	144,0	136,75	90	32	1,25	2012
106 771 28	106 781 28	28	148,7	141,78	90	32	1,34	2012
106 771 30	106 781 30	30	158,8	151,87	90	32	1,54	2012
106 771 38	-	38	199,2	192,24	100	32	2,40	2012
106 771 45	-	45	235,0	227,58	100	32	3,12	2012
106 771 57G	-	57	296,0	288,18	111	32	5,18	2012

ISO 12 B-1, Pitch 3/4 x 7/16" B_1 = 11.1 mm, c = 2.0 mm, r_3 = 19 mm

Product No. KRT	Product No. KRTG	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper-bush
107 771 13	107 781 13	13	87,5	79,59	60	25	0,38	1210
107 771 14	107 781 14	14	93,6	85,61	70	25	0,48	1610
107 771 15	107 781 15	15	99,8	91,63	70	25	0,48	1610
107 771 16	107 781 16	16	105,5	97,65	75	25	0,67	1610
107 771 17	107 781 17	17	111,5	103,67	76	25	0,86	1610
107 771 18	107 781 18	18	118,0	109,71	90	32	0,91	2012
107 771 19	107 781 19	19	124,2	115,75	90	32	1,06	2012
107 771 20	107 781 20	20	129,7	121,78	90	32	1,06	2012
107 771 21	107 781 21	21	136,0	127,82	102	45	1,20	2517
107 771 22	107 781 22	22	141,8	133,86	102	45	1,34	2517
107 771 23	107 781 23	23	149,0	139,90	108	45	1,49	2517
107 771 24	107 781 24	24	153,9	145,94	108	45	1,63	2517
107 771 25	107 781 25	25	160,0	152,00	108	45	1,78	2517
107 771 26	107 781 26	26	165,9	158,04	108	45	1,92	2517
107 771 27	107 781 27	27	172,3	164,09	108	45	2,02	2517
107 771 28	107 781 28	28	178,0	170,13	108	45	2,21	2517
107 771 30	107 781 30	30	190,5	182,24	108	45	2,49	2517
107 771 38	-	38	239,0	230,69	108	45	3,74	2517
107 771 45	-	45	282,5	273,10	108	45	5,52	2517
107 771 57G	-	57	354,0	345,81	124	45	9,12	2517

Sprockets KRT / KRTG with One-Sided Hub for Taper Bushes

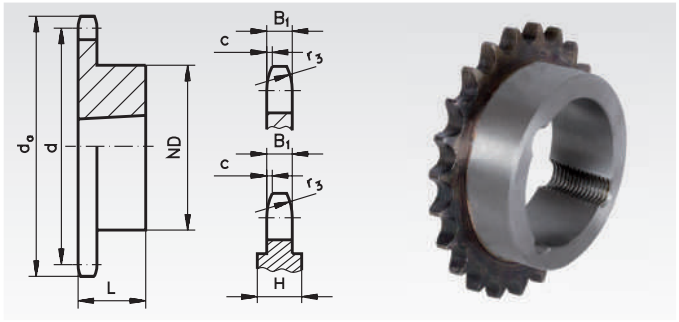
Material: Steel C45, optionally hardened or grey cast iron.

Type KRT: Not hardened.

Type KRTG: Teeth induction hardened (approx. HRC 50).

Sprockets for taper bushes, for easy and fast mounting. The taper bush has to be ordered separately. Product numbers ending with G are made from grey cast iron GG25. 12B-1 and 16 B-1 with 57 teeth are reinforced, with the teeth centered on the wheel plate, see drawing.

Ordering Details: e.g.: Product No. 108 771 13, KRT 16 B-1, 13 Teeth, Determine bore size with reference to Taper bush type, see page 76.



ISO 16 B-1, Pitch 1" x 17.02 mm, B_1 = 16.2 mm, c = 2.5 mm, r_3 = 26 mm

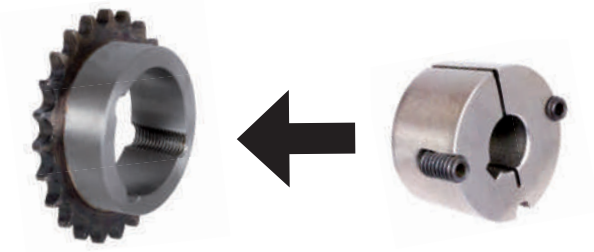
Product No. KRT	Product No. KRTG	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper-bush
108 771 13	108 781 13	13	117,0	106,12	73	25	1,10	1610
108 771 14	108 781 14	14	125,0	114,15	76	25	1,20	1610
108 771 15	108 781 15	15	133,0	122,17	76	25	1,30	1610
108 771 16	108 781 16	16	141,0	130,20	90	32	1,34	2012
108 771 17	108 781 17	17	149,0	138,22	90	32	1,49	2012
108 771 18	108 781 18	18	157,0	146,28	108	45	1,73	2517
108 771 19	108 781 19	19	165,2	154,33	108	45	1,97	2517
108 771 20	108 781 20	20	173,2	162,38	108	45	2,64	2517
108 771 21	108 781 21	21	181,2	170,43	110	45	2,88	2517
108 771 22	108 781 22	22	189,3	178,48	110	45	3,12	2517
108 771 23	108 781 23	23	197,5	186,53	110	45	3,36	2517
108 771 24	108 781 24	24	205,5	194,59	110	45	3,60	2517
108 771 25	108 781 25	25	213,5	202,66	110	45	3,89	2517
108 771 26	108 781 26	26	221,6	210,72	110	45	4,22	2517
108 771 27	108 781 27	27	229,6	218,79	110	45	4,32	2517
108 771 28	108 781 28	28	237,7	226,85	110	45	4,56	2517
108 771 30	108 781 30	30	254,0	243,00	140	51	5,52	3020
108 771 38	-	38	320,7	307,59	140	51	9,60	3020
108 771 45	-	45	377,0	364,13	140	51	18,72	3020
108 771 57G	-	57	474,0	461,08	160	51	20,64	3020

ISO 20 B-1, Pitch 1 1/4" x 3/4", B_1 = 18.5 mm, c = 3.5 mm, r_3 = 32 mm

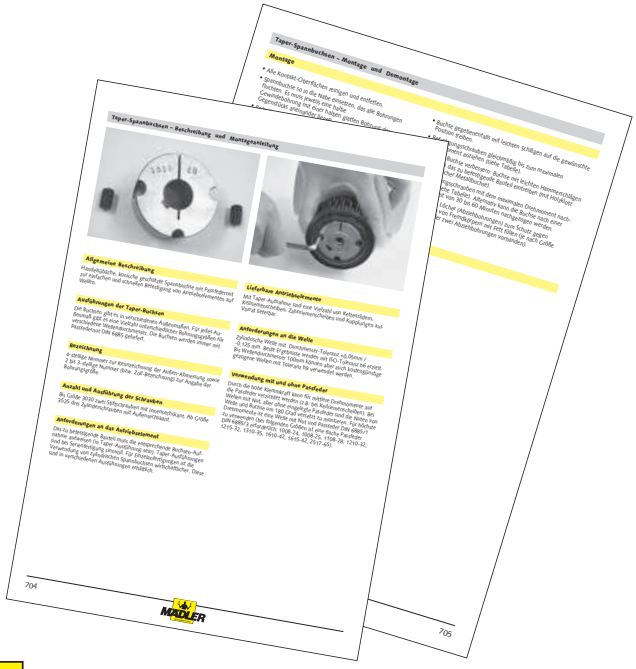
Product No. KRTG	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper-bush
109 781 13	13	147,8	132,65	90	32		2012
109 781 15	15	167,9	152,72	108	45	3,39	2517
109 781 17	17	187,9	172,78	108	45	5,07	2517
109 781 19	19	208,1	192,91	108	45	6,75	2517
109 781 21	21	228,2	213,04	108	45	7,70	2517
109 781 23	23	248,3	233,17	108	45	8,78	2517
109 781 25	25	268,5	253,33	108	45	9,50	2517
109 781 27	27	288,6	273,49	150	51		3020
109 781 30	30	318,9	303,75	150	51		3020

Product numbers ending with G are made from grey cast iron GG25.

Taper bushes page 76



Description and mounting instructions page 824



Taper Bushes

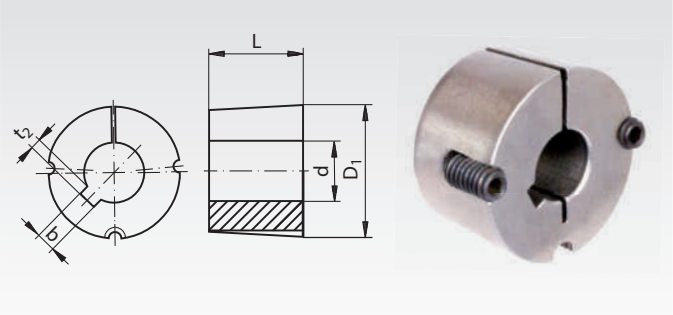
Material: GG20.
Bores ISO E8, feather keyways in accordance with DIN 6885/1.
Screws included in delivery.

Shaft tolerance +0.05/-0.125 mm.
Can be used with or without parallel key, depending on the required torque.

Other bush sizes and bores available at short notice (some in stock).

Assembly instructions see page 824.

Ordering Details: e.g.: Product No. 622 501 10, Taper Bush 1008, 10 mm Bore



Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 501 10	1008	10	3	1,4	22,3	35	160
622 501 11	1008	11	4	1,8	22,3	35	140
622 501 12	1008	12	4	1,8	22,3	35	120
622 501 14	1008	14	5	2,3	22,3	35	118
622 501 15	1008	15	5	2,3	22,3	35	116
622 501 16	1008	16	5	2,3	22,3	35	112
622 501 18	1008	18	6	2,8	22,3	35	100
622 501 19	1008	19	6	2,8	22,3	35	98
622 501 20	1008	20	6	2,8	22,3	35	94
622 501 22	1008	22	6	2,8	22,3	35	80
622 501 24	1008	24	8[1)]	1,3[1)]	22,3	35	70
622 501 25	1008	25	8[1)]	1,3[1)]	22,3	35	68
622 502 10	1108	10	3	1,4	22,3	38	180
622 502 11	1108	11	4	1,8	22,3	38	165
622 502 12	1108	12	4	1,8	22,3	38	154
622 502 14	1108	14	5	2,3	22,3	38	148
622 502 16	1108	16	5	2,3	22,3	38	140
622 502 18	1108	18	6	2,8	22,3	38	132
622 502 19	1108	19	6	2,8	22,3	38	126
622 502 20	1108	20	6	2,8	22,3	38	122
622 502 22	1108	22	6	2,8	22,3	38	112
622 502 24	1108	24	8	3,3	22,3	38	96
622 502 25	1108	25	8	3,3	22,3	38	92
622 502 28	1108	28	8[1)]	1,3[1)]	22,3	38	88
622 503 10	1210	10	3	1,4	25,4	47,5	282
622 503 11	1210	11	4	1,8	25,4	47,5	280
622 503 12	1210	12	4	1,8	25,4	47,5	278
622 503 14	1210	14	5	2,3	25,4	47,5	274
622 503 16	1210	16	5	2,3	25,4	47,5	262
622 503 18	1210	18	6	2,8	25,4	47,5	250
622 503 19	1210	19	6	2,8	25,4	47,5	244
622 503 20	1210	20	6	2,8	25,4	47,5	240
622 503 22	1210	22	6	2,8	25,4	47,5	224
622 503 24	1210	24	8	3,3	25,4	47,5	208
622 503 25	1210	25	8	3,3	25,4	47,5	208
622 503 28	1210	28	8	3,3	25,4	47,5	184
622 503 30	1210	30	8	3,3	25,4	47,5	168
622 503 32	1210	32	10	3,3	25,4	47,5	160
622 513 14	1215	14	5	2,3	38,1	47,5	380
622 513 16	1215	16	5	2,3	38,1	47,5	370
622 513 18	1215	18	6	2,8	38,1	47,5	350
622 513 19	1215	19	6	2,8	38,1	47,5	340
622 513 20	1215	20	6	2,8	38,1	47,5	335
622 513 22	1215	22	6	2,8	38,1	47,5	320
622 513 24	1215	24	8	3,3	38,1	47,5	290
622 513 25	1215	25	8	3,3	38,1	47,5	285
622 513 28	1215	28	8	3,3	38,1	47,5	260
622 513 30	1215	30	8	3,3	38,1	47,5	230
622 513 32	1215	32	10	3,3	38,1	47,5	200

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 504 12	1610	12	4	1,8	25,4	57	416
622 504 14	1610	14	5	2,3	25,4	57	412
622 504 15	1610	15	5	2,3	25,4	57	408
622 504 16	1610	16	5	2,3	25,4	57	402
622 504 18	1610	18	6	2,8	25,4	57	390
622 504 19	1610	19	6	2,8	25,4	57	380
622 504 20	1610	20	6	2,8	25,4	57	373
622 504 22	1610	22	6	2,8	25,4	57	366
622 504 24	1610	24	8	3,3	25,4	57	356
622 504 25	1610	25	8	3,3	25,4	57	348
622 504 28	1610	28	8	3,3	25,4	57	324
622 504 30	1610	30	8	3,3	25,4	57	304
622 504 32	1610	32	10	3,3	25,4	57	280
622 504 35	1610	35	10	3,3	25,4	57	264
622 504 38	1610	38	10	3,3	25,4	57	240
622 504 40	1610	40	12	3,3	25,4	57	210
622 504 42	1610	42	12	3,3	25,4	57	200
622 508 18	1615	18	6	2,8	38,1	57	561
622 508 20	1615	20	6	2,8	38,1	57	552
622 508 22	1615	22	6	2,8	38,1	57	540
622 508 24	1615	24	8	3,3	38,1	57	520
622 508 25	1615	25	8	3,3	38,1	57	510
622 508 30	1615	30	8	3,3	38,1	57	446
622 508 32	1615	32	10	3,3	38,1	57	414
622 508 35	1615	35	10	3,3	38,1	57	380
622 508 38	1615	38	10	3,3	38,1	57	346
622 508 40	1615	40	12	3,3	38,1	57	340
622 508 42	1615	42	12[2)]	2,2[2)]	38,1	57	260
622 505 12	2012	12	4	1,8	31,8	70	810
622 505 14	2012	14	5	2,3	31,8	70	800
622 505 15	2012	15	5	2,3	31,8	70	785
622 505 16	2012	16	5	2,3	31,8	70	770
622 505 18	2012	18	6	2,8	31,8	70	762
622 505 19	2012	19	6	2,8	31,8	70	756
622 505 20	2012	20	6	2,8	31,8	70	750
622 505 22	2012	22	6	2,8	31,8	70	736
622 505 24	2012	24	8	3,3	31,8	70	724
622 505 25	2012	25	8	3,3	31,8	70	714
622 505 28	2012	28	8	3,3	31,8	70	684
622 505 30	2012	30	8	3,3	31,8	70	658
622 505 32	2012	32	10	3,3	31,8	70	630
622 505 35	2012	35	10	3,3	31,8	70	604
622 505 38	2012	38	10	3,3	31,8	70	566
622 505 40	2012	40	12	3,3	31,8	70	538
622 505 42	2012	42	12	3,3	31,8	70	510
622 505 45	2012	45	14	3,8	31,8	70	460
622 505 48	2012	48	14	3,8	31,8	70	404
622 505 50	2012	50	14	3,8	31,8	70	372

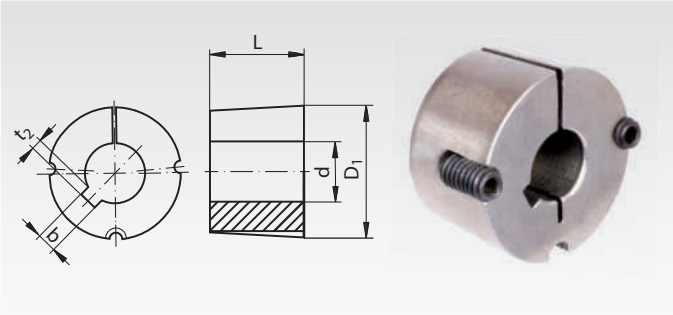
[1)] With flat keyway 1.3mm.
[2)] With flat keyway 2.2mm.

Taper Bushes

Material: GG20.
Bores ISO E8, feather keyways in accordance with DIN 6885/1.
Screws included in delivery.

Shaft tolerance +0.05/-0.125 mm.
Can be used with or without parallel key, depending on the required torque.

Other bush sizes and bores available at short notice (some in stock).



Ordering Details: e.g.: Product No. 622 506 16, Taper Bush 2517, 16 mm Bore

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 506 16	2517	16	5	2,3	44,5	85,5	1800
622 506 18	2517	18	6	2,8	44,5	85,5	1700
622 506 19	2517	19	6	2,8	44,5	85,5	1620
622 506 20	2517	20	6	2,8	44,5	85,5	1602
622 506 22	2517	22	6	2,8	44,5	85,5	1568
622 506 24	2517	24	8	3,3	44,5	85,5	1566
622 506 25	2517	25	8	3,3	44,5	85,5	1556
622 506 28	2517	28	8	3,3	44,5	85,5	1520
622 506 30	2517	30	8	3,3	44,5	85,5	1488
622 506 32	2517	32	10	3,3	44,5	85,5	1450
622 506 35	2517	35	10	3,3	44,5	85,5	1396
622 506 38	2517	38	10	3,3	44,5	85,5	1346
622 506 40	2517	40	12	3,3	44,5	85,5	1316
622 506 42	2517	42	12	3,3	44,5	85,5	1274
622 506 45	2517	45	14	3,8	44,5	85,5	1204
622 506 48	2517	48	14	3,8	44,5	85,5	1126
622 506 50	2517	50	14	3,8	44,5	85,5	1080
622 506 55	2517	55	16	4,3	44,5	85,5	958
622 506 60	2517	60	18	4,4	44,5	85,5	810
622 506 65	2517	65	18[1)]	3,4[1)]	44,5	85,5	650
622 507 25	3020	25	8	3,3	50,8	108	2910
622 507 28	3020	28	8	3,3	50,8	108	2790
622 507 30	3020	30	8	3,3	50,8	108	2840
622 507 32	3020	32	10	3,3	50,8	108	2800
622 507 35	3020	35	10	3,3	50,8	108	2745
622 507 38	3020	38	10	3,3	50,8	108	2700
622 507 40	3020	40	12	3,3	50,8	108	2635
622 507 42	3020	42	12	3,3	50,8	108	2594
622 507 45	3020	45	14	3,8	50,8	108	2515
622 507 48	3020	48	14	3,8	50,8	108	2425
622 507 50	3020	50	14	3,8	50,8	108	2370
622 507 55	3020	55	16	4,3	50,8	108	2234
622 507 60	3020	60	18	4,4	50,8	108	2000
622 507 65	3020	65	18	4,4	50,8	108	1888
622 507 70	3020	70	20	4,9	50,8	108	1700
622 507 75	3020	75	20	4,9	50,8	108	1485

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 511 40	3030	40	12	3,3	76,2	108	3820
622 511 45	3030	45	14	3,8	76,2	108	3550
622 511 50	3030	50	14	3,8	76,2	108	3420
622 511 60	3030	60	18	4,4	76,2	108	2950
622 511 65	3030	65	18	4,4	76,2	108	2680
622 511 70	3030	70	20	4,9	76,2	108	2060
622 511 75	3030	75	20	4,9	76,2	108	1640
622 509 35	3525	35	10	3,3	64,9	127	4910
622 509 38	3525	38	10	3,3	64,9	127	4850
622 509 40	3525	40	12	3,3	64,9	127	4800
622 509 50	3525	50	14	3,8	64,9	127	4440
622 509 60	3525	60	18	4,4	64,9	127	4050
622 509 75	3525	75	20	4,9	64,9	127	3370
622 509 80	3525	80	22	5,4	64,9	127	3050
622 510 50	3535	50	14	3,8	88,9	127	6050
622 510 55	3535	55	16	4,3	88,9	127	5810
622 510 60	3535	60	18	4,4	88,9	127	5500
622 510 65	3535	65	18	4,4	88,9	127	5200
622 510 70	3535	70	20	4,9	88,9	127	4880
622 510 75	3535	75	20	4,9	88,9	127	4460
622 510 80	3535	80	22	5,4	88,9	127	4080
622 510 90	3535	90	25	5,4	88,9	127	3210

Other bush sizes on request.

Assembly Instructions Page 824 and at www.maedler.de

[1)] With flat keyway 3.4mm.

Spare Screws for Taper Bushes

Material: Steel.

Supply: One screw (order quantity as needed).

Taper bushes have two or (from size 3030) three screws depending on size.

Ordering Details: e.g.: Product No. 622 501 99, Spare Screw , Taper Bush 1008 and 1108

Product No.	to match Taper bush	Size inch	Screw type	Tightening Torque Nm	Weight g
622 501 99	1008 and 1108	1/4''	Set screw with internal hexagon	5.6	1.9
622 503 99	1210 to 1615	3/8''	Set screw with internal hexagon	20	5.2
622 505 99	2012 and 2017	7/16''	Set screw with internal hexagon	30	11
622 506 99	2517 and 2525	1/2''	Set screw with internal hexagon	50	16.4
622 507 99	3020 and 3030	5/8''	Set screw with internal hexagon	90	33.2
622 510 99	3525 and 3535	1/2''	Screw with internal hexagon	90	49.7

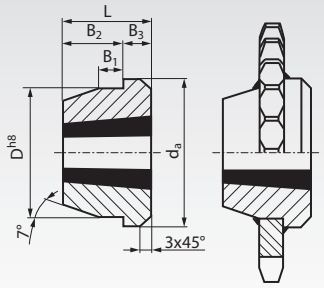
Welding Hubs for Taper Bushes

Material: Steel (St52 or comparable), good weldable.

Hub for fixing a chain plate wheel or similar parts with a low priced taper bush onto a shaft.
Taper bush and chain plate wheel have to be ordered separately.
Recommended bore tolerance: H8.

Before welding, a taper bush should be mounted with a piece of shaft into the welding hub to avoid deforming by heat.

Other sizes for taper bushes up to type 5050 are available at short delivery time.

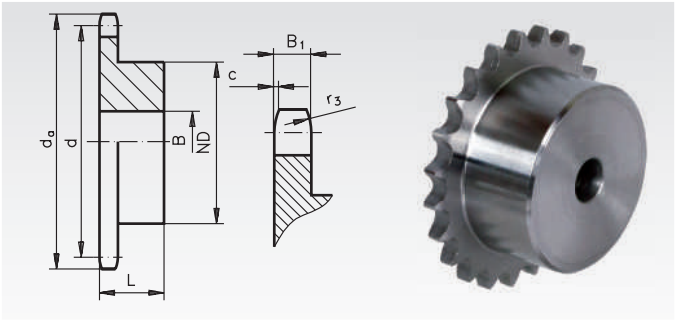


Ordering Details: e.g.: Product No. 140 901 01, Welding Hub for Taper Bush 1210

Product No.	For Taper Bush Type	d_a mm	D^{h8} mm	B_1 mm	B_2 mm	B_3 mm	L mm	Weight kg
140 901 01	1210	73	60	10	16	9	25	0,31
140 901 02	1215	76	60	11	22	16	38	0,50
140 901 03	1610	83	70	10	16	9	25	0,37
140 901 04	1615	83	70	11	22	16	38	0,60
140 901 05	2012	96	90	12	22	10	32	0,72
140 901 06	2517	127	110	13	26	19	45	1,8
140 901 07	3020	152	130	18	27	24	51	2,6
140 901 08	3030	152	130	19	51	25	76	3,6
140 901 09	3525	184	155	25	40	25	65	7,3
140 901 10	3535	184	155	25	57	32	89	6,4

Taper Bushes page 76

Sprockets KRS with One-Sided Hub, Pitch 4mm and 5mm

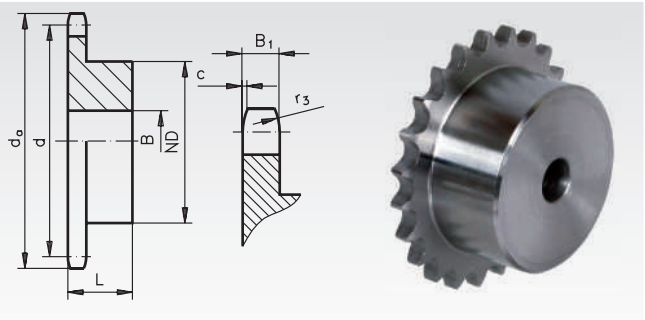


Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 100 012 00, KRS, Pitch 4 mm, 12 Teeth

Pitch 4 mm KRS, B_1 = 2.45 mm, c = 0.33 mm, r_3 = 3.75 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
100 012 00	12	16,9	15,45	10	5	11	8
100 013 00	13	18,2	16,71	11	5	12	8
100 014 00	14	19,5	17,98	12,5	5	12	11
100 015 00	15	20,8	19,24	13,5	5	12	14
100 017 00	17	23,4	21,77	16	5	12	19
100 019 00	19	26,0	24,30	18	8	12	22
100 021 00	21	28,5	26,84	20	8	12	28
100 023 00	23	31,1	29,38	22	8	14	41
100 024 00	24	32,4	30,65	25	8	14	51
100 025 00	25	33,7	31,94	25	8	14	52
100 030 00	30	40,1	38,27	28	8	14	71
100 038 00	38	50,3	48,44	32	8	16	112
100 045 00	45	59,2	57,34	38	8	16	161
100 057 00	57	74,5	72,61	50	8	16	276
100 076 00	76	98,7	96,79	63	8	18	508
100 083 00	95	122,9	121,00	63	10	18	582
100 088 00	114	147,1	145,17	63	10	20	708



Material: Low-carbon steel, not hardable.
Pre-bored.

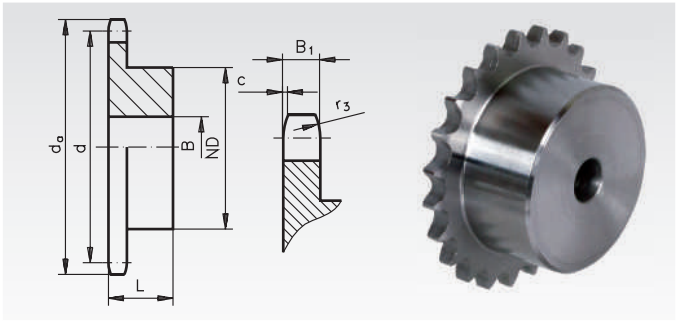
Ordering Details: e.g.: Product No. 100 311 00, KRS, Pitch 5 mm, 11 Teeth

Pitch 5 mm KRS, ISO 03, B_1= 2.3 mm, c= 0.5 mm, r_3= 5 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
100 311 00	11	19,8	17,75	11	6	10	9
100 312 00	12	21,4	19,32	12	6	10	13
100 313 00	13	22,9	20,89	14	6	10	17
100 314 00	14	24,5	22,47	15	6	10	19
100 315 00	15	26,1	24,04	16	6	10	21
100 317 00	17	29,3	27,20	18	8	13	28
100 319 00	19	32,5	30,38	18	8	13	47
100 321 00	21	35,7	33,54	20	8	13	57
100 323 00	23	38,9	36,72	20	8	13	76
100 325 00	25	42,1	39,89	20	8	13	90
100 330 00	30	50,1	47,83	25	8	15	158
100 338 00	38	62,8	60,54	30	8	15	207
100 345 00	45	74,0	71,68	55	10	16	314
100 357 00	57	93,1	90,76	63	12	16	431

Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRS with One-Sided Hub, ISO 04



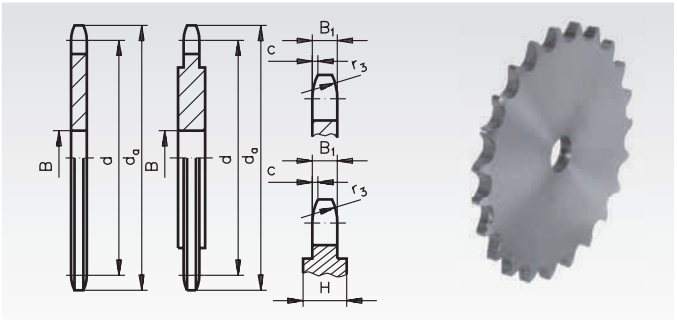
Material: Low-carbon steel, not hardable. Pre-bored.
Sprockets marked with 1) made from St52 with welded in hub.

Ordering Details: e.g.: Product No. 100 608 00, KRS, Pitch 6 mm, 8 Teeth

Pitch 6 mm KRS, B_1 = 2.6 mm, c = 0.7 mm, r_3 = 6 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
100 608 00	8	18,0	15,67	9,8	5	10	6
100 609 00	9	19,9	17,54	11,5	5	10	8
100 610 00	10	21,7	19,42	13	6	10	10
100 611 00	11	23,6	21,30	14	6	10	12
100 612 00	12	25,4	23,18	16	6	10	17
100 613 00	13	27,3	25,05	18	8	10	19
100 614 00	14	29,2	26,96	20	8	10	24
100 615 00	15	31,0	28,86	20	8	10	25
100 616 00	16	33,0	30,76	20	8	13	33
100 617 00	17	35,0	32,65	20	8	13	35
100 618 00	18	36,9	34,55	20	8	13	37
100 619 00	19	38,8	36,44	20	8	13	38
100 620 00	20	40,7	38,34	20	8	13	42
100 621 00	21	42,6	40,25	25	8	13	56
100 622 00	22	44,5	42,16	25	8	13	60
100 623 00	23	46,4	44,06	25	8	13	63
100 624 00	24	48,3	45,96	25	8	13	64
100 625 00	25	50,2	47,87	25	8	13	65
100 626 00	26	52,1	49,76	30	8	15	98
100 627 00	27	54,0	51,67	30	8	15	101
100 628 00	28	55,9	53,58	30	8	15	103
100 630 00	30	59,8	57,42	30	8	15	111
100 632 00	32	63,6	61,21	30	10	15	118
100 635 00	35	69,3	66,93	30	10	15	126
100 636 00	36	71,2	68,84	30	10	15	132
100 638 00	38	75,0	72,66	30	10	15	140
100 640 00	40	78,9	76,47	30	10	15	146
100 645 00	45	88,5	86,01	40	10	18	229
100 657 00	57	111,4	108,93	50	12	20	462
100 676 00	76[1)]	147,6	145,19	80	16	34	773

Plate wheels KRL, ISO 04



Material: Low-carbon steel, not hardable. Pre-bored.
Pitch 6 mm KRL from a Teeth Number of 54 reinforced (H = 4 mm, see drawing).

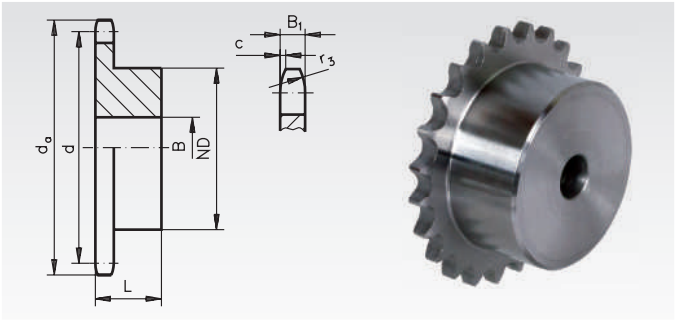
Ordering Details: e.g.: Product No. 100 708 00, KRL, Pitch 6 mm, 8 Teeth

Pitch 6 mm KRL, B_1= 2.6 mm, c= 0.7 mm, r_3= 6 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
100 708 00	8	18,0	15,67	5	2
100 709 00	9	19,9	17,54	5	3
100 710 00	10	21,7	19,42	6	4
100 711 00	11	23,6	21,30	6	5
100 712 00	12	25,4	23,18	6	6
100 713 00	13	27,3	25,05	8	7
100 714 00	14	29,2	26,96	8	8
100 715 00	15	31,0	28,86	8	10
100 716 00	16	33,0	30,76	8	12
100 717 00	17	35,0	32,65	8	13
100 718 00	18	36,9	34,55	8	15
100 719 00	19	38,8	36,44	8	16
100 720 00	20	40,7	38,34	8	19
100 721 00	21	42,6	40,25	8	21
100 722 00	22	44,5	42,16	8	23
100 723 00	23	46,4	44,06	8	26
100 724 00	24	48,3	45,96	8	29
100 725 00	25	50,2	47,87	8	30
100 726 00	26	52,1	49,77	8	34
100 727 00	27	54,0	51,67	8	35
100 728 00	28	55,9	53,58	8	38
100 730 00	30	59,8	57,42	8	45
100 732 00	32	63,6	61,21	10	47
100 735 00	35	69,3	66,93	10	63
100 736 00	36	71,2	68,84	10	67
100 738 00	38	75,0	72,66	10	75
100 740 00	40	78,9	76,47	10	85
100 742 00	42	82,7	80,28	12	90
100 745 00	45	88,5	86,01	12	108
100 748 00	48	94,2	91,74	12	118
100 750 00	50	98,0	95,55	12	128
100 754 00	54	105,6	103,17	12	220
100 757 00	57	111,4	108,93	12	254
100 760 00	60	117,1	114,62	12	291
100 770 00	70	136,2	133,73	16	401
100 776 00	76	147,6	145,19	16	458
100 780 00	80	155,3	152,82	16	508
100 783 00	95	183,9	181,47	16	732
100 788 00	114	220,2	217,75	16	1070

Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRS with One-Sided Hub, ISO 05 B-1



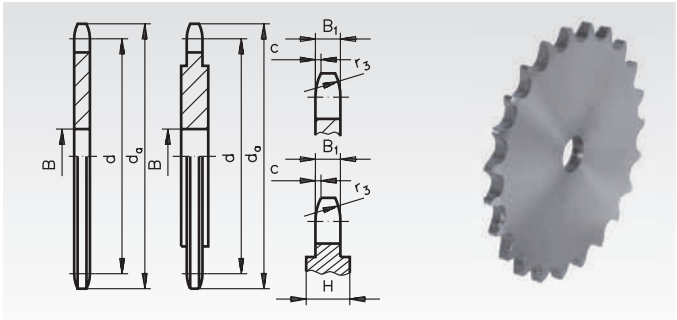
Material: Low-carbon steel, not hardable. Pre-bored.
Sprockets marked with 1) with welded in hub.

Ordering Details: e.g.: Product No. 100 808 00, KRS, Pitch 8 mm, 8 Teeth

Pitch 8 mm KRS, B_1 = 2.8 mm, c = 1.0 mm, r_3 = 8 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
100 808 00	8	24,0	20,90	13	6	12	13
100 809 00	9	26,6	23,39	15	6	12	18
100 810 00	10	29,2	25,89	17	8	12	21
100 811 00	11	31,7	28,39	18	8	13	27
100 812 00	12	34,2	30,91	20	8	13	34
100 813 00	13	36,7	33,42	23	8	13	44
100 814 00	14	39,2	35,95	25	8	13	54
100 815 00	15	41,7	38,48	28	8	13	65
100 816 00	16	44,3	41,01	30	8	14	80
100 817 00	17	46,8	43,53	30	8	14	85
100 818 00	18	49,3	46,07	30	8	14	88
100 819 00	19	51,9	48,61	30	8	14	93
100 820 00	20	54,4	51,14	30	8	14	97
100 821 00	21	57,0	53,68	35	8	14	124
100 822 00	22	59,5	56,21	35	8	14	127
100 823 00	23	62,0	58,75	35	8	14	131
100 824 00	24	64,6	61,29	35	8	14	140
100 825 00	25	67,5	63,83	35	8	14	142
100 826 00	26	69,5	66,37	40	10	16	192
100 827 00	27	72,2	68,91	40	10	16	195
100 828 00	28	74,8	71,45	40	10	16	202
100 830 00	30	79,8	76,53	40	10	16	205
100 832 00	32	84,9	81,61	40	12	16	214
100 835 00	35	92,5	89,25	40	12	16	236
100 836 00	36	95,0	91,79	40	12	16	245
100 838 00	38	100,2	96,88	40	12	16	267
100 840 00	40	105,3	101,97	40	12	16	292
100 845 00	45	118,0	114,69	60	12	20	565
100 857 00	57[1)]	148,6	145,22	80	14	20	1101
100 876 00	76[1)]	197,7	193,59	80	20	25	1749

Plate wheels KRL, ISO 05 B-1



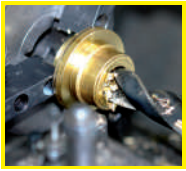
Material: Low-carbon steel, not hardable.
Pre-bored.
Pitch 8 mm KRL from a Teeth Number of 48 reinforced (H = 4 mm, see drawing).

Ordering Details: e.g.: Product No. 100 908 00, KRL Pitch 8 mm, 8 Teeth

Pitch 8 mm KRL, B_1= 2.8 mm, c= 1.0 mm, r_3= 8 mm

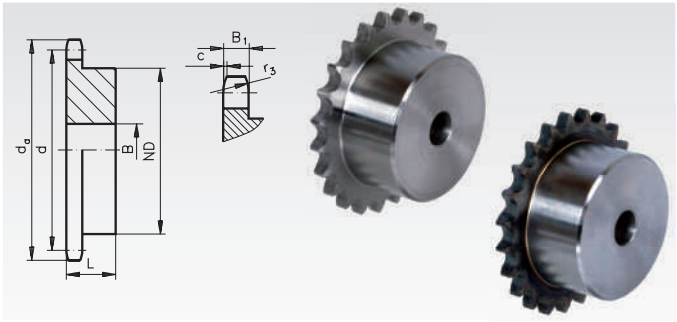
Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
100 908 00	8	24,0	20,90	6	5
100 909 00	9	26,6	23,39	6	6
100 910 00	10	29,2	25,89	8	9
100 911 00	11	31,7	28,39	8	10
100 912 00	12	34,2	30,91	8	13
100 913 00	13	36,7	33,42	8	15
100 914 00	14	39,2	35,95	8	18
100 915 00	15	41,7	38,48	8	21
100 916 00	16	44,3	41,01	8	24
100 917 00	17	46,8	43,53	8	28
100 918 00	18	49,3	46,07	8	32
100 919 00	19	51,9	48,61	8	36
100 920 00	20	54,4	51,14	8	41
100 921 00	21	57,0	53,68	10	42
100 922 00	22	59,5	56,21	10	48
100 923 00	23	62,0	58,75	10	53
100 924 00	24	64,6	61,29	10	59
100 925 00	25	67,5	63,83	10	64
100 926 00	26	69,5	66,37	10	65
100 927 00	27	72,2	68,91	10	71
100 928 00	28	74,8	71,45	10	81
100 930 00	30	79,8	76,53	10	93
100 932 00	32	84,9	81,61	10	105
100 935 00	35	92,5	89,25	10	122
100 936 00	36	95,0	91,79	10	137
100 938 00	38	100,2	96,88	12	149
100 940 00	40	105,3	101,97	12	173
100 942 00	42	110,4	107,05	12	191
100 945 00	45	118,0	114,69	12	211
100 948 00	48	125,6	122,32	12	340
100 950 00	50	130,7	127,41	12	354
100 954 00	54	140,9	137,59	16	420
100 957 00	57	148,6	145,22	16	475
100 960 00	60	156,2	152,85	16	507
100 965 00	65	169,6	165,58	16	620
100 970 00	70	182,4	178,31	16	680
100 976 00	76	197,7	193,59	20	836
100 980 00	80	207,9	203,77	20	941
100 983 00	95	246,1	241,96	20	1341
100 988 00	114	294,5	290,33	20	1992

Sprockets made from stainless steel page 63.



Reworking within 24h-service possible. Custom made parts on request.

Sprockets with One-Sided Hub, ISO 06 B-1



Material: Steel C45, optionally hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Type KRS: Not hardened. **Type KRG:** Teeth induction hardened.

Ordering Details: e.g.: Product No. 101 108 00, KRS, 3/8 x 7/32", 8 Teeth

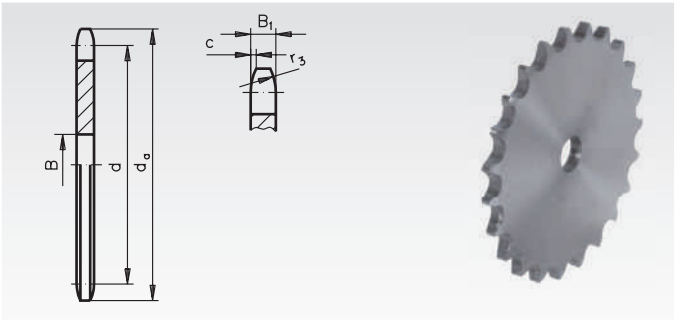
Pitch 3/8 x 7/32" KRS and KRG
B_1 = 5.3 mm, c = 1.0 mm, r_3 = 10 mm

Product No. Type KRS	Product No. Type KRG	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
101 108 00	101 881 08	8	28,0	24,89	15	8	22	34
101 109 00	101 881 09	9	31,0	27,85	18	8	22	43
101 110 00	101 881 10	10	34,0	30,82	20	8	22	58
101 111 00	101 881 11	11	37,0	33,80	22	8	25	79
101 112 00	101 881 12	12	40,0	36,80	25	8	25	101
101 113 00	101 881 13	13	43,0	39,79	28	10	25	123
101 114 00	101 881 14	14	46,3	42,80	31	10	25	152
101 115 00	101 881 15	15	49,3	45,81	34	10	25	184
101 116 00	101 881 16	16	52,3	48,82	37	10	28	141
101 117 00	101 881 17	17	55,3	51,83	40	10	28	285
101 118 00	101 881 18	18	58,3	54,85	43	10	28	230
101 119 00	101 881 19	19	61,3	57,87	45	10	28	364
101 120 00	101 881 20	20	64,3	60,89	46	10	28	389
101 121 00	101 881 21	21	68,0	63,91	48	12	28	416
101 122 00	101 881 22	22	71,0	66,93	50	12	28	456
101 123 00	101 881 23	23	73,5	69,95	52	12	28	494
101 124 00	101 881 24	24	77,0	72,97	54	12	28	544
101 125 00	101 881 25	25	80,0	76,00	57	12	28	592
101 126 00	101 881 26	26	83,0	79,02	60	12	28	666
101 127 00	101 881 27	27	86,0	82,05	60	12	28	680
101 128 00	101 881 28	28	89,0	85,07	60	12	28	694
101 130 00	101 881 30	30	94,7	91,12	60	12	30	767
101 132 00	-	32	101,3	97,17	65	14	30	890
101 135 00	-	35	110,4	106,26	65	14	30	948
101 136 00	-	36	113,4	109,29	70	16	30	1024
101 138 00	-	38	119,5	115,35	70	16	30	1109
101 140 00	-	40	125,5	121,40	70	16	30	1160
101 145 00*	-	45	140,7	136,55	70	20	32	1245
101 157 00*	-	57	176,9	172,91	70	20	32	1462
101 176 00*	-	76	234,9	230,49	70	20	32	2177
101 183 00*	-	95	292,5	288,08	80	20	40	3488
101 188 00*	-	114	349,6	345,68	80	20	40	4244

Sprockets marked with * are made from grey cast iron GG22.

Sprockets made from stainless steel page 63.
Sprockets ready-to-mount page 64.
Sprockets for Taper clamping bushes page 74.

Plate wheels KRL, ISO 06 B-1



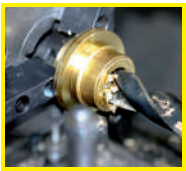
Material: Low-carbon steel, not hardable.
Pre-bored.

Type KRL: Without hub, not hardened.

Ordering Details: e.g.: Product No. 101 208 00, KRL, 3/8 x 7/32", 8 Teeth

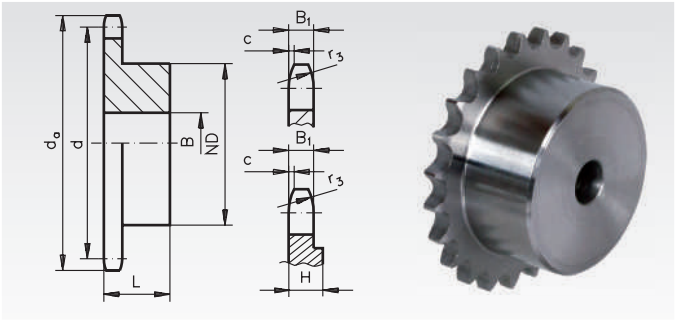
Pitch 3/8 x 7/32" KRL
B_1 = 5.3 mm, c = 1.0 mm, r_3 = 10 mm

Product No. Type KRL	Number of teeth	d_a mm	d mm	B mm	Weight g
101 208 00	8	28,0	24,89	6	14
101 209 00	9	31,0	27,85	8	17
101 210 00	10	34,0	30,82	8	23
101 211 00	11	37,0	33,80	8	28
101 212 00	12	40,0	36,80	8	32
101 213 00	13	43,0	39,79	8	39
101 214 00	14	46,3	42,80	8	46
101 215 00	15	49,3	45,81	8	53
101 216 00	16	52,3	48,82	10	62
101 217 00	17	55,3	51,83	10	72
101 218 00	18	58,3	54,85	10	79
101 219 00	19	61,3	57,87	10	89
101 220 00	20	64,3	60,89	10	101
101 221 00	21	68,0	63,91	10	111
101 222 00	22	71,0	66,93	10	123
101 223 00	23	73,5	69,95	10	140
101 224 00	24	77,0	72,97	10	151
101 225 00	25	80,0	76,02	10	160
101 226 00	26	83,0	79,02	10	175
101 227 00	27	86,0	82,05	10	188
101 228 00	28	89,0	85,07	10	202
101 230 00	30	94,7	91,12	10	235
101 232 00	32	101,3	97,17	12	267
101 235 00	35	110,4	106,26	12	326
101 236 00	36	113,4	109,20	12	351
101 238 00	38	119,5	115,35	12	393
101 240 00	40	125,5	121,40	12	422
101 242 00	42	131,6	127,46	16	461
101 244 00	44	137,6	133,52	16	515
101 245 00	45	140,7	136,55	16	534
101 248 00	48	149,7	145,64	16	653
101 250 00	50	155,7	151,69	20	680
101 254 00	54	167,8	163,82	20	842
101 257 00	57	176,9	172,91	20	863
101 260 00	60	186,0	181,99	20	1010
101 265 00	65	201,6	197,15	20	1108
101 270 00	70	216,7	212,30	20	1326
101 272 00	72	222,8	218,37	20	1386
101 276 00	76	234,9	230,49	20	1555
101 280 00	80	247,1	242,61	20	1758
101 283 00	95	292,5	288,08	25	2400
101 288 00	114	349,5	345,68	25	4923



Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRS with One-Sided Hub, ISO 081



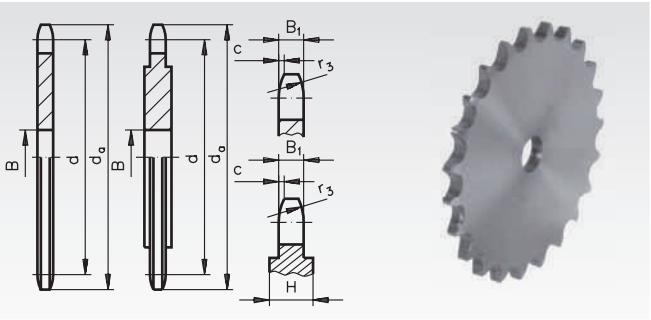
Material: Steel C45, not hardened.
Pre-bored.
Pitch 1/2 x 1/8" KRS from a Teeth Number of 32 reinforced (H = 4 mm, see drawing).

Ordering Details: e.g.: Product No. 102 108 00, KRS, 1/2 x 1/8", 8 Teeth

Pitch 1/2 x 1/8" KRS
B_1 = 3 mm, c = 1.0 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
102 108 00	8	37,2	33,18	21	8	14	41
102 109 00	9	41,5	37,13	25	8	14	57
102 110 00	10	46,2	41,10	28	8	14	73
102 111 00	11	49,6	45,07	31	8	16	103
102 112 00	12	53,9	49,07	35	8	16	129
102 113 00	13	58,4	53,07	39	8	16	158
102 114 00	14	62,8	57,07	43	8	16	194
102 115 00	15	66,8	61,09	47	8	16	228
102 116 00	16	70,9	65,10	50	10	18	291
102 117 00	17	74,9	69,11	50	10	18	300
102 118 00	18	78,9	73,14	50	10	18	303
102 119 00	19	82,9	77,16	50	10	18	317
102 120 00	20	86,9	81,19	50	10	18	329
102 121 00	21	91,0	85,22	60	12	20	478
102 122 00	22	95,0	89,24	60	12	20	490
102 123 00	23	99,0	93,27	60	12	20	508
102 124 00	24	103,0	97,29	60	12	20	517
102 125 00	25	107,1	101,33	60	12	20	537
102 126 00	26	111,2	105,36	70	16	20	676
102 127 00	27	115,4	109,40	70	16	20	689
102 128 00	28	119,4	113,42	70	16	20	697
102 130 00	30	127,5	121,50	70	16	20	733
102 132 00	32	135,5	129,56	70	16	20	853
102 134 00	34	143,6	137,64	70	16	20	931
102 135 00	35	147,6	141,68	70	16	20	942
102 136 00	36	151,7	145,72	70	16	25	1062
102 138 00	38	159,8	153,80	70	16	25	1178
102 140 00	40	167,8	161,87	70	16	25	1254

Plate wheels KRL, ISO 081



Material: Low-carbon steel, not hardable.
Pre-bored.
Pitch 1/2 x 1/8" KRL from a Teeth Number of 32 reinforced (H = 4 mm, see drawing, from a Teeth Number of 90 H = 6 mm).

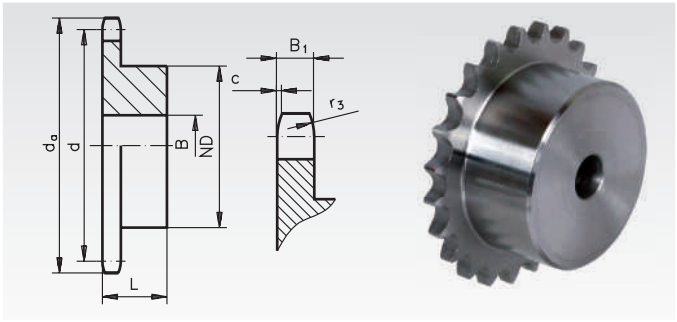
Ordering Details: e.g.: Product No. 102 208 00, KRL, 1/2 x 1/8", 8 Teeth

Pitch 1/2 x 1/8" KRL
B_1 = 3 mm, c = 1.0 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
102 208 00	8	37,2	33,18	8	15
102 209 00	9	41,5	37,13	8	19
102 210 00	10	46,2	41,10	8	26
102 211 00	11	49,6	45,07	8	30
102 212 00	12	53,9	49,07	8	38
102 213 00	13	58,4	53,07	8	45
102 214 00	14	62,8	57,07	8	49
102 215 00	15	66,8	61,09	8	58
102 216 00	16	70,9	65,10	10	66
102 217 00	17	74,9	69,11	10	80
102 218 00	18	78,9	73,14	10	88
102 219 00	19	82,9	77,16	10	101
102 220 00	20	86,9	81,19	10	110
102 221 00	21	91,0	85,22	10	122
102 222 00	22	95,0	89,24	10	139
102 223 00	23	99,0	93,27	10	148
102 224 00	24	103,0	97,29	12	153
102 225 00	25	107,1	101,33	12	187
102 226 00	26	111,2	105,36	12	199
102 227 00	27	115,4	109,40	12	211
102 228 00	28	119,4	113,42	12	222
102 230 00	30	127,5	121,50	12	260
102 232 00	32	135,5	129,56	12	361
102 234 00	34	143,6	137,64	12	435
102 235 00	35	147,6	141,68	12	451
102 236 00	36	151,7	145,72	16	445
102 238 00	38	159,8	153,80	16	398
102 240 00	40	167,8	161,87	16	442
102 242 00	42	175,4	169,95	16	640
102 245 00	45	187,5	182,07	16	705
102 248 00	48	199,7	194,18	20	897
102 250 00	50	207,8	202,26	20	928
102 254 00	54	224,0	218,43	20	1207
102 257 00	57	236,1	230,54	20	1373
102 260 00	60	248,2	242,66	20	1294
102 265 00	65	268,8	262,86	20	1563
102 270 00	70	289,0	283,07	25	1825
102 272 00	72	297,1	291,16	25	1924
102 276 00	76	313,3	307,33	25	2486
102 280 00	80	329,4	323,48	25	2496
102 282 00	90	369,9	363,90	25	4424
102 288 00	114	466,9	460,90	25	6848

Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRS with One-Sided Hub, ISO 083



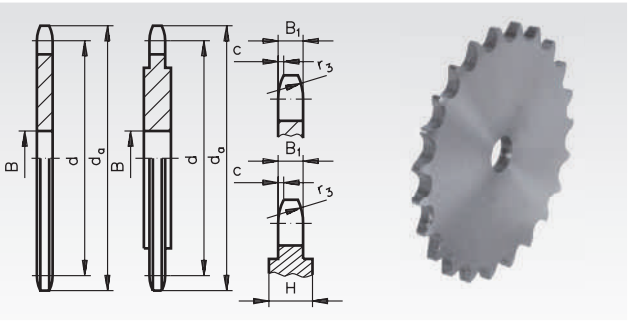
Material: Steel C45, not hardened.
Pre-bored.

Ordering Details: e.g.: Product No. 103 108 00, KRS, 1/2 x 3/16“, 8 Teeth

Pitch 1/2 x 3/16“ KRS
B_1 = 4.5 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
103 108 00	8	38,5	33,18	21	8	14	46
103 109 00	9	41,5	37,13	25	8	14	64
103 110 00	10	46,2	41,10	28	8	14	79
103 111 00	11	49,6	45,07	31	8	16	110
103 112 00	12	53,9	49,07	35	8	16	138
103 113 00	13	58,4	53,07	39	8	16	170
103 114 00	14	62,8	57,07	43	8	16	203
103 115 00	15	66,8	61,09	47	8	16	243
103 116 00	16	70,9	65,10	50	10	18	299
103 117 00	17	74,9	69,11	50	10	18	318
103 118 00	18	78,9	73,14	50	10	18	330
103 119 00	19	82,9	77,16	50	10	18	344
103 120 00	20	86,9	81,19	50	10	18	364
103 121 00	21	91,0	85,22	60	12	20	511
103 122 00	22	95,0	89,24	60	12	20	527
103 123 00	23	99,0	93,27	60	12	20	544
103 124 00	24	103,0	97,29	60	12	20	569
103 125 00	25	107,1	101,33	60	12	20	586
103 126 00	26	111,2	105,36	70	16	20	725
103 127 00	27	115,4	109,40	70	16	20	750
103 128 00	28	119,4	113,42	70	16	20	765
103 130 00	30	127,5	121,50	70	16	20	833
103 132 00	32	135,5	129,56	70	16	20	882
103 134 00	34	143,6	137,64	70	16	20	933
103 135 00	35	147,6	141,68	70	16	20	947
103 136 00	36	151,7	145,72	70	16	25	1103
103 138 00	38	159,8	153,80	70	16	25	1176
103 140 00	40	167,8	161,87	70	16	25	1248

Plate wheels KRL, ISO 083

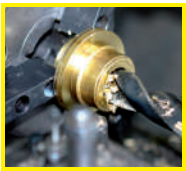


Material: Low-carbon steel, not hardable.
Pre-bored.
Pitch 1/2 x 3/16“ KRL from a Teeth Number of 90 reinforced (H = 6 mm, see drawing).

Ordering Details: e.g.: Product No. 103 208 00, KRL, 1/2 x 3/16“, 8 Teeth

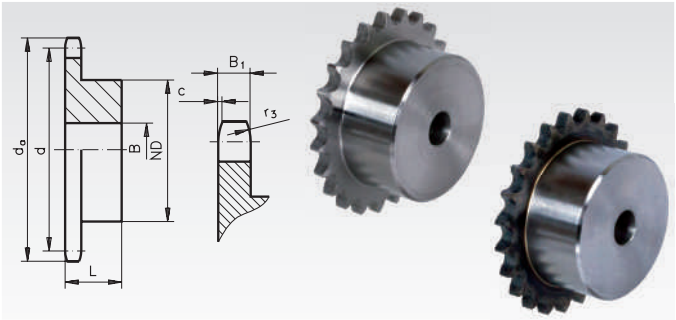
Pitch 1/2 x 3/16“ KRL
B_1 = 4.5 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
103 208 00	8	38,5	33,18	8	21
103 209 00	9	41,5	37,13	8	29
103 210 00	10	46,2	41,10	8	36
103 211 00	11	49,6	45,07	8	42
103 212 00	12	53,9	49,07	8	50
103 213 00	13	58,4	53,07	8	61
103 214 00	14	62,8	57,07	8	74
103 215 00	15	66,8	61,09	8	86
103 216 00	16	70,9	65,10	10	99
103 217 00	17	74,9	69,11	10	112
103 218 00	18	78,9	73,14	10	125
103 219 00	19	82,9	77,16	10	140
103 220 00	20	86,9	81,19	10	154
103 221 00	21	91,0	85,22	10	170
103 222 00	22	95,0	89,24	10	180
103 223 00	23	99,0	93,27	10	210
103 224 00	24	103,0	97,29	12	223
103 225 00	25	107,1	101,33	12	251
103 226 00	26	111,2	105,36	12	264
103 227 00	27	115,4	109,40	12	297
103 228 00	28	119,4	113,42	12	306
103 230 00	30	127,5	121,50	12	324
103 232 00	32	135,5	129,56	12	405
103 234 00	34	143,6	137,64	12	454
103 235 00	35	147,6	141,68	12	495
103 236 00	36	151,7	145,72	16	531
103 238 00	38	159,8	153,80	16	566
103 240 00	40	167,8	161,87	16	632
103 242 00	42	175,4	169,95	16	714
103 245 00	45	187,5	182,07	16	773
103 247 00	47	195,6	190,14	20	886
103 248 00	48	199,7	194,18	20	934
103 250 00	50	207,8	202,26	20	975
103 254 00	54	224,0	218,43	20	1170
103 257 00	57	236,1	230,54	20	1348
103 260 00	60	248,2	242,66	20	1490
103 265 00	65	268,8	262,86	20	1657
103 270 00	70	289,0	283,07	25	1898
103 272 00	72	297,1	291,16	25	2119
103 276 00	76	313,3	307,33	25	2339
103 280 00	80	329,4	323,48	25	2364
103 282 00	90	369,9	363,90	25	4672
103 288 00	114	466,9	460,90	25	7284



Reworking within 24h-service possible. Custom made parts on request.

Sprockets with One-Sided Hub, ISO 08 B-1



Material: Steel C45, optionally hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Type KRS: Not hardened. **Type KRG:** Teeth induction hardened.

Ordering Details: e.g.: Product No. 105 108 00, KRS, 1/2 x 5/16", 8 Teeth

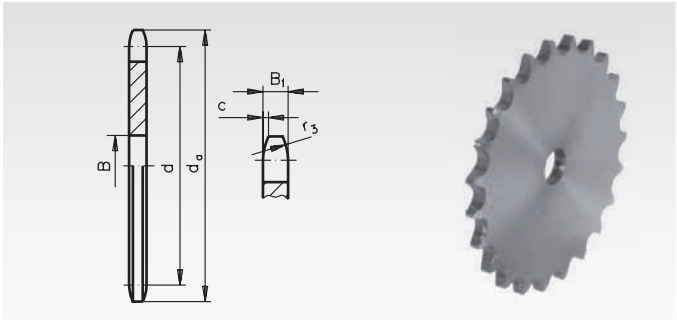
Pitch 1/2 x 5/16" KRS and KRG
B_1 = 7.2 mm, c = 1.3 mm, r_3 = 13 mm

Product No. Type KRS	Product No. Type KRG	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
105 108 00	105 881 08	8	37,2	33,18	20	10	25	66
105 109 00	105 881 09	9	41,0	37,13	24	10	25	96
105 110 00	105 881 10	10	45,2	41,10	26	10	25	120
105 111 00	105 881 11	11	48,7	45,07	29	10	25	148
105 112 00	105 881 12	12	53,0	49,07	33	10	28	212
105 113 00	105 881 13	13	57,4	53,07	37	10	28	264
105 114 00	105 881 14	14	61,8	57,07	41	10	28	323
105 115 00	105 881 15	15	65,5	61,09	45	10	28	385
105 116 00	105 881 16	16	69,5	65,10	50	12	28	461
105 117 00	105 881 17	17	73,6	69,11	52	12	28	502
105 118 00	105 881 18	18	77,8	73,14	56	12	28	588
105 119 00	105 881 19	19	81,7	77,16	60	12	28	670
105 120 00	105 881 20	20	85,8	81,19	64	12	28	758
105 121 00	105 881 21	21	89,7	85,22	68	14	28	855
105 122 00	105 881 22	22	93,8	89,24	70	14	28	917
105 123 00	105 881 23	23	98,2	93,27	70	14	28	948
105 124 00	105 881 24	24	101,8	97,29	70	14	28	972
105 125 00	105 881 25	25	105,8	101,33	70	14	28	1002
105 126 00	105 881 26	26	110,0	105,36	70	16	30	1096
105 127 00	105 881 27	27	114,0	109,40	70	16	30	1140
105 128 00	105 881 28	28	118,0	113,42	70	16	30	1167
105 129 00	105 881 29	29	122,0	117,46	80	16	30	1411
105 130 00	105 881 30	30	126,1	121,50	80	16	30	1446
105 132 00	-	32	134,3	129,56	90	16	30	1786
105 134 00	-	34	142,6	137,64	90	16	30	1867
105 135 00	-	35	146,7	141,68	90	16	30	1921
105 136 00	-	36	151,0	145,72	90	16	35	2208
105 138 00	-	38	158,6	153,80	90	16	35	2317
105 140 00	-	40	166,8	161,87	90	16	35	2444
105 145 00*	-	45	188,0	182,07	70	24	40	1977
105 157 00*	-	57	236,4	230,54	70	24	40	2381
105 176 00*	-	76	313,3	307,33	80	24	40	4333
105 183 00*	-	95	390,1	384,11	80	24	45	4871
105 188 00*	-	114	466,9	460,90	80	24	45	7049

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Plate wheels KRL, ISO 08 B-1



Material: Low-carbon steel, not hardable.
Pre-bored.

Type KRL: Without hub, not hardened.

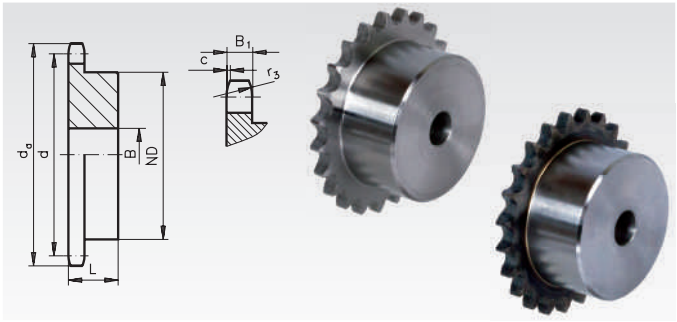
Ordering Details: e.g.: Product No. 105 208 00, KRL, 1/2 x 5/16", 8 Teeth

Pitch 1/2 x 5/16" KRL
B_1 = 7.2 mm, c = 1.3 mm, r_3 = 13 mm

Product No. Type KRL	Number of teeth	d_a mm	d mm	B mm	Weight g
105 208 00	8	37,2	33,18	8	33
105 209 00	9	41,0	37,13	8	42
105 210 00	10	45,2	41,10	8	54
105 211 00	11	48,7	45,07	10	67
105 212 00	12	53,0	49,07	10	81
105 213 00	13	57,4	53,07	10	96
105 214 00	14	61,8	57,07	10	107
105 215 00	15	65,5	61,09	10	135
105 216 00	16	69,5	65,10	10	153
105 217 00	17	73,6	69,11	10	177
105 218 00	18	77,8	73,14	10	200
105 219 00	19	81,7	77,16	10	230
105 220 00	20	85,8	81,19	10	255
105 221 00	21	89,7	85,22	12	279
105 222 00	22	93,8	89,24	12	312
105 223 00	23	98,2	93,27	12	338
105 224 00	24	101,8	97,29	12	363
105 225 00	25	105,8	101,33	12	392
105 226 00	26	110,0	105,36	16	432
105 227 00	27	114,0	109,40	16	456
105 228 00	28	118,0	113,42	16	500
105 229 00	29	122,0	117,46	16	537
105 230 00	30	126,1	121,50	16	573
105 232 00	32	134,3	129,56	16	664
105 234 00	34	142,6	137,64	16	744
105 235 00	35	146,7	141,68	16	782
105 236 00	36	151,0	145,72	16	828
105 238 00	38	158,6	153,80	16	933
105 240 00	40	166,8	161,87	16	1060
105 242 00	42	175,4	169,95	20	1151
105 244 00	44	183,8	178,03	20	1283
105 245 00	45	188,0	182,07	20	1363
105 246 00	46	192,1	186,10	20	1493
105 248 00	48	200,3	194,18	20	1523
105 250 00	50	208,3	202,26	20	1639
105 254 00	54	224,1	218,43	20	1925
105 257 00	57	236,4	230,54	20	2149
105 260 00	60	248,6	242,66	20	2492
105 265 00	65	269,0	262,86	25	2834
105 270 00	70	289,0	283,07	25	3250
105 272 00	72	297,2	291,16	25	3482
105 276 00	76	313,3	307,33	25	3887
105 280 00	80	329,4	323,48	25	4327
105 283 00	95	390,1	384,11	25	6150
105 288 00	114	466,9	460,90	25	9028
105 290 00	120	491,2	485,16	25	10005

Sprockets made from stainless steel page 63.
Sprockets ready-to-mount page 66.
Sprockets for Taper clamping bushes page 74.

Sprockets with One-Sided Hub, ISO 10 B-1



Material: Steel C45, optionally hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Type KRS: Not hardened. **Type KRG:** Teeth induction hardened.

Ordering Details: e.g.: Product No. 106 108 00, KRS, 5/8 x 3/8", 8 Teeth

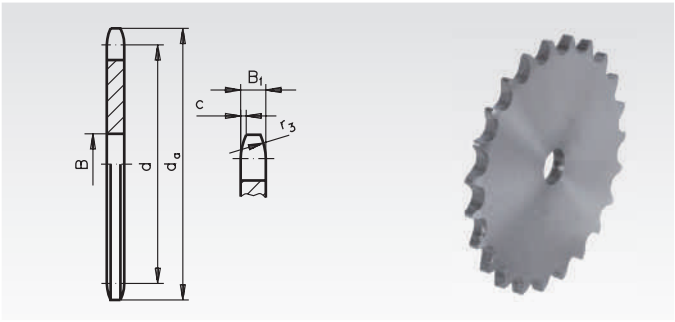
Pitch 5/8 x 3/8" KRS and KRG
B_1 = 9.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No. Type KRS	Product No. Type KRG	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
106 108 00	106 881 08	8	47,0	41,48	25	10	25	0,12
106 109 00	106 881 09	9	52,6	46,42	30	10	25	0,17
106 110 00	106 881 10	10	57,5	51,37	35	10	25	0,23
106 111 00	106 881 11	11	63,0	56,34	37	12	30	0,30
106 112 00	106 881 12	12	68,0	61,34	42	12	30	0,38
106 113 00	106 881 13	13	73,0	66,32	47	12	30	0,47
106 114 00	106 881 14	14	78,0	71,34	52	12	30	0,57
106 115 00	106 881 15	15	83,0	76,36	57	12	30	0,68
106 116 00	106 881 16	16	88,0	81,37	60	12	30	0,76
106 117 00	106 881 17	17	93,0	86,39	60	12	30	0,81
106 118 00	106 881 18	18	98,3	91,42	70	14	30	1,02
106 119 00	106 881 19	19	103,3	96,45	70	14	30	1,07
106 120 00	106 881 20	20	108,4	101,49	75	14	30	1,22
106 121 00	106 881 21	21	113,4	106,52	75	16	30	1,25
106 122 00	106 881 22	22	118,0	111,55	80	16	30	1,40
106 123 00	106 881 23	23	123,4	116,58	80	16	30	1,47
106 124 00	106 881 24	24	128,3	121,62	80	16	30	1,53
106 125 00	106 881 25	25	134,0	126,66	80	16	30	1,59
106 126 00	-	26	139,0	131,70	85	20	35	1,97
106 127 00	-	27	144,0	136,75	85	20	35	2,05
106 128 00	-	28	148,7	141,78	90	20	35	2,24
106 130 00	-	30	158,8	151,87	90	20	35	2,43
106 132 00	-	32	168,9	161,95	95	20	35	2,73
106 134 00	-	34	179,0	172,05	95	20	35	2,90
106 135 00	-	35	184,1	177,10	95	20	35	2,98
106 136 00	-	36	189,1	182,15	100	20	35	3,25
106 138 00	-	38	199,2	192,24	100	20	35	3,47
106 140 00	-	40	209,3	202,34	100	20	35	3,63
106 145 00*	-	45	235,0	227,58	80	24	40	3,05
106 157 00*	-	57	296,0	288,18	90	24	45	4,25
106 176 00*	-	76	392,1	384,16	90	24	50	6,39
106 183 00*	-	95	488,5	480,14	100	24	56	9,66
106 188 00*	-	114	584,1	576,13	100	24	56	13,49

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Plate wheels KRL, ISO 10 B-1



Material: Low-carbon steel, not hardable.
Pre-bored.

Type KRL: Without hub, not hardened.

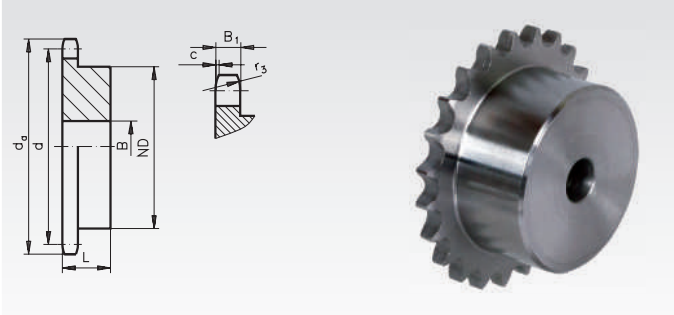
Ordering Details: e.g.: Product No. 106 208 00, KRL, 5/8 x 3/8", 8 Teeth

Pitch 5/8 x 3/8" KRL
B_1 = 9.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No. Type KRL	Number of teeth	d_a mm	d mm	B mm	Weight kg
106 208 00	8	47,0	41,48	10	0,07
106 209 00	9	52,6	46,42	10	0,09
106 210 00	10	57,7	51,37	10	0,11
106 211 00	11	63,0	56,34	10	0,14
106 212 00	12	68,0	61,34	10	0,17
106 213 00	13	73,0	66,32	10	0,20
106 214 00	14	78,0	71,34	12	0,23
106 215 00	15	83,0	76,36	12	0,27
106 216 00	16	88,0	81,37	12	0,32
106 217 00	17	93,0	86,38	12	0,35
106 218 00	18	98,3	91,42	12	0,40
106 219 00	19	103,3	96,45	12	0,44
106 220 00	20	108,4	101,49	12	0,50
106 221 00	21	113,4	106,52	12	0,56
106 222 00	22	118,0	111,55	12	0,62
106 223 00	23	123,5	116,58	12	0,67
106 224 00	24	128,3	121,62	12	0,72
106 225 00	25	134,0	126,66	12	0,78
106 226 00	26	139,0	131,70	16	0,87
106 227 00	27	144,0	136,75	16	0,95
106 228 00	28	148,7	141,78	16	1,01
106 229 00	29	153,8	146,83	16	1,13
106 230 00	30	158,8	151,87	16	1,15
106 232 00	32	168,9	161,95	16	1,32
106 234 00	34	179,0	172,05	16	1,53
106 235 00	35	184,1	177,10	16	1,61
106 236 00	36	189,1	182,15	20	1,70
106 238 00	38	199,2	192,24	20	1,87
106 240 00	40	209,3	202,34	20	2,13
106 242 00	42	219,9	212,44	20	2,36
106 244 00	44	230,0	222,53	20	2,57
106 245 00	45	235,0	227,58	20	2,68
106 246 00	46	240,1	232,63	20	2,78
106 248 00	48	250,2	242,73	20	3,01
106 250 00	50	260,3	252,82	20	3,38
106 254 00	54	280,5	273,03	20	3,96
106 257 00	57	296,0	288,18	25	4,34
106 260 00	60	310,8	303,32	25	4,90
106 265 00	65	336,5	328,58	25	5,83
106 270 00	70	361,8	353,84	25	6,76
106 272 00	72	371,9	363,95	25	7,11
106 276 00	76	392,1	384,16	25	7,77
106 280 00	80	412,3	404,35	25	9,03
106 283 00	95	488,5	480,14	30	12,53
106 288 00	114	584,1	576,13	30	21,00

Sprockets made from stainless steel page 63.
Sprockets ready-to-mount page 68.
Sprockets for Taper clamping bushes page 74.

Sprockets KRS with One-Sided Hub, ISO 12 B-1



Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 107 108 00, KRS, 3/4 x 7/16“, 8 Teeth

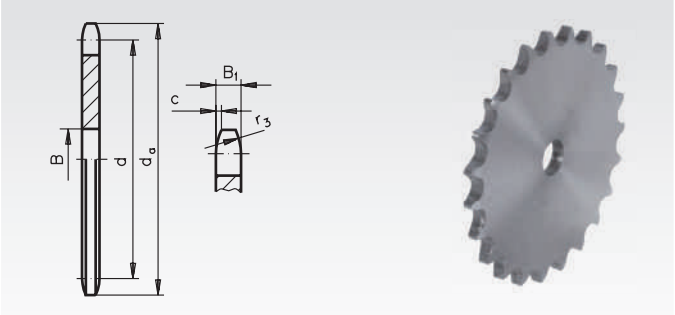
Pitch 3/4 x 7/16“ KRS
B_1 = 11.1 mm, c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
107 108 00	8	57,6	49,78	31	12	30	0,22
107 109 00	9	62,0	55,70	37	12	30	0,30
107 110 00	10	69,0	61,64	42	12	30	0,39
107 111 00	11	75,0	67,61	46	16	35	0,53
107 112 00	12	81,5	73,61	52	16	35	0,67
107 113 00	13	87,5	79,59	58	16	35	0,83
107 114 00	14	93,6	85,61	64	16	35	1,00
107 115 00	15	99,8	91,63	70	16	35	1,18
107 116 00	16	105,5	97,65	75	16	35	1,35
107 117 00	17	111,5	103,67	80	16	35	1,53
107 118 00	18	118,0	109,71	80	16	35	1,61
107 119 00	19	124,2	115,75	80	16	35	1,72
107 120 00	20	129,7	121,78	80	16	35	1,80
107 121 00	21	136,0	127,82	90	20	40	2,35
107 122 00	22	141,8	133,86	90	20	40	2,47
107 123 00	23	149,0	139,90	90	20	40	2,55
107 124 00	24	153,9	145,94	90	20	40	2,68
107 125 00	25	160,0	152,00	90	20	40	2,78
107 126 00	26	165,9	158,04	95	20	40	3,09
107 127 00	27	172,3	164,09	95	20	40	3,20
107 128 00	28	178,0	170,13	95	20	40	3,35
107 130 00	30	190,5	182,25	95	20	40	3,61
107 132 00	32	203,3	194,35	100	20	40	4,10
107 134 00	34	214,6	206,46	100	20	40	4,45
107 135 00	35	221,0	212,52	100	20	40	4,62
107 136 00	36	226,8	218,58	100	20	40	4,77
107 138 00	38	239,0	230,69	100	20	40	5,00
107 140 00	40	251,3	242,81	100	20	40	5,56
107 145 00*	45	282,5	273,10	100	24	56	5,38
107 157 00*	57	354,0	345,81	100	30	56	7,06
107 176 00*	76	469,9	460,99	100	30	56	9,49
107 183 00*	95	585,1	576,17	100	30	65	15,53
107 188 00*	114	700,6	691,36	100	30	65	23,00

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Plate wheels KRL, ISO 12 B-1



Material: Low-carbon steel, not hardable.
Pre-bored.

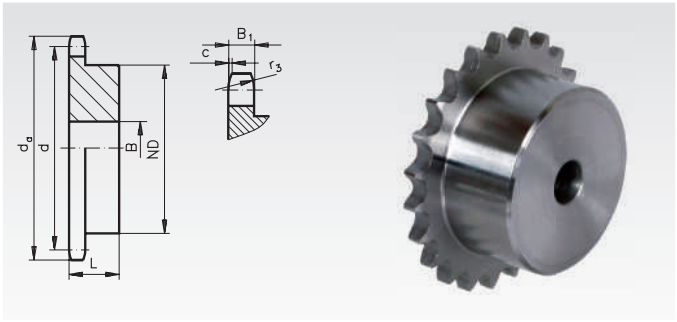
Ordering Details: e.g.: Product No. 107 208 00, KRL, 3/4 x 7/16“, 8 Teeth

Pitch 3/4 x 7/16“ KRL
B_1 = 11.1 mm, c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
107 208 00	8	57,6	49,78	12	0,12
107 209 00	9	62,0	55,70	12	0,16
107 210 00	10	69,0	61,64	12	0,20
107 211 00	11	75,0	67,61	14	0,24
107 212 00	12	81,5	73,61	14	0,29
107 213 00	13	87,5	79,59	14	0,35
107 214 00	14	93,6	85,61	14	0,40
107 215 00	15	99,8	91,63	14	0,48
107 216 00	16	105,5	97,65	14	0,55
107 217 00	17	111,5	103,67	14	0,64
107 218 00	18	118,0	109,71	14	0,70
107 219 00	19	124,2	115,75	14	0,79
107 220 00	20	129,7	121,78	14	0,89
107 221 00	21	136,0	127,82	16	0,98
107 222 00	22	141,8	133,86	16	1,07
107 223 00	23	149,0	139,90	16	1,18
107 224 00	24	153,9	145,94	16	1,32
107 225 00	25	160,0	152,00	16	1,43
107 226 00	26	165,9	158,04	16	1,54
107 227 00	27	172,3	164,09	16	1,67
107 228 00	28	178,0	170,13	16	1,76
107 229 00	29	184,1	176,19	16	1,93
107 230 00	30	190,5	182,25	16	2,10
107 232 00	32	203,3	194,36	20	2,37
107 234 00	34	214,6	206,46	20	2,49
107 235 00	35	221,0	212,52	20	2,79
107 236 00	36	226,8	218,58	20	3,03
107 238 00	38	239,0	230,69	20	3,39
107 240 00	40	251,3	242,81	20	3,72
107 242 00	42	264,5	254,93	25	4,10
107 244 00	44	276,5	267,04	25	4,68
107 245 00	45	282,5	273,10	25	4,81
107 246 00	46	287,9	279,16	25	4,86
107 248 00	48	300,1	291,27	25	5,37
107 250 00	50	312,3	303,39	25	5,95
107 254 00	54	336,6	327,64	25	7,00
107 257 00	57	355,4	345,81	25	7,76
107 260 00	60	373,0	363,99	25	8,37
107 265 00	65	403,2	394,29	25	10,13
107 270 00	70	433,6	424,60	30	11,84
107 272 00	72	447,0	436,74	30	12,67
107 276 00	76	469,9	460,99	30	14,14
107 280 00	80	494,2	485,22	30	14,79
107 283 00	95	585,1	576,17	30	25,00

Sprockets made from stainless steel page 63.
Sprockets ready-to-mount page 70.
Sprockets for Taper clamping bushes page 74.

Sprockets KRS with One-Sided Hub, ISO 16 B-1



Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 108 108 00, KRS, 1" x 17.02, 8 Teeth

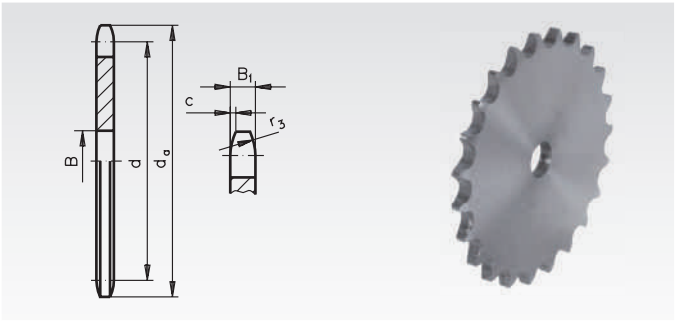
Pitch 1" x 17.02 mm KRS
B_1 = 16.2 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
108 108 00	8	77,0	66,37	42	16	35	0,50
108 109 00	9	85,0	74,37	50	16	35	0,69
108 110 00	10	93,0	82,19	55	16	35	0,87
108 111 00	11	99,5	90,14	61	16	40	1,18
108 112 00	12	109,0	98,14	69	16	40	1,46
108 113 00	13	117,0	106,12	78	16	40	1,81
108 114 00	14	125,0	114,15	84	16	40	2,10
108 115 00	15	133,0	122,17	92	16	40	2,49
108 116 00	16	141,0	130,20	100	20	45	3,19
108 117 00	17	149,0	138,22	100	20	45	3,36
108 118 00	18	157,0	146,28	100	20	45	3,61
108 119 00	19	165,2	154,33	100	20	45	3,82
108 120 00	20	173,2	162,38	100	20	45	4,07
108 121 00	21	181,2	170,43	110	20	50	5,03
108 122 00	22	189,3	178,48	110	20	50	5,36
108 123 00	23	197,5	186,53	110	20	50	5,59
108 124 00	24	205,5	194,59	110	20	50	5,92
108 125 00	25	213,5	202,66	110	20	50	6,21
108 126 00	26	221,6	210,72	120	20	50	7,02
108 127 00	27	229,6	218,79	120	20	50	7,27
108 128 00	28	237,7	226,85	120	20	50	7,68
108 130 00	30	254,0	243,00	120	20	50	8,42
108 132 00	32	270,0	259,13	120	25	50	9,25
108 134 00	34	287,0	275,28	120	25	50	9,93
108 135 00	35	296,2	283,36	120	25	50	10,47
108 136 00	36	304,6	291,44	120	25	50	10,95
108 138 00	38	320,7	307,59	120	25	50	11,71
108 145 00*	45	377,0	364,13	125	30	70	10,91
108 157 00*	57	474,0	461,08	125	35	70	13,79
108 176 00*	76	627,0	614,65	140	35	80	26,50
108 183 00*	95	781,0	768,22	140	40	80	35,00
108 188 00*	114	933,0	921,81	140	40	80	43,50

Sprockets marked with * are made from grey cast iron GG22.

Sprockets made from stainless steel page 63.
Sprockets ready-to-mount page 72.
Sprockets for Taper clamping bushes page 75.

Plate wheels KRL, ISO 16 B-1

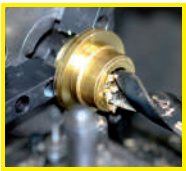


Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 108 208 00, KRL, 1" x 17.02, 8 Teeth

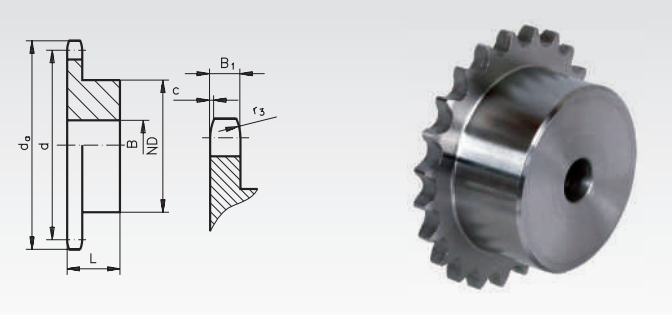
Pitch 1" x 17.02 mm KRL
B_1 = 16.2 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
108 208 00	8	77,0	66,37	16	0,31
108 209 00	9	85,0	74,27	16	0,38
108 210 00	10	93,0	82,19	16	0,53
108 211 00	11	99,5	90,14	16	0,62
108 212 00	12	109,0	98,14	16	0,78
108 213 00	13	117,0	106,12	16	0,94
108 214 00	14	125,0	114,15	16	1,09
108 215 00	15	133,0	122,17	16	1,26
108 216 00	16	141,0	130,20	20	1,41
108 217 00	17	149,0	138,22	20	1,62
108 218 00	18	157,0	146,28	20	1,85
108 219 00	19	165,2	154,33	20	2,04
108 220 00	20	173,0	162,38	20	2,30
108 221 00	21	181,2	170,43	20	2,59
108 222 00	22	189,3	178,48	20	2,84
108 223 00	23	197,5	186,53	20	3,12
108 224 00	24	205,5	194,59	20	3,37
108 225 00	25	213,5	202,66	20	3,92
108 226 00	26	221,6	210,72	20	4,13
108 227 00	27	229,6	218,79	20	4,34
108 228 00	28	237,7	226,85	20	4,67
108 230 00	30	254,0	243,00	20	5,43
108 232 00	32	270,0	259,13	25	6,35
108 234 00	34	287,0	275,28	25	6,97
108 235 00	35	296,2	283,36	25	7,39
108 236 00	36	304,6	291,44	25	7,75
108 238 00	38	320,7	307,59	25	8,68
108 240 00	40	336,9	323,75	25	9,88
108 244 00	44	369,1	356,06	25	12,00
108 245 00	45	377,1	364,13	25	12,40
108 248 00	48	401,3	388,36	25	14,00
108 250 00	50	417,4	404,52	25	15,60
108 254 00	54	448,3	436,85	30	18,00
108 257 00	57	474,0	461,07	30	20,00
108 260 00	60	498,3	485,32	30	22,00
108 270 00	70	579,2	566,14	30	31,00
108 276 00	76	627,0	614,65	30	35,00
108 280 00	80	660,0	646,96	30	40,50
108 283 00	95	781,1	768,22	30	56,00
108 288 00	114	934,3	921,81	30	80,00



Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRS with One-Sided Hub, ISO 20 B-1



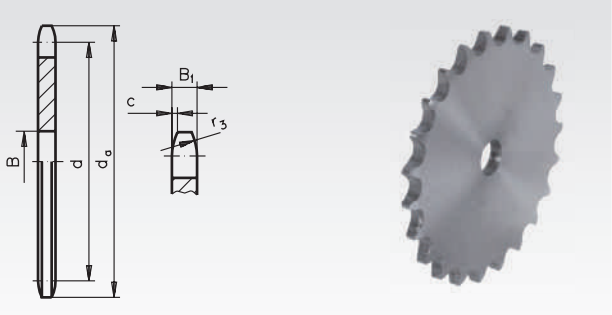
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron.
Sprockets marked with 1) made from St52 with welded in hub.

Ordering Details: e.g.: Product No. 109 108 00, KRS, 1 1/4 x 3/4", 8 Teeth

Pitch 1 1/4 x 3/4", KRS
B_1 = 18.5 mm, c = 3.5 mm, r_3 = 32 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
109 108 00	8	98,1	82,96	53	20	40	0,90
109 109 00	9	108,0	92,84	63	20	40	1,30
109 110 00	10	117,9	102,74	70	20	40	1,60
109 111 00	11	127,8	112,68	77	20	45	2,10
109 112 00	12	137,8	122,68	88	20	45	2,70
109 113 00	13	147,8	132,65	98	20	45	3,30
109 114 00	14	157,8	142,68	108	20	45	3,90
109 115 00	15	167,9	152,72	118	20	45	4,60
109 116 00	16	177,9	162,75	120	25	50	5,35
109 117 00	17	187,9	172,78	120	25	50	5,75
109 118 00	18	198,0	182,85	120	25	50	6,10
109 119 00	19	208,1	192,91	120	25	50	6,60
109 120 00	20	218,1	202,98	120	25	50	7,00
109 121 00	21	228,2	213,04	140	25	55	9,10
109 123 00	23	248,3	233,17	140	25	55	10,00
109 125 00	25	268,5	253,33	140	25	55	11,00
109 127 00	27	288,6	273,49	150	30	55	13,00
109 130 00	30	318,9	303,75	150	30	55	15,45
109 135 00	35[1)]	369,4	354,20	150	30	55	19,50
109 138 00*	38	399,6	384,49	125	35	70	11,90
109 145 00*	45	470,3	455,17	125	35	70	13,80
109 157 00*	57	591,5	576,36	135	40	80	24,00
109 176 00*	76	783,5	768,32	140	50	90	37,50

Plate wheels KRL, ISO 20 B-1



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 109 208 00, KRL, 1 1/4 x 3/4", 8 Teeth

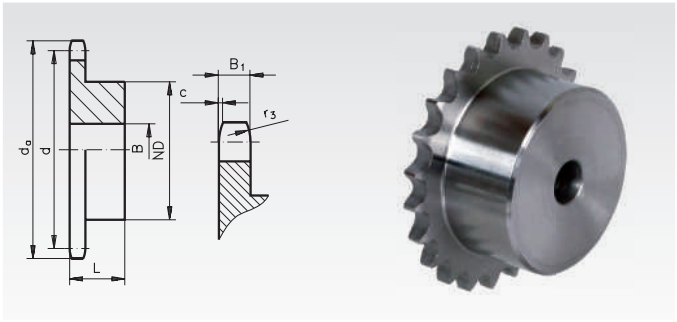
Pitch 1 1/4 x 3/4", KRL
B_1 = 18.5 mm, c = 3.5 mm, r_3 = 32 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
109 208 00	8	98,1	82,96	16	0,65
109 209 00	9	108,0	92,84	16	0,80
109 210 00	10	117,9	102,74	16	1,00
109 211 00	11	127,8	112,68	20	1,20
109 212 00	12	137,8	122,68	20	1,45
109 213 00	13	147,8	132,65	20	1,70
109 214 00	14	157,8	142,68	20	2,00
109 215 00	15	167,9	152,72	20	2,40
109 216 00	16	177,9	162,75	20	2,60
109 217 00	17	187,9	172,78	20	3,00
109 218 00	18	198,0	182,85	20	3,30
109 219 00	19	208,1	192,91	20	3,75
109 220 00	20	218,1	202,98	20	4,20
109 221 00	21	228,2	213,04	25	4,60
109 222 00	22	238,3	223,11	25	5,00
109 223 00	23	248,3	233,17	25	5,55
109 224 00	24	258,4	243,23	25	6,25
109 225 00	25	268,5	253,33	25	6,60
109 227 00	27	288,6	273,40	30	7,80
109 230 00	30	318,9	303,75	30	9,80
109 235 00	35	369,4	354,20	30	13,40
109 238 00	38	399,6	384,49	30	15,80
109 240 00	40	419,8	404,68	30	18,00
109 245 00	45	470,3	455,17	30	22,50
109 248 00	48	500,6	485,46	30	26,00
109 254 00	54	561,2	546,07	30	32,00
109 257 00	57	591,5	576,36	30	35,00

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Sprockets KRS with One-Sided Hub, ISO 24 B-1



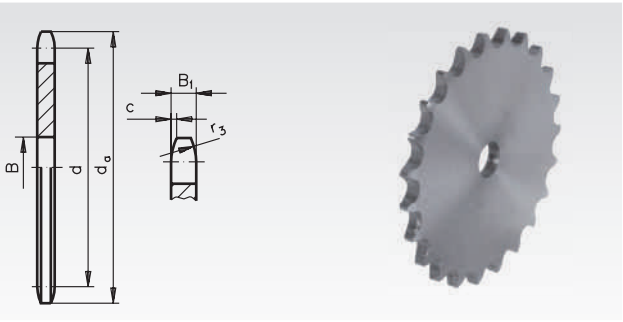
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.
Sprockets marked with 1) with welded in hub.

Ordering Details: e.g.: Product No. 110 110 00, KRS, 1 1/2 x 1“, 10 Teeth

Pitch 1 1/2 x 1“, KRS
B_1 = 24.1 mm, c = 4.0 mm, r_3 = 38 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
110 110 00	10	138,0	123,29	80	20	45	2,55
110 111 00	11	150,0	135,21	90	25	50	3,40
110 112 00	12	162,0	147,22	102	25	50	4,20
110 113 00	13	174,2	159,18	114	25	50	5,20
110 114 00	14	186,2	171,22	128	25	50	6,20
110 115 00	15	198,2	183,26	132	25	50	7,30
110 116 00	16	210,3	195,30	136	25	55	8,90
110 117 00	17	222,3	207,34	136	25	55	9,50
110 118 00	18	234,3	219,42	136	25	55	10,30
110 119 00	19	246,5	231,49	136	25	55	10,90
110 120 00	20	258,6	243,57	136	25	55	11,80
110 121 00	21	270,6	255,65	150	30	60	13,70
110 123 00	23	294,8	279,80	150	30	60	15,40
110 125 00	25	319,0	304,00	150	30	60	17,50
110 128 00	28[1)]	355,2	340,27	150	30	60	21,50
110 130 00	30[1)]	379,5	364,50	150	30	60	24,00
110 138 00	38[1)]	476,2	461,39	150	30	60	35,00
110 145 00*	45	561,2	546,20	140	45	90	26,50
110 157 00*	57	706,5	691,63	160	45	100	39,50

Plate wheels KRL, ISO 24 B-1



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 110 210 00, KRL, 1 1/2 x 1“, 10 Teeth

Pitch 1 1/2 x 1“, KRL
B_1 = 24.1 mm, c = 4.0 mm, r_3 = 38 mm

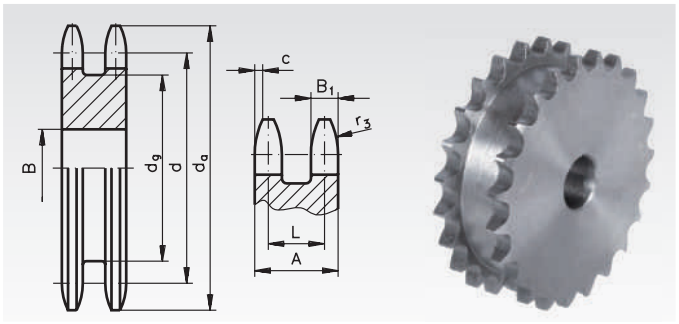
Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
110 210 00	10	138,0	123,29	20	1,80
110 211 00	11	150,0	135,21	25	2,20
110 212 00	12	162,0	147,22	25	2,60
110 213 00	13	174,2	159,18	25	3,10
110 214 00	14	186,2	171,22	25	3,60
110 215 00	15	198,2	183,26	25	4,30
110 216 00	16	210,3	195,30	25	4,90
110 218 00	18	234,3	219,42	25	6,30
110 220 00	20	258,6	243,57	25	7,80
110 222 00	22	282,7	267,73	30	9,50
110 224 00	24	306,8	291,88	30	11,30
110 228 00	28	355,2	340,27	30	15,60
110 230 00	30	379,5	364,50	30	18,00
110 235 00	35	440,0	425,04	30	26,00
110 238 00	38	476,2	461,39	30	30,80
110 245 00	45	561,2	546,20	30	42,00
110 248 00	48	597,4	582,55	30	48,00
110 254 00	54	670,2	655,28	30	60,50
110 257 00	57	706,5	691,63	30	66,80

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Double-Sprockets ZRE for two Single-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Steel C45, not hardened.
Teeth milled, pre-bored.



Ordering Details: e.g.: Product No. 121 413 00,
Double Sprocket 13 Teeth, Pitch 3/8 x 7/32"

Pitch 3/8 x 7/32" ZRE, 2 x ISO 06 B-1, B_1 = max. 5.3 mm, B_2 = 15.4, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	d_g mm	A mm	L mm	Weight kg
121 413 00	13	43,5	39,80	10	29	23	17,8	0,14
121 414 00	14	46,5	42,80	10	32	23	17,8	0,17
121 415 00	15	49,5	45,81	10	35	23	17,8	0,20
121 416 00	16	52,5	48,82	12	38	23	17,8	0,23
121 417 00	17	55,5	51,83	12	41	23	17,8	0,26
121 418 00	18	58,6	54,85	12	44	23	17,8	0,30
121 419 00	19	61,6	57,87	12	47	23	17,8	0,34
121 420 00	20	64,6	60,89	15	50	23	17,8	0,38
121 421 00	21	67,6	63,91	15	53	23	17,8	0,43
121 423 00	23	73,7	69,95	15	60	23	17,8	0,54
121 425 00	25	79,7	76,00	15	66	23	17,8	0,65

Pitch 1/2 x 5/16" ZRE, 2 x ISO 08 B-1, B_1 = max. 7.2 mm, B_2 = 21, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	d_g mm	A mm	L mm	Weight kg
125 412 00	12	53,9	49,07	15	36	30	23	0,27
125 413 00	13	57,9	53,07	15	40	30	23	0,33
125 414 00	14	61,9	57,07	15	44	30	23	0,40
125 415 00	15	65,9	61,09	15	48	30	23	0,47
125 416 00	16	69,9	65,10	15	52	30	23	0,55
125 417 00	17	74,0	69,11	15	56	30	23	0,64
125 418 00	18	78,0	73,14	15	60	30	23	0,73
125 419 00	19	82,0	77,16	15	64	30	23	0,84
125 420 00	20	86,0	81,19	15	68	30	23	0,93
125 421 00	21	90,1	85,22	15	72	30	23	1,03
125 423 00	23	98,1	93,27	15	80	30	23	1,28
125 425 00	25	106,2	101,33	15	88	30	23	1,54

Pitch 5/8 x 3/8" ZRE, 2 x ISO 10 B-1, B_1 = max. 9.1 mm, B_2 = 25.5, c = 1.6 mm, r_3 = 16 mm

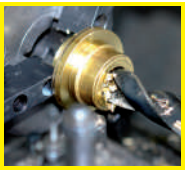
Product No.	Number of teeth	d_a mm	d mm	B mm	d_g mm	A mm	L mm	Weight kg
126 412 00	12	68,2	61,34	15	45	34	25,2	0,51
126 413 00	13	73,2	66,32	15	50	34	25,2	0,62
126 414 00	14	78,2	71,34	15	55	34	25,2	0,74
126 415 00	15	83,2	76,36	15	60	34	25,2	0,87
126 416 00	16	88,3	81,37	15	65	34	25,2	1,02
126 417 00	17	93,3	86,39	15	70	34	25,2	1,17
126 418 00	18	98,3	91,42	15	75	34	25,2	1,34
126 419 00	19	103,3	96,45	20	80	34	25,2	1,49
126 420 00	20	108,4	101,49	20	85	34	25,2	1,68
126 421 00	21	113,4	106,52	20	90	34	25,2	1,88
126 423 00	23	123,5	116,58	20	100	34	25,2	2,30
126 425 00	25	133,6	126,66	20	110	34	25,2	2,77

Pitch 3/4 x 7/16" ZRE, 2 x ISO 12 B-1, B_1 = max. 11.1 mm, B_2 = 30.3, c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	d_g mm	A mm	L mm	Weight kg
127 412 00	12	81,8	73,60	20	53	44	33,4	0,91
127 413 00	13	87,8	79,59	20	59	44	33,4	1,12
127 414 00	14	93,8	85,61	20	65	44	33,4	1,33
127 415 00	15	99,8	91,63	20	71	44	33,4	1,57
127 416 00	16	105,8	97,65	20	77	44	33,3	1,84
127 417 00	17	111,9	103,67	20	83	44	33,4	2,12
127 418 00	18	117,9	109,71	20	89	44	33,4	2,42
127 419 00	19	123,9	115,75	20	95	44	33,4	2,75
127 420 00	20	130,0	121,78	20	101	44	33,4	3,09
127 421 00	21	136,0	127,82	25	107	44	33,4	3,42
127 423 00	23	148,1	139,90	25	119	44	33,4	4,21
127 425 00	25	160,2	152,00	25	131	44	33,4	5,07

Pitch 1" x 17.02 mm, ZRE, 2 x ISO 16 B-1, B_1 = max. 16.2 mm, B_2 = 47.7, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	d_g mm	A mm	L mm	Weight kg
128 412 00	12	109,7	98,14	20	72	68	52,5	2,58
128 413 00	13	117,7	106,12	20	80	68	52,5	3,14
128 414 00	14	125,7	114,15	20	88	68	52,5	3,76
128 415 00	15	133,7	122,17	20	96	68	52,5	4,44
128 416 00	16	141,8	130,20	25	104	68	52,5	5,09
128 417 00	17	149,8	138,22	25	112	68	52,5	5,87
128 418 00	18	157,8	146,28	25	120	68	52,5	6,70
128 419 00	19	165,9	154,33	30	128	68	52,5	7,53
128 421 00	21	182,0	170,43	30	144	68	52,5	9,48

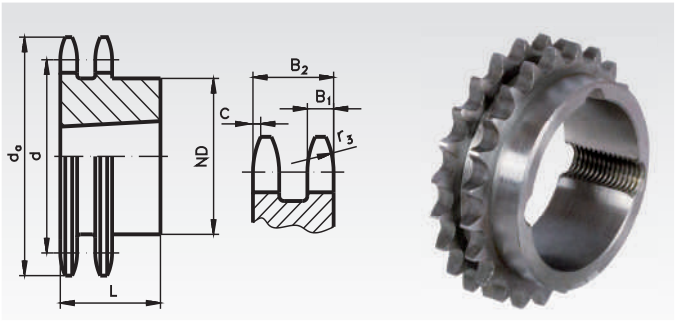


Reworking within 24h-service possible. Custom made parts on request.

Double Sprockets ZRT for Taper Bushes

Material: Steel C45, not hardened, or grey cast iron.

Product numbers ending with G are made from grey cast iron GG22.



Ordering Details: e.g.: Product No. 121 771 17, ZRT, Pitch 3/8 x 7/32", 17 Teeth, Dimension bore with Reference to Taper Bush Type, see page 76.

Pitch 3/8 x 7/32" ZRT, ISO 06 B-2, B_1 = 5.3 mm, B_2 = 15.4, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper Bush Type Page 76
121 771 17	17	55,3	51,83	42	22	0,11	1008
121 771 18	18	58,3	54,85	43	22	0,15	1008
121 771 19	19	61,3	57,87	46	22	0,18	1008
121 771 20	20	64,3	60,89	48	22	0,22	1008
121 771 21	21	68,0	63,91	49	22	0,16	1008
121 771 22	22	71,0	66,93	52	22	0,28	1108
121 771 23	23	73,5	69,95	59	25	0,27	1210
121 771 24	24	77,0	72,97	61	25	0,32	1210
121 771 25	25	80,0	76,00	64	25	0,37	1210
121 771 26	26	83,0	79,02	65	25	0,44	1210
121 771 27	27	86,0	82,05	70	25	0,50	1210
121 771 28	28	89,0	85,07	70	25	0,57	1210
121 771 30	30	94,7	91,12	75	25	0,68	1210
121 771 38	38	119,5	115,35	80	25	1,03	1610
121 771 45	45	140,7	136,55	80	25	1,50	1610
121 771 57G	57	176,9	172,91	90	25	1,16	1610
121 771 76	76	234,9	230,49	80	25	0	1610
121 771 83	95	292,5	288,08	90	25	0	1610
121 771 88	114	349,5	345,68	95	38	11,20	1615

Pitch 1/2 x 5/16" ZRT, ISO 08 B-2, B_1 = 7.2 mm, B_2 = 21, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	L mm	Weight kg	Taper Bush Type Page 76
125 771 15	15	65,0	61,09	46	22	0,22	1008
125 771 16	16	69,5	65,10	50	22	0,22	1108
125 771 17	17	73,6	69,11	56	25	0,23	1210
125 771 18	18	77,8	73,14	60	25	0,30	1210
125 771 19	19	81,7	77,16	62	25	0,38	1210
125 771 20	20	85,8	81,19	66	25	0,45	1610
125 771 21	21	89,7	85,22	70	25	0,50	1610
125 771 22	22	93,8	89,24	76	25	0,55	1610
125 771 23	23	98,2	93,27	79	25	0,62	1610
125 771 24	24	101,8	97,29	84	25	0,68	1610
125 771 25	25	105,8	101,33	87	32	0,72	2012
125 771 26	26	110,0	105,36	87	32	0,82	2012
125 771 27	27	114,0	109,40	87	32	0,92	2012
125 771 28	28	118,0	113,42	87	32	1,10	2012
125 771 30	30	126,1	121,50	87	32	1,24	2012
125 771 38	38	158,6	153,80	100	32	2,50	2012
125 771 45	45	188,0	182,07	100	32	3,66	2012
125 771 57G	57	236,4	230,54	111	32	3,64	2012
125 771 76	76	313,3	307,33	100	32	0	2012
125 771 83	95	390,1	384,11	100	32	17,90	2012
125 771 88	114	466,9	460,90	110	45	26,50	2517

Pitch 5/8 x 3/8" ZRT, ISO 10 B-2, B_1 = 9.1 mm, B_2 = 25.5, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	d_a mm	d mm	ND[1)] mm	L mm	Weight kg	Taper Bush Type Page 76
126 771 13	13	73,0	66,32	-	25,5		1108
126 771 15	15	83,0	76,36	-	25,5	0,38	1210
126 771 16	16	88,0	81,37	-	25,5	0,42	1610
126 771 17	17	93,0	86,39	-	25,5	0,47	1610
126 771 18	18	98,3	91,42	-	25,5	0,60	1610
126 771 19	19	103,3	96,45	-	25,5	0,72	1610
126 771 20	20	108,4	101,49	-	25,5	0,87	1610
126 771 21	21	113,4	106,52	-	25,5	1,01	1610
126 771 22	22	118,0	111,55	-	25,5	1,18	1610
126 771 23	23	123,4	116,58	-	25,5	1,35	1610
126 771 24	24	128,3	121,62	90	32	1,45	2012
126 771 25	25	134,0	126,66	90	32	1,55	2012
126 771 27	27	144,0	136,75	90	32	1,98	2012
126 771 28	28	148,7	141,78	90	32	2,30	2012
126 771 30	30	158,8	151,87	90	32	2,63	2012
126 771 38	38	199,2	192,24	108	45	4,69	2517

[1)] Up to 23 teeth without hub.

Pitch 3/4 x 7/16" ZRT, ISO 12 B-2, B_1 = 11.1 mm, B_2 = 30.3, c = 2.0 mm, r_3 = 19 mm

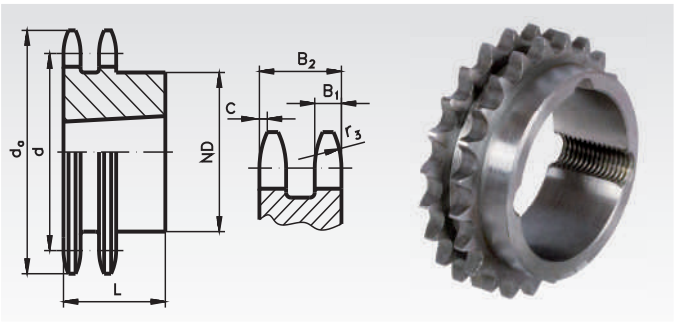
Product No.	Number of teeth	d_a mm	d mm	ND[1)] mm	L mm	Weight kg	Taper Bush Type Page 76
127 771 15	15	99,8	91,63	-	30,3	0,68	1610
127 771 16	16	105,5	97,65	-	30,3	0,89	1610
127 771 17	17	111,5	103,67	-	30,3	1,14	1610
127 771 18	18	118,0	109,71	90	32	1,18	2012
127 771 19	19	124,2	115,75	90	32	1,24	2012
127 771 20	20	129,7	121,78	108	45	1,40	2517
127 771 21	21	136,0	127,82	108	45	1,68	2517
127 771 22	22	141,8	133,86	108	45	1,99	2517
127 771 23	23	149,0	139,90	108	45	2,24	2517
127 771 24	24	153,9	145,94	108	45	2,54	2517
127 771 25	25	160,0	152,00	108	45	2,87	2517
127 771 26	26	165,9	158,04	108	45	3,17	2517
127 771 27	27	172,3	164,09	108	45	3,55	2517
127 771 28	28	178,0	170,13	108	45	4,10	2517
127 771 30	30	190,5	182,24	108	45	4,62	2517
127 771 38	38	239,0	230,69	140	51	8,11	3020
127 771 45	45	282,5	273,10	140	51	11,75	3020
127 771 57G	57	354,0	345,81	160	51	10,28	3020
127 771 76	76	469,9	460,99	140	51	38,00	3020
127 771 83	95	585,1	576,17	140	51	50,00	3020

[1)] Up to 17 teeth without hub.

Double Sprockets ZRT for Taper Bushes

Material: Steel C45, not hardened, or grey cast iron.

Product numbers ending with G are made from grey cast iron GG22.



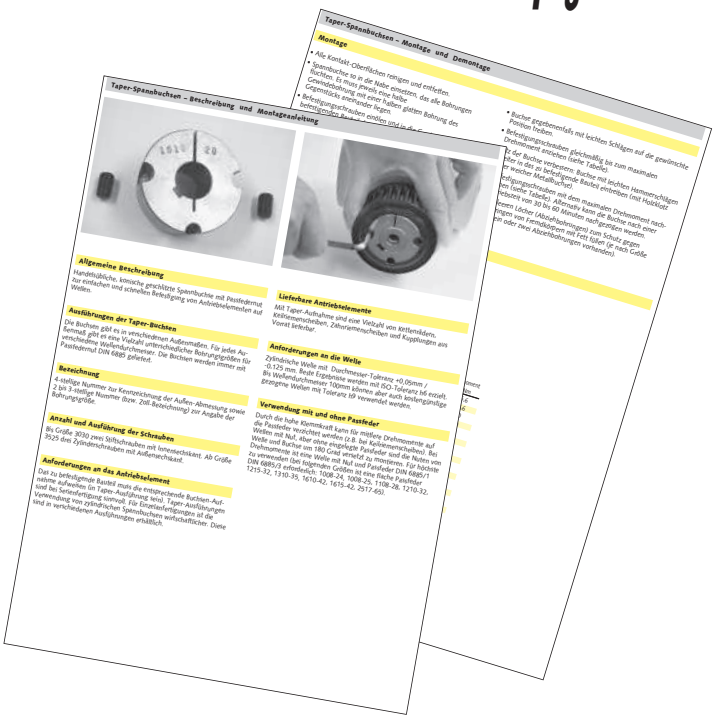
Ordering Details: e.g.: Product No. 128 771 15, ZRT, Pitch 1" x 17.02 mm, 15 Teeth, Dimension bore with Reference to Taper Bush Type, see page 76.

Pitch 1" x 17.02 mm, ZRT, ISO 16 B-2,
B_1 = 16.2 mm, B_2 = 47.7, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a	d	ND[1)]	L	Weight	Taper Bush Type
		mm	mm	mm	mm	kg	Page 76
128 771 13	13	117,0	106,21	-	47,7	1,60	2012
128 771 15	15	133,0	122,17	-	47,7	2,11	2012
128 771 16	16	141,0	130,20	-	47,7	2,25	2517
128 771 17	17	149,0	138,22	-	47,7	2,53	2517
128 771 18	18	157,0	146,28	-	47,7	3,10	2517
128 771 19	19	165,2	154,33	-	47,7	3,80	2517
128 771 20	20	173,2	162,38	-	47,7	4,10	2517
128 771 21	21	181,2	170,43	140	51	4,15	3020
128 771 23	23	197,5	186,53	140	51	5,69	3020
128 771 25	25	213,5	202,66	140	51	6,38	3020
128 771 27	27	229,6	218,79	140	51	9,27	3020
128 771 30	30	254,0	243,00	140	51	13,50	3020
128 771 38G	38	320,7	307,59	160	76	14,94	3030
128 771 45	45	377,1	364,13	140	51	35,00	3020
128 771 57G	57	474,0	461,08	175	89	25,62	3535
128 771 76	76	627,0	614,65	175	65	110,00	3525
128 771 83	95	781,1	768,22	215	65	169,00	3525
128 771 88	114	943,3	921,81	215	102		4040

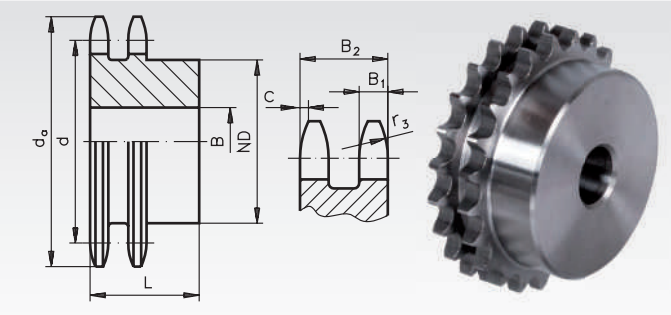
[1)] Up to 20 teeth without hub.

Assembly Instructions page 824



Taper bushes page 76

Double-Strand Sprockets ZRS with Hub, ISO 05 B-2



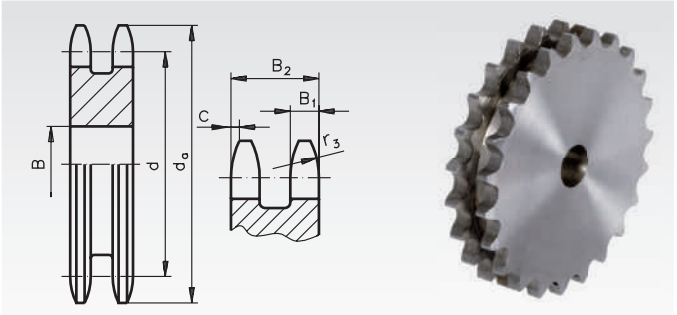
Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 120 108 00, ZRS, Pitch 8 mm, 8 Teeth

Pitch 8 mm ZRS,
B_1 = 2.7 mm, B_2 = 8.3 mm, c = 1.0 mm, r_3 = 8 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
120 108 00	8	24,0	20,90	12	8	18	
120 109 00	9	26,6	23,39	15	8	18	
120 110 00	10	29,2	25,89	17	8	18	
120 111 00	11	31,7	28,39	19	10	18	40
120 112 00	12	34,2	30,91	21	10	18	51
120 113 00	13	36,7	33,42	24	10	18	67
120 114 00	14	39,2	35,95	26	10	18	82
120 115 00	15	41,7	38,48	29	10	18	97
120 116 00	16	44,3	41,01	32	10	20	128
120 117 00	17	46,8	43,53	34	10	20	147
120 118 00	18	49,3	46,07	37	10	20	173
120 119 00	19	51,9	48,61	39	10	20	196
120 120 00	20	54,4	51,14	40	10	20	207
120 121 00	21	57,0	53,68	40	10	20	222
120 122 00	22	59,5	56,21	40	10	20	238
120 123 00	23	62,0	58,75	40	10	20	250
120 124 00	24	64,6	61,29	40	10	20	267
120 125 00	25	67,5	63,83	40	10	20	284
120 126 00	26	69,5	66,37	50	12	22	383
120 127 00	27	72,2	68,91	50	12	22	397
120 128 00	28	74,8	71,45	50	12	22	416
120 129 00	29	77,3	73,99	50	12	22	
120 130 00	30	79,8	76,53	50	12	22	454
120 131 00	31	82,4	79,08	60	12	22	
120 132 00	32	84,9	81,61	60	12	22	580
120 133 00	33	87,5	84,16	60	12	22	
120 134 00	34	90,0	86,70	60	12	22	
120 135 00	35	92,5	89,25	60	12	22	637
120 136 00	36	95,0	91,79	60	12	22	
120 137 00	37	97,6	94,33	60	12	22	
120 138 00	38	100,2	96,88	60	12	22	710
120 139 00	39	102,7	99,42	60	12	22	
120 140 00	40	105,3	101,97	60	12	22	779

Double-Strand plate wheels ZRL, ISO 05 B-2



Material: Low-carbon steel, not hardable.
Pre-bored.

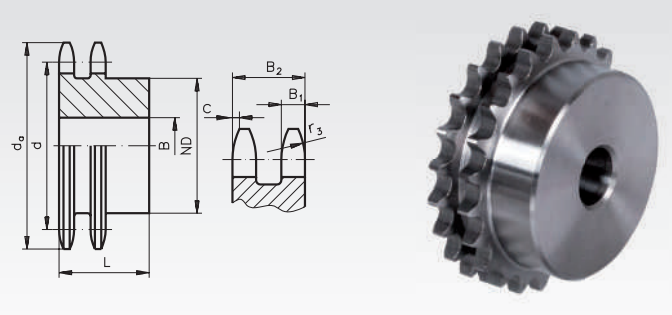
Ordering Details: e.g.: Product No. 120 211 00, ZRL, Pitch 8 mm, 11 Teeth

Pitch 8 mm ZRL,
B_1 = 2.7 mm, B_2 = 8.3 mm, c = 1.0 mm, r_3 = 8 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
120 211 00	11	31,7	28,39	8	27
120 212 00	12	34,2	30,91	8	31
120 213 00	13	36,7	33,42	8	38
120 214 00	14	39,2	35,95	8	46
120 215 00	15	41,7	38,48	8	53
120 216 00	16	44,3	41,01	10	62
120 218 00	18	49,3	46,07	10	82
120 219 00	19	51,9	48,61	10	93
120 220 00	20	54,4	51,14	10	105
120 221 00	21	57,0	53,68	10	115
120 222 00	22	59,5	56,21	10	128
120 223 00	23	62,0	58,75	10	143
120 224 00	24	64,6	61,29	10	158
120 225 00	25	67,5	63,83	10	167
120 227 00	27	72,2	68,91	12	199
120 228 00	28	74,8	71,45	12	218
120 230 00	30	79,8	76,53	12	254
120 232 00	32	84,9	81,61	12	288
120 235 00	35	92,5	89,25	12	350
120 238 00	38	100,2	96,88	12	424
120 245 00	45	118,0	114,69	14	593
120 257 00	57	148,6	145,22	16	985
120 260 00	60	156,2	152,85	16	1083
120 265 00	65	169,6	165,58	20	1308
120 270 00	70	182,4	178,31	20	1491
120 276 00	76	197,7	193,59	20	1785

Reworking within 24h-service possible. Custom made parts on request.

Double-Strand Sprockets ZRS with Hub, ISO 06 B-2



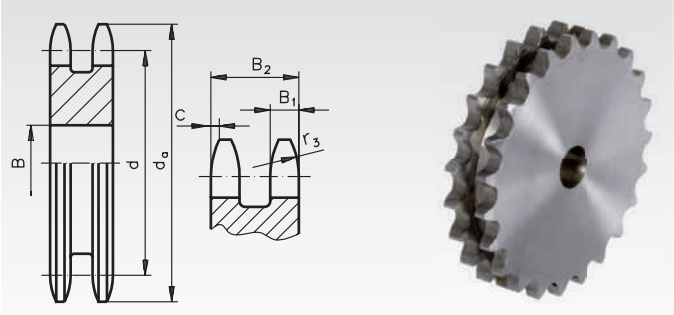
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 121 111 00, ZRS, 3/8 x 7/32“, 11 Teeth

Pitch 3/8 x 7/32“ ZRS
B_1 = 5.2 mm, B_2 = 15.4 mm c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
121 111 00	11	37,0	33,80	22	10	25	87
121 112 00	12	40,0	36,80	25	10	25	110
121 113 00	13	43,0	39,79	28	10	25	141
121 114 00	14	46,3	42,80	31	10	25	170
121 115 00	15	49,3	45,81	34	10	25	202
121 116 00	16	52,3	48,82	37	12	30	268
121 117 00	17	55,3	51,83	40	12	30	315
121 118 00	18	58,3	54,85	43	12	30	363
121 119 00	19	61,3	57,87	46	12	30	409
121 120 00	20	64,3	60,89	49	12	30	473
121 121 00	21	68,0	63,91	52	16	30	533
121 122 00	22	71,0	66,93	55	16	30	597
121 123 00	23	73,5	69,95	58	16	30	662
121 124 00	24	77,0	72,97	61	16	30	733
121 125 00	25	80,0	76,00	64	16	30	804
121 126 00	26	83,0	79,02	67	16	30	878
121 127 00	27	86,0	82,05	70	16	30	956
121 128 00	28	89,0	85,07	73	16	30	1038
121 130 00	30	94,7	91,12	79	16	30	1222
121 132 00	32	101,3	97,17	80	16	30	1312
121 135 00	35	110,4	106,26	80	16	30	1483
121 138 00	38	119,5	115,35	90	16	30	1807
121 140 00	40	125,5	121,40	90	16	30	1926
121 145 00*	45	140,7	136,55	80	20	40	2194
121 157 00*	57	176,9	172,91	80	20	40	2247
121 176 00*	76	234,9	230,49	80	20	40	2760

Double-Strand plate wheels ZRL, ISO 06 B-2



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 121 211 00, ZRL, 3/8 x 7/32“, 11 Teeth

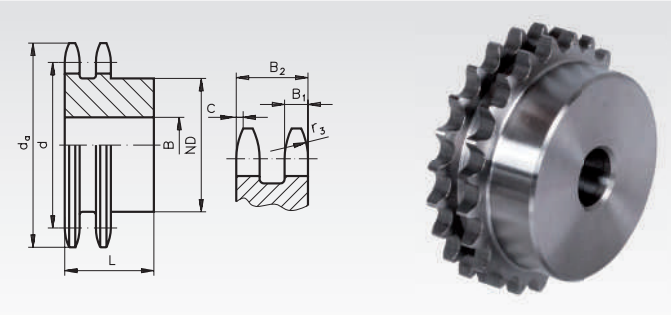
Pitch 3/8 x 7/32“ ZRL
B_1 = 5.2 mm, B_2 = 15.4 mm c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
121 211 00	11	37,0	33,80	10	63
121 212 00	12	40,0	36,80	10	78
121 213 00	13	43,0	39,79	10	102
121 214 00	14	46,3	42,80	10	118
121 215 00	15	49,3	45,81	10	140
121 216 00	16	52,3	48,82	12	158
121 217 00	17	55,3	51,83	12	187
121 218 00	18	58,3	54,85	12	216
121 219 00	19	61,3	57,87	12	238
121 220 00	20	64,3	60,89	12	273
121 221 00	21	68,0	63,91	12	303
121 223 00	23	73,5	69,95	12	370
121 224 00	24	77,0	72,97	12	408
121 225 00	25	80,0	76,02	12	451
121 226 00	26	83,0	79,02	16	495
121 227 00	27	86,0	82,05	16	514
121 228 00	28	89,0	85,07	16	567
121 230 00	30	94,7	91,12	16	659
121 232 00	32	101,3	97,17	16	773
121 235 00	35	110,4	106,26	16	930
121 238 00	38	119,5	115,35	16	1122
121 240 00	40	125,5	121,40	16	1227
121 245 00	45	140,7	136,55	20	1600
121 248 00	48	149,7	145,64	20	1810
121 254 00	54	167,8	163,82	20	2278
121 257 00	57	176,9	172,91	20	2600
121 276 00	76	234,9	230,49	25	4744
121 283 00	95	292,5	288,08	25	7479
121 288 00	114	349,5	345,68	25	10787

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Double-Strand Sprockets ZRS with Hub, ISO 08 B-2



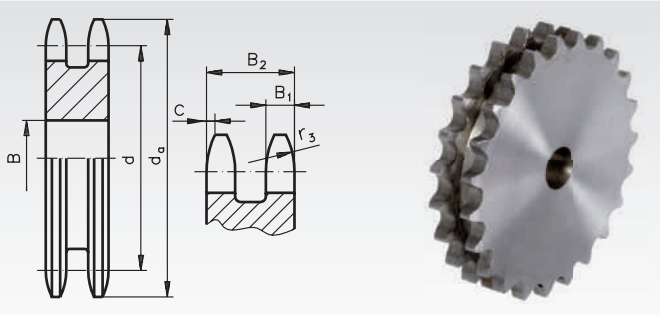
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made grey of grey cast iron GG22.

Ordering Details: e.g.: Product No. 125 111 00, ZRS, 1/2 x 5/16“, 11 Teeth

Pitch 1/2 x 5/16“ ZRS
B_1 = 7 mm, B_2 = 21 mm c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight g
125 111 00	11	48,7	45,07	32	12	35	246
125 112 00	12	53,0	49,07	35	12	35	296
125 113 00	13	57,4	53,07	38	12	35	359
125 114 00	14	61,8	57,07	42	12	35	435
125 115 00	15	65,5	61,09	46	12	35	519
125 116 00	16	69,5	65,10	50	16	35	600
125 117 00	17	73,6	69,11	54	16	35	696
125 118 00	18	77,8	73,14	58	16	35	803
125 119 00	19	81,7	77,16	62	16	35	916
125 120 00	20	85,8	81,19	66	16	35	1032
125 121 00	21	89,7	85,22	70	16	40	1280
125 122 00	22	93,8	89,24	70	16	40	1367
125 123 00	23	98,2	93,27	70	16	40	1452
125 124 00	24	101,8	97,29	75	16	40	1638
125 125 00	25	105,8	101,33	80	16	40	1806
125 126 00	26	110,0	105,36	85	20	40	1977
125 127 00	27	114,0	109,40	85	20	40	2075
125 128 00	28	118,0	113,42	90	20	40	2295
125 130 00	30	126,1	121,50	100	20	40	2736
125 132 00	32	134,3	129,56	100	20	40	2986
125 135 00	35	146,7	141,68	100	20	40	3381
125 136 00	36	151,0	145,72	110	20	40	3769
125 138 00	38	158,6	153,80	110	20	40	4066
125 140 00	40	166,8	161,87	110	20	40	4386
125 145 00*	45	188,0	182,07	90	24	50	3322
125 157 00*	57	236,4	230,54	90	24	50	4303
125 176 00*	76	313,3	307,33	100	24	56	6268
125 183 00*	95	390,1	384,11	100	24	56	8247
125 188 00*	114	466,9	460,90	100	24	63	10507

Double-Strand plate wheels ZRL, ISO 08 B-2



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 125 211 00, ZRL, 1/2 x 5/16“, 11 Teeth

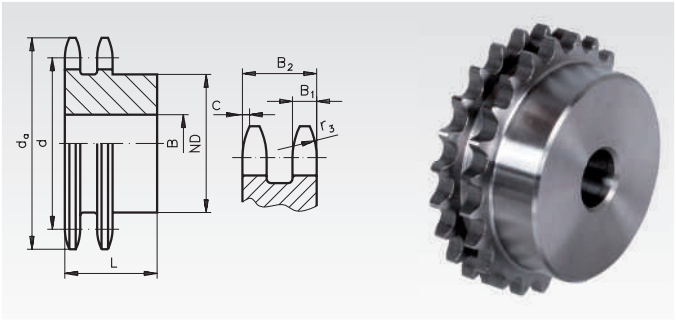
Pitch 1/2 x 5/16“ ZRL
B_1 = 7 mm, B_2 = 21 mm c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight g
125 211 00	11	48,7	45,07	10	168
125 212 00	12	53,0	49,07	10	209
125 213 00	13	57,4	53,07	10	255
125 214 00	14	61,8	57,07	10	301
125 215 00	15	65,5	61,09	10	353
125 216 00	16	69,5	65,10	12	400
125 217 00	17	73,6	69,11	12	461
125 218 00	18	77,8	73,14	12	532
125 219 00	19	81,7	77,16	12	598
125 220 00	20	85,8	81,19	12	680
125 221 00	21	89,7	85,22	16	735
125 222 00	22	93,8	89,24	16	823
125 223 00	23	98,2	93,27	16	895
125 224 00	24	101,8	97,23	16	1004
125 225 00	25	105,8	101,33	16	1082
125 226 00	26	110,0	105,36	16	1185
125 227 00	27	114,0	109,40	16	1304
125 228 00	28	118,0	113,42	16	1398
125 230 00	30	126,1	121,50	16	1629
125 232 00	32	134,3	129,56	16	1868
125 235 00	35	146,7	141,68	16	2272
125 236 00	36	151,0	145,72	20	2357
125 238 00	38	158,6	153,80	20	2695
125 240 00	40	166,8	161,87	20	2970
125 245 00	45	188,0	182,07	20	3857
125 248 00	48	200,3	194,18	20	4422
125 254 00	54	224,1	218,43	25	5587
125 257 00	57	236,4	230,54	25	6286
125 276 00	76	313,3	307,33	25	11416
125 283 00	95	390,1	384,11	25	18000
125 288 00	114	466,9	460,90	25	26500

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Double-Strand Sprockets ZRS with Hub, ISO 10 B-2



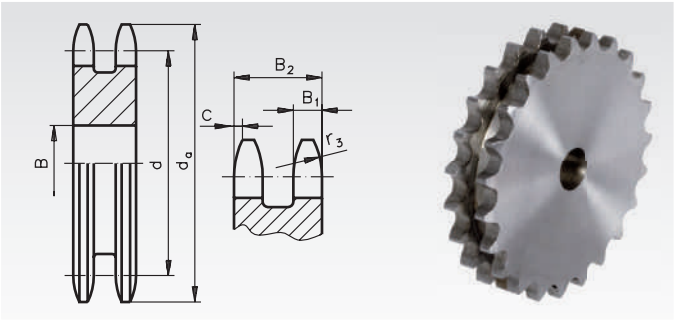
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 126 111 00, ZRS, 5/8 x 3/8", 11 Teeth

Pitch 5/8 x 3/8" ZRS
B_1 = 9.0 mm, B_2 = 25.5 mm c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
126 111 00	11	63,0	56,34	39	16	40	0,45
126 112 00	12	68,0	61,34	44	16	40	0,57
126 113 00	13	73,0	66,32	49	16	40	0,70
126 114 00	14	78,0	71,34	54	16	40	0,84
126 115 00	15	83,0	76,36	59	16	40	0,99
126 116 00	16	88,0	81,37	64	16	45	1,25
126 117 00	17	93,0	86,39	69	16	45	1,47
126 118 00	18	98,3	91,42	74	16	45	1,68
126 119 00	19	103,3	96,45	79	16	45	1,90
126 120 00	20	108,4	101,49	84	16	45	2,14
126 121 00	21	113,4	106,52	85	16	45	2,30
126 122 00	22	118,0	111,55	90	16	45	2,59
126 123 00	23	123,4	116,58	95	16	45	2,87
126 124 00	24	128,3	121,62	100	16	45	3,14
126 125 00	25	134,0	126,66	105	16	45	3,48
126 127 00	27	144,0	136,75	110	20	45	3,94
126 130 00	30	158,8	151,87	120	20	45	4,87
126 132 00	32	168,9	161,95	120	20	45	5,34
126 136 00	36	189,1	182,15	120	20	45	6,38
126 138 00	38	199,2	192,24	120	20	45	6,95
126 145 00*	45	235,0	227,58	100	30	50	5,08
126 157 00*	57	296,0	288,18	100	30	56	6,81
126 176 00*	76	392,1	384,16	100	30	63	8,30
126 183 00*	95	488,5	480,14	110	30	63	12,02
126 188 00*	114	584,1	576,13	125	30	70	16,50

Double-Strand plate wheels ZRL, ISO 10 B-2



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 126 211 00, ZRL, 5/8 x 3/8", 11 Teeth

Pitch 5/8 x 3/8" ZRL
B_1 = 9.0 mm, B_2 = 25.5 mm c = 1.6 mm, r_3 = 16 mm

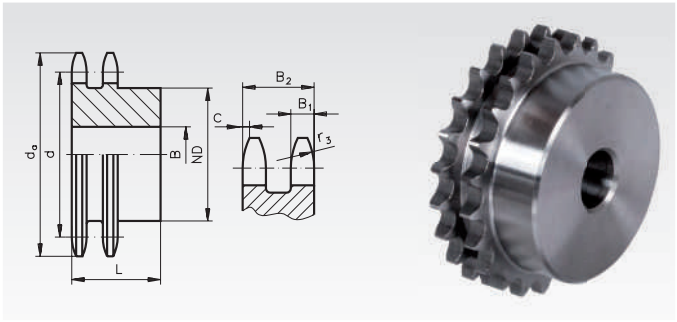
Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
126 211 00	11	63,0	56,34	12	0,34
126 212 00	12	68,0	61,34	12	0,41
126 213 00	13	73,0	66,32	12	0,51
126 214 00	14	78,0	71,34	12	0,59
126 215 00	15	83,0	76,36	12	0,71
126 216 00	16	88,0	81,37	12	0,80
126 217 00	17	93,0	86,38	12	0,93
126 218 00	18	98,3	91,42	12	1,07
126 219 00	19	103,3	96,45	12	1,15
126 220 00	20	108,4	101,49	12	1,33
126 221 00	21	113,4	106,52	16	1,48
126 222 00	22	118,0	111,55	16	1,60
126 224 00	24	128,3	121,62	16	1,99
126 226 00	26	139,0	131,70	20	2,31
126 227 00	27	144,0	136,75	20	2,55
126 228 00	28	148,7	141,78	20	2,77
126 230 00	30	158,8	151,87	20	3,19
126 235 00	35	184,1	177,10	20	4,40
126 238 00	38	199,2	192,24	20	5,28
126 245 00	45	235,0	227,58	25	7,51
126 248 00	48	250,2	242,73	25	8,54
126 257 00	57	296,0	288,18	25	12,23
126 276 00	76	392,1	384,16	25	22,00
126 283 00	95	488,5	480,14	30	34,50
126 288 00	114	584,1	576,13	30	43,43

*

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Double-Strand Sprockets ZRS with Hub, ISO 12 B-2



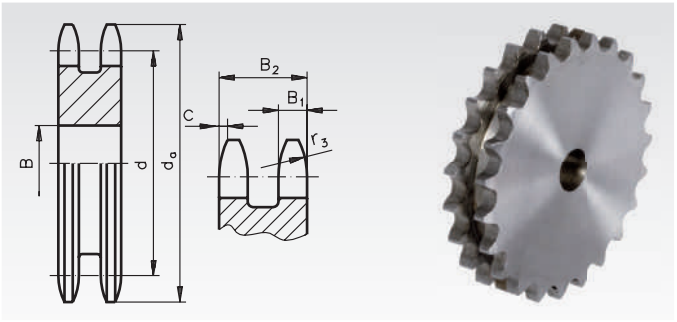
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 127 111 00, ZRS, 3/4 x 7/16“, 11 Teeth

Pitch 3/4 x 7/16“ ZRS
B_1 = 10.8 mm, B_2 = 30.3 mm c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
127 111 00	11	75,0	67,61	47	16	50	0,83
127 112 00	12	81,5	73,61	53	16	50	1,03
127 113 00	13	87,5	79,59	59	16	50	1,26
127 114 00	14	93,6	85,61	65	16	50	1,52
127 115 00	15	99,8	91,63	71	16	50	1,79
127 116 00	16	105,5	97,65	77	20	50	2,04
127 117 00	17	111,5	103,67	83	20	50	2,37
127 118 00	18	118,0	109,71	89	20	50	2,71
127 119 00	19	124,2	115,75	95	20	50	3,08
127 120 00	20	129,7	121,78	100	20	50	3,45
127 121 00	21	136,0	127,82	100	20	50	3,70
127 122 00	22	141,8	133,86	100	20	50	3,97
127 123 00	23	149,0	139,90	110	20	50	4,51
127 124 00	24	153,9	145,94	110	20	50	4,82
127 125 00	25	160,0	152,00	120	20	50	5,41
127 130 00	30	190,5	182,25	120	20	50	7,20
127 132 00	32	203,3	194,35	130	20	50	8,00
127 138 00	38	239,0	230,69	130	25	50	10,89
127 145 00*	45	282,5	273,10	110	30	63	8,33
127 157 00*	57	354,0	345,81	120	30	63	10,53
127 176 00*	76	469,9	460,99	135	30	63	16,04

Double-Strand plate wheels ZRL, ISO 12 B-2



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 127 211 00, ZRL, 3/4 x 7/16“, 11 Teeth

Pitch 3/4 x 7/16“ ZRL
B_1 = 10.8 mm, B_2 = 30.3 mm c = 2.0 mm, r_3 = 19 mm

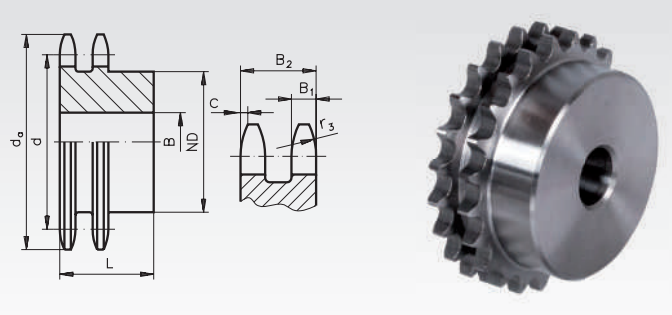
Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
127 211 00	11	75,0	67,61	14	0,56
127 212 00	12	81,5	73,61	14	0,72
127 213 00	13	87,5	79,59	14	0,88
127 214 00	14	93,6	85,61	16	1,04
127 215 00	15	99,8	91,63	16	1,21
127 216 00	16	105,5	97,65	16	1,41
127 218 00	18	118,0	109,71	16	1,81
127 220 00	20	129,7	121,78	16	2,31
127 222 00	22	141,8	133,86	20	2,79
127 224 00	24	153,9	145,94	20	3,43
127 227 00	27	172,3	164,09	20	4,38
127 230 00	30	190,5	182,25	20	5,49
127 235 00	35	221,0	212,52	20	7,58
127 238 00	38	239,0	230,69	25	8,99
127 245 00	45	282,5	273,10	25	12,86
127 248 00	48	300,1	291,27	25	14,50
127 257 00	57	355,4	345,81	25	20,85
127 276 00	76	469,9	460,99	30	37,50
127 283 00	95	585,1	576,17	30	58,00
127 288 00	114	700,6	691,36	30	86,00

*

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Double-Strand Sprockets ZRS with Hub, ISO 16 B-2



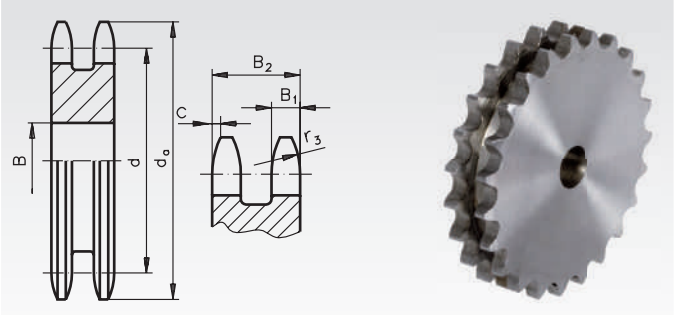
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 128 111 00, ZRS, 1“ x 17.02, 11 Teeth

Pitch 1“ x 17.02 mm ZRS
B_1 = 15.8 mm, B_2 = 47.7 mm c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
128 111 00	11	99,5	90,14	64	20	70	2,16
128 112 00	12	109,0	98,14	72	20	70	2,70
128 113 00	13	117,0	106,12	80	20	70	3,27
128 114 00	14	125,0	114,15	88	20	70	3,91
128 115 00	15	133,0	122,17	96	20	70	4,59
128 116 00	16	141,0	130,20	104	20	70	5,32
128 117 00	17	149,0	138,22	112	20	70	6,11
128 118 00	18	157,0	146,28	120	20	70	6,98
128 119 00	19	165,2	154,33	128	20	70	7,93
128 120 00	20	173,2	162,38	130	20	70	8,61
128 121 00	21	181,2	170,43	130	25	70	9,28
128 123 00	23	197,5	186,53	130	25	70	10,90
128 125 00	25	213,5	202,66	130	25	70	12,70
128 130 00	30	254,0	243,00	130	25	70	17,60
128 138 00*	38	320,0	307,59	140	40	75	18,60
128 145 00*	45	377,0	364,13	150	40	75	19,40
128 157 00*	57	474,0	461,08	170	40	90	31,00
128 176 00*	76	627,0	614,65	175	40	95	41,50

Double-Strand plate wheels ZRL, ISO 16 B-2



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 128 211 00, ZRL, 1“ x 17.02, 11 Teeth

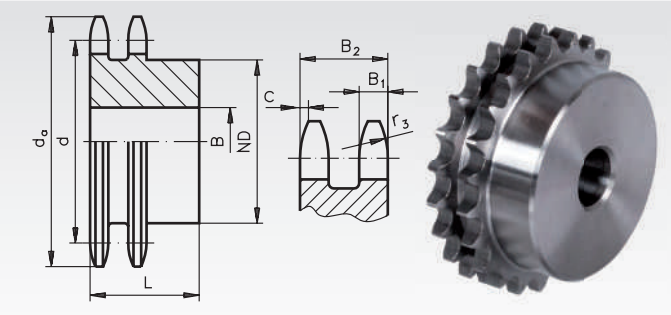
Pitch 1“ x 17.02 mm ZRL
B_1 = 15.8 mm, B_2 = 47.7 mm c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
128 211 00	11	99,5	90,14	20	1,63
128 212 00	12	109,0	98,14	20	1,98
128 214 00	14	125,0	114,15	20	2,86
128 216 00	16	141,0	130,20	20	3,86
128 218 00	18	157,0	146,28	20	5,10
128 220 00	20	173,0	162,38	20	6,30
128 222 00	22	189,3	178,48	25	7,80
128 224 00	24	205,5	194,59	25	9,40
128 227 00	27	229,6	218,79	25	12,20
128 230 00	30	254,0	243,00	25	15,20
128 235 00	35	296,2	283,36	25	21,00
128 238 00	38	320,7	307,59	25	25,00
128 245 00	45	377,1	364,13	25	35,50
128 248 00	48	401,3	388,36	30	39,00
128 257 00	57	474,0	461,07	40	53,50

Sprockets marked with * are made from grey cast iron GG22.

Reworking within 24h-service possible. Custom made parts on request.

Double-Strand Sprockets ZRS with Hub, ISO 20 B-2



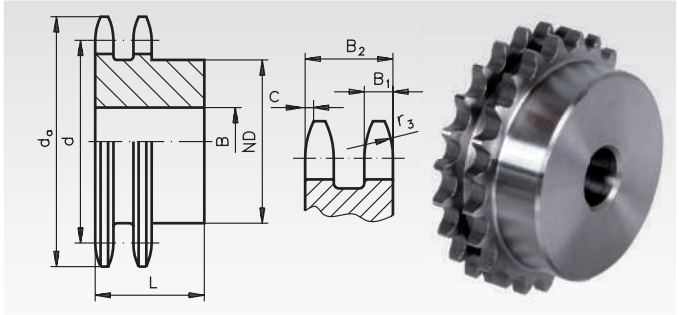
Material: Steel C45, not hardened.
Pre-bored.

Ordering Details: e.g.: Product No. 129 110 00, ZRS, 20B-2, 10 Teeth

Pitch 1 1/4 x 3/4", ZRS
B_1 = 18,5 mm, B_2 = 54,6 mm, c = 3,5 mm, r_3 = 32 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
129 110 00	10	117,0	102,74	70	20	75	2,85
129 111 00	11	127,0	112,68	80	20	80	3,72
129 112 00	12	137,0	122,68	90	20	80	4,66
129 113 00	13	147,5	132,65	100	20	80	5,70
129 114 00	14	157,6	142,68	110	20	80	6,84
129 115 00	15	167,7	152,72	120	20	80	8,08
129 116 00	16	177,7	162,75	120	25	80	8,90
129 117 00	17	187,7	172,78	120	25	80	9,92
129 118 00	18	197,8	182,85	120	25	80	11,00
129 119 00	19	207,9	192,91	120	25	80	12,16
129 120 00	20	217,9	202,98	120	25	80	13,38
129 125 00	25	268,4	253,33	140	25	80	21,36
129 130 00	30	318,7	303,75	150	25	80	30,69

Double-Strand Sprockets ZRS with Hub, ISO 24 B-2



Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with 1) made from St52 with welded in hub.

Ordering Details: e.g.: Product No. 129 510 00, ZRS, 24B-2, 10 Teeth

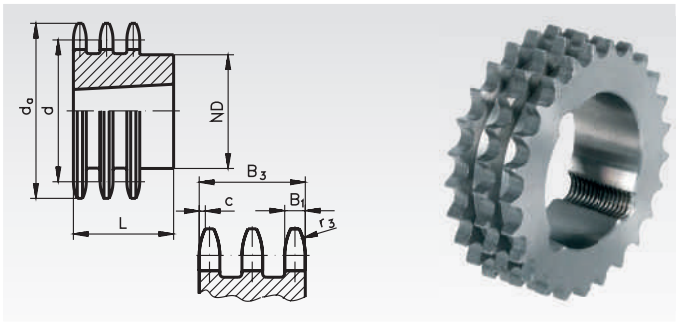
Pitch 1 1/2 x 1", ZRS
B_1 = 24,1 mm, B_2 = 72,0 mm, c = 4 mm, r_3 = 38 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
129 510 00	10	137,0	123,29	80	25	95	5,01
129 511 00	11	149,0	135,21	90	25	100	6,62
129 512 00	12	161,0	147,22	102	25	100	8,28
129 513 00	13	173,0	159,18	114	25	100	10,13
129 514 00	14	185,0	171,22	128	25	100	12,24
129 515 00	15	197,0	183,26	132	25	100	14,08
129 516 00	16	209,0	195,30	136	25	100	15,88
129 517 00	17	221,0	207,34	136	25	100	17,80
129 518 00	18	233,0	219,42	160	25	100	21,08
129 519 00	19	245,5	231,49	160	25	100	23,26
129 520 00	20	257,5	243,57	160	25	100	25,57
129 525 00	25	319,0	304,00	160	25	100	39,09
129 530 00	30[1)]	379,5	364,50	160	30	100	55,88

Reworking within 24h-service possible. Custom made parts on request.

Triple-Strand Sprockets DRT for Taper Bushes

Material: Steel C45, not hardened.



Ordering Details: e.g.: Product No. 131 771 17, DRT, Pitch 3/8 x 7/32", 17 Teeth, Dimension bore with Reference to Taper Bush Type, see page 76.

Pitch 3/8 x 7/32" DRT, ISO 06 B-3, B_1 = 5.3 mm, B_3 = 25.6, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	ND[1] mm	L mm	Weight kg	Taper Bush ype Page 76
131 771 17	17	55,3	51,83	-	25,6	0,15	1008
131 771 19	19	61,3	57,87	-	25,6	0,24	1008
131 771 21	21	68,0	63,91	-	25,6	0,34	1008
131 771 23	23	73,5	69,95	-	25,6	0,30	1210
131 771 25	25	80,0	76,00	-	25,6	0,41	1210
131 771 27	27	86,0	82,05	-	25,6	0,55	1210
131 771 30	30	94,7	91,12	79	38	0,88	1615
131 771 38	38	119,5	115,35	90	38	1,75	1615

[1] Up to 27 teeth without hub.

Pitch 1/2 x 5/16" DRT, ISO 08 B-3, B_1 = 7.2 mm, B_3 = 34.9, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND[1] mm	L mm	Weight kg	Taper Bush Type Page 76
135 771 15	15	65,0	61,09	-	34,9	0,36	1008
135 771 17	17	73,6	69,11	-	34,9	0,35	1210
135 771 19	19	81,7	77,16	-	34,9	0,61	1210
135 771 21	21	89,7	85,22	-	34,9	0,65	1610
135 771 23	23	98,2	93,27	-	34,9	0,93	1610
135 771 25	25	105,8	101,33	-	34,9	0,85	2012
135 771 27	27	114,0	109,40	-	34,9	1,18	2012
135 771 30	30	126,1	121,50	-	34,9	1,73	2012
135 771 38	38	158,6	153,80	-	34,9	3,53	2012

[1] Without hub.

Pitch 5/8 x 3/8" DRT, ISO 10 B-3, B_1 = 9.1 mm, B_3 = 42.1, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	d_a mm	d mm	ND[1] mm	L mm	Weight kg	Taper Bush Type Page 76
136 771 15	15	83,2	76,35	-	42,1	0,63	1210
136 771 17	17	93,3	86,39	-	42,1	1,01	1210
136 771 19	19	103,3	96,44	-	42,1	1,19	1615
136 771 21	21	113,4	106,51	-	42,1	1,66	1615
136 771 23	23	123,5	116,58	-	42,1	1,78	2012
136 771 25	25	133,6	126,66	105	45	1,81	2517
136 771 27	27	143,6	136,74	110	45	2,45	2517
136 771 30	30	158,8	151,87	120	45	3,54	2517

[1] Up to 23 teeth without hub.

Pitch 3/4 x 7/16" DRT, ISO 12 B-3, B_1 = 11.1 mm, B_3 = 49.8, c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	ND[1] mm	L mm	Weight kg	Taper Bush Type Page 76
137 771 15	15	99,8	91,62	-	49,8	1,11	1615
137 771 17	17	111,8	103,67	-	49,8	1,75	2012
137 771 19	19	123,9	115,73	-	49,8	2,02	2012
137 771 21	21	136,0	127,81	-	49,8	2,09	2517
137 771 23	23	148,1	139,90	-	49,8	3,00	2517
137 771 25	25	160,2	151,99	-	49,8	3,98	2517
137 771 27	27	172,3	164,09	140	51	3,90	3020
137 771 30	30	190,4	182,24	140	51	5,64	3020
137 771 38	38	239,0	230,69	140	51	11,58	3020
137 771 45	45	282,5	273,10	140	51	18,00	3020
137 771 57	57	355,4	345,81	140	51	31,00	3020
137 771 76	76	469,9	460,99	140	51	58,50	3020

[1] Up to 25 teeth without hub.

Pitch 1" x 17.02 mm, DRT, ISO 16 B-3, B_1 = 16.2 mm, B_3 = 79.6, c = 2.5 mm, r_3 = 26 mm

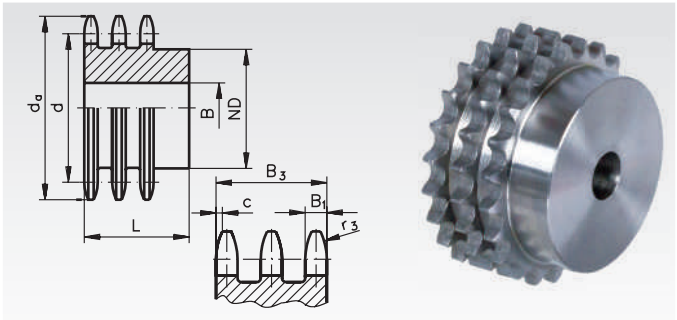
Product No.	Number of teeth	d_a mm	d mm	ND[1] mm	L mm	Weight kg	Taper Bush Type Page 76
138 771 17	17	149,8	138,23	-	79,6	4,29	2517
138 771 19	19	165,9	154,31	-	79,6	4,36	3020
138 771 21	21	182,0	170,42	-	79,6	6,69	3030
138 771 23	23	198,1	186,53	-	79,6	7,80	3525
138 771 25	25	213,5	202,66	-	79,6	10,93	3525
138 771 27	27	230,4	218,79	-	79,6	14,06	3525
138 771 30	30	254,6	242,99	-	79,6	19,10	3525
138 771 38	38	320,7	307,59	-	79,6	35,00	3525
138 771 45	45	377,1	364,13	216	79,6	53,00	4030
138 771 57	57	474,0	461,07	216	79,6	90,00	4030
138 771 76	76	627,0	614,65	216	79,6	170,50	4030
138 771 83	95	781,1	768,22	240	79,6	266,00	4030

[1] Up to 21 teeth without hub.

Taper Bushes page 76

Description and mounting instructions page 824

Triple-Strand Sprockets DRS with Hub, ISO 06 B-3



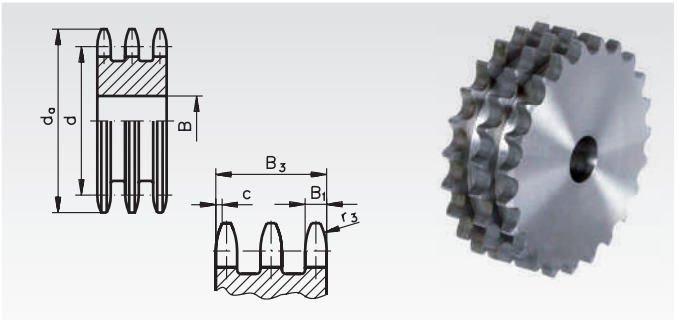
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 131 108 00, DRS, 3/8 x 7/32“, 8 Teeth

Pitch 3/8 x 7/32“ DRS, B_1 = 5.2 mm, B_3 = 25.6 mm, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
131 108 00	8	28,6	24,89	15	8	32	0,05
131 110 00	10	34,5	30,82	20	10	32	0,09
131 111 00	11	37,5	33,80	22	12	35	0,11
131 112 00	12	40,5	36,80	25	12	35	0,15
131 113 00	13	43,5	39,80	28	12	35	0,19
131 114 00	14	46,5	42,80	31	12	35	0,23
131 115 00	15	49,5	45,81	34	12	35	0,28
131 116 00	16	52,5	48,82	37	12	35	0,33
131 117 00	17	55,5	51,83	40	12	35	0,39
131 118 00	18	58,6	54,85	43	12	35	0,45
131 119 00	19	61,6	57,87	46	12	35	0,51
131 120 00	20	64,6	60,89	49	12	35	0,58
131 121 00	21	67,6	63,91	52	16	40	0,70
131 122 00	22	70,6	66,93	55	16	40	0,78
131 123 00	23	73,7	69,95	58	16	40	0,87
131 124 00	24	76,7	72,97	61	16	40	0,97
131 125 00	25	79,7	76,00	64	16	40	1,06
131 126 00	26	82,7	79,02	67	16	40	1,17
131 127 00	27	85,7	82,04	70	16	40	1,27
131 128 00	28	88,8	85,07	73	16	40	1,39
131 129 00	29	91,8	88,09	76	16	40	1,50
131 130 00	30	94,8	91,12	79	16	40	1,62
131 132 00	32	100,9	97,17	80	16	40	1,80
131 135 00	35	110,0	106,26	85	16	40	2,15
131 138 00	38	119,0	115,34	90	16	40	2,53
131 145 00*	45	141,1	136,54	90	24	56	3,56
131 157 00*	57	177,5	172,91	90	24	56	3,97
131 176 00*	76	235,1	230,49	100	24	56	4,52
131 183 00*	95	292,7	288,08	100	24	56	6,12
131 188 00*	114	350,3	345,68	100	24	56	7,45

Triple-Strand plate wheels DRL, ISO 06 B-3



Material: Low-carbon steel, not hardable.
Pre-bored.

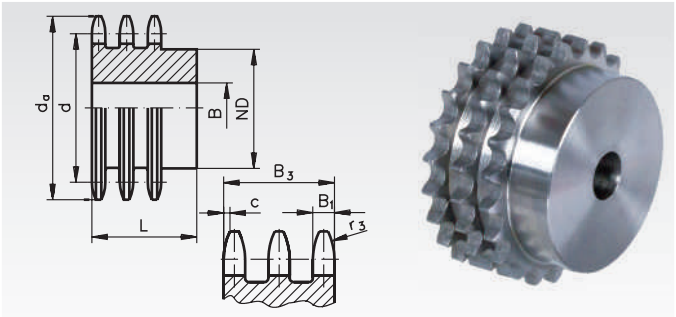
Ordering Details: e.g.: Product No. 131 208 00, DRL, 3/8 x 7/32“, 8 Teeth

Pitch 3/8 x 7/32“ DRL, B_1 = 5.2 mm, B_3 = 25.6 mm, c = 1.0 mm, r_3 = 10 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
131 208 00	8	28,6	24,89	8	0,04
131 211 00	11	37,5	33,80	12	0,09
131 212 00	12	40,5	36,80	12	0,12
131 213 00	13	43,5	39,80	12	0,15
131 214 00	14	46,5	42,80	12	0,18
131 215 00	15	49,5	45,81	12	0,22
131 216 00	16	52,5	48,82	12	0,26
131 217 00	17	55,5	51,83	12	0,30
131 218 00	18	58,6	54,85	12	0,35
131 219 00	19	61,6	57,87	12	0,39
131 220 00	20	64,6	60,89	12	0,44
131 221 00	21	67,6	63,91	16	0,48
131 222 00	22	70,6	66,93	16	0,54
131 223 00	23	73,7	69,95	16	0,59
131 224 00	24	76,7	72,97	16	0,66
131 225 00	25	79,7	76,00	16	0,72
131 226 00	26	82,7	79,02	16	0,79
131 227 00	27	85,7	82,04	16	0,86
131 228 00	28	88,8	85,07	16	0,93
131 230 00	30	94,8	91,12	16	1,09
131 238 00	38	119,0	115,34	20	1,81
131 240 00	40	125,1	121,40	20	2,02
131 242 00	42	132,1	127,46	20	2,25
131 245 00	45	141,1	136,54	20	2,61
131 248 00	48	150,2	145,64	20	2,99
131 257 00	57	177,5	172,91	25	4,28
131 276 00	76	235,1	230,49	25	7,83
131 283 00	95	292,7	288,08	25	12,42

Reworking within 24h-service possible. Custom made parts on request.

Triple-Strand Sprockets DRS with Hub, ISO 08 B-3



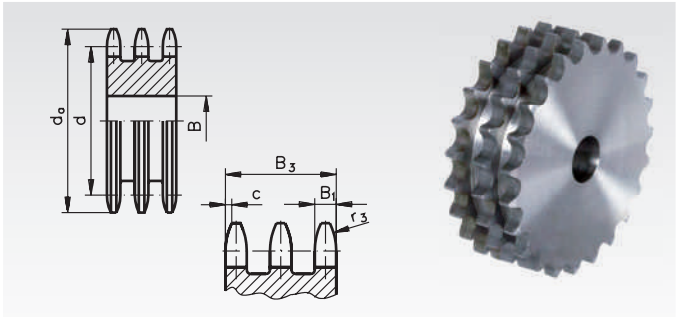
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 135 108 00, DRS, 1/2 x 5/16“, 8 Teeth

Pitch 1/2 x 5/16“ DRS,
B_1 = 7 mm, B_3 = 34.9 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
135 108 00	8	38,0	33,18	20	10	46	0,13
135 110 00	10	45,9	41,10	28	12	46	0,24
135 111 00	11	49,9	45,07	32	16	50	0,31
135 112 00	12	53,9	49,07	35	16	50	0,39
135 113 00	13	57,9	53,07	38	16	50	0,49
135 114 00	14	61,9	57,07	42	16	50	0,60
135 115 00	15	65,9	61,09	46	16	50	0,72
135 116 00	16	69,9	65,10	50	16	50	0,85
135 117 00	17	74,0	69,11	54	16	50	0,99
135 118 00	18	78,0	73,14	58	16	50	1,14
135 119 00	19	82,0	77,16	62	16	50	1,30
135 120 00	20	86,0	81,19	66	16	50	1,47
135 121 00	21	90,1	85,22	70	20	55	1,79
135 122 00	22	94,1	89,24	70	20	55	1,93
135 123 00	23	98,1	93,27	70	20	55	2,08
135 124 00	24	102,1	97,29	75	20	55	2,32
135 125 00	25	106,2	101,33	80	20	55	2,57
135 126 00	26	110,2	105,36	85	20	55	2,79
135 127 00	27	114,2	109,40	85	20	55	2,96
135 128 00	28	118,3	113,42	90	20	55	3,25
135 129 00	29	122,3	117,46	95	20	55	3,55
135 130 00	30	126,3	121,50	100	20	55	3,86
135 135 00	35	146,5	141,68	110	20	55	5,20
135 136 00	36	150,6	145,72	120	25	55	5,64
135 138 00	38	158,6	153,80	120	25	55	6,14
135 145 00*	45	188,6	182,07	100	24	60	5,85
135 157 00*	57	237,1	230,54	100	24	60	6,28
135 176 00*	76	313,9	307,33	100	24	60	8,60
135 183 00*	95	390,7	384,11	120	24	67	11,90

Triple-Strand Plate wheels DRL, ISO 08 B-3



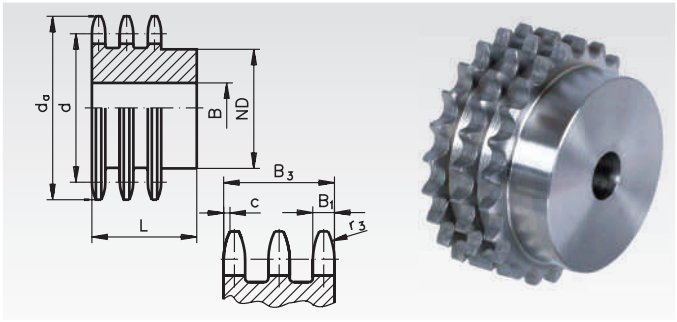
Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 135 208 00, DRL, 1/2 x 5/16“, 8 Teeth

Pitch 1/2 x 5/16“ DRL,
B_1 = 7 mm, B_3 = 34.9 mm, c = 1.3 mm, r_3 = 13 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
135 208 00	8	38,0	33,18	10	0,11
135 210 00	10	45,9	41,10	10	0,21
135 211 00	11	49,9	45,07	12	0,26
135 212 00	12	53,9	49,07	12	0,33
135 213 00	13	57,9	53,07	12	0,40
135 214 00	14	61,9	57,07	12	0,48
135 215 00	15	65,9	61,09	12	0,57
135 216 00	16	69,9	65,10	16	0,64
135 217 00	17	74,0	69,11	16	0,74
135 218 00	18	78,0	73,14	16	0,85
135 219 00	19	82,0	77,16	16	0,97
135 220 00	20	86,0	81,19	16	1,09
135 221 00	21	90,1	85,22	16	1,22
135 222 00	22	94,1	89,24	16	1,36
135 223 00	23	98,1	93,27	16	1,50
135 224 00	24	102,1	97,29	16	1,63
135 225 00	25	106,2	101,33	16	1,81
135 226 00	26	110,2	105,36	16	1,98
135 227 00	27	114,2	109,40	16	2,15
135 228 00	28	118,3	113,42	16	2,33
135 229 00	29	122,3	117,46	16	2,52
135 230 00	30	126,3	121,50	16	2,71
135 235 00	35	146,5	141,68	20	3,76
135 236 00	36	150,6	145,72	20	3,99
135 238 00	38	158,6	153,80	20	4,49
135 240 00	40	166,7	161,87	20	5,00
135 245 00	45	188,6	182,07	25	6,39
135 257 00	57	237,1	230,54	25	10,53
135 276 00	76	313,9	307,33	25	19,17
135 283 00	95	390,7	384,11	25	30,36

Triple-Strand Sprockets DRS with Hub, ISO 10 B-3



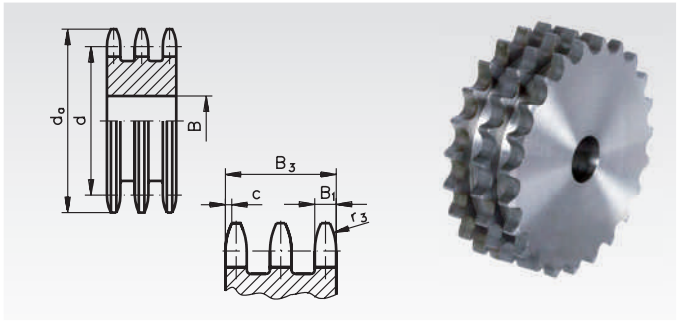
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 136 108 00, DRS, 5/8 x 3/8", 8 Teeth

Pitch 5/8 x 3/8" DRS,
B_1 = 9 mm, B_3 = 42.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
136 108 00	8	48,4	41,48	25	12	55	0,27
136 110 00	10	58,3	51,37	35	16	55	0,47
136 111 00	11	63,2	56,34	39	16	55	0,61
136 112 00	12	68,2	61,34	44	16	55	0,78
136 113 00	13	73,2	66,32	49	16	55	0,96
136 114 00	14	78,2	71,34	54	16	55	1,15
136 115 00	15	83,2	76,36	59	16	55	1,37
136 116 00	16	88,3	81,37	64	16	60	1,72
136 117 00	17	93,3	86,39	69	16	60	1,99
136 118 00	18	98,3	91,42	74	16	60	2,27
136 119 00	19	103,3	96,45	79	16	60	2,58
136 120 00	20	108,4	101,49	84	16	60	2,91
136 121 00	21	113,4	106,52	85	20	60	3,12
136 122 00	22	118,4	111,55	90	20	60	3,48
136 123 00	23	123,5	116,58	95	20	60	3,86
136 124 00	24	128,5	121,62	100	20	60	4,25
136 125 00	25	133,6	126,66	105	20	60	4,67
136 127 00	27	143,6	136,75	110	20	60	5,43
136 130 00	30	158,8	151,87	120	20	60	6,65
136 138 00	38	199,1	192,24	120	25	60	10,08
136 145 00*	45	236,0	227,58	100	32	60	7,04
136 157 00*	57	296,6	288,18	100	32	63	8,00
136 176 00*	76	392,5	384,16	110	35	67	12,00
136 183 00*	95	488,5	480,14	125	35	70	19,40
136 188 00*	114	584,5	576,13	125	35	80	24,00

Triple-Strand plate wheels DRL, ISO 10 B-3

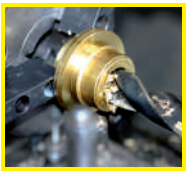


Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 136 208 00, DRL, 5/8 x 3/8", 8 Teeth

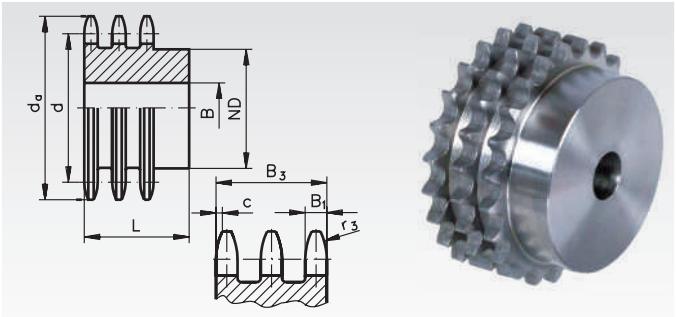
Pitch 5/8 x 3/8" DRL,
B_1 = 9 mm, B_3 = 42.1 mm, c = 1.6 mm, r_3 = 16 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
136 208 00	8	48,4	41,48	12	0,23
136 212 00	12	68,2	61,34	12	0,67
136 213 00	13	73,2	66,32	12	0,81
136 214 00	14	78,2	71,34	12	0,97
136 215 00	15	83,2	76,36	12	1,14
136 216 00	16	88,3	81,37	16	1,29
136 217 00	17	93,3	86,39	16	1,49
136 218 00	18	98,3	91,42	16	1,70
136 219 00	19	103,3	96,45	16	1,92
136 220 00	20	108,4	101,49	16	2,15
136 221 00	21	113,4	106,52	16	2,40
136 222 00	22	118,4	111,55	16	2,66
136 223 00	23	123,5	116,58	16	2,94
136 224 00	24	128,5	121,62	16	3,23
136 225 00	25	133,6	126,66	16	3,53
136 227 00	27	143,6	136,75	20	4,13
136 228 00	28	148,7	141,78	20	4,47
136 229 00	29	153,7	146,83	20	4,83
136 230 00	30	158,8	151,87	20	5,20
136 235 00	35	184,0	177,10	20	7,23
136 238 00	38	199,1	192,24	25	8,55
136 245 00	45	236,0	227,58	25	12,24
136 257 00	57	296,6	288,18	25	20,06
136 283 00	95	488,5	480,14	30	57,32
136 288 00	114	584,5	576,13	30	83,15



Reworking within 24h-service possible. Custom made parts on request.

Triple-Strand Sprockets DRS with Hub, ISO 12 B-3



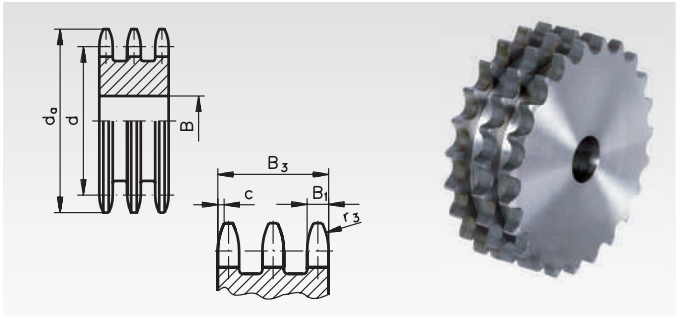
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 137 108 00, DRS, 3/4 x 7/16“, 8 Teeth

Pitch 3/4 x 7/16“ DRS,
B_1 = 10.8 mm, B_3 = 49.8 mm, c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
137 108 00	8	58,0	49,78	31	16	65	0,45
137 110 00	10	69,8	61,64	42	16	65	0,86
137 111 00	11	75,8	67,61	47	20	70	1,09
137 112 00	12	81,8	73,60	53	20	70	1,39
137 113 00	13	87,8	79,59	59	20	70	1,72
137 114 00	14	93,8	85,61	65	20	70	2,08
137 115 00	15	99,8	91,63	71	20	70	2,47
137 116 00	16	105,8	97,65	77	20	70	2,89
137 117 00	17	111,9	103,67	83	20	70	3,34
137 118 00	18	117,9	109,71	89	20	70	3,83
137 119 00	19	123,9	115,75	95	20	70	4,35
137 120 00	20	130,0	121,78	100	20	70	4,87
137 121 00	21	136,0	127,82	100	20	70	5,20
137 122 00	22	142,0	133,86	100	20	70	5,65
137 123 00	23	148,1	139,90	110	20	70	6,38
137 124 00	24	154,1	145,94	110	20	70	6,87
137 125 00	25	160,2	152,00	120	20	70	7,77
137 130 00	30	190,4	182,25	120	20	70	10,59
137 138 00	38	238,9	230,69	130	25	70	16,73
137 145 00*	45	283,2	273,10	140	30	70	13,30
137 157 00*	57	355,9	345,81	140	40	70	15,25
137 176 00*	76	471,1	460,99	160	40	75	27,20
137 183 00*	95	586,2	576,17	170	40	82	36,40

Triple-Strand Plate wheels DRL, ISO 12 B-3

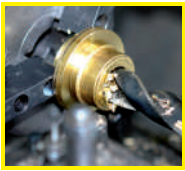


Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 137 211 00, DRL, 3/4 x 7/16“, 11 Teeth

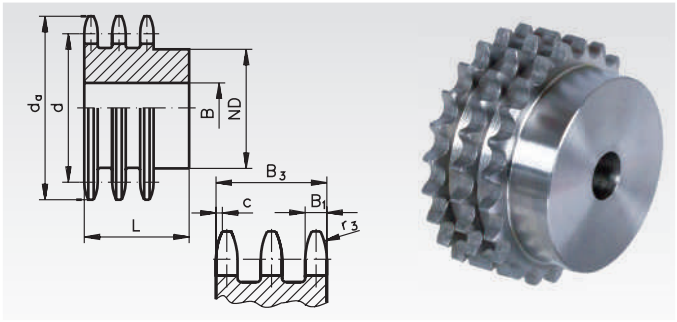
Pitch 3/4 x 7/16“ DRL,
B_1 = 10.8 mm, B_3 = 49.8 mm, c = 2.0 mm, r_3 = 19 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
137 211 00	11	75,8	67,61	16	0,91
137 212 00	12	81,8	73,50	16	1,13
137 213 00	13	87,8	79,59	16	1,38
137 214 00	14	93,8	85,61	16	1,64
137 215 00	15	99,8	91,63	16	1,93
137 216 00	16	105,8	97,65	20	2,20
137 217 00	17	111,9	103,67	20	2,54
137 218 00	18	117,9	109,71	20	2,89
137 219 00	19	123,9	115,75	20	3,27
137 220 00	20	130,0	121,78	20	3,67
137 222 00	22	142,0	133,86	20	4,55
137 225 00	25	160,2	152,00	20	6,02
137 230 00	30	190,4	182,25	20	8,97
137 235 00	35	220,7	212,52	25	12,35
137 238 00	38	238,9	230,69	25	14,70
137 240 00	40	251,0	242,81	25	16,40
137 245 00	45	283,2	273,10	25	21,00
137 248 00	48	301,4	291,27	25	24,04
137 257 00	57	355,9	345,81	30	34,28
137 276 00	76	471,1	460,99	30	62,09
137 283 00	95	586,2	576,17	30	98,04



Reworking within 24h-service possible. Custom made parts on request.

Triple-Strand Sprockets DRS with Hub, ISO 16 B-3



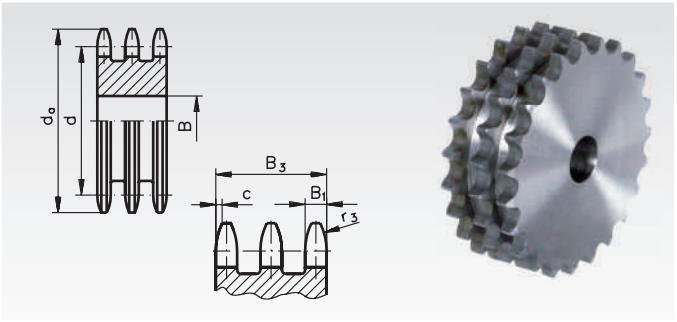
Material: Steel C45, not hardened.
Pre-bored.
Sprockets marked with * are made from grey cast iron GG22.

Ordering Details: e.g.: Product No. 138 108 00, DRS, 1" x 17.02, 8 Teeth

Pitch 1" x 17.02 mm DRS, B_1 = 15.8 mm, B_3 = 79.6 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	ND mm	B mm	L mm	Weight kg
138 108 00	8	77,9	66,37	42	20	95	1,19
138 109 00	9	85,8	74,27	50	20	95	1,68
138 110 00	10	93,8	82,19	56	20	95	2,24
138 111 00	11	101,7	90,14	64	25	100	2,86
138 112 00	12	109,7	98,14	72	25	100	3,62
138 113 00	13	117,7	106,12	80	25	100	4,45
138 114 00	14	125,7	114,15	88	25	100	5,37
138 115 00	15	133,7	122,17	96	25	100	6,37
138 116 00	16	141,8	130,20	104	30	100	7,45
138 117 00	17	149,8	138,22	112	30	100	8,60
138 118 00	18	157,8	146,28	120	30	100	9,84
138 119 00	19	165,9	154,33	128	30	100	11,16
138 120 00	20	173,9	162,38	130	30	100	12,36
138 121 00	21	182,0	170,43	130	30	100	13,56
138 122 00	22	190,1	178,48	130	30	100	14,82
138 123 00	23	198,1	186,53	130	30	100	16,15
138 124 00	24	206,2	194,59	130	30	100	17,53
138 125 00	25	213,5	202,66	130	30	100	18,99
138 126 00	26	222,3	210,72	130	30	100	20,34
138 127 00	27	230,4	218,79	130	30	100	21,92
138 128 00	28	238,4	226,85	130	30	100	23,57
138 129 00	29	246,5	234,92	130	30	100	25,27
138 130 00	30	254,6	243,00	130	30	100	27,05
138 131 00	31	262,6	251,08	140	30	100	29,23
138 132 00	32	270,7	259,13	140	30	100	31,13
138 135 00	35	294,9	283,36	140	30	100	37,23
138 136 00	36	303,0	291,44	140	30	100	39,39
138 138 00*	38	319,2	307,59	160	45	100	25,40
138 145 00*	45	377,9	364,12	160	45	100	33,60
138 157 00*	57	474,9	461,07	165	45	100	44,70
138 176 00*	76	628,4	614,65	200	45	110	63,10
138 183 00*	95	782,0	768,22	200	50	110	77,00
138 188 00*	114	935,6	921,81	200	50	115	97,00

Triple-Strand Plate wheels DRL, ISO 16 B-3



Material: Low-carbon steel, not hardable.
Pre-bored.

Ordering Details: e.g.: Product No. 138 208 00, DRL, 1" x 17.02, 8 Teeth

Pitch 1" x 17.02 mm DRL, B_1 = 15.8 mm, B_3 = 79.6 mm, c = 2.5 mm, r_3 = 26 mm

Product No.	Number of teeth	d_a mm	d mm	B mm	Weight kg
138 208 00	8	77,9	66,37	20	1,13
138 210 00	10	93,8	82,19	20	2,05
138 212 00	12	109,7	98,14	20	3,15
138 214 00	14	125,7	114,15	20	4,59
138 216 00	16	141,8	130,20	30	6,16
138 218 00	18	157,8	146,28	30	8,11
138 220 00	20	173,9	162,38	30	10,31
138 222 00	22	190,1	178,48	30	12,77
138 224 00	24	206,2	194,59	30	14,49
138 227 00	27	230,4	218,79	30	19,91
138 230 00	30	254,6	243,00	30	25,04
138 235 00	35	294,9	283,36	30	34,88
138 238 00	38	319,2	307,59	30	41,56
138 245 00	45	377,9	364,12	30	59,36
138 248 00	48	402,1	388,36	30	67,69
138 257 00	57	474,9	461,07	40	96,87

Reworking within 24h-service possible. Custom made parts on request.

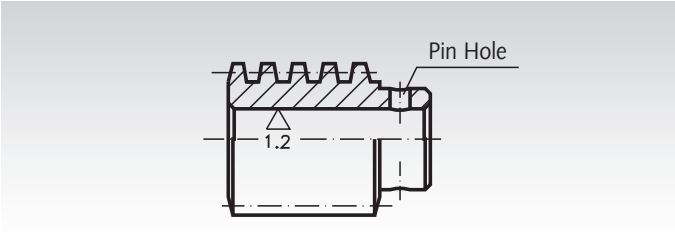
Mounting Options for Drive Wheels

There are several possibilities for mounting driving wheels (sprockets, V-Belt Pulleys, pulleys, spur gears etc.) or hubs on shafts. Most wheels are stocked with a rather small bore to allow for further machining. Machining works as drilling out, keywaying a.s.o. can be done at extra charge.

Please note: for several shaft diameters a number of sprockets, V-belt pulleys, spur gears and worm-gear sets are in stock "ready-to-install", i.e. with custom bore and keyway or prepared for Taper clamping bushes.

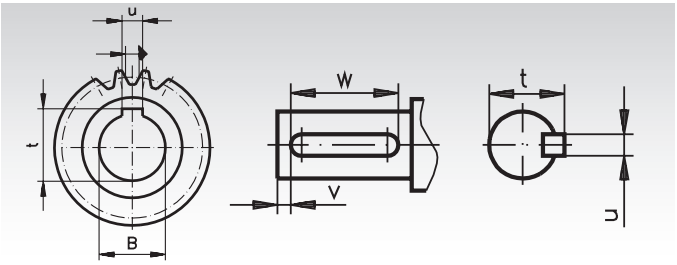
Fixing Pins

A hole is drilled through hub and shaft and both parts are then connected with a fixing pin. Usually only one side of the hub is pre-drilled, then the wheel is pushed onto the shaft and the hole is drilled through both shaft and the other side of the hub. Then the pin is driven in. This mounting method is suitable for low torques.



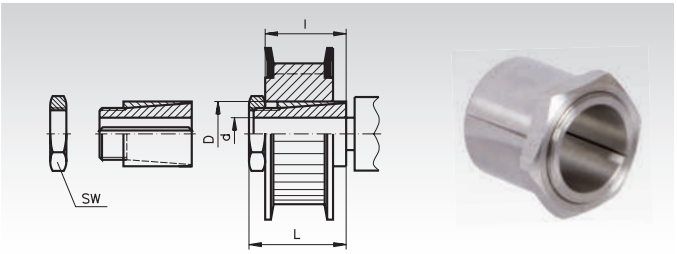
Feather Key Connection

Shaft and hub both receive a keyway, a key is pushed into the keyway of the hub. The wheel is pushed onto the shaft and secured against axial movement (with a set screw or with a stepped shaft and axial screw and washer at the end of the shaft). The most common kind of keyway is DIN 6885/1. Key connections are suitable for medium torques. Keys DIN 6885 see page 578 and 579. Boxes with an assortment of keys DIN 6885 see page 577.



Clamping Sets, Clamping Bushes and Shrink Disks

Clamping sets and thin-walled clamping bushes are available for various diameters. They allow fast and easy mounting on round shafts. A keyway is not required. Shrink disks are special clamping sets which press a thin-walled hub onto a shaft. Clamping connections are suitable for rather high torques. **Clamping sets and bushes, and shrink disks** see page 330.

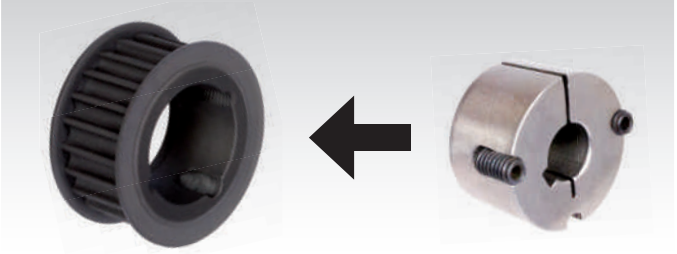


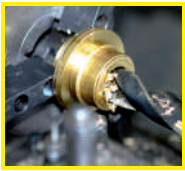
Taper Clamping Bushes

These customary conical bushes are used for easy and fast mounting of driving elements in Taper version. They can be used with and without key.

The bushes are available with various outer dimensions. For every outside measure there are bushes with many different bores available. This mounting method is cost-efficient and fast, and suitable for rather high torques. A large selection of cost-efficient driving elements in Taper version are available ex stock.

Taper clamping bushes see page 360.
Welding hubs for taper bushes see page 362.
Taper sprockets see page 74, 92, 101.
Taper V-belt pulleys see page 183.
Taper pulleys see page 154.
Taper couplings see page 388.





Reworking within 24h-service possible. Custom made parts on request.

Qualitiy Management
DIN EN ISO 9001

MÄDLER GmbH maintains a quality management system according to DIN EN ISO 9001 and was certified the first time in 1995.

On the iternet at **www. maedler.de** in the section **Downloads** you find:

- PDF catalogues in several languages.
- Operating instructions.
- Safety data sheets.
- Excel-Pricelist for customers in Germany.
- Certificates of conformity.
- Quality management certificate DIN 9001.
- Certificate AEO.
- Company profile.
- CAD files.

MÄDLER® meets even the highest quality requirements:Top quality, precision and reliability.

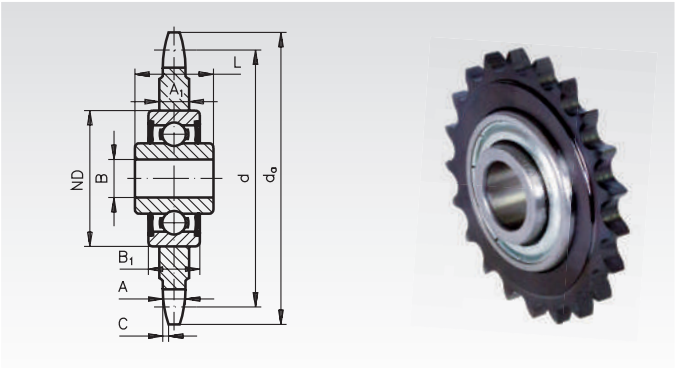
Chain Tensioning Wheels KSP with Bearing for Single-Strand Roller Chain DIN ISO 606 (ex DIN 8187)

Material: Sprocket steel C45, burnished.
Bearing made from roller bearing steel.

Ready-to-mount idlers, complete with bearing.

Cost-efficient. Can be mounted at the deflection or tensioning points. Perfect workmanship and stable mounting of the ball bearing with shields on both sides guarantee a high resistance against breakage and wear. Easy to mount by the extra long internal ring. Also suitable for agricultural and textile machines. Maintenance-free bearing, with grease filling.

Temperature range: -20° to +120°C.



Ordering Details: e.g.: Product No. 140 000 00 KSP, 05 - B1

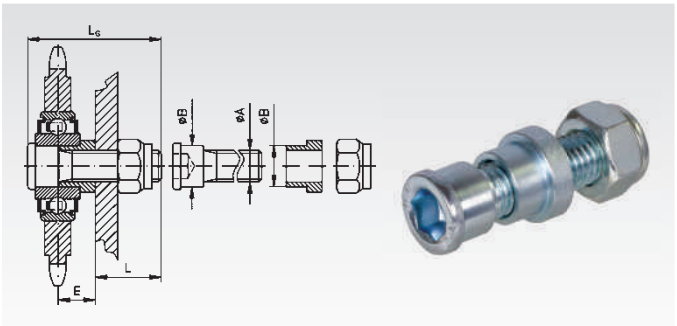
Product No.	DIN ISO	Pitch	Number of teeth	d_a mm	d mm	A mm	A_1 mm	C mm	B mm	ND mm	B_1 mm	L mm	Weight g
140 000 00	05 B-1	8mm	23	62,2	58,75	2,8	7,0	0,8	$16^{+0,26}_{+0,13}$	40	12	18,3	125
140 001 20	06 B-1	3/8 x 7/32“	20	64,3	60,89	5,3	7,0	1,0	$16^{+0,26}_{+0,13}$	40	12	18,3	135
140 001 00	06 B-1	3/8 x 7/32“	21	68,0	63,90	5,3	7,0	1,0	$16^{+0,26}_{+0,13}$	40	12	18,3	145
140 002 00	081	1/2 x 1/8“	18	78,9	73,14	3,0	7,0	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	170
140 003 16	083	1/2 x 3/16“	16	70,9	65,10	4,5	7,0	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	169
140 003 00	083	1/2 x 3/16“	18	78,9	73,14	4,5	7,0	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	195
140 005 14	08 B-1	1/2 x 5/16“	14	61,8	57,07	7,2	7,2	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	117
140 005 15	08 B-1	1/2 x 5/16“	15	65,5	61,09	7,2	7,2	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	145
140 005 16	08 B-1	1/2 x 5/16“	16	69,5	65,10	7,2	7,2	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	163
140 005 00	08 B-1	1/2 x 5/16“	18	77,8	73,14	7,2	7,2	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	210
140 005 20	08 B-1	1/2 x 5/16“	20	85,8	81,19	7,2	7,2	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	265
140 005 21	08 B-1	1/2 x 5/16“	21	89,7	85,22	7,2	7,2	1,3	$16^{+0,26}_{+0,13}$	40	12	18,3	289
140 006 13	10 B-1	5/8 x 3/8“	13	73,0	66,32	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	215
140 006 14	10 B-1	5/8 x 3/8“	14	78,0	71,34	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	245
140 006 15	10 B-1	5/8 x 3/8“	15	83,0	73,36	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	285
140 006 16	10 B-1	5/8 x 3/8“	16	88,0	81,37	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	325
140 006 00	10 B-1	5/8 x 3/8“	17	93,0	86,39	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	355
140 006 18	10 B-1	5/8 x 3/8“	18	98,3	91,42	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	405
140 006 21	10 B-1	5/8 x 3/8“	21	113,4	106,52	9,1	9,1	1,6	$16^{+0,26}_{+0,13}$	40	12	18,3	565
140 007 12	12 B-1	3/4 x 7/16“	12	81,5	73,60	11,1	11,1	2,0	$16^{+0,26}_{+0,13}$	40	12	18,3	280
140 007 13	12 B-1	3/4 x 7/16“	13	87,5	79,59	11,1	11,1	2,0	$16^{+0,26}_{+0,13}$	40	12	18,3	340
140 007 00	12 B-1	3/4 x 7/16“	15	99,8	91,63	11,1	11,1	2,0	$16^{+0,26}_{+0,13}$	40	12	18,3	470
140 007 16	12 B-1	3/4 x 7/16“	16	105,5	97,65	11,1	11,1	2,0	$16^{+0,26}_{+0,13}$	40	12	18,3	540
140 008 00	16 B-1	1“ x 17,02mm	12	109,0	98,14	16,2	16,2	2,5	$20^{+0}_{-0,01}$	47	14	17,7	705
140 008 15	16 B-1	1“ x 17,02mm	15	133,0	122,17	16,2	16,2	2,5	$20^{+0}_{-0,01}$	47	14	17,7	1185
140 008 17	16 B-1	1“ x 17,02mm	17	149,0	138,24	16,2	16,2	2,5	$20^{+0}_{-0,01}$	47	14	17,7	1545
140 009 00	20 B-1	1 1/4 x 3/4“	13	147,8	132,65	18,5	18,5	3,5	$25^{+0}_{-0,01}$	52	15	21,0	1610

Mounting Screws for tensioning Wheels KSP

Material: Steel C45, zinc-plated.

Product No. 140 000 01: Screw for chain tensioning wheels KSP up to size 12 B-1 (bore 16mm).

Product No. 140 008 01: Screw for chain tensioning wheel KSP, only for size 16 B-1 (bore 20mm).



Product No.	A	B mm	E mm	L mm	L_G mm	Weight g
140 000 01	M12	$16^{+0,1}$	15	25	52	80
140 008 01	M16	$20^{-0,05}_{-0,15}$	25	28	66	160

Loctite thread locking and bonding products page 811.

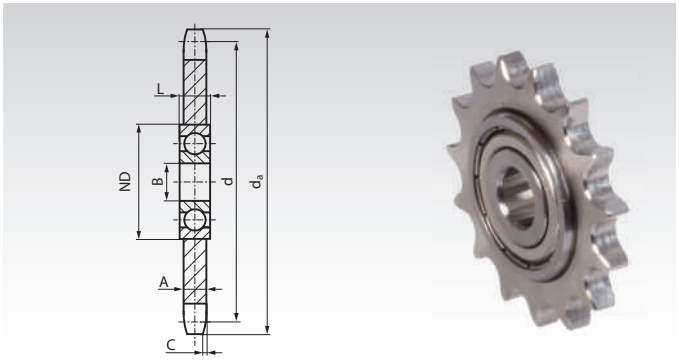
Chain Tensioning Wheels KSP-R with Bearing for Single-Strand Roller Chain DIN ISO 606, Stainless Steel

Material: Sprocket stainless steel 1.4305.
Ball bearing stainless steel.

Ready-to-mount idlers, complete with bearing.

Cost-efficient. Can be mounted at the deflection or tensioning points. Perfect workmanship and stable mounting of the ball bearing with shields on both sides guarantee a high resistance against breakage and wear. Maintenance-free bearing, with grease filling.

Temperature range: -20° to +120°C.



Ordering Details: e.g.: Product No. 140 990 01, Chain Tensioning Wheel KSP-R, 06 B-1

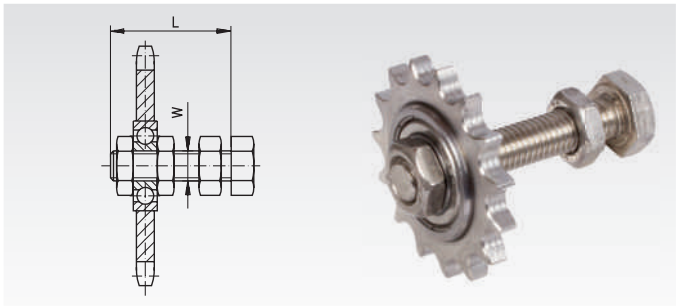
Product No.	DIN ISO	Pitch Inch	Number of teeth	d_a mm	d mm	A mm	C mm	B mm	ND mm	L mm	Weight kg
140 990 01	06 B-1	3/8 x 7/32"	15	49,5	45,81	5,3	1,0	$10^{+0}_{-0,008}$	30	9	0,06
140 990 05	08 B-1	1/2 x 5/16"	15	65,9	61,09	7,2	1,3	$10^{+0}_{-0,008}$	30	9	0,15
140 990 06	10 B-1	5/8 x 3/8"	15	83,2	76,36	9,1	1,6	$12^{+0}_{-0,008}$	37	12	0,27
140 990 07	12 B-1	3/4 x 7/16"	15	99,8	91,63	11,1	2,0	$12^{+0}_{-0,008}$	37	12	0,47
140 990 08	16 B-1	1" x 17,02mm	13	117,7	106,12	16,2	2,5	$20^{+0}_{-0,010}$	52	15	0,88

Sprocket Sets for Chain Tensioners Single, Stainless Steel

Material: Sprocket stainless steel 1.4305.
Ball bearing, screw and nuts stainless steel.

The sprocket can be moved on the screw and thus be aligned with the chain. It is locked in the desired position with the nuts. The permanently lubricated 2-Z bearings are sealed on both sides and guarantee perfect running of the sprocket.

Temperature range: -20° to +120°C.



Ordering Details: e.g.: Product No. 140 995 01, Sprocket Set for Chain Tensioner 06 B-1

Product No.	Matching Tensioning Element Size	DIN ISO	Number of Teeth	Pitch Ø mm	L mm	W mm	Weight kg
140 995 01	1 and 2	06 B - 1	15	45,81	55	M10	0,08
140 995 05	1 and 2	08 B - 1	15	61,08	55	M10	0,20
140 995 06	3	10 B - 1	15	76,36	80	M12	0,30
140 995 07	3	12 B - 1	15	91,63	80	M12	0,51
140 995 08	4	16 B - 1	13	106,14	100	M20	0,95

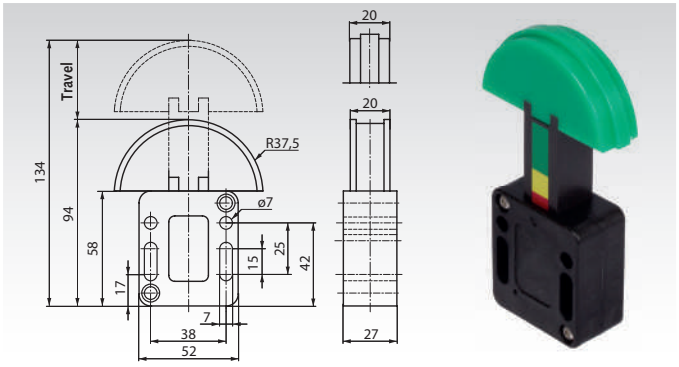
Chain Tensioners SPANN-BOX® Size 0, for Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Housing from thermoplast.
Chain rider from low pressure polyethylene PE-UHMW.
Screws and spring from stainless steel.

These small, ready-to install tensioners enable noise reduction and wear reduction at chain drives.

- With spiral, linear spring. On choice two tensioning forces.
- With colored wear-off indicator: Green: o.k. Yellow: still o.k. Red: Tensioning force too low (below 32N or 60N).
- Usable travel up to the end of the yellow range: About 32mm. Total travel about 40mm.
- Interchangeable with similar parts of other suppliers.

Temperature range: -20°C to +60°C (short time up to +80°C).



Ordering Details: e.g.: Product No. 140 401 01, Spann-Box Size 0, low Tensioning Force, 06 B-1

SPANN-BOX® Size 0 with low Tensioning Force

Product No.	DIN ISO	Pitch Inch	Tens. Force N	Weight g
140 401 01	≤ 06 B-1	3/8 x 7/32“	58 - 32	130
140 401 05*	08 B-1	1/2 x 5/16“	58 - 32	130
140 401 05*	10 B-1	5/8 x 3/8“	58 - 32	135
140 401 07	12 B-1	3/4 x 7/16“	58 - 32	135
140 401 21	06 B-2	3/8 x 7/32“	58 - 32	130
140 401 25	08 B-2	1/2 x 5/16“	58 - 32	130
140 401 26	10 B-2	5/8 x 3/8“	58 - 32	135

SPANN-BOX® Size 0 with high Tensioning Force

Product No.	DIN ISO	Pitch Inch	Tens. Force N	Weight g
140 402 01	≤ 06 B-1	3/8 x 7/32“	132 - 60	130
140 402 05*	08 B-1	1/2 x 5/16“	132 - 60	130
140 402 05*	10 B-1	5/8 x 3/8“	132 - 60	135
140 402 07	12 B-1	3/4 x 7/16“	132 - 60	135
140 402 21	06 B-2	3/8 x 7/32“	132 - 60	130
140 402 25	08 B-2	1/2 x 5/16“	132 - 60	130
140 402 26	10 B-2	5/8 x 3/8“	132 - 60	135

* This size fits 08 B-1 and 10 B-1.

Mounting of SPANN-BOX® Size 0

At front- and backside, there is a small hole for a locking pin (pin is included at the bottom of the housing). With this pin, the tensioner can be locked at maximum force for easy mounting. Recommendation: Mounting on slack side. The chain should be in contact with several links. To reach a sufficient contact angle, it may be useful to mount an idler wheel (e.g. KSP or KSP-R) near by the tensioner.

Operating Instructions at www.maedler.de in the section Downloads

Technical Note to Chain Tensioners SPANN-BOX® and SPANN-BOY®

Function: These tensioners are powered by linear spiral springs. These elastic tensioners reduce the chain slack and compensate the elongation of chains.

Temperature range: The standard versions are suitable for -20°C to +60°C (short time up to +80°C). Special versions are available on request for temperatures down to -40°C or up to +200°C.

Determination of tensioning force: The tensioners SPANN-BOX® size 0 can be ordered with two different tensioning forces. At SPANN-BOX® size 1 and SPANN-BOY® TS, the tensioning force can get adjusted at different amounts. The weight of the loose chain slack should not be greater than the half of the maximum tensioning force.

Mounting: The tensioner should be placed at the loose chain slack, near by the driving wheel. For low wear-off, several links should be in contact with the chain rider. To reach a sufficient contact angle, it may be useful to mount an idler wheel (e.g. KSP or KSP-R) near by the tensioner. For easy mounting, all tensioners can get locked at maximum tensioning force. After mounting, the tensioners must get unlocked.

Maintenance: At all tensioners, the colored wear-off indicator must be checked periodically. The time of period depends on the operating conditions of the chain drive. When the red marking can be seen, the tensioning force is too low. Then, after locking the tensioner at maximum spring force and loosing the mounting screws, the tensioner can get re-adjusted, closer to the chain. Slot holes allow a re-adjustment in a wide range. When the chain elonguation exceeds 3%, the chain and chain wheels should be replaced. If the chain rider is worn, also the complete tensioner should be replaced.

Chain Tensioners SPANN-BOX® Size 1, for Roller Chains DIN ISO 606 (ex DIN 8187)

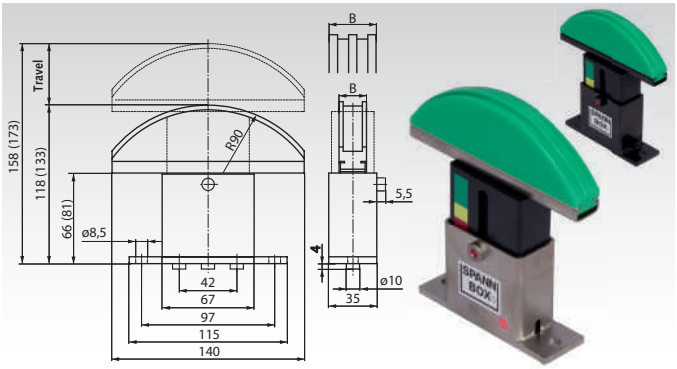
Material: Housing from steel, zinc plated, black lackered.
Chain rider from low pressure polyethylene PE-UHMW.
Material Version Stainless: Housing from stainless steel. STAINLESS

These ready-to-install tensioners enable noise reduction and wear reduction at chain drives.

- With three springs. On choice: Two tensioning force versions. At both versions, three different forces can get activated.
- With colored wear-off indicator: Green: o.k. Yellow: still o.k. Red: Tensioning force too low.
- Usable travel up to the end of the yellow range: About 32mm. Total travel about 40mm.
- Interchangeable with similar parts of other suppliers.

Temperature range: -20°C to +60°C (short time up to +80°C).

Ordering Details: e.g.: Product No. 140 403 01, Spann-Box Size 1, Short, Low Force, 06 B-1



SPANN-BOX® Size 1, Short, Low Force

Product No.	DIN ISO	Pitch Inch	B mm	H mm	Weight g
140 403 01	≤06 B-1	3/8 x 7/32"	20	118	670
140 403 05	08 B-1	1/2 x 5/16"	20	118	670
140 403 06	10 B-1	5/8 x 3/8"	20	118	670
140 403 07	12 B-1	3/4 x 7/16"	20	118	670
140 403 08	16 B-1	1" x 17,02	20	118	670
140 403 09	20 B-1	1 1/4 x 3/4"	20	118	670
140 403 21	06 B-2	3/8 x 7/32"	20	118	670
140 403 25	08 B-2	1/2 x 5/16"	20	118	670
140 403 26	10 B-2	5/8 x 3/8"	25	118	750
140 403 27	12 B-2	3/4 x 7/16"	30	118	750
140 403 28	16 B-2	1" x 17,02	45	118	820
140 403 31	06 B-3	3/8 x 7/32"	25	118	740
140 403 35	08 B-3	1/2 x 5/16"	30	118	750
140 403 36	10 B-3	5/8 x 3/8"	40	118	790
140 403 37	12 B-3	3/4 x 7/16"	45	118	810

SPANN-BOX® Size 1, Short, High Force

Product No.	DIN ISO	Pitch Inch	B mm	H mm	Weight g
140 404 01	≤06 B-1	3/8 x 7/32"	20	118	670
140 404 05	08 B-1	1/2 x 5/16"	20	118	670
140 404 06	10 B-1	5/8 x 3/8"	20	118	670
140 404 07	12 B-1	3/4 x 7/16"	20	118	670
140 404 08	16 B-1	1" x 17,02	20	118	670
140 404 09	20 B-1	1 1/4 x 3/4"	20	118	670
140 404 21	06 B-2	3/8 x 7/32"	20	118	670
140 404 25	08 B-2	1/2 x 5/16"	20	118	670
140 404 26	10 B-2	5/8 x 3/8"	25	118	750
140 404 27	12 B-2	3/4 x 7/16"	30	118	750
140 404 28	16 B-2	1" x 17,02	45	118	820
140 404 31	06 B-3	3/8 x 7/32"	25	118	740
140 404 35	08 B-3	1/2 x 5/16"	30	118	750
140 404 36	10 B-3	5/8 x 3/8"	40	118	790
140 404 37	12 B-3	3/4 x 7/16"	45	118	810

SPANN-BOX® Size 1, Short, High Force, Stainless

Product No. STAINLESS	DIN ISO	Pitch Inch	B mm	H mm	Weight g
140 405 01	≤06 B-1	3/8 x 7/32"	20	118	670
140 405 05	08 B-1	1/2 x 5/16"	20	118	670
140 405 06	10 B-1	5/8 x 3/8"	20	118	670
140 405 07	12 B-1	3/4 x 7/16"	20	118	670
140 405 08	16 B-1	1" x 17,02	20	118	670
140 405 09	20 B-1	1 1/4 x 3/4"	20	118	670
140 405 21	06 B-2	3/8 x 7/32"	20	118	670
140 405 25	08 B-2	1/2 x 5/16"	20	118	670
140 405 26	10 B-2	5/8 x 3/8"	25	118	750
140 405 27	12 B-2	3/4 x 7/16"	30	118	750
140 405 28	16 B-2	1" x 17,02	45	118	820
140 405 31	06 B-3	3/8 x 7/32"	25	118	740
140 405 35	08 B-3	1/2 x 5/16"	30	118	750
140 405 36	10 B-3	5/8 x 3/8"	40	118	790
140 405 37	12 B-3	3/4 x 7/16"	45	118	810

SPANN-BOX® Size 1, Long, High Force

Product No.	DIN ISO	Pitch Inch	B mm	H mm	Weight g
140 406 01	≤06 B-1	3/8 x 7/32"	20	133	740
140 406 05	08 B-1	1/2 x 5/16"	20	133	740
140 406 06	10 B-1	5/8 x 3/8"	20	133	740
140 406 07	12 B-1	3/4 x 7/16"	20	133	740
140 406 08	16 B-1	1" x 17,02	20	133	740
140 406 09	20 B-1	1 1/4 x 3/4"	20	133	740
140 406 21	06 B-2	3/8 x 7/32"	20	133	810
140 406 25	08 B-2	1/2 x 5/16"	20	133	810
140 406 26	10 B-2	5/8 x 3/8"	25	133	810
140 406 27	12 B-2	3/4 x 7/16"	30	133	810
140 406 28	16 B-2	1" x 17,02	45	133	890
140 406 31	06 B-3	3/8 x 7/32"	25	133	820
140 406 35	08 B-3	1/2 x 5/16"	30	133	820
140 406 36	10 B-3	5/8 x 3/8"	40	133	820
140 406 37	12 B-3	3/4 x 7/16"	45	133	890

SPANN-BOX® Size 1, Long, High Force, Stainless

Product No. STAINLESS	DIN ISO	Pitch Inch	B mm	H mm	Weight g
140 407 01	≤06 B-1	3/8 x 7/32"	20	133	740
140 407 05	08 B-1	1/2 x 5/16"	20	133	740
140 407 06	10 B-1	5/8 x 3/8"	20	133	740
140 407 07	12 B-1	3/4 x 7/16"	20	133	740
140 407 08	16 B-1	1" x 17,02	20	133	740
140 407 09	20 B-1	1 1/4 x 3/4"	20	133	740
140 407 21	06 B-2	3/8 x 7/32"	20	133	810
140 407 25	08 B-2	1/2 x 5/16"	20	133	810
140 407 26	10 B-2	5/8 x 3/8"	25	133	810
140 407 27	12 B-2	3/4 x 7/16"	30	133	810
140 407 28	16 B-2	1" x 17,02	45	133	890
140 407 31	06 B-3	3/8 x 7/32"	25	133	820
140 407 35	08 B-3	1/2 x 5/16"	30	133	820
140 407 36	10 B-3	5/8 x 3/8"	40	133	820
140 407 37	12 B-3	3/4 x 7/16"	45	133	890

Adjustable Tensioning Forces:

On choice, there are two versions, with low tensioning force or with high tensioning force. Both versions have three springs, which can get activated independent from each other to reach three different tensioning forces:

Version with low tensioning force:

1 spring activated: 58 - 32 N.
2 springs activated: 116 - 64 N.
3 springs activated: 174 - 96 N.

Version with high tensioning force:

1 spring activated: 132 - 60 N.
2 springs activated: 264 - 120 N.
3 springs activated: 396 - 180 N.

Operating Instructions at www.maedler.de in the section Downloads

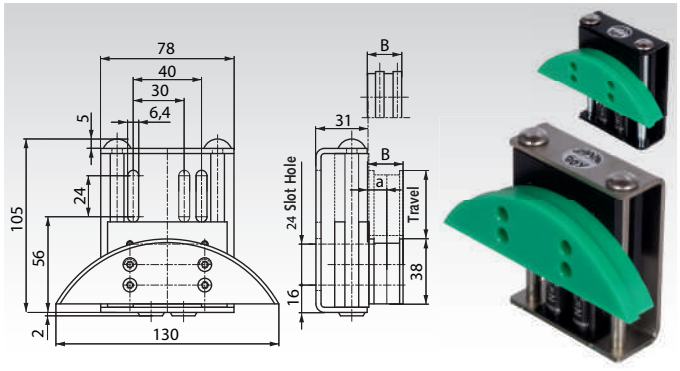
Chain Tensioners SPANN-BOY® TS, for Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Housing from steel, zinc plated, black lackered.
Chain rider from low pressure polyethylene PE-UHMW.
Material Version Stainless: Housing from stainless steel.

These very low, ready-to-install tensioners enable noise reduction and wear reduction at chain drives.

- Needed space below chain only 40mm.
- With two springs of different force, which can get activated separately or together. So it is possible to adjust three different tensioning forces.
- Usable travel about 40mm.
- Interchangeable with similar parts of other suppliers.

Temperature range: -20°C to +60°C (short time up to +80°C).



Ordering Details: e.g.: Product No. 140 408 01, Spann-Boy TS, 06 B-1

SPANN-BOY® TS

Product No.	DIN ISO	Pitch Inch	a mm	B mm	Weight g
140 408 01	≤06 B-1	3/8 x 7/32“	10,0	20	460
140 408 05	08 B-1	1/2 x 5/16“	16,5	20	460
140 408 06	10 B-1	5/8 x 3/8“	15,6	20	460
140 408 07	12 B-1	3/4 x 7/16“	14,8	20	460
140 408 21	06 B-2	3/8 x 7/32“	7,5	20	460
140 408 25	08 B-2	1/2 x 5/16“	15,2	32	460
140 408 26	10 B-2	5/8 x 3/8“	11,3	32	500
140 408 30	05 B-3	8mm x 3mm	7,4	20	480
140 408 31	06 B-3	3/8 x 7/32“	9,4	32	480

SPANN-BOY® TS, Stainless

Product No. STAINLESS	DIN ISO	Pitch Inch	a mm	B mm	Weight g
140 409 01	≤06 B-1	3/8 x 7/32“	10,0	20	460
140 409 05	08 B-1	1/2 x 5/16“	16,5	20	460
140 409 06	10 B-1	5/8 x 3/8“	15,6	20	460
140 409 07	12 B-1	3/4 x 7/16“	14,8	20	460
140 409 21	06 B-2	3/8 x 7/32“	7,5	20	460
140 409 25	08 B-2	1/2 x 5/16“	15,2	32	460
140 409 26	10 B-2	5/8 x 3/8“	11,3	32	500
140 409 30	05 B-3	8mm x 3mm	7,4	20	480
140 409 31	06 B-3	3/8 x 7/32“	9,4	32	480

Adjustable Tensioning Forces:

The SPANN-BOY® TS has two different springs: one with low force and one with high force. These springs gan get activated separately or together. So it is possible to adjust three different tensioning forces:

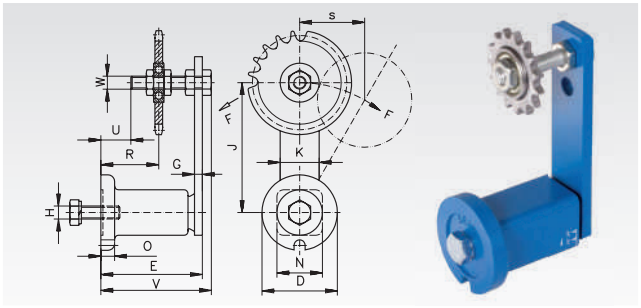
Only the low-force spring activated: 58 - 32 N.
Only the high-force spring activated: 132 - 60 N.
Both springs together activated: 190 - 96 N.

Operating Instructions at www.maedler.de in the section Downloads

Chain Tensioners for Single-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Housing sintered steel or grey cast iron GG20, lever St52, sprocket made from steel.

This tensioning element, a continually-tensioning torsion element, prolongs the service life of chain and belt drives by at least 30%, and radically reduces maintenance and repair work. The unique operating principle of this spring offers a long tensioning distance, especially as the lever can be pre-tensioned by up to 30° in both directions. The permanent torsion force does not only automatically compensate the chain elongation, the rubber mounted element also dampens vibrations and shocks in the entire drive. Other advantages: chain track adjustable, rubber suspension, adjustable at an angle of 360°, tensioning pressure steplessly adjustable from "normal" to " hard". Can be used for both tensioning directions. Temperature range: -20° to +80°C.



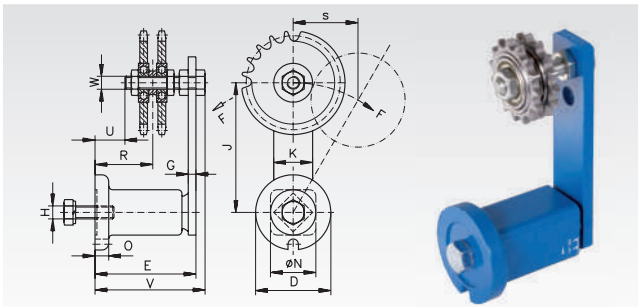
Ordering Details: e.g.: Product No. 140 802 00, Tensioner and 140 501 01, Sprocket

DIN ISO	Product No. Tensioning Element	Product No. Single Sprocket	No. of Teeth	Pitch Ø mm	max. Tensioning Force N	D mm	E mm	H mm	J mm	N mm	R mm	S max. mm	U mm	V mm	W mm	Weight kg
06 B - 1	**140 802 00**	**140 501 01**	15	45,81	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	34-55	50	23	85	M10	0,75
081	**140 802 16**	**140 502 01**	18	73,14	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	40-48	50	23	88	M16	0,95
083	**140 802 16**	**140 503 01**	18	73,14	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	40-48	50	23	88	M16	0,96
08 B - 1	**140 802 00**	**140 505 01**	15	61,08	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	34-55	50	23	85	M10	0,80
10 B - 1	**140 803 00**	**140 506 01**	15	76,36	0- 800	78	108 $^{+2}_{-0,5}$	M12	130	52	42-80	65	27	115	M12	2,05
12 B - 1	**140 803 00**	**140 507 01**	15	91,63	0- 800	78	108 $^{+2}_{-0,5}$	M12	130	52	42-80	65	27	115	M12	2,25
16 B - 1	**140 804 00**	**140 508 01**	13	106,14	0- 1500	95	140 $^{+2}_{-0,5}$	M16	175	66	60-100	87,5	40	153	M20	4,80

Chain Tensioners for Double-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Housing sintered steel or grey cast iron GG20, lever St52, sprocket made from steel.

This tensioning element, a continually-tensioning torsion element, prolongs the service life of chain and belt drives by at least 30%, and radically reduces maintenance and repair work. The unique operating principle of this spring offers a long tensioning distance, especially as the lever can be pre-tensioned by up to 30° in both directions. The permanent torsion force does not only automatically compensate the chain elongation, the rubber mounted element also dampens vibrations and shocks in the entire drive. Other advantages: chain track adjustable, rubber suspension, adjustable at an angle of 360°, tensioning pressure steplessly adjustable from "normal" to " hard". Can be used for both tensioning directions. Temperature range: -20° to +80°C.



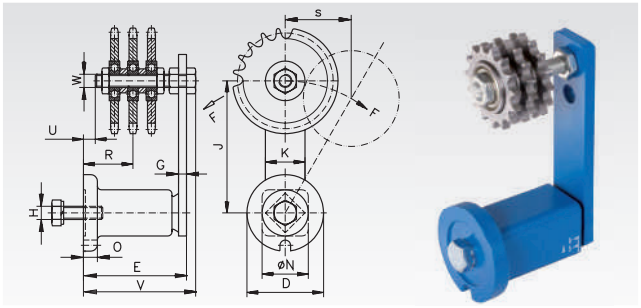
Ordering Details: e.g.: Product No. 140 802 00, Tensioner and 140 521 01, Sprocket

DIN ISO	Product No. Tensioning Element	Product No. Double Sprocket	No. of Teeth	Pitch Ø mm	max. Tensioning Force N	D mm	E mm	H mm	J mm	N mm	R mm	S max. mm	U mm	V mm	W mm	Weight kg
06 B - 2	**140 802 00**	**140 521 01**	15	45,81	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	39-50	50	23	85	M10	0,80
08 B - 2	**140 802 00**	**140 525 01**	15	61,08	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	41-48	50	23	85	M10	0,80
10 B - 2	**140 803 00**	**140 526 01**	15	76,36	0- 800	78	108 $^{+2}_{-0,5}$	M12	130	52	50-71	65	27	115	M12	2,30
12 B - 2	**140 803 00**	**140 527 01**	15	91,63	0- 800	78	108 $^{+2}_{-0,5}$	M12	130	52	51-70	65	27	115	M12	2,75
16 B - 2	**140 804 00**	**140 528 01**	13	106,14	0- 1500	95	140 $^{+2}_{-0,5}$	M16	175	66	56-85	87,5	20	153	M20	5,65

Chain Tensioners for Triple-Strand Roller Chains DIN ISO 606 (ex DIN 8187)

Material: Housing sintered steel or grey cast iron GG20, lever St52, sprocket made from steel.

This tensioning element, a continually-tensioning torsion element, prolongs the service life of chain and belt drives by at least 30%, and radically reduces maintenance and repair work. The unique operating principle of this spring offers a long tensioning distance, especially as the lever can be pre-tensioned by up to 30° in both directions. The permanent torsion force does not only automatically compensate the chain elongation, the rubber mounted element also dampens vibrations and shocks in the entire drive. Other advantages: chain track adjustable, rubber suspension, adjustable at an angle of 360°, tensioning pressure steplessly adjustable from "normal" to " hard". Can be used for both tensioning directions. Temperature range: -20° to +80°C.



Ordering Details: e.g.: Product No. 140 802 00, Tensioner and 140 531 01, Sprocket

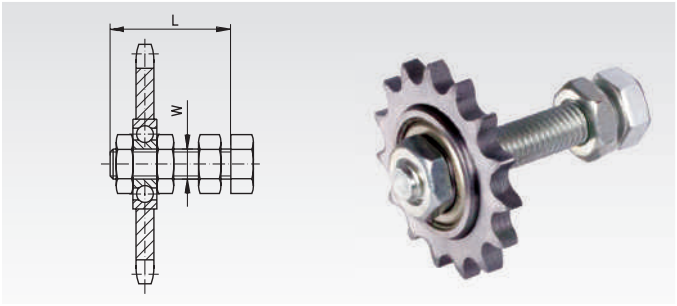
DIN ISO	Product No. Tensioning Element	Product No. Triple Sprocket	No. of Teeth	Pitch Ø mm	max. Tensioning Force N	D mm	E mm	H mm	J mm	N mm	R mm	S max. mm	U mm	V mm	W mm	Weight kg
06 B - 3	**140 802 00**	**140 531 01**	15	45,81	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	25-45	50	6	85	M10	0,90
08 B - 3	**140 802 12**	**140 535 01**	15	61,08	0- 350	58	79 $^{+1,5}_{-0,5}$	M10	100	35	23-47	50	6	85	M12	0,90
10 B - 3	**140 803 00**	**140 536 01**	15	76,36	0- 800	78	108 $^{+2}_{-0,5}$	M12	130	52	40-64	65	15	115	M12	3,25
12 B - 3	**140 804 00**	**140 537 01**	15	91,63	0- 1500	95	140 $^{+2}_{-0,5}$	M16	175	66	56-80	87,5	30	153	M20	6,50

Sprocket Sets for Chain Tensioners Single

Material: Steel St40/50. Screw zinc-plated steel.

The sprocket can be moved on the screw and thus be aligned with the chain. It is locked in the desired position with the nuts. The permanently lubricated 2-Z bearings are sealed on both sides and guarantee perfect running of the sprocket.

Temperature range: -20° to +120°C.



Ordering Details: e.g.: Product No. 140 501 01, Sprocket Set for Chain Tensioner Size 1

Product No.	Matching Tensioning Element Size	DIN ISO	No. of Teeth	Pitch Ø mm	L mm	W mm	Weight kg
140 501 01	1 and 2	06 B - 1	15	45,81	55	M10	0,08
140 502 01*	1[1] and 2[2]	081	18	73,14	55	M16[3]	0,19
140 503 01*	1[1] and 2[2]	083	18	73,14	55	M16[3]	0,21
140 505 01	1 and 2	08 B - 1	15	61,08	55	M10	0,20
140 506 01	3	10 B - 1	15	76,36	80	M12	0,30
140 507 01	3	12 B - 1	15	91,63	80	M12	0,51
140 508 01	4	16 B - 1	13	106,14	100	M20	0,95

[1] Tensioning element bore needs to be drilled out. [2] Matching Product No. 140 802 16. [3] With special ball bearing, length of inner ring 18.3mm.

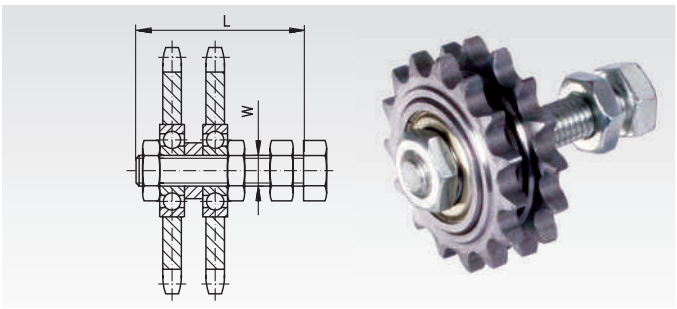
Sprocket Sets for Chain Tensioners, Double

Material: Steel St40/50. Screw zinc-plated steel.

The sprocket can be moved on the screw and thus be aligned with the chain. It is locked in the desired position with the nuts. The permanently lubricated 2-Z bearings are sealed on both sides and guarantee perfect running of the sprocket.

Accurate-to-size spacers guarantee perfect meshing of teeth and sprocket.

Temperature range: -20° to +120°C.



Ordering Details: e.g.: Product No. 140 521 01, Sprocket Set for Chain Tensioner Size 1

Product No.	Matching Tensioning Element Size	DIN ISO	No. of Teeth	Pitch Ø mm	L mm	W mm	Weight kg
140 521 01	1 and 2	06 B - 2	15	45,81	55	M10	0,15
140 525 01	1 and 2	08 B - 2	15	61,08	70	M10	0,40
140 526 01	3	10 B - 2	15	76,36	80	M12	0,60
140 527 01	3	12 B - 2	15	91,63	80	M12	1,00
140 528 01	4	16 B - 2	13	106,14	120	M20	1,90

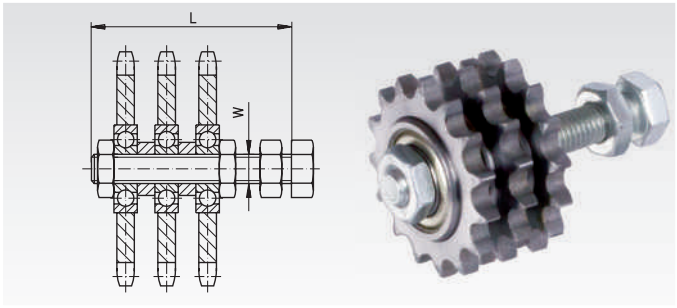
Sprocket Sets for Chain Tensioners, Triple

Material: Steel St40/50. Screw zinc-plated steel.

The sprocket can be moved on the screw and thus be aligned with the chain. It is locked in the desired position with the nuts. The permanently lubricated 2-Z bearings are sealed on both sides and guarantee perfect running of the sprocket.

Accurate-to-size spacers guarantee perfect meshing of teeth and sprocket.

Temperature range: -20° to +120°C.



Ordering Details: e.g.: Product No. 140 531 01, Sprocket Set for Chain Tensioner Size 2

Product No.	Matching Tensioning Element Size	DIN ISO	No. of Teeth	Pitch Ø mm	L mm	W mm	Weight kg
140 531 01	2	06 B - 3	15	45,81	70	M10	0,25
140 535 01	2* and 3	08 B - 3	15	61,08	80	M12	0,50
140 536 01	3	10 B - 3	15	76,36	80	M12	0,95
140 537 01	4	12 B - 3	15	91,63	120	M20	1,50

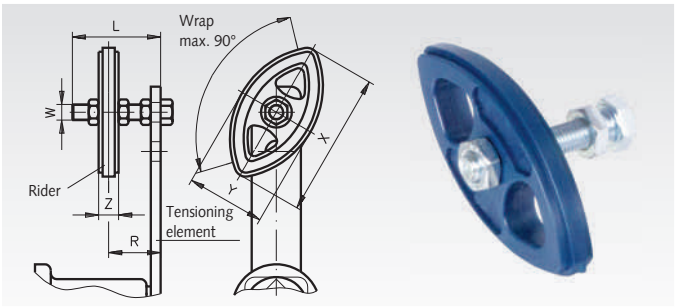
* Matching tensioning element Product No. 140 802 12.

Chain Rider Sets

Material: Plastic POM. Screw zinc-plated steel.

To be mounted on the suitable tensioning element to create a ready-to-mount, cost-efficient chain tensioner. The shape of the rider, made from high-grade, friction resistant, industrial plastic, means the rider can be used on both rider sides and the large radius guarantees quiet operation. The maximum chain speed must not exceed 1.5 m/sec. Temperature range: -20° to +80°C.

Tensioning Element has to be ordered separately.



Ordering Details: e.g.: Product No. 140 851 00 Chain Rider Set 06 B-1

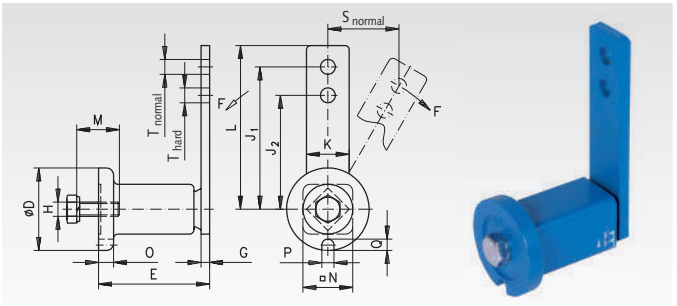
Product No.	Suitable for Tensioning Element Size	DIN ISO	W mm	L mm	X mm	Y mm	Z mm	Adjustment Range R mm	Weight kg
140 851 00	0	06 B - 1	M8	45	74	40	10,2	19 - 34	0,05
140 855 00	1	08 B - 1	M10	55	96	50	13,9	23 - 41	0,10
140 856 00	2	10 B - 1	M10	55	126	65	16,6	24 - 39	0,12
140 857 00	3	12 B - 1	M12	80	148	74	19,5	30 - 61	0,18

Tensioning Elements in Standard Version

Material: Housing up to Ø 78 mm made from sintered steel, over Ø 78 mm made from grey cast iron GG20, lever made from St52.

Can be used for tensioning all common kinds of chain and belt drives. The elastomeric inserts are based on highly-elastic natural rubber with a good shape memory and are designed for applications in temperatures from -40° to +80°C

The tensioning elements are painted blue and supplied with a zinc-plated screw and spring washer. Can be used for both tensioning directions. Temperature range: -40° to +80°C.



Ordering Details: e.g.: Product No. 140 800 00, Tensioning Element Ø 35 mm

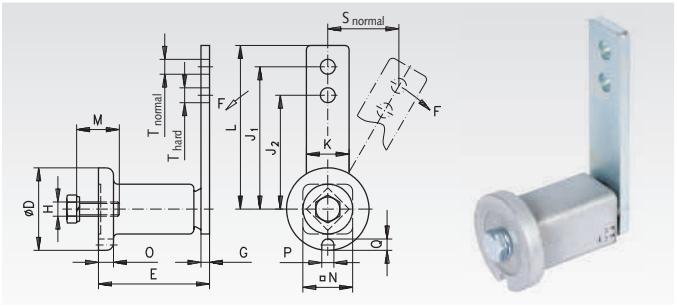
Product No.	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	T mm	M_A Nm	Weight kg
140 800 00	0	80	106	40	30	35	51 $^{+1,0}_{-0,5}$	5	M6	80	60	20	90	20	22	6	8	5	8,5	10	0,2
140 801 00	1	135	168	50	40	45	64 $^{+1,0}_{-0,5}$	5	M8	100	80	25	112,5	25	30	8	8,5	6	10,5	25	0,4
140 802 00	2	350	437	50	40	58	79 $^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	10,5	49	0,6
140 802 12	2	350	437	50	40	58	79 $^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	12	49	0,6
140 802 16	2	350	437	50	40	58	79 $^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	16	49	0,6
140 803 00	3	800	1040	65	50	78	108 $^{+2}_{-0,5}$	8	M12	130	100	50	155	40	52	15	10,5	10	12,5	86	1,7
140 804 00	4	1500	1875	87,5	70	95	140 $^{+2}_{-0,5}$	10	M16	175	140	60	205	40	66	15	12,5	12	20,5	210	3,55

Tensioning Elements, Zinc Plated and Oil Resistant

Material: Casing made from sintered steel or grey cast iron GG20, lever made from St52.

The design of these tensioning elements is identical to the standard version, but they are zinc plated and the synthetic spring elements are resistant to mineral oils. These components are especially suited for "outdoor" applications, e.g. for construction machinery or for use inside the oilbath of a gearbox. The tensioning elements are marked with a yellow dot on the lever. Can be used for both tensioning directions.

Temperature range: -40° to +120°C.



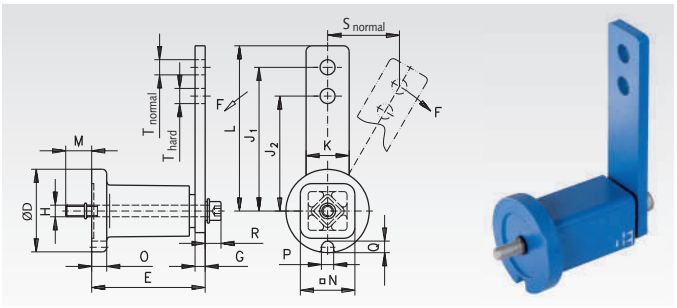
Ordering Details: e.g.: Product No. 140 800 03, Tensioning Element Ø 35 mm

Product No.	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	T mm	M_A Nm	Weight kg
140 800 03	0	80	106	40	30	35	51 $^{+1,0}_{-0,5}$	5	M6	80	60	20	90	20	22	6	8	5	8,5	10	0,2
140 801 03	1	135	168	50	40	45	64 $^{+1,0}_{-0,5}$	5	M8	100	80	25	112,5	25	30	8	8,5	6	10,5	25	0,4
140 802 03	2	350	437	50	40	58	79 $^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	10,5	49	0,6
140 803 03	3	800	1040	65	50	78	108 $^{+2}_{-0,5}$	8	M12	130	100	50	155	40	52	15	10,5	10	12,5	86	1,7
140 804 03	4	1500	1875	87,5	70	95	140 $^{+2}_{-0,5}$	10	M16	175	140	60	205	40	66	15	12,5	12	20,5	210	3,55

Tensioning Elements with Front Mounting

Material: Housing up to Ø 78 mm made from sintered steel, over Ø 78 mm made from grey cast iron GG20, lever made from St52.

These tensioning elements are in general identical to the standard version. For easier mounting they are fixed from the lever side using an in-and-out screw. A thread has to be cut in the machine housing. The supplied screw is secured for transport with an O-Ring. Can be used for both tensioning directions. Temperature range: -40° to +80°C.



Ordering Details: e.g.: Product No. 140 801 07, Tensioning Element Ø 45 mm

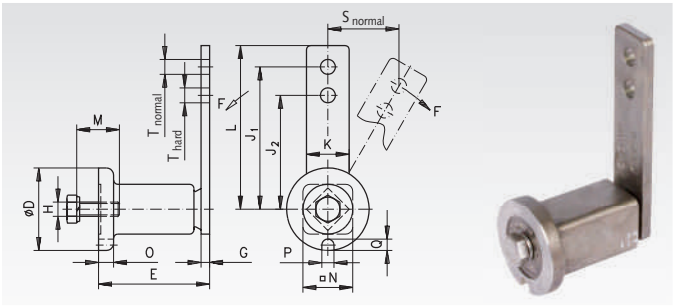
Product No.	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	R mm	T mm	M_A Nm	Weight kg
140 801 07	1	135	168	50	40	45	$64^{+1,0}_{-0,5}$	5	M6	100	80	25	113	12,4	30	8	8,5	6	10	10,5	17	0,4
140 802 07	2	350	437	50	40	58	$79^{+1,5}_{-0,5}$	7	M8	100	80	30	115	18,9	35	10,5	8,5	8	12	10,5	41	0,65
140 803 07	3	800	1040	65	50	78	$108^{+2}_{-0,5}$	8	M10	130	100	50	155	17,5	52	15	11	10	16	12,5	83	1,85
140 804 07	4	1500	1875	87,5	70	95	$140^{+2}_{-0,5}$	10	M12	175	140	60	205	18,0	66	15	13	12	19	20,5	145	3,70

Tensioning Elements Stainless

Material: Stainless steel 1.4301 or 1.4308.

STAINLESS

The design of this tensioning element is identical to the standard version.
Temperature range: -40° to +80°C.



Ordering Details: e.g.: Product No. 140 998 01, Tensioning Element Ø 45 mm

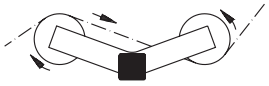
Product No	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	T mm	M_A Nm	Weight kg
140 998 01	1	150	187,5	50	40	45	$64^{+1,0}_{-0,5}$	5	M8	100	80	25	112,5	25	30	8	8,5	6	10,5	25	0,35
140 998 02	2	400	500	50	40	58	$79^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	10,5	49	0,70
140 998 03	3	860	1118	65	50	78	$108^{+2}_{-0,5}$	8	M12	130	100	50	155	40	52	15	10,5	10	12,5	86	1,90
140 998 04	4	1500	1875	87,5	70	100	$140^{+2}_{-0,5}$	10	M16	175	140	70	205	40	70	15	12,5	12	20,5	210	4,30

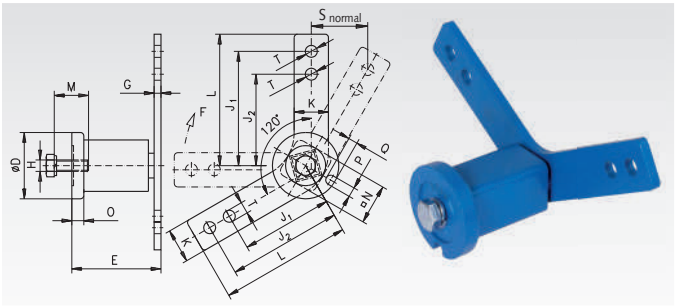
Tensioning Elements „Boomerang“

Material: Housing sintered steel, lever St52.

These tensioning elements are used to compensate the slack in extremely long chain drives. The slack length passes in an S-shape through the supplied sprockets or pulleys so that the lever works as a compensator. This system thus offers a triple compensation of the slack compared to standard tensioners.

Application example:





Ordering Details: e.g.: Product No. 140 802 09, Tensioning Element Ø 58 mm

Product No.	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	T mm	M_A Nm	Weight kg
140 802 09	2	175	215	50	40	58	$79^{+1,5}_{-0,5}$	6	M10	100	80	30	115	30	35	10,5	8,5	8	10,5	49	0,75
140 803 09	3	400	520	65	50	78	$108^{+2}_{-0,5}$	8	M12	130	100	50	155	40	52	15	11	10	12,5	86	2,10

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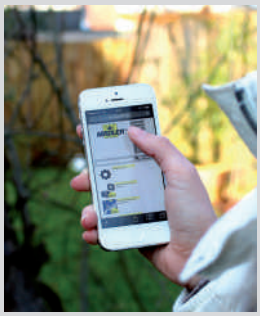

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...we keep things moving

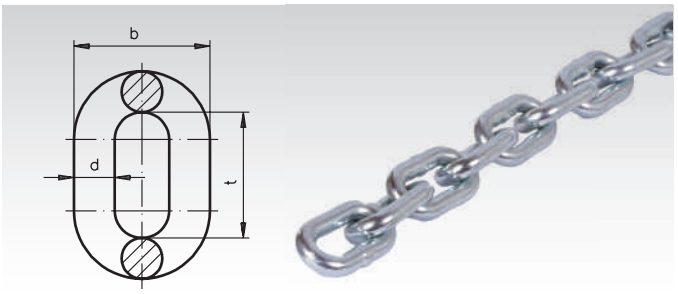
Round-Link Steel Chains DIN 766 A, zinc-plated

Material: High-quality steel in accordance with DIN 17115, zinc plated

Short links, true to gauge, certified. Quality class 3. High-quality steel in accordance with DIN 17115. Surface, zinc plated

Stock lengths available, max 30 m.

Matching sprockets and chain rollers, see page 120.



Ordering Details: e.g.: Product No. 770 104 00, Round-Link Steel Chain 4 mm, DIN 766A.

Product No.	d mm	t mm	b mm	Work load* approx.N	Minimum breaking load N	Weight kg/m
770 104 00	4	16	14	2000	8000	0,32
770 105 00	5	18,5	17	3200	12000	0,5
770 106 00	6	18,5	20	4000	16000	0,75
770 108 00	8	24	26	8000	32000	1,35
770 110 00	10	28	34	12000	50000	2,25

* At chain speeds up to 1 m/s.

Spare Chain Links RN, zinc-plated

Material: Steel, zinc plated.

Chain links consisting of two parts that have to be riveted together. Precisely drop-forged and deburred, ready-to-use, matching chain DIN 766. One part is placed on top of the other, and then both parts are pressed together. These spare chain links cannot be used for continuous operation under load.

Matching sprockets and chain rollers, see page 120.

Ordering Details: e.g.: Product No. 770 135 00, Spare Chain Link RN 5 mm.

Product No.	d ≈ mm	t ≈ mm	Weight g
770 135 00	5	18,5	12
770 136 00	6	18,5	14
770 138 00	8	24	38
770 140 00	10	28	75

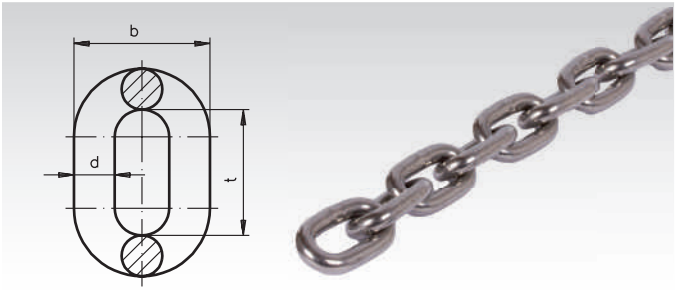
Round-Link Steel Chains similar to DIN 766 A, Stainless

Material: Stainless steel 1.4401.

Short links, true to gauge, certified, as per DIN 766 A Quality Class 3.

Stock lengths available, max 30 m.

Matching sprockets and chain rollers, see page 120.



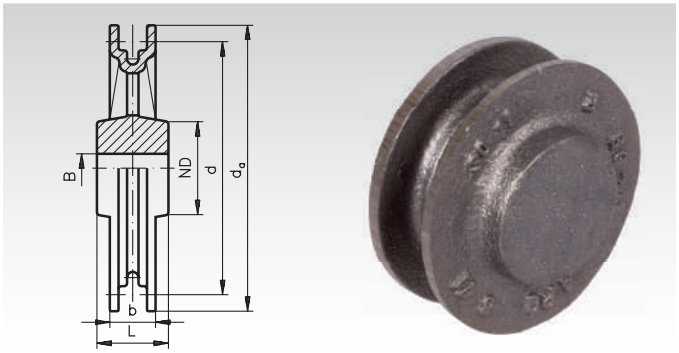
Ordering Details: e.g.: Product No. 770 990 04, Round-Link Steel Chain 4 mm, Stainless.

Product No.	d mm	t mm	b mm	Work load* approx.N	Minimum breaking load N	Weight kg/m
770 990 04	4	16	14	2000	8000	0,32
770 990 05	5	18,5	17	3200	12000	0,5
770 990 06	6	18,5	20	4000	16000	0,75
770 990 08	8	24	26	8000	32000	1,35
770 990 10	10	28	34	12000	40000	2,25

* At chain speeds up to 1 m/s.

Chain Wheels without Teeth (Chain Rollers)

Matching chains in accordance with DIN 766 A.
Material: Grey cast iron GG25.
Hub unfinished and without bore, some with core hole.
All dimensions and weights „ca.“.



Ordering Details: e.g.: Art.No. 770 404 00, Chain Wheel, d_a= 56 mm, 4 mm

Chain Width 4 mm, Pitch 16 mm

Product No.	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
770 404 00	56	41	23	40	30	-	0,3
770 408 00	96	81	23	50	35	-	1,0

Chain Width 5 and 6 mm, Pitch 18.5 mm

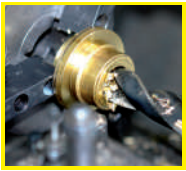
Product No.	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
770 506 00	95	71	32	50	50	-	1,2
770 508 00	120	94	32	50	50	-	2,0
770 512 00	165	141	34	60	50	-	3,2
770 515 00	200	177	32	65	50	-	3,2

Chain Width 8 mm, Pitch 24 mm

Product No.	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
770 607 00	117	107	41	80	65	-	3,0
770 608 00	162	122	45	80	65	-	5,0
770 612 00	212	183	45	80	65	25	6,0
770 614 00	245	214	45	80	65	25	7,5
770 624 00	390	367	45	90	70	25	15,0

Chain Width 10 mm, Pitch 28 mm

Product No.	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
770 705 00	115	89	56	60	65	-	3,0
770 712 00	250	214	52	140	75	25	13,0

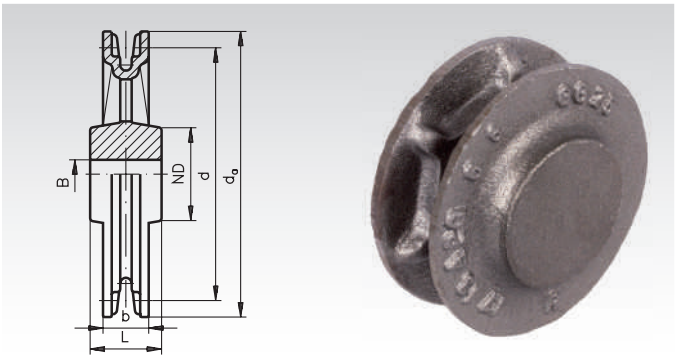


Reworking within 24h-service possible. Custom made parts on request.

Chain Wheels with Teeth (Hasp Wheels)

Matching chains in accordance with DIN 766 A.
Material: Grey cast iron GG25.
Teeth cast, hub unfinished and without bore, some with core hole.

All dimensions and weights „ca.“.



Ordering Details: e.g.: Product No. 771 104 00, Hasp Wheel, Cast, 4 teeth, 4 mm

Chain Width 4 mm, Pitch 16 mm

Product No.	Number of teeth	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
771 104 00	4	56	41	24	40	30	-	0,3
771 108 00	8	96	81	28	50	35	-	1,0
771 112 00	12	140	122	25	50	40	-	1,5
771 115 00	15	165	153	24	50	40	-	2,4
771 118 00	18	200	183	26	50	40	-	2,6

Chain Width 5 and 6 mm, Pitch 18.5 mm

Product No.	Number of teeth	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
771 206 00	6	95	71	32	50	50	-	1,2
771 207 00	7	110	82	34	60	50	-	1,9
771 208 00	8	120	94	32	50	50	-	2,0
771 210 00	10	135	118	32	60	50	-	2,4
771 212 00	12	165	141	33	60	50	-	3,2
771 214 00	14	185	165	32	65	50	-	4,3
771 215 00	15	200	177	32	65	50	-	3,2
771 216 00	16	215	188	31	65	50	-	3,8
771 218 00	18	235	212	35	60	50	-	5,0
771 220 00	20	260	236	33	60	50	-	5,0
771 224 00	24	300	283	33	60	50	-	5,5
771 226 00	26	335	306	37	70	60	-	7,5
771 230 00	30	380	353	35	70	60	-	9,0
771 236 00	36	450	424	35	90	85	25	12,0
771 240 00	40	500	470	39	100	75	-	17,0
771 250 00	50	620	589	41	100	75	25	27,0

Chain Width 8 mm, Pitch 24 mm

Product No.	Number of teeth	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
771 406 00	6	115	92	45	80	65	-	3,0
771 408 00	8	162	122	45	80	65	-	4,6
771 410 00	10	180	153	45	80	65	25	5,0
771 412 00	12	212	183	45	80	65	25	6,0
771 414 00	14	245	214	45	80	65	25	7,5
771 416 00	16	275	244	45	90	70	25	9,5
771 418 00	18	305	275	46	90	70	25	12,0
771 420 00	20	345	306	46	90	70	25	13,0
771 424 00	24	390	367	46	120	70	30	15,0
771 428 00	28	450	428	48	120	70	25	17,0

Chain Width 10 mm, Pitch 28 mm

Product No.	Number of teeth	d_a mm	d mm	b mm	ND mm	L mm	B approx. mm	Weight kg
771 605 00	5	115	89	56	60	65	-	3,0
771 608 00	8	170	140	50	80	70	25	6,5
771 612 00	12	250	214	52	140	75	25	13,0
771 624 00	24	450	428	56	100	70	30	21,0

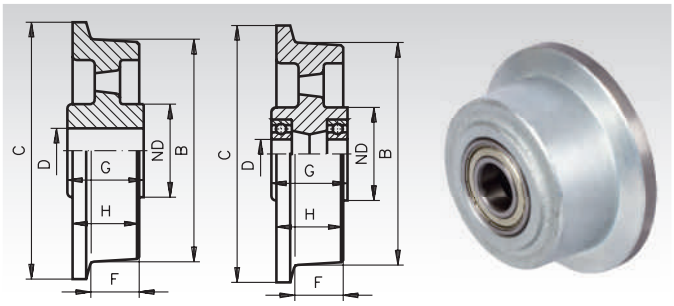
Reworking within 24h-service possible. Custom made parts on request.

Idlers 712 AV Made from Cast Iron with One-Sided Flange

Material: Grey cast iron GG20, zinc-plated.

Flange and running surface precisely turned, running surface inclined at 3° towards the axle, wheel mounting optionally with plain or roller bearing. As standard the roller bearings are sealed with Z-plates (all dimensions and weights „ca.“).

Temperature range:
with plain bearing: -30°C to +180°C.
with ball bearing: -30°C to +90°C (for short time up to +110°C).



Ordering Details: e.g.: Product No. 775 005 00, Idler 712 V as Plain Bearing, Wheel Ø 50 o.S.

Version with Plain Bearing (Dimensions in mm)

Product No.	Wheel Ø without Flange B	Wheel Ø with Flange C	Wheel Width with Flange H	Running Surface F	Hub Length symmetric G	Hub-Ø ND	Bore Ø D	Load Bearing Capacity approx. daN	Weight kg
775 005 00	50	62	32	26	-	-	$15^{+0,2}$	400	0,6
775 007 00	75	100	40	30	47	40	$20^{+0,2}$	800	1,3
775 010 00	100	125	46	36	52	45	$20^{+0,2}$	1000	2,3
775 012 00	125	145	46	36	52	45	$20^{+0,2}$	1000	2,7
775 015 00	150	175	46	36	52	62	$20^{+0,2}$	1000	3,5
775 018 00	180	210	47	36	52	65	$30^{+0,2}$	1200	4,7
775 020 00	200	230	56	38	60	90	$30^{+0,2}$	1500	7,7
775 025 00	250	300	65	50	70	90	$40^{+0,2}$	2000	13,5

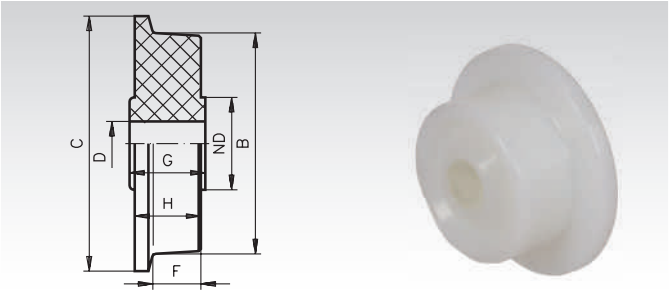
Version with Ball Bearing (Dimensions in mm)

Product No.	Wheel Ø without Flange B	Wheel Ø with Flange C	Wheel Width with Flange H	Running Surface F	Hub Length symmetric G	Hub-Ø ND	Bore Ø D	Load Bearing Capacity approx. daN	Weight kg
775 207 00	75	100	40	30	47	54	20	800	1,3
775 210 00	100	125	46	36	52	62	20	1000	2,4
775 212 00	125	145	46	36	52	62	20	1000	2,8
775 215 00	150	175	46	36	52	62	20	1000	3,5
775 218 00	180	210	47	36	52	65	20	1200	4,7
775 220 00	200	230	56	38	60	90	25	1500	7,7
775 225 00	250	300	65	50	70	90	30	2000	12,8

Idlers Made from Polyamide with One-Sided Flange

This Polyamide grade has a high abrasion resistance with low friction coefficient, is self lubricating and can thus, at low speeds, easily be used as plain bearing.

Temperature range: -40°C to +80°C.
Above +35°C, the load has to be reduced. At the max. temperature, the max. load capacity is only 40 to 50% of the load shown in the table.



Ordering Details: e.g.: Product No. 775 405 00, Idler Polyamide, Wheel Ø 50

Runner Wheels Made from Polyamide (dimensions in mm)

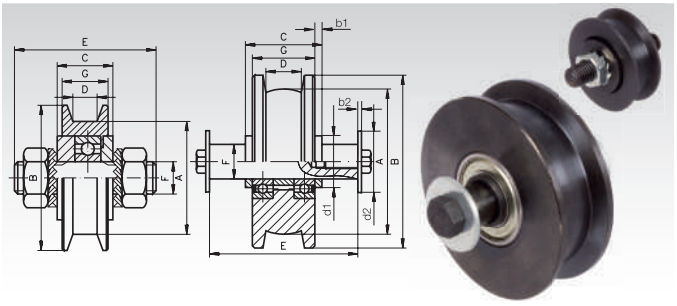
Product No.	Wheel Ø without Flange B	Wheel Ø with Flange C	Wheel Width with Flange H	Running Surface F	Hub Length symmetric G	Hub-Ø ND	Bore Ø D	Load Bearing Capacity approx. daN	Weight kg
775 405 00	50	70	30	20	30	-	16	100	0,065
775 406 00	62	80	26	18	30	35	16	100	0,090
775 409 00	87	108	32	25	32	-	16	200	0,220
775 410 00	100	120	45	32	40	50	20	280	0,360
775 411 00	107	138	34	26	35	41	18	300	0,255
775 412 00	120	150	42	30	45	80	38	380	0,585

Note Regarding Polyamide Wheels

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Idlers Made from Steel (C45) with Flange on Both Sides

Especially suited for heavy-duty applications, e.g. electrically controlled gates.
Precisely turned from solid material; with fully sealed precision bearings.
Product No. 776 004 00 and 776 005 00 with square running surface and single bearing, wheel body burnished.
Product No. 776 006 00 to 776 016 00 with convex running surface and double bearing.
Delivery includes all mounting material needed; axle bolt at running surface Ø 35 and 45 mm with external thread, serrated washer and hexagon nuts, other sizes with internal thread, 6 hexagon screws and washers DIN ISO 7093-1.



Ordering Details: e.g.: Product No. 776 004 00, Idler, St. A 35

Product No.	A mm	B mm	G mm	C mm	D mm	E mm	F mm	Wheel Load* max. kg	Weight kg	Recommended Rail**
776 004 00	35	45	17	20	10,3	50	10	160	0,18	□ 40 x 10
776 005 00	45	55	19	24	12,3	65	12	250	0,32	□ 50 x 12
776 006 00	63	75	27	33	15,3	68	15	480	0,75	□ 60 x 15
776 008 00	84	100	34	40	20,3	80	20	840	1,5	□ 60 x 20
776 010 00	100	125	40	46	25,0	96	25	960	3,35	Narrow- S 7
776 013 00	130	160	52	58	32	120	30	1360	4,6	Gauge Rail S 10
776 016 00	164	200	64	70	38	140	35	1800	8,8	DIN 5901 S 14

* The wheel loads stated are derived from the dimensions and temperatures listed in the roller bearing catalogues. For product No. 776 004 00 and 776 005 00 these values are valid at a maximum operating temperature of 90°C; for higher continuous temperatures, please inquire first.
** Not part of our stock. Please inquire at your steel supplier.

Wheel Sizes and Mounting Elements

Product No. Idler	d_1 mm	b_1 mm	d_2 mm	b_2 mm	Mounting Elements
776 004 00	-	-	-	-	Flat Nut M10 with Lock Washer
776 005 00	-	-	-	-	Flat Nut M12 with Lock Washer
776 006 00	20	3	30	2.5	Hexagon Screw M10 x 16 mm
776 008 00	26	3	37	3.0	Hexagon Screw M12 x 16 mm
776 010 00	32	3	37	3.0	Hexagon Screw M12 x 16 mm
776 013 00	38	3	50	3.0	Hexagon Screw M16 x 20 mm
776 016 00	45	3	60	4.0	Hexagon Screw M20 x 25 mm

Reworking within 24h-service possible. Custom made parts on request.

Travel-Wheel Systems RB/I

Material: Housing made from spheroidal graphite cast iron, painted gray. Travel wheel made from GG 70, with high-quality roller bearing.

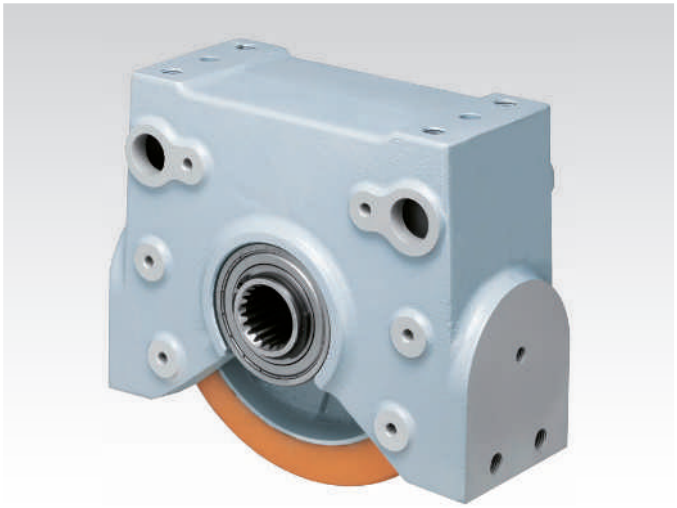
Version G: With cast iron travel wheel with two flanges, with high load capacity, to be used on rails.

Version K: With cast iron travel wheel with PUR-bandage (Polyurethane-Elastomer), for higher traction at low operating noise.

A very robust, universal, maintenance-free travel wheel system available in two sizes. It is designed for various travel applications with wheel loads up to 3.5 t and travel speeds up to 240 m/min (depending on version and load). The five connection surfaces are machined and provide for a multitude of connection variants.
4 screws for inverted mounting are supplied. The housing is painted gray (RAL 7001) and can be repainted.

The travel-wheel systems can be combined with the geared motors RBM/I to form a compact drive unit.

Temperature range: -20°C to +60°C.

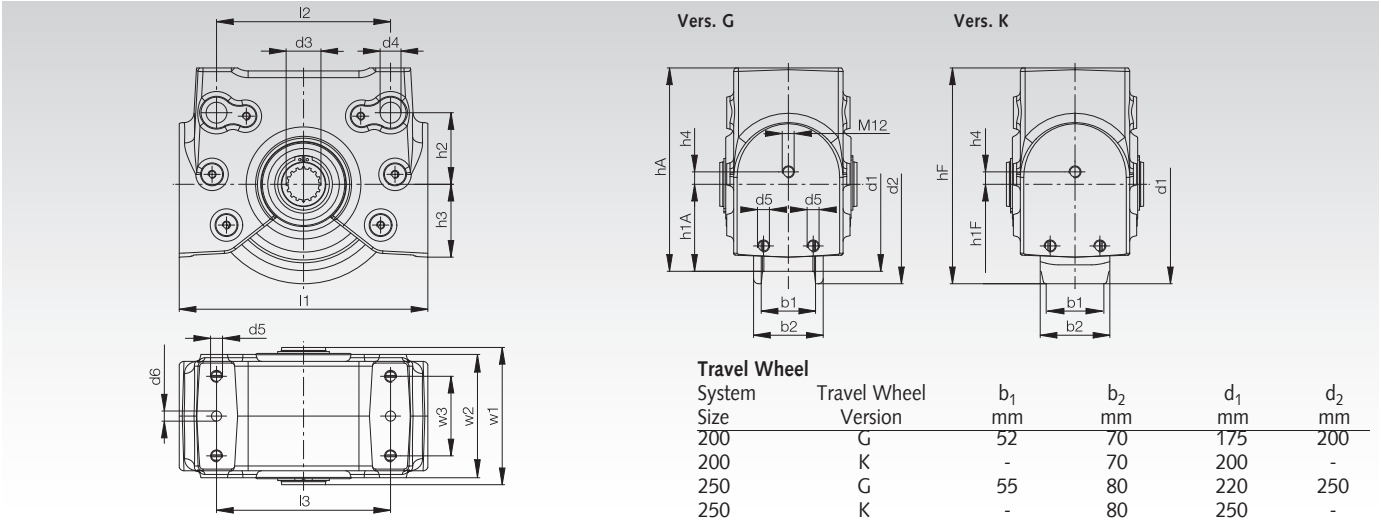


Ordering Details: e.g.: Product No., Type, Size, Version

Product No.	Size	Version	Load Bearing Capacity up to 100 m/min kg	R* at Speed 240 m/min kg	Weight kg	Matching Accessories Product No. Buffer Set	Product No. Pin Connection	Product No. Roller Guide
480 201 84	200	**G** (cast iron, flanged)	2500	1900	15,3	**480 710 84**	**480 221 84**	**480 210 44**
480 200 84	200	**K** (with bandage)	1200	700	15,1	**480 710 84**	**480 221 84**	**480 210 84**
480 301 84	250	**G** (cast iron, flanged)	3500	2500	27,6	**480 710 84**	**480 321 84**	**480 510 44**
480 300 84	250	**K** (with bandage)	1700	900	26,7	**480 710 84**	**480 321 84**	**480 310 84**

* With Hydropur tyres and stand-still times of more than two hours under load, the load bearing capacity only comes to 50% of the maximum value.

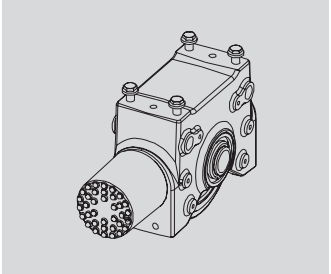
Dimensions Table Travel-Wheel Systems RB/I



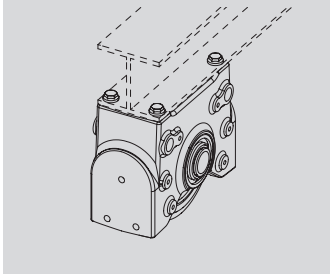
Travel Wheel

System Size	Travel Wheel Version	b_1 mm	b_2 mm	d_1 mm	d_2 mm
200	G	52	70	175	200
200	K	-	70	200	-
250	G	55	80	220	250
250	K	-	80	250	-

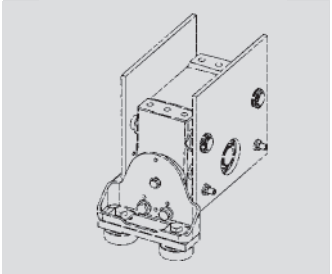
System Size	$d_3^{g6/H7}$ mm	d_4^{F8} mm	d_5 mm	d_6^{H13} mm	h_A mm	h_F mm	$h_{1\ Vers.\ G}$ mm	$h_{1\ Vers.\ K}$ mm	h_2 mm	h_3 mm	h_4 mm	l_1 mm	l_2/l_3 mm	w_1 mm	w_2 mm	w_3 mm
200	N35x2x16	21	M12	10,2	204,5	217	87,5	100	72	77	12,5	250	175	138	126	80
250	N45x2x21	30	M16	14	255	270	110	125	90	97	-10	306	220	156	138	85



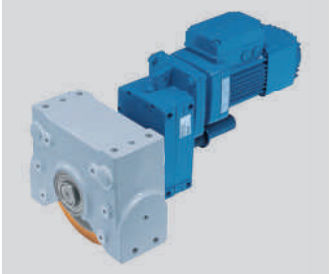
Travel wheel system with buffer set.



Travel wheel system, Inverted Mounting (screws supplied).



Mounting with bolt set, for horizontal guide-roller arrangement.



Powered travel wheel block with geared motor RBM/I.

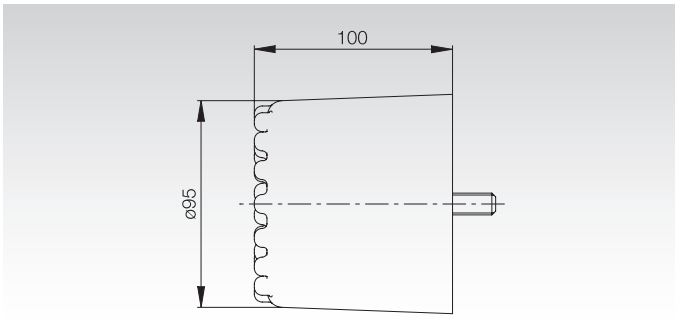
Buffer Set

Material: Polyurethane cellular foam, spacers made from plastic, black.

Consisting of: one buffer, threaded pin M12 x 55 mm, two spacers 12.5 mm (for mounting without guide roller) and one spacer 25 mm (for mounting with guide roller, using the supplied nuts M12).

The required thread has already been machined on both face ends of the travel-wheel system. The screw-on buffer fits both travel-wheel-system sizes 200 and 250.

Temperature range: -20°C to +60°C.
Weight: 0.8 kg



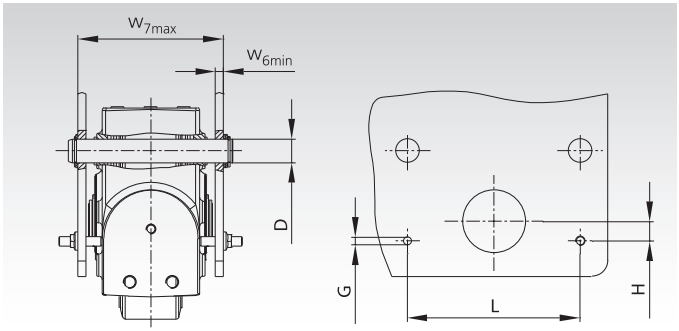
Product No. 480 710 84, Buffer Set, Matching Travel-Wheel System Size 200 and 250

Pin Connection Sets

Material: Steel

Consisting of: two pins, washers and retaining rings, threaded adjusting pins and nuts for lateral alignment and fixation.

Two sizes for **travel-wheel system size** 200 or 250. The pin connection set is used to mount the **travel-wheel system** into an existing hollow section when mounted from the side. One set required for each **travel-wheel system**.

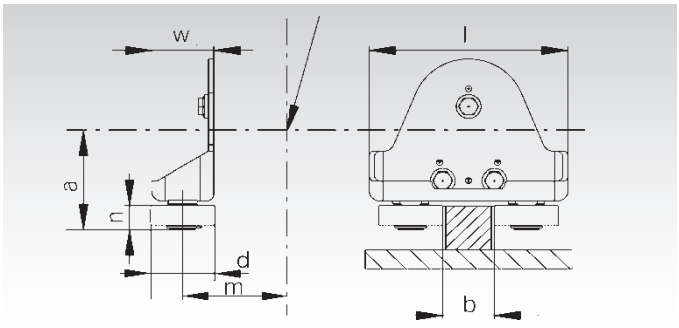


Ordering Details:e.g.: Product No., Type, Size

Product No. Pin Set	System Size	W_{6min} mm	W_{7max} mm	$D^{h8/D9}$ mm	G mm	L mm	H mm	Weight kg
480 221 84	200	8	158	21	M10	175	20	1,1
480 321 84	250	10	185	30	M12	220	25	2,6

Horizontal Guide-Roller Arrangements

Material: Base: steel plate, zinc plated.
Damping elements: Polyamide (damping elements only for **travel-wheel system** with Hydropur-tyre travel wheel)
Version G: for **travel-wheel system** with cast wheel. Without damping element.
Version K: for **travel-wheel system** with Hydropur tyre. With damping element.
Consisting of: roller bracket, bearing, damping element and mounting bolts (damping element only for version K).
Two sizes for **travel-wheel system size** 200 or 250. The horizontal guide-roller arrangement is used for low-friction guidance and to precisely achieve individual track gauge dimensions. The guide roller is e.g. recommended for flanged wheels (version G) running on narrow tracks . The guide rollers are only used on one of the rails.



Product No. Guide Roller	Travel-Wheel System Size	Version	d mm	l mm	m mm	a mm	w mm	n mm	b mm	Weight kg
480 210 44	200	G	62	192	155	110	60	25	30-70	2,3
480 210 84	200	K	52	192	155	124	60	25	62-82	2,4
480 510 44	250	G	72	230	189	137	72	29	30-80	3,6
480 310 84	250	K	72	230	189	154	72	29	64-84	3,7

Geared Motors RBM/I for travel wheel systems

Material: Housing: Aluminium, painted blue (RAL 5009).
Gears: bevel-gear system, case hardened, fatigue endurable.
Lubrication: Mineral oil.
Motor: Three-phase AC

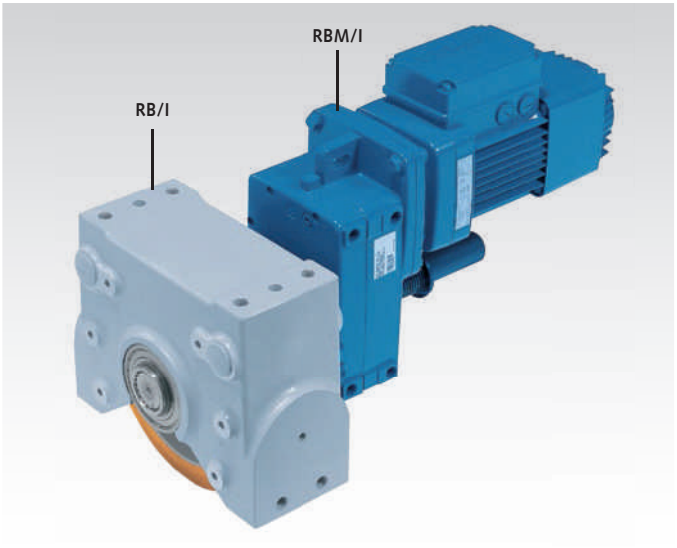
400V 50 Hz, dual speed, with brake.

Other motor and gear box versions (e.g. with frequency inverter or angular gear) on request.

Ready-to-mount dual-speed geared motors incl. adaptor flange (as torque support) to be combined with travel-wheel sets RB/I.
The mounting position can be modified in steps of 15°.

Single Wheel Drive: one geared motor RBM/I is flange-mounted onto one travel-wheel system RB/I. In carriages two opposing travel-wheel sets have to be powered.
Central Drive Set: the geared motor is flange-mounted onto the travel-wheel system. The connection with the opposing travel-wheel system is done with a central drive set (this set has to be ordered separately). The connecting shaft (output shaft) is already mounted on the geared motors (covered with protection sleeve and protection cap).

Ordering Details:e.g.: Product No., Type, Size



Travel-Wheel System RB/I has to ordered separately.

Geared Motors RBM/I for Travel-Wheel System Size 200

Product No.	Motor-Type	P* kW	Transm. i	Current* A	Weight kg	Dimensions Table
482 211 46	63A8/2	0,25	123 :1	0,95	23	1
482 212 46	71A8/2	0,34	126 :1	1,0	29	3
482 213 46	80A8/2	0,50	39,9 :1	1,4	34	2
482 214 46	90B8/2	0,80	39,4 :1	2,3	46	4
482 215 46	100A8/2	1,20	19,9 :1	3,2	54	4
482 221 46	63A8/2	0,25	135 :1	0,95	27	3
482 222 46	71A8/2	0,34	44,1 :1	1,0	25	1
482 223 46	90B8/2	0,50	45,5 :1	1,4	46	4
482 224 46	90B8/2	0,80	23 :1	2,3	46	4
482 255 46	100A8/2	1,20	23 :1	3,2	54	4

Geared Motors RBM/I for Travel-Wheel System Size 250

Product No.	Motor-Type	P* kW	Transm. i	Current* A	Weight kg	Dimensions Table
483 231 46	63A8/2	0,25	156 :1	0,95	29	5
483 232 46	71A8/2	0,34	166 :1	1,0	34	8
483 233 46	90B8/2	0,80	48,3 :1	2,3	47	7
483 234 46	100A8/2	1,20	49 :1	3,2	66	9
483 235 46	100A8/2	1,20	25,3 :1	3,2	55	7
483 241 46	63A8/2	0,25	156 :1	0,95	29	5
483 242 46	71A8/2	0,34	166 :1	1,0	34	8
483 243 46	80A8/2	0,50	55,7 :1	1,4	39	6
483 244 46	90B8/2	0,80	55,7 :1	2,3	58	9
483 245 46	100A8/2	1,20	29,2 :1	3,2	55	7

* Values at double-pole operation (high speeds).

Selection Tales for Travel-Wheel Systems

First the Travel-Wheel-System Size (200 or 250 depending on the ultimate load) and Type of Travel Wheel (cast iron flanged wheel or Hydropur-tyre wheel, depending on the operating conditions) has to be selected. The further selection is done according to the load to be moved per driving motor and according to the driving speed. the table value intersection point states the Product No. of the geared motor to be used.

Travel-Wheel System Size 200 with Cast Wheel, $R_{max.}$ = 2500 kg

Product No. matching geared motor RBM/I at speed in m/min*

Weight	12.5 (3.1)	40 (10)	80 (20)
to 5000 kg	**482 211 46****	**482 213 46****	**482 215 46**
to 6000 kg	**482 211 46****	**482 213 46****	-
to 10000 kg	**482 212 46**	**482 214 46**	-
to 11000 kg	**482 212 46**	-	-

Travel-Wheel System Size 200 with Hydropur Tyre $R_{max.}$ = 1200 kg

Product No. matching geared motor RBM/I at speed in m/min*

Weight	12.5 (3.1)	40 (10)	80 (20)
to 2000 kg	**482 221 46**	**482 222 46****	**482 224 46**
to 4000 kg	**482 221 46**	**482 223 46**	**482 225 46**
to 5000 kg	**482 221 46**	**482 223 46**	-

* Values in brackets apply to lower speeds (the motors are dual-speed).
** Central drive not possible (due to stepped shaft or dimensions of motor casing).

Travel-Wheel System Size 250 with Cast Wheel, $R_{max.}$ = 3500 kg

Product No. matching geared motor RBM/I at speed in m/min*

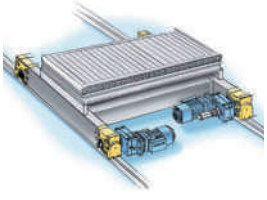
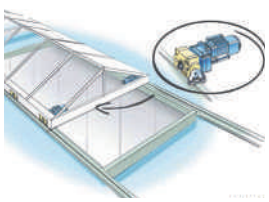
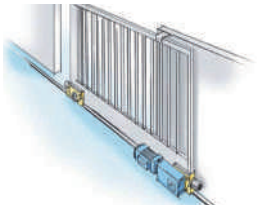
Weight	12.5 (3.1)	40 (10)	80 (20)
to 5000 kg	**483 231 46****	**483 233 46****	**483 235 46****
to 8000 kg	**483 231 46****	**483 233 46****	-
to 16000 kg	**483 232 46**	**483 234 46**	-

Travel-Wheel System Size 250 with Hydropur Tyre, $R_{max.}$ = 1700 kg

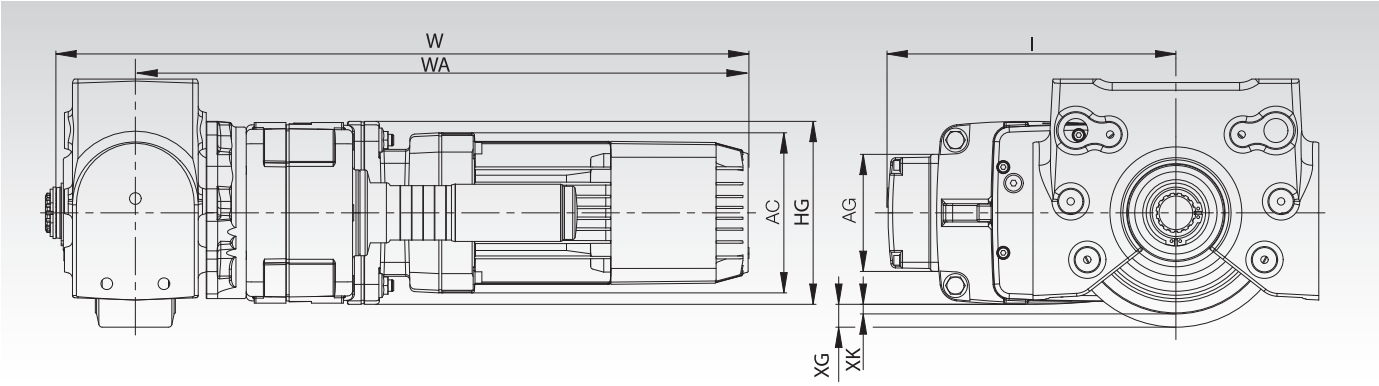
Product No. matching geared motor RBM/I at speed in m/min*

Weight	12.5 (3.1)	40 (10)	80 (20)
to 2000 kg	**483 241 46****	**483 243 46****	**483 245 46****
to 4000 kg	**483 242 46**	**483 244 46**	-

* Values in brackets apply to lower speeds (the motors are dual-speed). ** Central drive not possible.


Dimensions Table for Travel-Wheel System Drive RBM/I



Dimensions Table	Size of Travel-Wheel System	L mm	HG mm	W mm	WA mm	AC mm	AG mm	XG (Vers.G) mm	XK (Vers.K) mm
1	200	228	131	608	539	140	103	17,5	30
2	200	238	131	664	595	157	103	9	21,5
3	200	253	160	615	546	140	103	7,5	20
4	200	281	160	715	646	196	133	-10,5	2
5	250	253	160	641	563	140	103	30	45
6	250	263	160	697	619	157	103	30	45
7	250	281	160	741	663	196	133	12	27
8	250	272	190	650	572	140	103	15	30
9	250	300	190	750	672	196	133	12	27

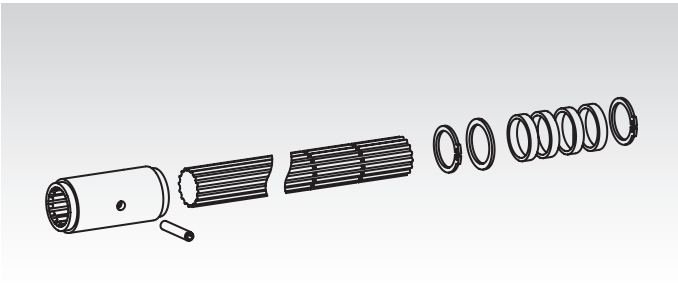
Central Drive Set

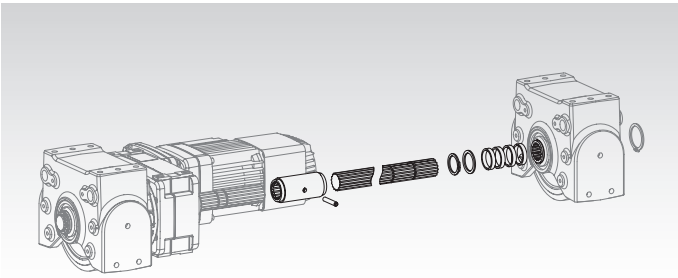
Material: Splined shaft, coupling, washers and rings made from steel, shaft protection made from plastic.

Two sizes available suiting travel-wheel system 200 and 250. Two length for gauges up to 1500 mm or up to 2900 mm.

Consisting of: Splined shaft, coupling with pin, shaft protection, washers and retaining rings.

The central-drive set serves to combine two travel-wheel sets RB/I with a geared motor RBM/I to make up a central drive. To achieve this, the shaft is shortened to the required length on the coupling side, then the shaft protection cap is taken off the geared motor and the shafts are connected using the rigid coupling. The pin serves as stop inside the coupling. The shaft is fixed in the travel-wheel system with the retaining rings.





Ordering Details: e.g.: Product No, Type, Travel-Wheel System-Size, up to distance

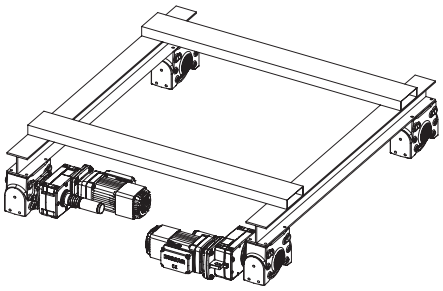
Product No.	Travel-Wheel Syst. Size	for Distance* up to mm	Shaft Ø mm	Shaft Length approx. mm	Weight kg
480 256 84	200	1500	35	1115	9
480 257 84	200	2900	35	2515	18,5
480 356 84	250	1500	45	1070	13,5
480 357 84	250	2900	45	2470	29

* The shafts are to be shortened by the customer on assembly.

Application examples for Travel-Wheel System Drives

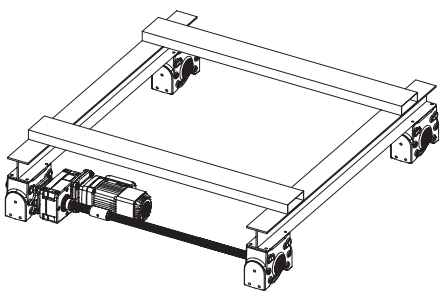
Two Single Drives:
4 x Travel-Wheel System RB/I
2 x Geared Motor RBM/I

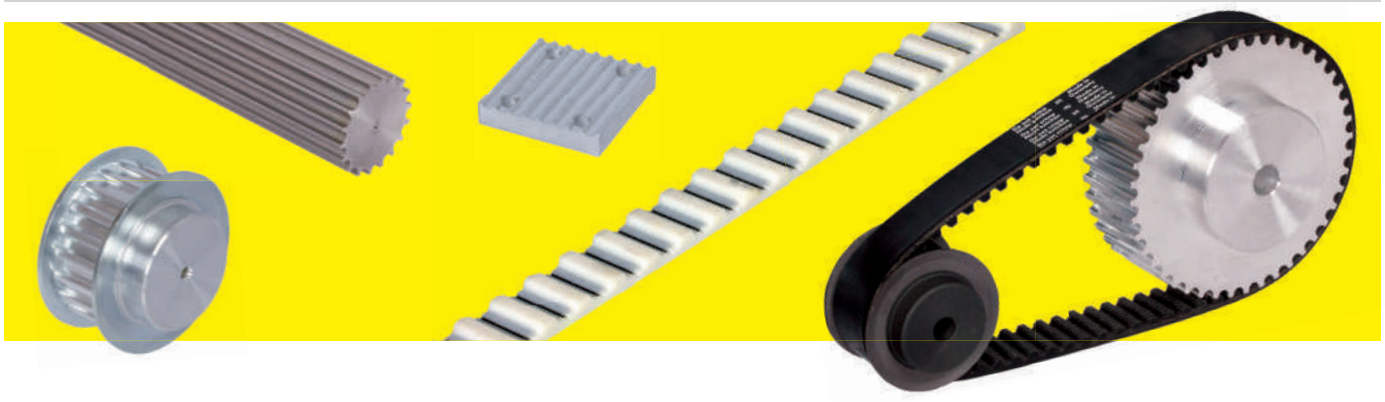
Optional accessories:
4 x Buffer Set
4 x Pin Connection Set
2 x Horizontal Guide Roller Arrangement



Central Drive Set:
4 x Travel-Wheel System RB/I
1 x Geared Motor RBM/I
1 x Central Drive Set

Optional accessories:
4 x Buffer Set
4 x Pin Connection Set
2 x Horizontal Guide Roller Arrangement





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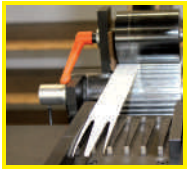


Timing Belt Welding within 24h-Service

Timing-Belt Drives - Description

General Description
Timing-belt drives enable a quiet operation and synchronous transmission of power. As they are maintenance free, these drives are very cost efficient. Due to varying requirements and consideration of the latest developments, there are a large number of different profiles, belt types and pulleys on the market. When non-positive drives (e.g. v-belt systems) are replaced, it is worth considering whether a conversion to a positive power transmission could be allowed from a safety point of view (some drives require slip at overload).

Selection and Dimensioning
The belt material and type of timing belt must be selected considering the specific situation (e.g. required features regarding machine or surroundings). There are performance tables and a user-friendly calculation programme on the internet to help you select the correct size. Small pulley diameters reduce the service life. And at least 6 teeth should be engaged at any time.
When consulting the performance tables, several application-specific operating factors must be considered.

Mounting and Maintenance
At least one pulley must be equipped with flanges. The axes must be parallel (deviation no more than +0.5°). The belt must not be overstretched during mounting. For mounting and adjustment of the ideal belt there have to be sufficient possibilities for adjustment incorporated into the system.

Belt Tension
Each belt needs a certain pre-tension, depending on the type of belt, pulley diameter, center distance and the tangential force to be transmitted. The overall sum of tensioning and peripheral force must not exceed the permitted tensile force of the belt. The belt tension is best adjusted by altering the center distance. Otherwise a smooth tensioning pulley mounted on the outside or a toothed one on the inside of the belt may be used for adjustment.

Degree of degree of efficiency de
Depending on the type of belt (flexibility) and the number of teeth on the pulley (bending) the degree of efficiency can reach 98 %. Belts with tensile members of glass fibre cords (HTD and Inch) are particularly flexible.

Timing Belt Profiles

Type	Profile	Pitch mm	Overall Height** mm	Tooth Height mm	Tensile Force N*
Metric	**T2.5**	2.5	1.30	0.70	120
	T5	5.0	2.20	1.20	330
	T10	10.0	4.50	2.50	780
Metric	**AT5**	5	2.70	1.20	700
	AT10	10	5.00	2.50	1300

Type	Profile	Pitch mm	Overall Height mm	Tooth Height mm	Tensile Force N*
HTD	**3M**	3	2.40	1.20	100
	5M	5	3.60	2.10	208
	8M	8	5.60	3.40	375
	14M	14	10.00	6.10	425
Inch	**MXL**	2.032	1.10	0.51	39
	XL	5.080	2.20	1.27	56
	L	9.525	3.60	1.91	98
	H	12.700	4.30	2.29	235

* Permissible tensile force at 10mm belt width.

** Hight may vary at open-length types.

T Timing Belt Drives

- Classical, trapezoid profile in accordance with DIN 7721 with metric dimensions, pitch 2.5 mm, 5 mm and 10 mm in several widths. Pitch 20 mm and other widths available on request.
- Often used, cost-efficient, clean standard belt drive in many areas of machine building, e.g. also in the food industry. Polyurethane (PU) timing belts with tensile members of steel, little lengthening
- Little and light-coloured abrasion, good resistance against oil, fats and many chemicals. Temperature range -30° to +80°C. Good flexibility.
- Open length belts from thermoplastic polyurethane TPU can get welded to endless belts in special lengths.
- cost-efficient pulleys made from aluminium (some also made from plastic) pre-bored (custom bore etc. at extra charge).
- T timing belt drives do **not** feature little backlash (low backlash or zero backlash pulleys can be especially manufactured on request).

AT Timing Belt Drives

- Trapezoid profile especially designed to transmit high power, with metric dimensions, pitch 5 mm and 10 mm, in stock in several widths. Pitch 20 mm and other widths available on request.
- Clean belt drive used in many areas of machine building, e.g. also in the food industry.
- Polyurethane (PU) timing belts with tensile members of steel, little lengthening
- Little and light-coloured abrasion, good resistance against oil, fats and many chemicals. Temperature range -30° to +80°C. Good flexibility.
- Open length belts from thermoplastic polyurethane TPU can get welded to endless belts in special lengths.
- Cheap pulleys made from aluminium (some also made from plastic) pre-bored (custom bore etc. at extra charge).
- AT timing belt drives do **not** feature little backlash (low backlash or zero backlash pulleys can be especially manufactured on request).

HTD Timing Belt Drives

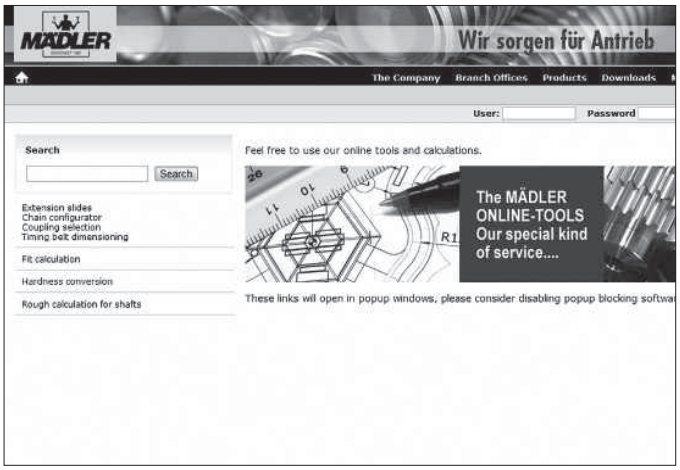
- Heavy-duty timing belt with half-round teeth profile, with metric dimensions, pitch 3 mm, 5 mm, 8 mm and 14 mm.
- Low-backlash belt drive with high efficiency used in many areas of machine building.
- Neoprene timing belts with tensile member of glass-fibre. Little, but dark abrasion. Temperature range -20° to +100°C.
- Up to medium speed quiet. At higher speed some noise due to the fast movement of air out of the tooth gaps.
- Pitch-true, more expensive pulleys made from steel (pitch 3M made from aluminium, pitch 5M from 44 teeth made from aluminium).
- Pulleys pre-bored (custom bore etc. at extra charge), pitch 8M and 14M also prepared for Taper clamping bush.

Inch Timing Belt Drives

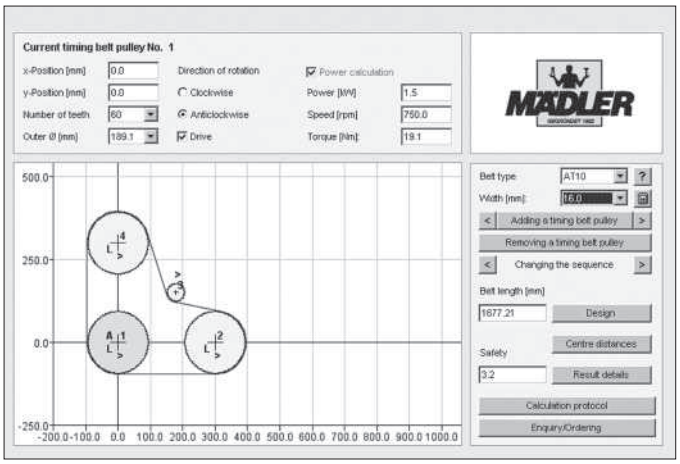
- Classical trapezoid profile in accordance with DIN 5296 with inch dimensions, profile MXL, XL, L and H (pitch 0.08“ = 2.032 mm to 1/2“ = 12.7 mm), in several widths. Other sizes on request.
- Classical timing-belt drive which is, apart from the favoured MXL-profile, usually not used in newly designed systems anymore.
- Neoprene timing belts with tensile member of glass-fibre. Low noise, little, but dark abrasion. Temperature range -20° to +100°C.
- Pulleys made from steel or cast iron (pitch MXL and XL made from aluminium), pre-bored (custom bore, etc. at extra charge).
- Inch timing belt drives do **not** feature little backlash.

Timing Belts: Online – Calculation Program on the Internet

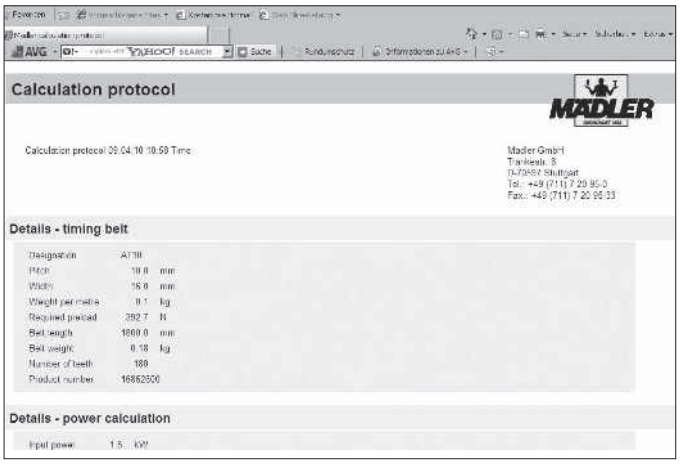
At **www.maedler.de** in the internet you click at the button ***MÄDLER®*-Tools** and you get to a comfortable online calculation programme. This programme contains all common sizes and ensures a fast and safe set up of timing belt drives.



The number and location of the pulleys can be altered. Select the profile and the number of teeth. Enter your performance data and let the system work out the required belt width. ATTENTION: The performance data either has to be entered for every single pulley or the performance calculation has to be turned of for the output pulleys. The determination of the belt length is simplified through the use of a scroll-window listing the standard belt lengths. In a next step lease check whether the stated safety factor is sufficient. If the system is over or under dimensioned, choose larger or smaller timing belt profile respectively.



For your own documentation you can print out a calculation report with all parametres and results of your drive set up. If a pop-up blocker is activated in your Internet Explorer, it has to be turned off first.



The parts list contains all selected products and simplifies the ordering process. You can print, export or save the parts list. By clicking on the Product No. you get to the internet page of the respective product group.
On theses pages you can get collect information, even look at 2D and 3D CAD drawings.

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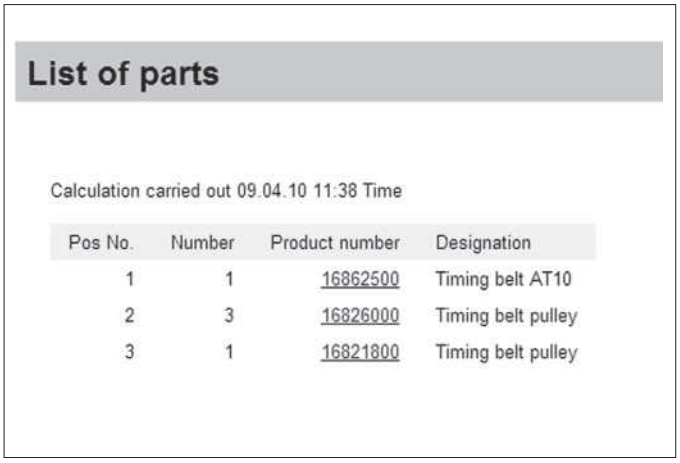


Calculation of the Power P_B

$$P_B = P_N \times (K_1 + K_2 + K_3 + C_1)$$

P_B: Selection Power [kW]
P_N: Nominal Power Driving Motor
K_1: Load Factor (Table 1)
K_2: Tensioning Pulley Factor (Table 2)
K_3: Transmission Ratio Allowance (Table 3)
C_1: Teeth Meshing Factor (Table 4)

Notes Regarding the Calculation

The corrective factors below are in particular fitting for T and AT timing belt drives. This means that the calculations below only render exact results for these belt types. The formulas are however generally valid, which means the results are roughly correct for HTD and Inch belt types. For an exact and comfortable calculation please use our online calculation programme at www.maedler.de, see page 130.

Table 1: Corrective Factor for Load K_1

Examples for machines used: Machines that are not mentioned below have to be matched to a group with similar load.	Example for Driving Units					
	Starting Torque up to 3 times Nominal Torque			Starting Torque over 3 times Nominal Torque		
	AC Motors (standard and synchronous motors) DC Shunt-Wound Motor Combustion engines with two or more cylinder			Electric motors (with high starting and breaking torque) DC Compound Motors Combustion engines with one cylinder		
	Daily Operating Time (hours)					
	up to 5	up to 12	up to 24	up to 5	up to 12	up to 24
Office Machines, Household Machines Counting Machines	1.0	1.2	1.4	1.2	1.4	1.6
Wood-working Machines, Printing Machines Fans and Blowers	1.2	1.4	1.6	1.4	1.6	1.8
Machine Tools, Textile Machines Laundry Machines	1.3	1.5	1.7	1.5	1.7	1.9
Paper Machines, Reciprocating Engines Hoisting Devices	1.4	1.6	1.8	1.6	1.8	2.0

Table 2: Corrective Factor for Tens. Pulley K_2

Mounting Position of Tensioning Pulley K_2	
Inner Side Slack Length	0.0
Outer Side Slack Length	0.1
Inner Side Tight Length	0.1
Outer Side Tight Length	0.2

Table 3: Corrective Factor for Ratio K_3

Transmission Ratio	K_3
1.00 - 1.24	0.4
1.25 - 1.74	0.3
1.75 - 2.49	0.2
2.50 - 3.49	0.1
over 3.50	0.0

Table 4: Teeth-in-Mesh Factor C_1

Teeth in mesh					
No. of Teeth in Mesh:	≥ 6	5	4	3	2
Teeth-in-Mesh Factor C_1:	0	0.25	0.7	1.5	4

Selection of Belt Type

For the calculation of P_B select belt type, pitch, width and pulley diameter by looking at the Performance Table page 132.
Please consider the width factors mentioned in the table.

Selection of Pulley

Use the largest pulley diameter possible. A larger diameter leads to a reduction of the the bending load and of the required belt width. We recommend the standard pulleys listed in the catalogue. The respective permissible torques can be found in the Performance Tables page 132.

Checking the Belt Speed

Belt speeds above 30 m/s require an exact balancing of the pulleys. The belt speed is calculated with the formula below:

$$v = (d_w \times n) / 19100$$

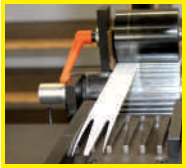
v: belt speed (m/s)
d_w: effective diameter of the pulley (mm)
n: torque of the pulley (min^{-1})

Selecting the Belt Length

When selecting the belt length, always consider the lengths listed in the catalogue. The belt length for a simple drive with two toothed pulleys and a transmission ratio of 1:1 can be easily calculated from the effective diameter of the toothed pulley and the centre distance:

Effective length of the belt = effective circumference of the toothd pulley plus twice the centre distance

The effective length of a belt and the centre distance for drives with a ratio other than 1:1 or with more than two toothed pulleys can be detremined from a drawing or, even simpler, by using the online tool at **www.maedler.de, MÄDLER®-Tools** (see page 130).



Timing Belt Welding within 24h-Service

Profile T 2.5 Performance Figures in W/10 mm Timing Belt Width

Speed of small pulley min^{-1}	Teeth No. of Small Pulley 12	14	16	18	20	24	28	30	36	40	48	60
	Effective Diameter (mm) 9.56	11.14	12.73	14.32	15.92	19.15	22.35	23.95	28.75	31.90	38.30	47.85
100	2,3	2,5	3,0	3,3	3,8	4,5	5,0	5,5	6,5	7,3	8,8	11,0
200	4,5	5,0	5,8	6,5	7,3	8,8	10,3	11,0	13,3	14,5	17,5	22,0
400	8,8	10,3	11,8	13,3	14,5	17,5	20,5	22,0	26,3	29,3	35,0	43,8
500	11,0	12,8	14,5	16,5	18,3	22,0	25,5	27,5	32,8	36,5	43,8	54,8
600	13,3	15,3	17,5	19,8	22,0	26,3	30,8	32,8	39,5	43,8	52,5	65,8
800	17,5	20,5	23,5	26,3	29,3	35,0	41,0	43,8	52,5	58,5	70,0	87,5
1000	22,0	25,5	29,3	32,8	36,5	43,8	51,0	54,8	65,8	73,0	87,5	109,3
1400	-	35,8	41,0	46,0	51,0	61,3	71,5	76,8	92,0	102,0	122,5	152,8
1800	-	46,0	52,5	59,3	65,8	78,8	92,0	98,5	118,0	131,0	157,0	195,8
2400	-	-	70,0	78,8	87,5	105,0	122,5	131,0	157,0	174,3	208,8	259,5
2800	-	-	81,8	92,0	102,0	122,5	142,5	152,8	183,0	203,0	242,8	301,3
3000	-	-	87,5	98,5	109,3	131,0	152,8	163,5	195,8	217,3	259,5	322,0
3600	-	-	105,0	118,0	131,0	157,0	183,0	195,8	234,3	259,5	309,8	382,8
4000	-	-	116,5	131,0	145,5	174,3	203,0	217,3	259,5	287,5	342,5	422,3
4800	-	-	139,8	157,0	174,3	208,8	242,8	259,5	309,8	342,5	406,5	498,3

Profile T 5 Performance Figures in kW/10 mm Timing Belt Width

Speed of small pulley min^{-1}	Teeth No. of Small Pulley 12	14	16	18	20	24	28	30	36	40	48	60
	Effective Diameter (mm) 19.10	22.28	25.46	28.65	31.83	38.20	44.56	47.75	57.30	63.66	76.39	95.49
100	0,01	0,02	0,02	0,02	0,02	0,03	0,03	0,04	0,04	0,05	0,06	0,07
200	0,02	0,02	0,03	0,03	0,04	0,04	0,05	0,05	0,06	0,07	0,09	0,11
400	0,04	0,05	0,05	0,06	0,06	0,08	0,09	0,10	0,12	0,13	0,16	0,19
500	0,05	0,06	0,06	0,07	0,08	0,10	0,11	0,12	0,14	0,16	0,19	0,24
600	0,06	0,07	0,08	0,08	0,09	0,11	0,13	0,14	0,17	0,19	0,23	0,28
800	0,07	0,09	0,10	0,11	0,12	0,15	0,17	0,18	0,22	0,24	0,29	0,36
1000	0,09	0,10	0,12	0,13	0,15	0,18	0,20	0,22	0,26	0,29	0,35	0,44
1400	0,12	0,13	0,15	0,17	0,19	0,23	0,27	0,29	0,35	0,38	0,46	0,58
1800	0,14	0,16	0,19	0,21	0,23	0,28	0,33	0,35	0,42	0,47	0,56	0,70
2400	0,17	0,20	0,23	0,26	0,29	0,35	0,40	0,43	0,52	0,58	0,69	0,86
3000	0,20	0,23	0,27	0,30	0,34	0,40	0,47	0,50	0,60	0,67	0,81	1,01
4000	0,24	0,28	0,32	0,37	0,41	0,49	0,57	0,61	0,73	0,81	0,97	1,22
5000	0,28	0,33	0,37	0,42	0,47	0,56	0,65	0,70	0,84	0,93	1,12	1,40
6000	-	-	0,42	0,47	0,52	0,63	0,78	0,78	0,94	1,04	1,25	1,56
7000	-	-	0,46	0,51	0,57	0,69	0,80	0,86	1,03	1,14	1,37	-

Profile T 10 Performance Figures in kW/10 mm Timing Belt Width

Speed of small pulley min^{-1}	Teeth No. of Small Pulley 12	14	16	18	20	24	28	30	36	40	48	60
	Effective Diameter (mm) 38.20	44.56	50.93	57.30	63.66	76.39	89.13	95.49	114.59	127.32	152.79	190.99
100	0,04	0,05	0,06	0,06	0,07	0,08	0,10	0,10	0,12	0,14	0,17	0,21
200	0,07	0,08	0,10	0,11	0,12	0,15	0,17	0,18	0,22	0,24	0,29	0,36
400	0,13	0,15	0,17	0,20	0,22	0,26	0,31	0,33	0,39	0,44	0,52	0,65
600	0,19	0,22	0,25	0,28	0,31	0,37	0,43	0,47	0,56	0,62	0,74	0,93
800	0,24	0,28	0,32	0,36	0,40	0,48	0,56	0,59	0,71	0,79	0,85	1,19
1000	0,29	0,33	0,38	0,43	0,48	0,57	0,67	0,72	0,86	0,95	0,95	1,43
1400	0,38	0,44	0,50	0,56	0,63	0,75	0,88	0,94	1,14	1,25	1,33	1,88
1800	0,46	0,53	0,61	0,68	0,76	0,91	1,06	1,14	1,37	1,52	1,67	2,28
2200	0,53	0,62	0,70	0,79	0,88	1,06	1,23	1,32	1,59	1,76	1,97	2,64
2800	0,63	0,73	0,84	0,94	1,05	1,26	1,46	1,57	1,88	2,09	2,38	3,14
3000	-	0,77	0,88	0,99	1,10	1,32	1,54	1,65	1,98	2,20	2,51	3,29
3500	-	0,89	0,99	1,12	1,24	1,49	1,74	1,86	2,24	2,49	2,63	-
4000	-	-	1,07	1,20	1,33	1,60	1,87	2,00	2,40	2,67	2,98	-
5000	-	-	1,23	1,39	1,54	1,85	2,16	2,31	2,77	-	-	-
6000	-	-	1,38	1,55	1,73	2,07	2,42	2,59	-	-	-	-

The permissible performance figures for any timing belt width can be calculated by multiplying the figures in the table above with the respective width factors on page 133.

In this area of the table the service life is affected!

Profile AT 5 Performance Figures in kW/10 mm Timing Belt Width

Speed of small pulley min^{-1}	Teeth No. of Small Pulley 12	14	16	18	20	24	28	30	36	40	48	60
	Effective Diameter (mm) 19.10	22.28	25.46	28.65	31.83	38.20	44.56	47.75	57.30	63.66	76.39	95.49
100	0,02	0,05	0,05	0,05	0,05	0,07	0,07	0,09	0,09	0,12	0,14	0,16
200	0,05	0,05	0,07	0,07	0,09	0,09	0,12	0,12	0,14	0,16	0,21	0,26
400	0,09	0,12	0,12	0,14	0,14	0,19	0,21	0,23	0,28	0,30	0,37	0,44
500	0,12	0,14	0,14	0,16	0,19	0,23	0,26	0,28	0,32	0,37	0,44	0,56
600	0,14	0,16	0,19	0,19	0,21	0,26	0,30	0,32	0,39	0,44	0,53	0,65
800	0,16	0,21	0,23	0,26	0,28	0,35	0,39	0,42	0,51	0,56	0,67	0,84
1000	0,21	0,23	0,28	0,30	0,35	0,42	0,46	0,51	0,60	0,67	0,81	1,02
1400	0,28	0,30	0,35	0,39	0,44	0,53	0,63	0,67	0,81	0,88	1,07	1,35
1800	0,32	0,37	0,44	0,49	0,53	0,65	0,77	0,81	0,97	1,09	1,30	1,62
2400	0,39	0,46	0,53	0,60	0,67	0,81	0,93	1,00	1,21	1,35	1,60	2,00
3000	0,46	0,53	0,63	0,70	0,79	0,93	1,09	1,16	1,39	1,55	1,88	2,34
4000	0,56	0,65	0,74	0,86	0,95	1,14	1,32	1,42	1,69	1,88	2,25	2,83
5000	0,65	0,77	0,86	0,97	1,09	1,30	1,51	1,62	1,95	2,16	2,60	3,25
6000	-	-	0,97	1,09	1,21	1,46	1,81	1,81	2,18	2,41	2,90	3,62
7000	-	-	1,07	1,18	1,32	1,60	1,86	2,00	2,39	2,64	3,18	-

Profile AT 10 Performance Figures in kW/10 mm Timing Belt Width

Speed of small pulley min^{-1}	Teeth No. of Small Pulley 18	20	24	28	30	36	40	48	60
	Effective Diameter (mm) 57.30	63.66	76.39	89.13	95.49	114.59	127.32	152.79	190.99
100	0,16	0,19	0,22	0,27	0,27	0,32	0,38	0,46	0,57
200	0,30	0,32	0,41	0,46	0,49	0,59	0,65	0,78	0,97
400	0,54	0,59	0,70	0,84	0,89	1,05	1,19	1,40	1,76
600	0,76	0,84	1,00	1,16	1,27	1,51	1,67	2,00	2,51
800	0,97	1,08	1,30	1,51	1,59	1,92	2,13	2,30	3,21
1000	1,16	1,30	1,54	1,81	1,94	2,32	2,57	2,57	3,86
1400	1,51	1,70	2,03	2,38	2,54	3,09	3,38	3,59	5,08
1800	1,84	2,05	2,46	2,86	3,08	3,70	4,10	4,51	6,16
2200	2,13	2,38	2,86	3,32	3,56	4,29	4,75	5,32	7,13
2600	2,40	2,67	3,21	3,75	4,02	4,83	5,37	6,08	8,05
3000	2,67	2,97	3,56	4,16	4,46	5,35	5,94	6,78	8,88
3500	3,02	3,35	4,02	4,70	5,02	6,05	6,72	7,10	-
4000	3,24	3,59	4,32	5,05	5,40	6,48	7,21	8,05	-
5000	3,75	4,16	5,00	5,83	6,24	7,48	-	-	-
6000	4,19	4,67	5,59	6,53	6,99	-	-	-	-

The permissible performance figures for other timing belt widths can be calculated by multiplying the figures in the table above with the respective width factors.

Width Factors, Profile T 2.5

Belt Width	4	6	8	10	12
Width Factor	0.36	0.44	0.62	1.0	1.08

Width Factors, Profile T 5 and AT 5

Belt Width	6	10	16	20	25	50
Width Factor	0.58	1.0	1.42	1.83	2.33	4.98

Width Factors, Profile T 10 and AT 10

Belt Width	10	16	20	25	32	50	75
Width Factor	1.0	1.58	1.88	2.33	3.05	4.98	7.48

Profile 3M, Performance Figures in kW/25 mm Timing Belt Width

Speed of small pulley (min^{-1})	Teeth No. of Small Pulley														
	10	12	16	20	24	28	32	36	40	44	48	56	64	72	80
	Effective Diameter mm														
	9,55	11,46	15,28	19,10	22,92	26,74	30,56	34,38	38,20	42,02	45,84	53,48	61,12	68,75	76,39
20	0,005	0,006	0,009	0,012	0,015	0,017	0,020	0,022	0,025	0,028	0,030	0,035	0,040	0,045	0,050
40	0,009	0,012	0,017	0,022	0,027	0,032	0,037	0,042	0,047	0,052	0,056	0,066	0,075	0,084	0,093
60	0,013	0,017	0,024	0,032	0,039	0,046	0,054	0,061	0,068	0,075	0,082	0,095	0,109	0,122	0,135
100	0,020	0,026	0,038	0,050	0,062	0,074	0,085	0,096	0,107	0,118	0,129	0,151	0,172	0,193	0,214
200	0,036	0,048	0,071	0,093	0,115	0,137	0,158	0,179	0,200	0,220	0,240	0,280	0,320	0,358	0,397
400	0,065	0,087	0,130	0,171	0,212	0,252	0,291	0,330	0,369	0,406	0,444	0,517	0,590	0,660	0,730
600	0,091	0,122	0,184	0,244	0,302	0,359	0,415	0,471	0,525	0,579	0,632	0,736	0,838	0,937	1,035
800	0,115	0,155	0,235	0,312	0,387	0,461	0,533	0,604	0,674	0,742	0,810	0,942	1,070	1,194	1,315
1000	0,13	0,19	0,28	0,38	0,47	0,56	0,64	0,73	0,81	0,89	0,98	1,13	1,29	1,43	1,57
1400	0,18	0,24	0,37	0,50	0,62	0,74	0,86	0,97	1,08	1,18	1,29	1,49	1,67	1,85	2,01
1600	0,20	0,27	0,42	0,56	0,69	0,83	0,96	1,08	1,20	1,32	1,43	1,64	1,84	2,02	2,19
2000	0,23	0,33	0,59	0,67	0,84	0,99	1,14	1,29	1,43	1,56	1,69	1,92	2,13	2,31	2,45
2400	0,32	0,41	0,59	0,76	0,92	1,08	1,22	1,36	1,51	1,64	1,77	2,02	2,26	2,49	2,71
2850	0,35	0,46	0,67	0,86	1,04	1,22	1,39	1,55	1,71	1,86	2,00	2,29	2,55	2,81	3,06
3600	0,41	0,54	0,79	1,02	1,23	1,44	1,64	1,83	2,01	2,19	2,36	2,69	3,00	3,29	3,58
4000	0,44	0,58	0,85	1,09	1,33	1,55	1,765	1,97	2,16	2,35	2,54	2,89	3,22	3,53	3,83
5000	0,51	0,67	0,98	1,27	1,55	1,81	2,05	2,29	2,52	2,73	2,95	3,35	3,72	4,07	4,41
6000	0,56	0,75	1,11	1,44	1,75	2,04	2,32	2,58	2,84	3,08	3,31	3,76	4,17	4,56	4,93
8000	0,80	1,03	1,46	1,84	2,19	2,52	2,82	3,09	3,34	3,57	3,77	4,12	4,39	4,57	4,66
10000	0,89	1,16	1,65	2,09	2,48	2,83	3,15	3,43	3,68	3,89	4,07	4,34	4,47	4,47	4,33
12000	0,97	1,27	1,81	2,29	2,71	3,07	3,39	3,66	3,88	4,06	4,19	4,30	4,21	-	-
14000	1,03	1,36	1,94	2,45	2,88	3,24	3,50	3,78	3,96	4,07	4,11	3,99	-	-	-

Profile 5M, Performance Figures in kW/25 mm Timing Belt Width

Speed of small pulley (min^{-1})	Teeth No. of Small Pulley														
	14	16	18	20	24	28	32	36	40	44	48	56	64	72	80
	Effective Diameter mm														
	22,28	25,46	28,65	31,83	38,20	44,56	50,93	57,30	63,66	70,03	76,39	89,13	101,86	114,59	127,32
20	0,016	0,020	0,024	0,028	0,036	0,044	0,051	0,059	0,066	0,074	0,081	0,095	0,110	0,124	0,138
40	0,031	0,038	0,046	0,053	0,068	0,082	0,097	0,111	0,125	0,139	0,153	0,180	0,207	0,234	0,261
60	0,044	0,055	0,065	0,076	0,098	0,119	0,140	0,160	0,181	0,201	0,221	0,261	0,300	0,339	0,377
100	0,068	0,085	0,103	0,120	0,154	0,188	0,221	0,254	0,286	0,319	0,351	0,414	0,476	0,538	0,599
300	0,171	0,219	0,266	0,313	0,406	0,497	0,587	0,675	0,762	0,848	0,934	1,101	1,266	1,426	1,584
400	0,216	0,278	0,340	0,401	0,521	0,638	0,754	0,868	0,980	1,091	1,200	1,413	1,621	1,823	2,020
600	0,299	0,388	0,477	0,564	0,736	0,903	1,068	1,229	1,386	1,540	1,691	1,984	2,263	2,528	2,779
800	0,374	0,490	0,604	0,716	0,936	1,149	1,357	1,559	1,756	1,946	2,131	2,481	2,805	3,101	3,366
1000	0,44	0,58	0,72	0,86	1,12	1,38	1,62	1,86	2,09	2,31	2,51	2,90	3,23	3,52	3,75
1400	0,68	0,84	0,98	1,14	1,43	1,71	1,98	2,25	2,51	2,77	3,02	3,51	3,99	4,44	4,89
1600	0,76	0,90	1,10	1,26	1,59	1,90	2,21	2,51	2,80	3,08	3,36	3,91	4,43	4,93	5,41
2000	0,89	1,10	1,31	1,51	1,90	2,27	2,64	2,99	3,34	3,68	4,01	4,65	5,25	5,83	6,37
2400	1,03	1,27	1,50	1,74	2,19	2,62	3,04	3,45	3,85	4,24	4,61	5,33	6,00	6,63	7,21
2850	1,16	1,44	1,71	1,98	2,50	2,99	3,47	3,94	4,38	4,82	5,23	6,02	6,74	7,40	7,99
3600	1,37	1,70	2,04	2,36	2,98	3,57	4,13	4,67	5,19	5,68	6,15	7,01	7,75	8,39	8,90
4000	1,48	1,84	2,20	2,54	3,21	3,85	4,46	5,03	5,58	6,09	6,57	7,44	8,17	8,74	9,17
5000	1,71	2,14	2,57	2,98	3,76	4,49	5,18	5,81	6,40	6,94	7,42	8,22	8,77	9,05	9,04
6000	1,97	2,42	2,89	3,36	4,23	5,04	5,77	6,44	7,02	7,53	7,95	8,52	8,69	8,42	8,26
8000	2,63	3,14	3,53	4,00	4,92	5,62	6,38	6,65	6,96	7,12	7,12	7,02	-	-	-
10000	2,92	3,49	4,03	4,51	5,33	5,95	6,36	6,53	6,46	6,12	6,00	-	-	-	-
12000	3,32	3,73	4,27	4,74	5,46	5,86	5,93	5,62	-	-	-	-	-	-	-
14000	3,62	3,93	4,35	4,76	5,27	5,30	4,83	-	-	-	-	-	-	-	

The permissible performance figures for any timing belt width can be calculated by multiplying the figures in the table above with the respective width factors.

Width Factors 3M and 5M

Timing Belt Width	6	8	9	12	15	19	22	25	32	40	50
Width Factor	0,18	0,25	0,29	0,42	0,54	0,72	0,86	1,0	1,32	1,69	2,14

In this area of the table the service life might be shortened with increasing torque and a ratio close to 1 : 1. Please ask for more information.

Refers to cases where both circumstance come together. (shorter service life and no pulleys made from cast iron).

Speeds higher than 30 m/s.
Cast iron pulleys cannot be used in this range.

Profile 8M, Performance Figures in kW/25 mm Timing Belt Width

Speed of small pulley	Teeth No. of small pulley														
	20	22	24	26	28	30	32	36	40	44	48	56	64	72	80
	Effective Diameter mm														
(min^{-1})	50,93	56,02	61,12	66,21	71,30	76,39	81,49	91,67	101,86	112,05	122,23	142,60	162,97	183,35	203,72
10	0,02	0,02	0,03	0,03	0,03	0,04	0,04	0,05	0,06	0,07	0,08	0,09	0,11	0,13	0,14
20	0,04	0,05	0,05	0,06	0,07	0,08	0,09	0,10	0,12	0,14	0,15	0,19	0,22	0,25	0,28
50	0,10	0,12	0,14	0,16	0,18	0,20	0,22	0,26	0,30	0,34	0,38	0,46	0,54	0,62	0,70
100	0,19	0,23	0,27	0,31	0,35	0,39	0,43	0,51	0,59	0,67	0,75	0,91	1,07	1,22	1,38
200	0,38	0,46	0,54	0,62	0,70	0,77	0,85	1,01	1,17	1,32	1,48	1,79	2,10	2,41	2,72
400	0,74	0,89	1,05	1,21	1,36	1,52	1,67	1,98	2,29	2,59	2,90	3,51	4,11	4,72	5,32
500	0,91	1,11	1,30	1,49	1,69	1,88	2,07	2,46	2,84	3,22	3,60	4,35	5,10	5,85	6,59
600	1,09	1,32	1,55	1,78	2,01	2,24	2,47	2,93	3,38	3,84	4,29	5,18	6,07	6,97	7,84
800	1,43	1,74	2,04	2,35	2,65	2,95	3,26	3,86	4,46	5,05	5,64	6,81	7,97	9,14	10,28
1000	1,76	2,14	2,52	2,90	3,28	3,65	4,03	4,77	5,51	6,24	6,96	8,39	9,79	11,24	12,60
1200	2,09	2,55	3,00	3,45	3,89	4,34	4,78	5,66	6,53	7,39	8,24	9,91	11,53	13,24	14,80
1450	2,50	3,04	3,58	4,12	4,65	5,18	5,71	6,75	7,78	8,79	9,79	11,72	13,58	15,59	17,35
1800	3,05	3,71	4,37	5,03	5,68	6,32	6,96	8,21	9,44	10,64	11,81	14,05	16,14	18,54	20,45
2000	3,36	4,09	4,82	5,53	6,24	6,95	7,64	9,01	10,34	11,64	12,89	15,26	17,43	20,02	21,94
2500	4,10	4,99	5,88	6,74	7,60	8,44	9,27	10,88	12,43	13,91	15,30	17,84	19,98	22,94	24,62
2850	4,60	5,59	6,58	7,54	8,49	9,41	10,32	12,07	13,72	15,27	16,70	19,19	21,10	24,23	25,45
3000	4,80	5,94	6,87	7,87	8,85	9,81	10,75	12,54	14,23	15,79	17,22	19,64	21,39	24,56	25,52
3500	5,88	7,16	8,03	8,90	9,76	10,62	11,47	13,14	14,78	16,39	17,94	20,91	23,66	26,15	26,35
4000	7,07	8,16	9,15	10,13	11,10	12,06	13,01	14,88	16,69	18,45	20,14	23,29	26,11	27,55	-
4500	8,04	9,15	10,25	11,34	12,41	13,47	14,51	16,55	18,51	20,39	22,17	25,42	27,18	-	-
5000	8,91	10,12	11,33	12,52	13,68	14,83	15,96	18,14	20,22	22,18	24,02	27,05	-	-	-
6000	10,60	12,02	13,41	14,78	16,11	17,41	18,67	21,07	23,28	25,30	27,08	-	-	-	-

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Profile 14M, Performance Figures in kW/25 mm Timing Belt Width

Speed of small pulley	Teeth No. of small pulley														
	28	29	30	32	34	36	38	40	44	48	52	56	64	72	80
	Effective Diameter mm														
(min^{-1})	124,78	129,23	133,69	142,60	151,51	160,43	169,34	178,25	196,08	213,90	231,73	249,55	285,21	320,86	356,51
10	0,12	0,13	0,14	0,16	0,18	0,20	0,22	0,24	0,27	0,32	0,34	0,36	0,41	0,46	0,50
20	0,24	0,25	0,27	0,32	0,36	0,41	0,46	0,50	0,55	0,59	0,68	0,73	0,82	0,91	1,00
40	0,50	0,55	0,59	0,64	0,73	0,82	0,91	0,96	1,10	1,19	1,32	1,42	1,64	1,83	2,05
60	0,73	0,78	0,87	1,00	1,10	1,23	1,37	1,46	1,64	1,83	2,01	2,15	2,47	2,74	3,06
100	1,23	1,32	1,42	1,64	1,87	2,15	2,28	2,42	2,74	3,01	3,29	3,56	4,11	4,61	5,11
200	2,47	2,65	2,88	3,29	3,74	4,25	4,61	4,89	5,43	6,03	6,62	7,17	8,17	9,18	10,23
300	3,33	3,61	3,93	4,52	5,11	5,80	6,26	6,62	7,40	8,17	8,90	9,68	11,23	12,83	14,52
400	4,15	4,52	4,84	5,57	6,35	7,17	7,72	8,17	9,09	10,05	10,96	11,83	13,70	15,62	17,58
500	4,89	5,30	5,71	6,57	7,44	8,40	9,09	9,60	10,64	11,69	12,74	13,74	15,89	17,99	20,18
600	5,57	6,03	6,53	7,49	8,49	9,54	10,27	10,87	12,01	13,20	14,34	15,48	17,81	20,09	22,47
700	6,21	6,72	7,23	8,29	9,41	10,57	11,35	12,01	13,23	14,52	15,75	16,96	19,40	21,75	24,29
800	6,85	7,35	7,94	9,09	10,32	11,60	12,47	13,15	14,47	15,84	17,17	18,45	21,00	23,56	26,12
1000	7,94	8,54	9,18	10,55	11,92	13,38	14,34	15,07	16,57	18,04	19,45	20,82	23,52	26,12	28,68
1200	8,90	9,59	10,32	11,78	13,29	14,89	15,94	16,76	18,31	19,86	21,32	22,69	25,39	27,90	30,27
1450	9,99	10,70	11,47	13,11	14,79	16,50	17,66	18,49	20,00	21,69	23,10	24,41	26,86	29,09	30,86
1600	10,55	11,32	12,15	13,84	15,57	17,35	18,54	19,36	20,96	22,51	23,88	25,11	27,40	29,18	30,55
2000	11,83	12,69	13,56	15,39	17,21	19,13	20,32	21,10	22,56	23,88	24,98	25,80	27,03	27,40	26,94
2400	13,74	14,16	14,61	16,44	18,36	20,27	21,37	22,00	23,15	24,00	24,57	24,75	24,25	-	-
2850	15,82	16,37	16,76	17,62	18,85	20,73	21,54	22,09	22,56	22,45	22,42	22,42	-	-	-
3000	16,65	17,12	17,54	18,40	19,02	20,82	21,60	21,83	22,10	22,33	22,46	22,19	-	-	-
3500	18,54	19,00	19,41	20,18	20,87	21,42	21,87	22,24	22,42	22,19	-	-	-	-	-
4000	20,18	20,59	20,91	21,60	22,05	22,33	22,47	22,42	22,19	-	-	-	-	-	-

The permissible performance figures for any timing belt width can be calculated by multiplying the figures in the table above with the respective width factors.

Width Factors 8M and 14 M

Belt Width	10	15	20	25	30*	30	40	50	65	85	100	115
Width Factor	0,35	0,56	0,77	1,0	1,14	1,21	1,46	2,1	2,76	3,66	4,32	4,98

* Only for profile 14M.

In this area of the table the service life might be shortened with increasing torque and a ratio close to 1 : 1. Please ask for more information.

Refers to cases where both circumstance come together. (shorter service life and no pulleys made from cast iron).

Speeds higher than 30 m/s.
Cast iron pulleys cannot be used here.

Standard Timing-Belt Drives (Inch Pitch)

Pitch MXL, Performance Figures in W for 1" Timing Belt Width

Speed of small pulley (min^{-1})	Teeth No. of Small Pulley												
	16	18	20	22	24	28	30	32	36	40	42	44	48
	Effective Diameter mm												
	10,35	11,64	12,94	14,23	15,52	18,11	19,40	20,70	23,29	25,87	27,17	28,46	31,05
100	9	19	11	12	13	16	17	18	20	22	24	25	27
200	18	20	22	25	27	31	34	36	40	45	47	49	54
400	36	40	45	49	54	63	67	72	81	90	94	99	108
600	54	61	67	74	81	94	101	108	121	135	142	148	162
800	72	81	90	99	108	126	135	144	162	180	189	198	216
1000	90	101	112	124	135	157	169	180	202	225	236	247	270
1200	108	121	135	148	162	189	202	216	243	270	283	297	324
1400	126	142	157	173	189	220	236	252	283	315	331	346	378
1600	144	162	180	198	216	252	270	288	324	360	378	396	432
2000	180	202	225	247	270	315	337	360	405	450	472	495	540
2500	225	253	281	309	337	394	422	450	506	562	590	618	675
3000	270	305	335	370	405	472	505	540	605	675	710	740	810
4000	360	405	450	495	540	630	675	720	810	899	944	989	1079
6000	540	605	675	742	810	945	1015	1078	1215	1350	1415	1485	1620
8000	720	810	900	990	1080	1260	1350	1440	1620	1800	1890	1980	2160
12000	1080	1215	1350	1485	1620	1890	2025	2160	2430	2700	2835	2970	3240
16000	1440	1620	1800	1980	2160	2520	2700	2880	3240	3555	3660	3760	4015
20000	1800	2025	2250	2475	2700	3150	3375	3555	3810	4020	4110	4190	4320

Pitch XL, Performance Figures in kW for 1" Timing Belt Width

Speed of small pulley (min^{-1})	Teeth No. of Small Pulley														
	10	12	14	16	18	20	22	24	28	30	32	36	40	44	48
	Effective Diameter mm														
	16,17	19,40	22,64	25,87	29,11	32,34	35,57	38,81	45,28	48,51	51,74	58,21	64,88	71,15	77,62
100	0,01	0,02	0,02	0,02	0,03	0,03	0,03	0,04	0,04	0,05	0,05	0,06	0,06	0,07	0,07
200	0,03	0,04	0,04	0,05	0,05	0,06	0,07	0,07	0,08	0,09	0,10	0,11	0,13	0,13	0,14
400	0,06	0,07	0,08	0,10	0,10	0,12	0,13	0,14	0,17	0,18	0,19	0,22	0,24	0,26	0,28
600	0,09	0,10	0,13	0,14	0,16	0,18	0,20	0,21	0,25	0,27	0,29	0,33	0,37	0,40	0,44
800	0,12	0,14	0,17	0,19	0,22	0,24	0,26	0,29	0,34	0,36	0,39	0,44	0,49	0,54	0,58
1000	0,15	0,18	0,21	0,24	0,27	0,30	0,33	0,36	0,42	0,45	0,49	0,54	0,60	0,67	0,73
1200	0,18	0,21	0,25	0,29	0,32	0,36	0,40	0,43	0,50	0,54	0,58	0,65	0,73	0,80	0,87
1400	0,21	0,25	0,29	0,34	0,38	0,42	0,46	0,50	0,59	0,63	0,68	0,76	0,85	0,93	1,01
1600	0,24	0,29	0,34	0,39	0,43	0,48	0,53	0,58	0,67	0,72	0,77	0,87	0,96	1,06	1,15
2000	0,30	0,36	0,42	0,48	0,54	0,60	0,66	0,72	0,85	0,90	0,96	1,08	1,20	1,31	1,43
2400	0,36	0,43	0,50	0,58	0,65	0,72	0,79	0,87	1,01	1,08	1,15	1,29	1,43	1,56	1,69
2800	0,42	0,51	0,59	0,68	0,76	0,85	0,93	1,01	1,17	1,26	1,34	1,49	1,65	1,80	1,95
3200	0,48	0,58	0,67	0,77	0,87	0,96	1,05	1,15	1,33	1,43	1,51	1,69	1,86	2,03	2,19
3600	0,54	0,65	0,76	0,87	0,97	1,07	1,18	1,29	1,49	1,59	1,69	1,88	2,07	2,25	2,42
4000	0,60	0,72	0,85	0,96	1,07	1,20	1,31	1,43	1,64	1,75	1,86	2,07	2,27	2,45	2,63
4400	0,66	0,79	0,92	1,05	1,18	1,31	1,43	1,56	1,80	1,92	2,03	2,25	2,46	2,65	2,83
5000	0,75	0,90	1,04	1,20	1,34	1,48	1,62	1,77	2,02	2,15	2,27	2,50	2,72	2,92	3,10
6000	0,90	1,08	1,26	1,43	1,59	1,76	1,92	2,07	2,38	2,51	2,63	2,88	3,10	3,27	3,41

The permissible performance figures for any timing belt width can be calculated by multiplying the figures in the table above with the respective width factors.

Width Factors, Inch Pitch

Timing Belt Width	1/4"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
Width Factor	0,22	0,28	0,35	0,42	0,57	0,71	0,86	1,00	1,29	1,56	1,84	2,14

In this area of the table the service life might be shortened with increasing torque and a ratio close to 1 : 1. Please ask for more information.

Speeds higher than 30 m/s.
Cast iron pulleys cannot be used here

Standard Timing-Belt Drives (Inch Pitch)

Pitch L, Performance Figures in kW for 1" Timing Belt Width

Speed of small pulley (min^{-1})	Teeth No. of Small Pulley: 10	12	14	16	18	20	22	26	30	32	36	40	44	48
	Effective Diameter mm: 30,32	36,38	42,45	48,51	54,57	60,64	66,70	78,83	90,96	97,02	109,15	121,28	133,40	145,53
100	0,04	0,04	0,05	0,06	0,07	0,07	0,09	0,10	0,12	0,13	0,14	0,15	0,17	0,18
200	0,07	0,10	0,11	0,13	0,14	0,15	0,17	0,20	0,23	0,24	0,28	0,31	0,34	0,37
300	0,12	0,14	0,16	0,18	0,21	0,23	0,25	0,30	0,35	0,37	0,41	0,46	0,51	0,55
400	0,15	0,18	0,21	0,24	0,28	0,31	0,34	0,40	0,46	0,49	0,55	0,61	0,68	0,74
500	0,19	0,23	0,27	0,31	0,35	0,38	0,42	0,50	0,57	0,61	0,69	0,76	0,84	0,91
600	0,23	0,27	0,32	0,37	0,41	0,46	0,51	0,60	0,70	0,74	0,82	0,91	1,00	1,10
700	0,27	0,32	0,38	0,43	0,49	0,54	0,59	0,70	0,80	0,85	0,96	1,07	1,17	1,27
800	0,31	0,37	0,43	0,49	0,55	0,61	0,68	0,79	0,91	0,97	1,10	1,21	1,33	1,45
1000	0,38	0,46	0,54	0,61	0,69	0,76	0,84	0,99	1,14	1,21	1,36	1,51	1,65	1,79
1200	0,46	0,55	0,65	0,74	0,82	0,91	1,00	1,18	1,36	1,45	1,63	1,79	1,96	2,13
1400	0,54	0,64	0,75	0,85	0,96	1,07	1,17	1,38	1,58	1,68	1,88	2,07	2,27	2,46
1600	0,61	0,74	0,85	0,97	1,10	1,21	1,33	1,57	1,79	1,91	2,13	2,35	2,56	2,76
1800	0,69	0,82	0,96	1,10	1,23	1,36	1,49	1,75	2,01	2,13	2,38	2,61	2,84	3,06
2000	0,76	0,91	1,07	1,21	1,36	1,51	1,65	1,93	2,21	2,35	2,62	2,86	3,11	3,39
2400	0,92	1,10	1,27	1,45	1,63	1,79	1,96	2,29	2,62	2,76	3,07	3,34	3,60	3,83
2600	0,99	1,18	1,38	1,57	1,75	1,93	2,12	2,47	2,80	2,96	3,26	3,55	3,80	4,03
3000	1,15	1,36	1,58	1,79	2,01	2,21	2,42	2,80	3,16	3,34	3,65	3,93	4,18	4,37
3200	1,22	1,45	1,68	1,91	2,13	2,35	2,56	2,96	3,34	3,51	3,82	4,10	4,32	4,49
3600	1,37	1,63	1,86	2,13	2,38	2,61	2,84	3,27	3,65	3,83	4,13	4,38	4,54	4,64
4000	1,51	1,79	2,08	2,35	2,62	2,86	3,11	3,55	3,93	4,10	4,37	4,57	4,65	4,64
4600	1,74	2,05	2,37	2,67	2,95	3,22	3,48	3,93	4,28	4,42	4,60	4,67	4,58	4,33
5000	1,88	2,21	2,55	2,88	3,17	3,44	3,71	4,14	4,46	4,56	4,66	4,60	4,35	3,90

Pitch H, Performance Figures in kW for 1" Timing Belt Width

Speed of small pulley (min^{-1})	Teeth No. of Small Pulley: 14	16	18	20	22	24	26	28	30	32	36	40	44	48
	Effective Diameter mm: 56,60	64,68	76,81	80,85	88,94	97,02	105,11	113,19	121,28	129,36	145,53	161,70	177,87	194,04
100	0,18	0,21	0,24	0,25	0,29	0,31	0,34	0,37	0,39	0,42	0,47	0,52	0,57	0,63
200	0,37	0,42	0,47	0,52	0,57	0,63	0,68	0,73	0,78	0,83	0,93	1,04	1,15	1,25
300	0,54	0,63	0,71	0,78	0,86	0,93	1,01	1,10	1,17	1,25	1,40	1,56	1,71	1,87
400	0,73	0,83	0,93	1,04	1,15	1,25	1,35	1,46	1,56	1,66	1,87	2,07	2,28	2,49
500	0,91	1,04	1,17	1,30	1,43	1,56	1,69	1,82	1,95	2,07	2,33	2,59	2,85	3,10
600	1,10	1,25	1,40	1,56	1,71	1,87	2,02	2,18	2,33	2,48	2,79	3,10	3,41	3,71
700	1,27	1,46	1,64	1,82	2,00	2,18	2,37	2,54	2,72	2,90	3,26	3,61	3,97	4,32
800	1,46	1,66	1,87	2,07	2,28	2,49	2,69	2,90	3,10	3,31	3,71	4,12	4,52	4,92
900	1,64	1,87	2,10	2,33	2,57	2,79	3,02	3,26	3,49	3,71	4,17	4,63	5,07	5,51
1000	1,82	2,07	2,33	2,59	2,85	3,10	3,36	3,61	3,87	4,12	4,63	5,12	5,61	6,10
1100	2,00	2,28	2,57	2,85	3,13	3,41	3,69	3,97	4,24	4,52	5,07	5,61	6,15	6,68
1200	2,18	2,49	2,79	3,10	3,41	3,71	4,01	4,32	4,63	4,92	5,51	6,10	6,68	7,25
1400	2,55	2,90	3,26	3,61	3,96	4,32	4,67	5,02	5,37	5,72	6,39	7,06	7,71	8,35
1600	2,92	3,31	3,71	4,12	4,52	4,92	5,32	5,71	6,10	6,49	7,25	7,99	8,71	9,41
1800	3,29	3,71	4,17	4,62	5,07	5,51	5,96	6,39	6,82	7,25	8,08	8,89	9,67	10,43
2000	3,65	4,12	4,62	5,12	5,61	6,10	6,58	7,05	7,53	7,99	8,90	9,76	10,59	11,37
2400	4,38	4,92	5,51	6,10	6,68	7,24	7,81	8,36	8,89	9,41	10,43	11,37	12,25	13,06
2800	5,08	5,71	6,39	7,05	7,71	8,35	8,98	9,60	10,18	10,74	11,83	12,80	13,68	14,43
3200	5,79	6,49	7,24	7,98	8,71	9,40	10,09	10,76	11,37	11,96	13,07	14,01	14,81	15,43
3600	6,48	7,25	8,08	8,88	9,68	10,41	11,14	11,83	12,46	13,05	14,13	14,98	15,62	16,01
4000	7,15	7,99	8,89	9,74	10,59	11,35	12,10	12,82	13,43	14,00	15,00	15,67	16,05	16,10
4600	8,15	9,07	10,05	10,96	11,86	12,63	13,40	14,09	14,63	15,13	15,87	16,12	15,93	15,24

The permissible performance figures for any timing belt width can be calculated by multiplying the figures in the table above with the respective width factors.

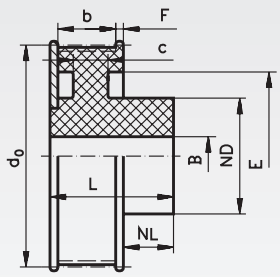
Width Factors, Inch Pitch

Timing Belt Width	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
Width Factor	0,28	0,35	0,42	0,57	0,71	0,86	1,00	1,29	1,56	1,84	2,14

In this area of the table the service life might be shortened with increasing torque and a ratio close to 1 : 1. Please ask for more information.

Speeds higher than 30 m/s.
Cast iron pulleys cannot be used here.

T Pulleys with Metric Pitch and 2 Flanges Made from Acetal Resin



Material: Acetal resin in injection-moulded version, colour black. Bores machined. High hardness and low coefficient of friction which means they can be used in various set-ups, e.g. also under water. Material reference values see page 821.

Ordering Details: e.g.: Product No. 160 512 00, Pulley, Pitch T 2.5, 12 Teeth, Timing Belt Width 6 mm

Profile T 2.5, Timing Belt Width 6 mm

Product No. Timing Belt Width 6 mm	Number of teeth	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	NL mm	E mm	F mm	b mm	L mm	c mm	B mm	Weight g
160 512 00	12	9,0	10,6	9,56	9	4,5	-	1	7,5	14	-	3,5	1,0
160 513 00	13	9,8	11,4	10,34	9	4,5	-	1	7,5	14	-	3,5	1,1
160 514 00	14	10,6	12,2	11,14	9	4,5	-	1	7,5	14	-	3,5	1,4
160 515 00	15	11,4	13,0	11,94	9	4,5	-	1	7,5	14	-	3,5	1,6
160 516 00	16	12,2	13,8	12,73	9	4,5	-	1	7,5	14	-	3,5	1,8
160 517 00	17	13,0	14,6	13,53	9	4,5	-	1	7,5	14	-	3,5	2,2
160 518 00	18	13,8	15,4	14,32	10	5,5	-	1	7,5	15	-	4	2,4
160 519 00	19	14,6	16,2	15,12	10	5,5	-	1	7,5	15	-	4	2,9
160 520 00	20	15,4	17,0	15,92	12	5,5	-	1	7,5	15	-	4	3,2
160 522 00	22	17,0	18,6	17,51	12	5,5	-	1	7,5	15	-	4	3,8
160 525 00	25	19,35	20,95	19,95	12	5,5	14,0	1	7,5	15	4,5	5	4,5
160 528 00	28	21,75	23,35	22,35	12	5,5	16,2	1	7,5	15	4,5	5	5,1
160 532 00	32	24,95	26,55	25,55	15	6,5	18,5	1	7,5	16	4,5	5	6,8
160 536 00	36	28,15	29,75	28,65	15	6,5	21,8	1	7,5	16	4,5	5	8,0
160 540 00	40	31,3	32,9	31,90	18	6,5	25,0	1	7,5	16	3,5	8	9,4
160 548 00	48	37,7	39,3	38,30	18	6,5	31,6	1	7,5	16	3,5	8	11,8
160 560 00	60	47,25	48,85	47,85	18	6,5	41,0	1	7,5	16	3,5	8	16,5
160 572 00	72	56,8	58,4	57,30	18	6,5	49,5	1	7,5	16	4,5	8	26,1
160 584 00	84	66,35	67,95	66,85	18	6,5	59,0	1	7,5	16	4,5	8	33,1
160 596 00	96	75,9	77,5	76,39	18	6,5	68,0	1	7,5	16	4,5	8	42,2

Profile T 5, Timing Belt Width 10 mm

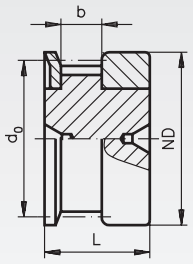
Product No. Timing Belt Width 10 mm	Number of teeth	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	NL mm	E mm	F mm	b mm	L mm	c mm	B mm	Weight g
162 512 00	12	18,25	20,65	19,10	15	8	-	1,25	11,5	22	-	5	6,2
162 513 00	13	19,85	22,25	20,69	15	8	-	1,25	11,5	22	-	5	7,2
162 514 00	14	21,45	23,85	22,28	15	8	-	1,25	11,5	22	-	5	8,1
162 515 00	15	23,05	25,45	23,87	16	8	19	1,25	11,5	22	7	6	8,6
162 516 00	16	24,60	27,00	25,46	16	8	19	1,25	11,5	22	7	6	9,6
162 517 00	17	26,20	28,60	27,06	16	8	19	1,25	11,5	22	7	6	10,8
162 518 00	18	27,80	30,20	28,65	16	8	19	1,25	11,5	22	7	6	12,2
162 519 00	19	29,40	31,80	30,24	16	8	22	1,25	11,5	22	6	8	12,3
162 520 00	20	31,00	33,40	31,83	16	8	25	1,25	11,5	22	6	8	12,5
162 522 00	22	34,15	36,55	35,01	18	8	27	1,25	11,5	22	6	8	15,3
162 525 00	25	38,95	41,35	39,79	18	8	32	1,25	11,5	22	6	8	18,8
162 528 00	28	43,75	46,15	44,56	18	8	36	1,25	11,5	22	6	10	22,0
162 532 00	32	50,10	52,50	50,93	18	8	42	1,25	11,5	22	6	10	27,7
162 536 00	36	56,45	58,85	57,30	18	8	47	1,25	11,5	22	6	10	34,9
162 540 00	40	62,85	65,25	63,66	18	8	53	1,25	11,5	22	6	10	41,9
162 548 00	48	75,55	77,95	76,39	18	8	66	1,25	11,5	22	6	10	57,7
162 560 00	60	94,65	97,05	95,49	18	8	85	1,25	11,5	22	6	10	86,5
162 572 00	72	113,75	116,15	114,59	18	8	104	1,25	11,5	22	6	10	126,5
162 584 00	84	132,90	135,30	133,69	18	8	123	1,25	11,5	22	6	10	169,6

Note regarding pulleys made from acetal resin

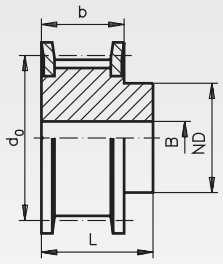
Inside these injection-moulded parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.

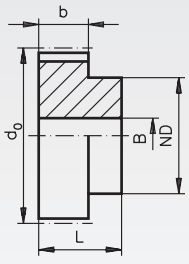
T Pulleys, Pitch 2.5 mm Made from Aluminium



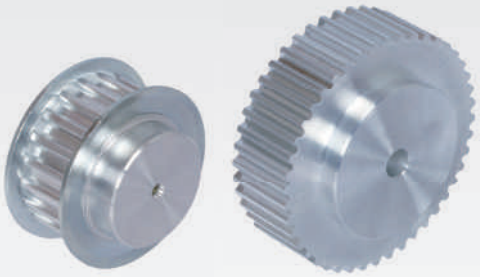
Type 0F



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

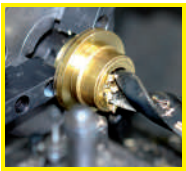
Ordering Details: e.g.: Product No. 160 212 00, Pulley, Pitch T2.5, 12 Teeth, Timing Belt Width 6 mm

Profile T 2.5, Timing Belt Width 6 mm

Product No. Timing Belt Width 6 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
160 212 00	16 T2,5/12-2	12	0F	9,00	13,0	9,56	12	9	16	-	3
160 214 00	16 T2,5/14-2	14	0F	10,60	15,0	11,14	14	9	16	-	4
160 215 00	16 T2,5/15-2	15	0F	11,40	15,0	11,94	15	9	16	-	5
160 216 00	16 T2,5/16-2	16	0F	12,20	16,0	12,73	16	9	16	-	5
160 218 00	16 T2,5/18-2	18	1F	13,80	18,0	14,32	10	10	16	3	6
160 219 00	16 T2,5/19-2	19	1F	14,60	18,0	15,12	10	10	16	3	7
160 220 00	16 T2,5/20-2	20	1F	15,40	19,5	15,92	11	10	16	3	8
160 222 00	16 T2,5/22-2	22	1F	17,00	23,0	17,51	11	10	16	3	9
160 224 00	16 T2,5/24-2	24	1F	18,55	23,0	19,15	12	10	16	3	12
160 225 00	16 T2,5/25-2	25	1F	19,35	23,0	19,95	13	10	16	3	13
160 226 00	16 T2,5/26-2	26	1F	20,15	25,0	20,75	14	10	16	4	14
160 228 00	16 T2,5/28-2	28	1F	21,75	25,0	22,35	14	10	16	4	16
160 230 00	16 T2,5/30-2	30	1F	23,35	28,0	23,95	16	10	16	6	18
160 232 00	16 T2,5/32-2	32	1F	24,95	32,0	25,55	16	10	16	6	20
160 236 00	16 T2,5/36-2	36	1F	28,10	36,0	28,75	20	10	16	6	26
160 240 00	16 T2,5/40-2	40	1F	31,30	38,0	31,90	22	10	16	6	32
160 244 00	16 T2,5/44-0	44	2	34,50	-	35,10	24	10	16	6	40
160 248 00	16 T2,5/48-0	48	2	37,70	-	38,30	26	10	16	6	48
160 260 00	16 T2,5/60-0	60	2	47,25	-	47,85	34	10	16	8	73

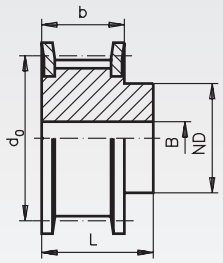
Profile T 2.5, Timing Belt Width 10 mm

Product No. Timing Belt Width 10 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
160 312 00	20 T2,5/12-2	12	0F	9,00	13,0	9,56	12	13	20	-	4
160 314 00	20 T2,5/14-2	14	0F	10,60	15,0	11,14	14	13	20	-	6
160 315 00	20 T2,5/15-2	15	0F	11,40	15,0	11,94	15	13	20	-	7
160 316 00	20 T2,5/16-2	16	0F	12,20	16,0	12,73	16	13	20	-	7
160 318 00	20 T2,5/18-2	18	1F	13,80	18,0	14,32	10	14	20	3	8
160 319 00	20 T2,5/19-2	19	1F	14,60	18,0	15,12	10	14	20	3	10
160 320 00	20 T2,5/20-2	20	1F	15,40	19,5	15,92	11	14	20	3	11
160 322 00	20 T2,5/22-2	22	1F	17,00	23,0	17,51	11	14	20	3	13
160 324 00	20 T2,5/24-2	24	1F	18,55	23,0	19,15	12	14	20	3	17
160 325 00	20 T2,5/25-2	25	1F	19,35	23,0	19,95	13	14	20	3	18
160 326 00	20 T2,5/26-2	26	1F	20,15	25,0	20,75	14	14	20	4	20
160 328 00	20 T2,5/28-2	28	1F	21,75	25,0	22,35	14	14	20	4	22
160 330 00	20 T2,5/30-2	30	1F	23,35	28,0	23,95	16	14	20	6	25
160 332 00	20 T2,5/32-2	32	1F	24,95	32,0	25,55	16	14	20	6	28
160 336 00	20 T2,5/36-2	36	1F	28,10	36,0	28,75	20	14	20	6	36
160 340 00	20 T2,5/40-2	40	1F	31,30	38,0	31,90	22	14	20	6	45
160 344 00	20 T2,5/44-0	44	2	34,50	-	35,10	24	14	20	6	56
160 348 00	20 T2,5/48-0	48	2	37,70	-	38,30	26	14	20	6	67
160 360 00	20 T2,5/60-0	60	2	47,25	-	47,85	34	14	20	8	102

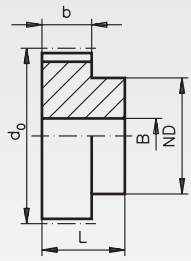


Reworking within 24h-service possible. Custom made parts on request.

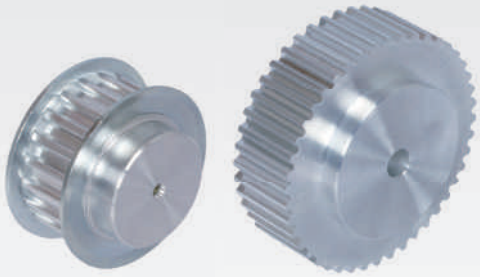
T Pulleys, Pitch 5 mm from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 162 210 00, Pulley, Pitch T5, 10 Teeth, Timing Belt Width 10 mm

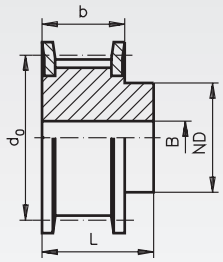
Profile T 5, Timing Belt Width 10 mm

Product No. Timing Belt Width 10 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
162 210 00	21 T5/10-2	10	1F	15,05	19,5	15,92	8	15	21	-	12
162 212 00	21 T5/12-2	12	1F	18,25	23,0	19,10	10	15	21	-	16
162 214 00	21 T5/14-2	14	1F	21,45	25,0	22,28	13	15	21	-	19
162 215 00	21 T5/15-2	15	1F	23,05	28,0	23,87	16	15	21	-	21
162 216 00	21 T5/16-2	16	1F	24,60	32,0	25,46	18	15	21	-	25
162 218 00	21 T5/18-2	18	1F	27,80	32,0	28,65	20	15	21	-	31
162 219 00	21 T5/19-2	19	1F	29,40	36,0	30,24	22	15	21	-	36
162 220 00	21 T5/20-2	20	1F	31,00	36,0	31,83	23	15	21	-	38
162 222 00	21 T5/22-2	22	1F	34,15	38,0	35,01	24	15	21	-	46
162 224 00	21 T5/24-2	24	1F	37,40	42,0	38,20	26	15	21	-	54
162 225 00	21 T5/25-2	25	1F	38,95	44,0	39,79	26	15	21	-	58
162 226 00	21 T5/26-2	26	1F	40,60	44,0	41,38	26	15	21	-	62
162 227 00	21 T5/27-2	27	1F	42,20	48,0	42,97	30	15	21	8	64
162 228 00	21 T5/28-2	28	1F	43,75	48,0	44,56	32	15	21	8	71
162 230 00	21 T5/30-2	30	1F	46,95	51,0	47,75	34	15	21	8	75
162 232 00	21 T5/32-2	32	1F	50,10	54,0	50,93	38	15	21	8	88
162 236 00	21 T5/36-2	36	1F	56,45	64,0	57,30	38	15	21	8	114
162 240 00	21 T5/40-2	40	1F	62,85	66,0	63,66	40	15	21	8	138
162 242 00	21 T5/42-2	42	1F	66,00	71,0	66,84	40	15	21	8	180
162 244 00	21 T5/44-0	44	2	69,20	-	70,03	45	15	21	8	185
162 248 00	21 T5/48-0	48	2	75,55	-	76,39	50	15	21	8	200
162 260 00	21 T5/60-0	60	2	94,65	-	95,49	65	15	21	8	307

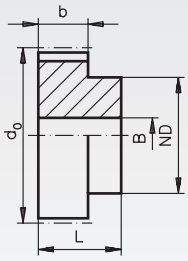
Profile T 5, Timing Belt Width 16 mm

Product No. Timing Belt Width 16 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
162 310 00	27 T5/10-2	10	1F	15,05	19,5	15,92	8	21	27	-	16
162 312 00	27 T5/12-2	12	1F	18,25	23,0	19,10	10	21	27	-	22
162 314 00	27 T5/14-2	14	1F	21,45	25,0	22,28	13	21	27	-	26
162 315 00	27 T5/15-2	15	1F	23,05	28,0	23,87	16	21	27	-	29
162 316 00	27 T5/16-2	16	1F	24,60	32,0	25,46	18	21	27	-	35
162 318 00	27 T5/18-2	18	1F	27,80	32,0	28,65	20	21	27	-	43
162 319 00	27 T5/19-2	19	1F	29,40	36,0	30,24	22	21	27	-	49
162 320 00	27 T5/20-2	20	1F	31,00	36,0	31,83	23	21	27	-	53
162 322 00	27 T5/22-2	22	1F	34,15	38,0	35,01	24	21	27	-	54
162 324 00	27 T5/24-2	24	1F	37,40	42,0	38,20	26	21	27	-	76
162 325 00	27 T5/25-2	25	1F	38,95	44,0	39,79	26	21	27	-	81
162 326 00	27 T5/26-2	26	1F	40,60	44,0	41,38	26	21	27	-	85
162 327 00	27 T5/27-2	27	1F	42,20	48,0	42,97	30	21	27	8	90
162 328 00	27 T5/28-2	28	1F	43,75	48,0	44,56	32	21	27	8	92
162 330 00	27 T5/30-2	30	1F	46,95	51,0	47,75	34	21	27	8	105
162 332 00	27 T5/32-2	32	1F	50,10	54,0	50,93	38	21	27	8	123
162 336 00	27 T5/36-2	36	1F	56,45	64,0	57,30	38	21	27	8	160
162 340 00	27 T5/40-2	40	1F	62,85	66,0	63,66	40	21	27	8	193
162 342 00	27 T5/42-2	42	1F	66,00	71,0	66,84	40	21	27	8	205
162 344 00	27 T5/44-0	44	2	69,20	-	70,03	45	21	27	8	228
162 348 00	27 T5/48-0	48	2	75,55	-	76,39	50	21	27	8	280
162 360 00	27 T5/60-0	60	2	94,65	-	95,49	65	21	27	8	430

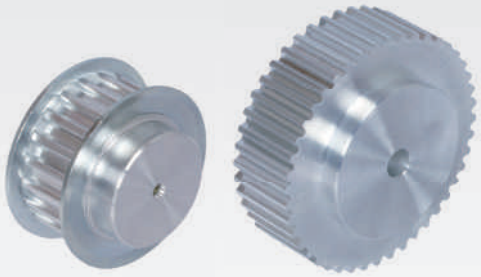
T Pulleys, Pitch 5 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 162 410 00, Pulley, Pitch T5, 10 Teeth, Timing Belt Width 25 mm

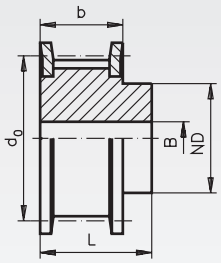
Profile T 5, Timing Belt Width 25 mm

Product No. Timing Belt Width 25 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
162 410 00	36 T5/10-2	10	1F	15,05	19,5	15,92	8	30	36	-	20
162 412 00	36 T5/12-2	12	1F	18,25	23,0	19,10	10	30	36	-	30
162 414 00	36 T5/14-2	14	1F	21,45	25,0	22,28	13	30	36	-	40
162 415 00	36 T5/15-2	15	1F	23,05	28,0	23,87	16	30	36	-	40
162 416 00	36 T5/16-2	16	1F	24,60	32,0	25,46	18	30	36	-	50
162 418 00	36 T5/18-2	18	1F	27,80	32,0	28,65	20	30	36	-	60
162 419 00	36 T5/19-2	19	1F	29,40	36,0	30,24	22	30	36	-	70
162 420 00	36 T5/20-2	20	1F	31,00	36,0	31,83	23	30	36	-	80
162 422 00	36 T5/22-2	22	1F	34,15	38,0	35,01	24	30	36	-	80
162 424 00	36 T5/24-2	24	1F	37,40	42,0	38,20	26	30	36	-	110
162 425 00	36 T5/25-2	25	1F	38,95	44,0	39,79	26	30	36	-	120
162 426 00	36 T5/26-2	26	1F	40,60	44,0	41,38	26	30	36	-	120
162 427 00	36 T5/27-2	27	1F	42,20	48,0	42,97	30	30	36	8	130
162 428 00	36 T5/28-2	28	1F	43,75	48,0	44,56	32	30	36	8	140
162 430 00	36 T5/30-2	30	1F	46,95	51,0	47,75	34	30	36	8	150
162 432 00	36 T5/32-2	32	1F	50,10	54,0	50,93	38	30	36	8	180
162 436 00	36 T5/36-2	36	1F	56,45	64,0	57,30	38	30	36	8	230
162 440 00	36 T5/40-2	40	1F	62,85	66,0	63,66	40	30	36	8	280
162 442 00	36 T5/42-2	42	1F	66,00	71,0	66,84	40	30	36	8	290
162 444 00	36 T5/44-0	44	2	69,20	-	70,03	45	30	36	8	310
162 448 00	36 T5/48-0	48	2	75,55	-	76,39	50	30	36	8	400
162 460 00	36 T5/60-0	60	2	94,65	-	95,49	65	30	36	8	610

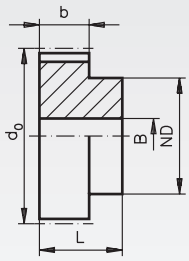
Profile T 5, Timing Belt Width 32 mm

Product No. Timing Belt Width 32 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
162 110 00	46 T5/10-2	10	1F	15,05	19,5	15,92	8	40	46	-	30
162 112 00	46 T5/12-2	12	1F	18,25	23,0	19,10	10	40	46	-	42
162 114 00	46 T5/14-2	14	1F	21,45	25,0	22,28	13	40	46	-	49
162 115 00	46 T5/15-2	15	1F	23,05	28,0	23,87	16	40	46	-	55
162 116 00	46 T5/16-2	16	1F	24,60	32,0	25,46	18	40	46	-	66
162 118 00	46 T5/18-2	18	1F	27,80	32,0	28,65	20	40	46	-	81
162 119 00	46 T5/19-2	19	1F	29,40	36,0	30,24	22	40	46	-	93
162 120 00	46 T5/20-2	20	1F	31,00	36,0	31,83	23	40	46	-	100
162 122 00	46 T5/22-2	22	1F	34,15	38,0	35,01	24	40	46	-	102
162 124 00	46 T5/24-2	24	1F	37,40	42,0	38,20	26	40	46	-	144
162 125 00	46 T5/25-2	25	1F	38,95	44,0	39,79	26	40	46	-	153
162 126 00	46 T5/26-2	26	1F	40,60	44,0	41,38	26	40	46	-	161
162 127 00	46 T5/27-2	27	1F	42,20	48,0	42,97	30	40	46	8	170
162 128 00	46 T5/28-2	28	1F	43,75	48,0	44,56	32	40	46	8	174
162 130 00	46 T5/30-2	30	1F	46,95	51,0	47,75	34	40	46	8	198
162 132 00	46 T5/32-2	32	1F	50,10	54,0	50,93	38	40	46	8	232
162 136 00	46 T5/36-2	36	1F	56,45	64,0	57,30	38	40	46	8	302
162 140 00	46 T5/40-2	40	1F	62,85	66,0	63,66	40	40	46	8	365
162 142 00	46 T5/42-2	42	1F	66,00	71,0	66,84	40	40	46	8	387
162 144 00	46 T5/44-0	44	2	69,20	-	70,03	45	40	46	8	431
162 148 00	46 T5/48-0	48	2	75,55	-	76,39	50	40	46	8	529
162 160 00	46 T5/60-0	60	2	94,65	-	95,49	65	40	46	8	813

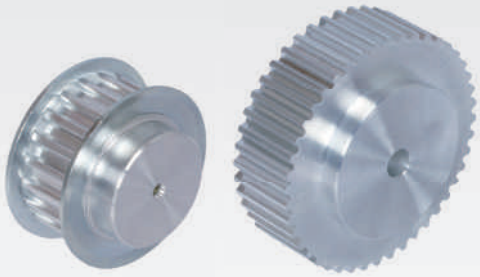
T Pulleys, Pitch 10 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 164 212 00, Pulley, Pitch T10, 12 Teeth, Timing Belt Width 16 mm

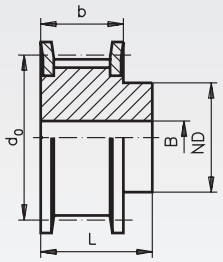
Profile T 10, Timing Belt Width 16 mm

Product No. Timing Belt Width 16 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
164 212 00	31 T10/12-2	12	1F	36,35	42	38,20	28	21	31	6	76
164 214 00	31 T10/14-2	14	1F	42,70	48	44,56	32	21	31	8	104
164 215 00	31 T10/15-2	15	1F	45,90	51	47,75	32	21	31	8	116
164 216 00	31 T10/16-2	16	1F	49,10	54	50,93	35	21	31	8	134
164 218 00	31 T10/18-2	18	1F	55,45	60	57,30	40	21	31	8	167
164 219 00	31 T10/19-2	19	1F	58,65	66	60,48	44	21	31	8	184
164 220 00	31 T10/20-2	20	1F	61,80	66	63,66	46	21	31	8	208
164 222 00	31 T10/22-2	22	1F	68,20	75	70,03	52	21	31	8	253
164 224 00	31 T10/24-2	24	1F	74,55	83	76,39	58	21	31	8	288
164 225 00	31 T10/25-2	25	1F	77,75	83	79,58	60	21	31	8	310
164 226 00	31 T10/26-2	26	1F	80,90	87	82,76	60	21	31	8	357
164 227 00	31 T10/27-2	27	1F	84,10	91	85,94	60	21	31	8	364
164 228 00	31 T10/28-2	28	1F	87,25	93	89,13	60	21	31	8	401
164 230 00	31 T10/30-2	30	1F	93,65	97	95,49	60	21	31	8	441
164 232 00	31 T10/32-2	32	1F	100,00	106	101,86	65	21	31	10	493
164 236 00	31 T10/36-2	36	1F	112,75	119	114,59	70	21	31	10	623
164 240 00	31 T10/40-2	40	1F	125,45	131	127,32	80	21	31	10	767
164 244 00	31 T10/44-0	44	2	138,20	-	140,06	88	21	31	10	993
164 248 00	31 T10/48-0	48	2	150,95	-	152,79	95	21	31	16	1090
164 260 00	31 T10/60-0	60	2	189,10	-	190,99	110	21	31	16	1701

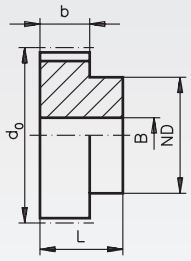
Profile T 10, Timing Belt Width 25 mm

Product No. Timing Belt Width 25 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
164 312 00	40 T10/12-2	12	1F	36,35	42	38,20	28	30	40	6	99
164 314 00	40 T10/14-2	14	1F	42,70	48	44,56	32	30	40	8	134
164 315 00	40 T10/15-2	15	1F	45,90	51	47,75	32	30	40	8	152
164 316 00	40 T10/16-2	16	1F	49,10	54	50,93	35	30	40	8	176
164 318 00	40 T10/18-2	18	1F	55,45	60	57,30	40	30	40	8	224
164 319 00	40 T10/19-2	19	1F	58,65	66	60,48	44	30	40	8	247
164 320 00	40 T10/20-2	20	1F	61,80	66	63,66	46	30	40	8	276
164 322 00	40 T10/22-2	22	1F	68,20	75	70,03	52	30	40	8	337
164 324 00	40 T10/24-2	24	1F	74,55	83	76,39	58	30	40	8	392
164 325 00	40 T10/25-2	25	1F	77,75	83	79,58	60	30	40	8	422
164 326 00	40 T10/26-2	26	1F	80,90	87	82,76	60	30	40	8	477
164 327 00	40 T10/27-2	27	1F	84,10	91	85,94	60	30	40	8	536
164 328 00	40 T10/28-2	28	1F	87,25	93	89,13	60	30	40	8	540
164 330 00	40 T10/30-2	30	1F	93,65	97	95,49	60	30	40	8	640
164 332 00	40 T10/32-2	32	1F	100,00	106	101,86	65	30	40	10	693
164 336 00	40 T10/36-2	36	1F	112,75	119	114,59	70	30	40	10	873
164 340 00	40 T10/40-2	40	1F	125,45	131	127,32	80	30	40	10	1067
164 344 00	40 T10/44-0	44	2	138,20	-	140,06	88	30	40	10	1350
164 348 00	40 T10/48-0	48	2	150,95	-	152,79	95	30	40	16	1516
164 360 00	40 T10/60-0	60	2	189,10	-	190,99	110	30	40	16	2339

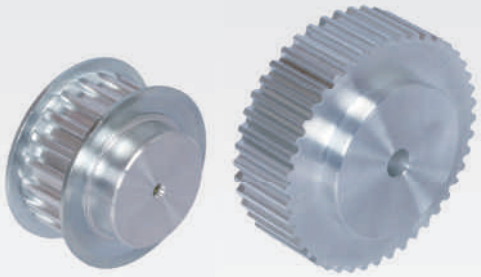
T Pulleys, Pitch 10 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 164 418 00, Pulley, Pitch T10, 18 Teeth, Timing Belt Width 32 mm

Profile T 10, Timing Belt Width 32 mm

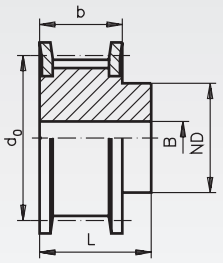
Product No. Timing Belt Width 32 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
164 418 00	47 T10/18-2	18	1F	55,45	60	57,30	40	37	47	10	250
164 419 00	47 T10/19-2	19	1F	58,65	66	60,48	44	37	47	10	290
164 420 00	47 T10/20-2	20	1F	61,80	66	63,66	46	37	47	12	320
164 422 00	47 T10/22-2	22	1F	68,20	75	70,03	52	37	47	12	390
164 424 00	47 T10/24-2	24	1F	74,55	83	76,39	58	37	47	12	470
164 425 00	47 T10/25-2	25	1F	77,75	83	79,58	60	37	47	12	530
164 426 00	47 T10/26-2	26	1F	80,90	87	82,76	60	37	47	12	560
164 427 00	47 T10/27-2	27	1F	84,10	91	85,94	60	37	47	12	600
164 428 00	47 T10/28-2	28	1F	87,25	93	89,13	60	37	47	12	640
164 430 00	47 T10/30-2	30	1F	93,65	97	95,49	60	37	47	12	740
164 432 00	47 T10/32-2	32	1F	100,00	106	101,86	65	37	47	12	840
164 436 00	47 T10/36-2	36	1F	112,75	119	114,59	70	37	47	16	1060
164 440 00	47 T10/40-2	40	1F	125,45	131	127,32	80	37	47	16	1320
164 444 00	47 T10/44-0	44	2	138,20	-	140,06	88	37	47	16	1610
164 448 00	47 T10/48-0	48	2	150,95	-	152,79	95	37	47	16	1930
164 460 00	47 T10/60-0	60	2	189,10	-	190,99	110	37	47	16	3000

Profile T 10, Timing Belt Width 50 mm

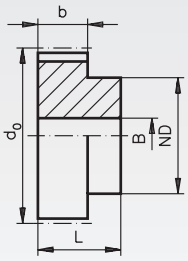
Product No. Timing Belt Width 50 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
164 518 00	66 T10/18-2	18	1F	55,45	60	57,30	40	56	66	10	420
164 519 00	66 T10/19-2	19	1F	58,65	66	60,48	44	56	66	10	470
164 520 00	66 T10/20-2	20	1F	61,80	66	63,66	46	56	66	12	520
164 522 00	66 T10/22-2	22	1F	68,20	75	70,03	52	56	66	12	570
164 524 00	66 T10/24-2	24	1F	74,55	83	76,39	58	56	66	12	740
164 525 00	66 T10/25-2	25	1F	77,75	83	79,58	60	56	66	12	770
164 526 00	66 T10/26-2	26	1F	80,90	87	82,76	60	56	66	12	820
164 527 00	66 T10/27-2	27	1F	84,10	91	85,94	60	56	66	12	950
164 528 00	66 T10/28-2	28	1F	87,25	93	89,13	60	56	66	12	960
164 530 00	66 T10/30-2	30	1F	93,65	97	95,49	60	56	66	12	1170
164 532 00	66 T10/32-2	32	1F	100,00	106	101,86	65	56	66	12	1300
164 536 00	66 T10/36-2	36	1F	112,75	119	114,59	70	56	66	16	1640
164 540 00	66 T10/40-2	40	1F	125,45	131	127,32	80	56	66	16	2000
164 544 00	66 T10/44-0	44	2	138,20	-	140,06	88	56	66	16	2360
164 548 00	66 T10/48-0	48	2	150,95	-	152,79	95	56	66	16	2830
164 560 00	66 T10/60-0	60	2	189,10	-	190,99	110	56	66	16	4370

Reworking within 24h-service possible. Custom made parts on request.

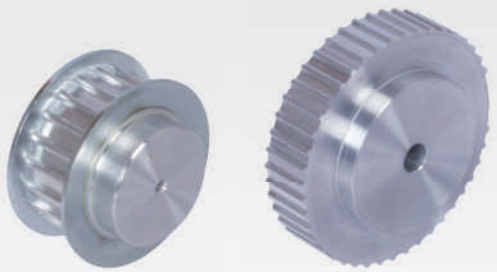
AT Pulleys, Pitch 5 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 166 212 00, Pulley, Pitch AT5, 12 Teeth, Timing Belt Width 10 mm

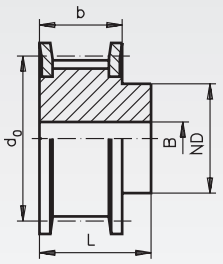
Profile AT 5, Timing Belt Width 10 mm

Product No. Timing Belt Width 10 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
166 212 00	21 AT5/12-2	12	1F	17,85	23	19,10	10	15	21	-	16
166 214 00	21 AT5/14-2	14	1F	21,05	25	22,28	13	15	21	-	19
166 215 00	21 AT5/15-2	15	1F	22,65	28	23,87	16	15	21	-	21
166 216 00	21 AT5/16-2	16	1F	24,20	32	25,46	18	15	21	-	25
166 218 00	21 AT5/18-2	18	1F	27,40	32	28,65	20	15	21	-	31
166 219 00	21 AT5/19-2	19	1F	29,00	36	30,24	22	15	21	-	36
166 220 00	21 AT5/20-2	20	1F	30,60	36	31,88	23	15	21	-	38
166 222 00	21 AT5/22-2	22	1F	33,85	38	35,01	24	15	21	-	46
166 224 00	21 AT5/24-2	24	1F	37,00	42	38,20	26	15	21	-	54
166 225 00	21 AT5/25-2	25	1F	38,60	44	39,79	26	15	21	-	58
166 226 00	21 AT5/26-2	26	1F	40,20	44	41,38	26	15	21	-	62
166 227 00	21 AT5/27-2	27	1F	41,80	48	42,97	30	15	21	8	64
166 228 00	21 AT5/28-2	28	1F	43,35	48	44,56	32	15	21	8	71
166 230 00	21 AT5/30-2	30	1F	46,55	51	47,75	34	15	21	8	75
166 232 00	21 AT5/32-2	32	1F	49,70	54	50,93	38	15	21	8	88
166 236 00	21 AT5/36-2	36	1F	56,05	64	57,30	38	15	21	8	114
166 240 00	21 AT5/40-2	40	1F	62,45	66	63,66	40	15	21	8	138
166 242 00	21 AT5/42-2	42	1F	65,60	71	66,84	40	15	21	8	180
166 244 00	21 AT5/44-0	44	2	68,80	-	70,03	45	15	21	8	185
166 248 00	21 AT5/48-0	48	2	75,15	-	76,39	50	15	21	8	200
166 260 00	21 AT5/60-0	60	2	94,25	-	95,49	65	15	21	8	307

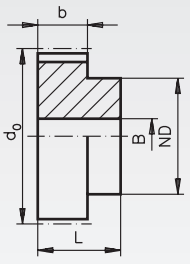
Profile AT 5, Timing Belt Width 16 mm

Product No. Timing Belt Width 16 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
166 312 00	27 AT5/12-2	12	1F	17,85	23	19,10	10	21	27	-	22
166 314 00	27 AT5/14-2	14	1F	21,05	25	22,28	13	21	27	-	26
166 315 00	27 AT5/15-2	15	1F	22,65	28	23,87	16	21	27	-	29
166 316 00	27 AT5/16-2	16	1F	24,20	32	25,46	18	21	27	-	35
166 318 00	27 AT5/18-2	18	1F	27,40	32	28,65	20	21	27	-	43
166 319 00	27 AT5/19-2	19	1F	29,00	36	30,24	22	21	27	-	49
166 320 00	27 AT5/20-2	20	1F	30,60	36	31,88	23	21	27	-	53
166 322 00	27 AT5/22-2	22	1F	33,85	38	35,01	24	21	27	-	54
166 324 00	27 AT5/24-2	24	1F	37,00	42	38,20	26	21	27	-	76
166 325 00	27 AT5/25-2	25	1F	38,60	44	39,79	26	21	27	-	81
166 326 00	27 AT5/26-2	26	1F	40,20	44	41,38	26	21	27	-	85
166 327 00	27 AT5/27-2	27	1F	41,80	48	42,97	30	21	27	8	90
166 328 00	27 AT5/28-2	28	1F	43,35	48	44,56	32	21	27	8	92
166 330 00	27 AT5/30-2	30	1F	46,55	51	47,75	34	21	27	8	105
166 332 00	27 AT5/32-2	32	1F	49,70	54	50,93	38	21	27	8	123
166 336 00	27 AT5/36-2	36	1F	56,05	64	57,30	38	21	27	8	160
166 340 00	27 AT5/40-2	40	1F	62,45	66	63,66	40	21	27	8	193
166 342 00	27 AT5/42-2	42	1F	65,60	71	66,84	40	21	27	8	205
166 344 00	27 AT5/44-0	44	2	68,80	-	70,03	45	21	27	8	228
166 348 00	27 AT5/48-0	48	2	75,15	-	76,39	50	21	27	8	280
166 360 00	27 AT5/60-0	60	2	94,25	-	95,49	65	21	27	8	430

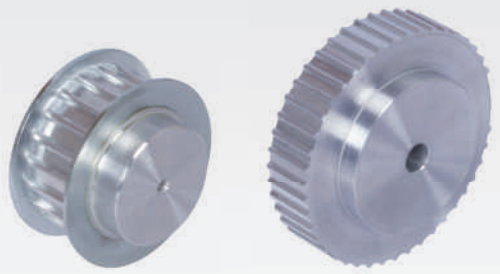
AT Pulleys, Pitch 5 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 166 412 00, Pulley, Pitch AT5, 12 Teeth, Timing Belt Width 25 mm

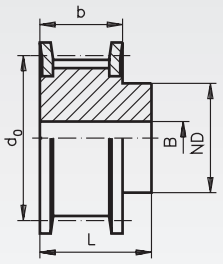
Profile AT 5, Timing Belt Width 25 mm

Product No. Timing Belt Width 25 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
166 412 00	36 AT5/12-2	12	1F	17,85	23	19,10	10	30	36	-	30
166 414 00	36 AT5/14-2	14	1F	21,05	25	22,28	13	30	36	-	40
166 415 00	36 AT5/15-2	15	1F	22,65	28	23,87	16	30	36	-	40
166 416 00	36 AT5/16-2	16	1F	24,20	32	25,46	18	30	36	-	50
166 418 00	36 AT5/18-2	18	1F	27,40	32	28,65	20	30	36	-	60
166 419 00	36 AT5/19-2	19	1F	29,00	36	30,24	22	30	36	-	70
166 420 00	36 AT5/20-2	20	1F	30,60	36	31,88	23	30	36	-	80
166 422 00	36 AT5/22-2	22	1F	33,85	38	35,01	24	30	36	-	80
166 424 00	36 AT5/24-2	24	1F	37,00	42	38,20	26	30	36	8	110
166 425 00	36 AT5/25-2	25	1F	38,60	44	39,79	26	30	36	8	120
166 426 00	36 AT5/26-2	26	1F	40,20	44	41,38	26	30	36	8	120
166 427 00	36 AT5/27-2	27	1F	41,80	48	42,97	30	30	36	8	130
166 428 00	36 AT5/28-2	28	1F	43,35	48	44,56	32	30	36	8	140
166 430 00	36 AT5/30-2	30	1F	46,55	51	47,75	34	30	36	8	150
166 432 00	36 AT5/32-2	32	1F	49,70	54	50,93	38	30	36	8	180
166 436 00	36 AT5/36-2	36	1F	56,05	64	57,30	38	30	36	8	230
166 440 00	36 AT5/40-2	40	1F	62,45	66	63,66	40	30	36	8	280
166 442 00	36 AT5/42-2	42	1F	65,60	71	66,84	40	30	36	8	290
166 444 00	36 AT5/44-0	44	2	68,80	-	70,03	45	30	36	8	310
166 448 00	36 AT5/48-0	48	2	75,15	-	76,39	50	30	36	8	400
166 460 00	36 AT5/60-0	60	2	94,25	-	95,49	65	30	36	8	610

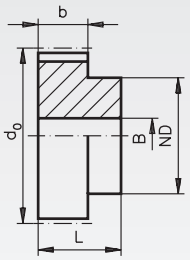
Profile AT 5, Timing Belt Width 32 mm

Product No. Timing Belt Width 32 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
166 512 00	46 AT5/12-2	12	1F	17,85	23	19,10	10	40	46	-	42
166 514 00	46 AT5/14-2	14	1F	21,05	25	22,28	13	40	46	-	49
166 515 00	46 AT5/15-2	15	1F	22,65	28	23,87	16	40	46	-	55
166 516 00	46 AT5/16-2	16	1F	24,20	32	25,46	18	40	46	-	66
166 518 00	46 AT5/18-2	18	1F	27,40	32	28,65	20	40	46	-	81
166 519 00	46 AT5/19-2	19	1F	29,00	36	30,24	22	40	46	-	93
166 520 00	46 AT5/20-2	20	1F	30,60	36	31,88	23	40	46	-	100
166 522 00	46 AT5/22-2	22	1F	33,85	38	35,01	24	40	46	-	102
166 524 00	46 AT5/24-2	24	1F	37,00	42	38,20	26	40	46	8	144
166 525 00	46 AT5/25-2	25	1F	38,60	44	39,79	26	40	46	8	153
166 526 00	46 AT5/26-2	26	1F	40,20	44	41,38	26	40	46	8	161
166 527 00	46 AT5/27-2	27	1F	41,80	48	42,97	30	40	46	8	170
166 528 00	46 AT5/28-2	28	1F	43,35	48	44,56	32	40	46	8	174
166 530 00	46 AT5/30-2	30	1F	46,55	51	47,75	34	40	46	8	198
166 532 00	46 AT5/32-2	32	1F	49,70	54	50,93	38	40	46	8	232
166 536 00	46 AT5/36-2	36	1F	56,05	64	57,30	38	40	46	8	302
166 540 00	46 AT5/40-2	40	1F	62,45	66	63,66	40	40	46	8	365
166 542 00	46 AT5/42-2	42	1F	65,60	71	66,84	40	40	46	8	387
166 544 00	46 AT5/44-0	44	2	68,80	-	70,03	45	40	46	8	431
166 548 00	46 AT5/48-0	48	2	75,15	-	76,39	50	40	46	8	529
166 560 00	46 AT5/60-0	60	2	94,25	-	95,49	65	40	46	8	813

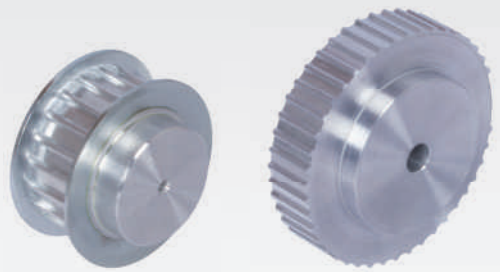
AT Pulleys, Pitch 10 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 168 215 00, Pulley, Pitch AT 10, 15 Teeth, Timing Belt Width 16 mm

Profile AT 10, Timing Belt Width 16 mm

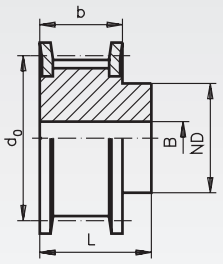
Product No. Timing Belt Width 16 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
168 215 00	31 AT10/15-2	15	1F	45,90	51	47,75	32	21	31	8	116
168 216 00	31 AT10/16-2	16	1F	49,05	54	50,93	35	21	31	8	134
168 218 00	31 AT10/18-2	18	1F	55,45	60	57,30	40	21	31	8	167
168 219 00	31 AT10/19-2	19	1F	58,60	66	60,48	44	21	31	8	184
168 220 00	31 AT10/20-2	20	1F	61,80	66	63,66	46	21	31	8	208
168 222 00	31 AT10/22-2	22	1F	68,15	75	70,03	52	21	31	8	253
168 224 00	31 AT10/24-2	24	1F	74,55	83	76,39	58	21	31	8	288
168 225 00	31 AT10/25-2	25	1F	77,70	83	79,58	60	21	31	8	310
168 226 00	31 AT10/26-2	26	1F	80,90	87	82,76	60	21	31	8	357
168 227 00	31 AT10/27-2	27	1F	84,10	91	85,94	60	21	31	8	364
168 228 00	31 AT10/28-2	28	1F	87,25	93	89,13	60	21	31	8	401
168 230 00	31 AT10/30-2	30	1F	93,65	97	95,49	60	21	31	8	441
168 232 00	31 AT10/32-2	32	1F	100,00	106	101,86	65	21	31	10	493
168 236 00	31 AT10/36-2	36	1F	112,75	119	114,59	70	21	31	10	623
168 240 00	31 AT10/40-2	40	1F	125,45	131	127,32	80	21	31	10	767
168 244 00	31 AT10/44-0	44	2	138,20		140,06	88	21	31	10	993
168 248 00	31 AT10/48-0	48	2	150,95	-	152,79	95	21	31	16	1090
168 260 00	31 AT10/60-0	60	2	189,10	-	190,99	110	21	31	16	1701

Profile AT 10, Timing Belt Width 25 mm

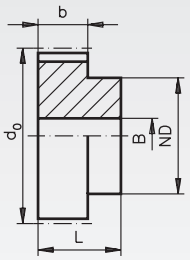
Product No. Timing Belt Width 25 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
168 315 00	40 AT10/15-2	15	1F	45,90	51	47,75	32	30	40	8	152
168 316 00	40 AT10/16-2	16	1F	49,05	54	50,93	35	30	40	8	176
168 318 00	40 AT10/18-2	18	1F	55,45	60	57,30	40	30	40	8	224
168 319 00	40 AT10/19-2	19	1F	58,60	66	60,48	44	30	40	8	247
168 320 00	40 AT10/20-2	20	1F	61,80	66	63,66	46	30	40	8	276
168 322 00	40 AT10/22-2	22	1F	68,15	75	70,03	52	30	40	8	337
168 324 00	40 AT10/24-2	24	1F	74,55	83	76,39	58	30	40	8	392
168 325 00	40 AT10/25-2	25	1F	77,70	83	79,58	60	30	40	8	422
168 326 00	40 AT10/26-2	26	1F	80,90	87	82,76	60	30	40	8	477
168 327 00	40 AT10/27-2	27	1F	84,10	91	85,94	60	30	40	8	536
168 328 00	40 AT10/28-2	28	1F	87,25	93	89,13	60	30	40	8	540
168 330 00	40 AT10/30-2	30	1F	93,65	97	95,49	60	30	40	8	640
168 332 00	40 AT10/32-2	32	1F	100,00	106	101,86	65	30	40	10	693
168 336 00	40 AT10/36-2	36	1F	112,75	119	114,59	70	30	40	10	873
168 340 00	40 AT10/40-2	40	1F	125,45	131	127,32	80	30	40	10	1067
168 344 00	40 AT10/44-0	44	2	138,20	-	140,06	88	30	40	10	1350
168 348 00	40 AT10/48-0	48	2	150,95	-	152,79	95	30	40	16	1516
168 360 00	40 AT10/60-0	60	2	189,10	-	190,99	110	30	40	16	2339

Reworking within 24h-service possible. Custom made parts on request.

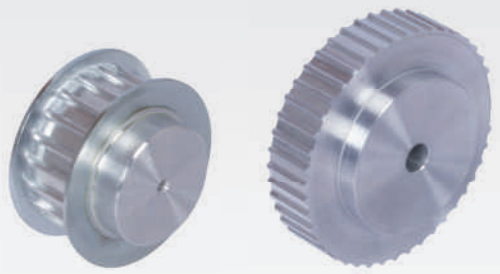
AT Pulleys, Pitch 10 mm Made from Aluminium



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006. Flanges zinc-plated steel.

Ordering Details: e.g.: Product No. 168 418 00, Pulley, Pitch AT 10, 18 Teeth, Timing Belt Width 32 mm

Profile AT 10, Timing Belt Width 32 mm

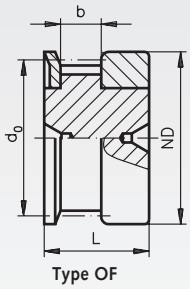
Product No. Timing Belt Width 32 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
168 418 00	47 AT10/18-2	18	1F	55,45	60	57,30	40	37	47	10	250
168 419 00	47 AT10/19-2	19	1F	58,60	66	60,48	44	37	47	10	290
168 420 00	47 AT10/20-2	20	1F	61,80	66	63,66	46	37	47	12	320
168 422 00	47 AT10/22-2	22	1F	68,15	75	70,03	52	37	47	12	390
168 424 00	47 AT10/24-2	24	1F	74,55	83	76,39	58	37	47	12	470
168 425 00	47 AT10/25-2	25	1F	77,70	83	79,58	60	37	47	12	530
168 426 00	47 AT10/26-2	26	1F	80,90	87	82,76	60	37	47	12	560
168 427 00	47 AT10/27-2	27	1F	84,10	91	85,94	60	37	47	12	600
168 428 00	47 AT10/28-2	28	1F	87,25	93	89,13	60	37	47	12	640
168 430 00	47 AT10/30-2	30	1F	93,65	97	95,49	60	37	47	12	740
168 432 00	47 AT10/32-2	32	1F	100,00	106	101,86	65	37	47	12	840
168 436 00	47 AT10/36-2	36	1F	112,75	119	114,59	70	37	47	16	1060
168 440 00	47 AT10/40-2	40	1F	125,45	131	127,32	80	37	47	16	1320
168 444 00	47 AT10/44-0	44	2	138,20	-	140,06	88	37	47	16	1610
168 448 00	47 AT10/48-0	48	2	150,95	-	152,79	95	37	47	16	1930
168 460 00	47 AT10/60-0	60	2	189,10	-	190,99	110	37	47	16	3000

Profile AT 10, Timing Belt Width 50 mm

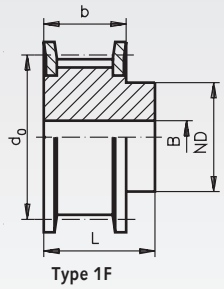
Product No. Timing Belt Width 50 mm	Type	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Weight g
168 518 00	66 AT10/18-2	18	1F	55,45	60	57,30	40	56	66	10	420
168 519 00	66 AT10/19-2	19	1F	58,60	66	60,48	44	56	66	10	470
168 520 00	66 AT10/20-2	20	1F	61,80	66	63,66	46	56	66	12	520
168 522 00	66 AT10/22-2	22	1F	68,15	75	70,03	52	56	66	12	570
168 524 00	66 AT10/24-2	24	1F	74,55	83	76,39	58	56	66	12	740
168 525 00	66 AT10/25-2	25	1F	77,70	83	79,58	60	56	66	12	770
168 526 00	66 AT10/26-2	26	1F	80,90	87	82,76	60	56	66	12	820
168 527 00	66 AT10/27-2	27	1F	84,10	91	85,94	60	56	66	12	950
168 528 00	66 AT10/28-2	28	1F	87,25	93	89,13	60	56	66	12	960
168 530 00	66 AT10/30-2	30	1F	93,65	97	95,49	60	56	66	12	1170
168 532 00	66 AT10/32-2	32	1F	100,00	106	101,86	65	56	66	12	1300
168 536 00	66 AT10/36-2	36	1F	112,75	119	114,59	70	56	66	16	1640
168 540 00	66 AT10/40-2	40	1F	125,45	131	127,32	80	56	66	16	2000
168 544 00	66 AT10/44-0	44	2	138,20	-	140,06	88	56	66	16	2360
168 548 00	66 AT10/48-0	48	2	150,95	-	152,79	95	56	66	16	2830
168 560 00	66 AT10/60-0	60	2	189,10	-	190,99	110	56	66	16	4370

Reworking within 24h-service possible. Custom made parts on request.

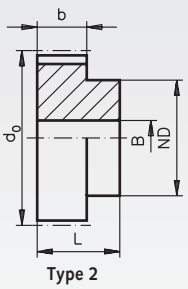
HTD Pulleys Profile 3M



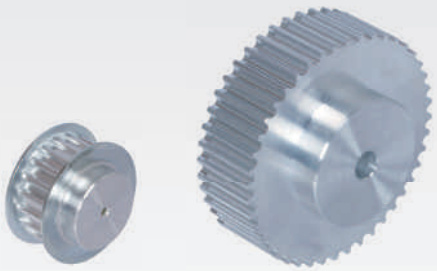
Type OF



Type 1F



Type 2



Material: Aluminium 6082-T6, UNI 9006.
Flanges zinc-plated steel.

The functionality of a V-belt drive is largely influenced by the quality of the used pulley.
HTD pulleys are precision components, manufactured pitch-true with special cutters. This leads to a precise meshing of teeth.

Ordering Details: e.g.: Product No. 170 210 00, Pulleys, Pitch 3 mm, 10 Teeth, Timing Belt Width 9 mm

Profile 3M, Timing Belt Width 9 mm

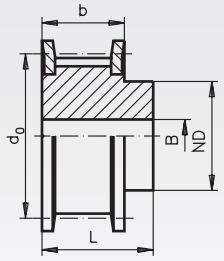
Product No. Timing Belt Width 9 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
170 210 00	10	0F	8,79	13,0	9,55	12,0	10,2	17,5	-	3,5	3,6
170 212 00	12	0F	10,70	15,0	11,46	15,0	10,2	17,5	-	5,0	5,2
170 214 00	14	0F	12,61	16,0	13,37	16,0	10,2	17,5	-	6,0	6,6
170 215 00	15	0F	13,56	18,0	14,32	17,5	10,2	17,5	-	7,0	7,7
170 216 00	16	1F	14,52	18,0	15,28	10,0	12,8	20,6	4	5,5	6,6
170 218 00	18	1F	16,43	19,5	17,19	11,0	12,8	20,6	6	6,5	7,7
170 220 00	20	1F	18,34	23,0	19,10	13,0	12,8	20,6	6	8,0	10,4
170 221 00	21	1F	19,29	25,0	20,05	14,0	12,8	20,6	6	9,0	12,5
170 222 00	22	1F	20,25	25,0	21,01	14,0	12,8	20,6	6	9,0	14
170 224 00	24	1F	22,16	25,0	22,92	14,0	12,8	20,6	6	9,0	15
170 226 00	26	1F	24,07	28,0	24,83	16,0	12,8	20,6	6	10,0	18,6
170 228 00	28	1F	25,98	32,0	26,74	18,0	12,8	20,6	6	11,0	23
170 230 00	30	1F	27,89	32,0	28,65	20,0	12,8	20,6	6	12,5	27
170 232 00	32	1F	29,80	36,0	30,56	22,0	12,8	20,6	6	13,5	32
170 236 00	36	1F	33,62	38,0	34,38	26,0	13,4	22,2	6	15,0	44,2
170 240 00	40	1F	37,44	42,0	38,20	28,0	13,4	22,2	6	16,5	53
170 244 00	44	1F	41,26	48,0	42,02	33,0	13,4	22,2	6	20,0	66
170 248 00	48	2	45,08	-	45,84	33,0	13,4	22,2	8	20,0	72
170 260 00	60	2	56,54	-	57,30	33,0	13,4	22,2	8	20,0	105
170 272 00	72	2	67,99	-	68,75	33,0	13,4	22,2	8	20,0	146

Timing belt width 6 mm available on request.

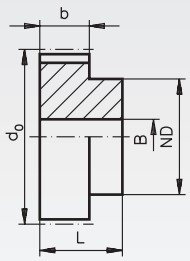
Profile 3M, Timing Belt Width 15 mm

Product No. Timing Belt Width 15 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
170 310 00	10	0F	8,79	13,0	9,55	12,0	17,0	26	-	3,5	5
170 312 00	12	0F	10,70	15,0	11,46	15,0	17,0	26	-	5,0	7,4
170 314 00	14	0F	12,61	16,0	13,37	16,0	17,0	26	-	6,0	9,4
170 315 00	15	0F	13,56	18,0	14,32	17,5	17,0	26	-	7,0	11
170 316 00	16	1F	14,52	18,0	15,28	10,0	19,5	26	4	5,5	8,5
170 318 00	18	1F	16,43	19,5	17,19	11,0	19,5	26	6	6,5	10,2
170 320 00	20	1F	18,34	23,0	19,10	13,0	19,5	26	6	8,0	13,8
170 321 00	21	1F	19,29	25,0	20,05	14,0	19,5	26	6	9,0	16,2
170 322 00	22	1F	20,25	25,0	21,01	14,0	19,5	26	6	9,0	17,2
170 324 00	24	1F	22,16	25,0	22,92	14,0	19,5	26	6	9,0	20
170 326 00	26	1F	24,07	28,0	24,83	16,0	19,5	26	6	10,0	25
170 328 00	28	1F	25,98	32,0	26,74	18,0	19,5	26	6	11,0	31
170 330 00	30	1F	27,89	32,0	28,65	20,0	19,5	26	6	12,5	35
170 332 00	32	1F	29,80	36,0	30,56	22,0	19,5	26	6	13,5	41
170 336 00	36	1F	33,62	38,0	34,38	26,0	20,0	30	6	15,0	60
170 340 00	40	1F	37,44	42,0	38,20	28,0	20,0	30	6	16,5	72
170 344 00	44	1F	41,26	48,0	42,02	33,0	20,0	30	6	20,0	95
170 348 00	48	2	45,08	-	45,84	33,0	20,0	30	8	20,0	101
170 360 00	60	2	56,54	-	57,30	33,0	20,0	30	8	20,0	151
170 372 00	72	2	67,99	-	68,75	33,0	20,0	30	8	20,0	212

HTD Pulleys Profile 5M



Type 1F



Type 2

Material: Up to a Teeth Number of 40 phosphated steel, from a Teeth Number of 44 aluminium.

The functionality of a V-belt drive is largely influenced by the quality of the used pulley.
HTD pulleys are precision components, manufactured pitch-true with special cutters. This leads to a precise meshing of teeth.

Ordering Details: e.g.: Product No. 172 212 00, Pulleys, Pitch 5 mm, 12 Teeth, Timing Belt Width 9 mm

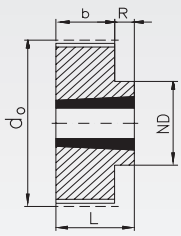
Profile 5M, Timing Belt Width 9 mm

Product No. Timing Belt Width 9 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
172 212 00	12	1F	17,96	23	19,10	12,5	14,5	20,0	6	8,0	27
172 214 00	14	1F	21,14	25	22,28	13,5	14,5	20,0	6	9,0	34
172 215 00	15	1F	22,73	28	23,87	16,0	14,5	20,0	6	10,0	44
172 216 00	16	1F	24,32	28	25,46	16,5	14,5	20,0	6	10,5	49
172 218 00	18	1F	27,51	32	28,65	20,0	14,5	20,0	6	12,5	69
172 220 00	20	1F	30,69	36	31,83	23,0	14,5	22,5	6	13,5	96
172 221 00	21	1F	32,28	38	33,42	24,0	14,5	22,5	6	14,0	108
172 222 00	22	1F	33,87	38	35,01	25,5	14,5	22,5	6	15,0	118
172 224 00	24	1F	37,06	42	38,20	27,0	14,5	22,5	6	16,0	142
172 226 00	26	1F	40,24	44	41,38	30,0	14,5	22,5	6	18,0	168
172 228 00	28	1F	43,42	48	44,56	30,5	14,5	22,5	6	18,0	192
172 230 00	30	1F	46,60	51	47,75	35,0	14,5	22,5	6	21,0	232
172 232 00	32	1F	49,79	54	50,93	38,0	14,5	22,5	8	23,0	267
172 236 00	36	1F	56,16	60	57,30	38,0	14,5	22,5	8	23,0	325
172 240 00	40	1F	62,52	71	63,66	38,0	14,5	22,5	8	23,0	396
172 244 00	44	2	68,89	-	70,03	38,0	14,5	25,5	8	23,0	142
172 248 00	48	2	75,25	-	76,39	45,0	14,5	25,5	8	28,0	179
172 260 00	60	2	94,35	-	95,49	45,0	14,5	25,5	8	28,0	227
172 272 00	72	2	113,45	-	114,59	45,0	14,5	25,5	8	28,0	281

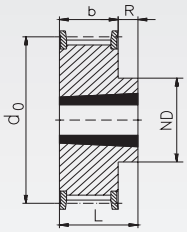
Profile 5M, Timing Belt Width 15 mm

Product No. Timing Belt Width 15 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
172 312 00	12	1F	17,96	23	19,10	12,5	20,5	26	6	8,0	37
172 314 00	14	1F	21,14	25	22,28	13,5	20,5	26	6	9,0	46
172 315 00	15	1F	22,73	28	23,87	16,0	20,5	26	6	10,0	60
172 316 00	16	1F	24,32	28	25,46	16,5	20,5	26	6	10,5	64
172 318 00	18	1F	27,51	32	28,65	20,0	20,5	26	6	12,5	89
172 320 00	20	1F	30,69	36	31,83	23,0	20,5	26	6	13,5	118
172 321 00	21	1F	32,28	38	33,42	24,0	20,5	26	6	14,0	130
172 322 00	22	1F	33,87	38	35,01	25,5	20,5	26	6	15,0	144
172 324 00	24	1F	37,06	42	38,20	27,0	20,5	28	6	16,0	181
172 326 00	26	1F	40,24	44	41,38	30,0	20,5	28	6	18,0	215
172 328 00	28	1F	43,42	48	44,56	30,5	20,5	28	6	18,0	252
172 330 00	30	1F	46,60	51	47,75	35,0	20,5	28	6	21,0	298
172 332 00	32	1F	49,79	54	50,93	38,0	20,5	28	8	23,0	344
172 336 00	36	1F	56,16	60	57,30	38,0	20,5	28	8	23,0	420
172 340 00	40	1F	62,52	71	63,66	38,0	20,5	28	8	23,0	467
172 344 00	44	2	68,89	-	70,03	38,0	20,5	30	8	23,0	182
172 348 00	48	2	75,25	-	76,39	38,0	20,5	30	8	23,0	198
172 360 00	60	2	94,35	-	95,49	50,0	20,5	30	8	30,0	312
172 372 00	72	2	113,45	-	114,59	50,0	20,5	30	8	30,0	387

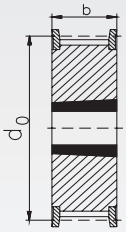
HTD Pulleys, Profile 5M for Taper Bushes



Type 10



Type 10F



Type 15F

Material: Steel, phosphated.

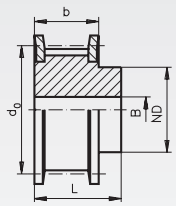
Taper bushes see page 158.

Ordering Details: e.g.: Product No. 172 773 34, Taper Pulley, Pitch 5 mm, 12 Teeth, Timing Belt Width 15 mm

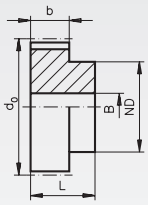
Profile 5M, Timing Belt Width 15 mm

Product No. 15 mm	Number of teeth	Type	d_0 mm	Outside-Ø Pulley mm	Outside-Ø Flange mm	ND mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore-Ø min. mm	Bore-Ø max. mm	Weight g
172 773 34	34	15F	54,11	52,97	57	-	22	22	-	1008	10	25	200
172 773 36	36	15F	57,30	56,15	60	-	22	22	-	1108	10	28	250
172 773 38	38	15F	60,48	59,34	66	-	22	22	-	1108	10	28	300
172 773 40	40	15F	63,66	62,52	71	-	22	22	-	1108	10	28	350
172 773 44	44	15F	70,03	68,89	75	-	22	22	-	1108	10	28	400
172 773 48	48	10F	76,39	75,25	83	59	22	25	3	1210	10	32	460
172 773 56	56	10F	89,13	87,99	93	70	22	25	3	1210	10	32	600
172 773 64	64	10F	101,86	100,72	106	80	22	25	3	1210	10	32	800
172 773 72	72	10	114,59	113,45-	-	92	22	25	3	1610	12	42	1200
172 773 80	80	10	127,32	126,18-	-	92	22	25	3	1610	12	42	1760
172 773 90	90	10	143,24	142,10-	-	92	22	25	3	1610	12	42	2320

HTD Pulleys Profile 5M



Type 1F



Type 2

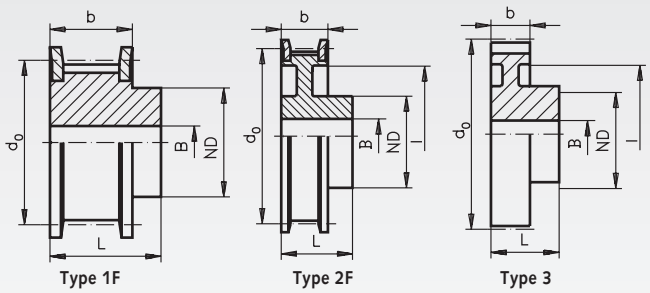
Material: Up to a Teeth Number of 72 steel, phosphated.
From a Teeth Number of 44 aluminium.

Ordering Details: e.g.: Product No. 172 412 00, Pulleys, Pitch 5 mm, 12 Teeth, Timing Belt Width 25 mm

Profile 5M, Timing Belt Width 25 mm

Product No. Timing Belt Width 25 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
172 412 00	12	1F	17,96	23	19,10	12,5	30,5	36	6	8,0	50
172 414 00	14	1F	21,14	25	22,28	13,5	30,5	36	6	9,0	80
172 415 00	15	1F	22,73	28	23,87	16,0	30,5	36	6	10,0	90
172 416 00	16	1F	24,32	28	25,46	16,5	30,5	36	6	10,5	110
172 418 00	18	1F	27,51	32	28,65	20,0	30,5	36	6	12,5	130
172 420 00	20	1F	30,69	36	31,83	23,0	30,5	36	6	13,5	170
172 421 00	21	1F	32,28	38	33,42	24,0	30,5	38	6	14,0	200
172 422 00	22	1F	33,87	38	35,01	25,5	30,5	38	6	15,0	220
172 424 00	24	1F	37,06	42	38,20	27,0	30,5	38	6	16,0	260
172 426 00	26	1F	40,24	44	41,38	30,0	30,5	38	6	18,0	320
172 428 00	28	1F	43,42	48	44,56	30,5	30,5	38	6	18,0	370
172 430 00	30	1F	46,60	51	47,75	35,0	30,5	38	6	21,0	440
172 432 00	32	1F	49,79	54	50,93	38,0	30,5	38	8	23,0	480
172 436 00	36	1F	56,16	60	57,30	38,0	30,5	38	8	23,0	590
172 440 00	40	1F	62,52	71	63,66	38,0	30,5	38	8	23,0	750
172 444 00	44	2	68,89	-	70,03	38,0	30,5	40	8	23,0	310
172 448 00	48	2	75,25	-	76,39	38,0	30,5	40	8	23,0	370
172 460 00	60	2	94,35	-	95,49	50,0	30,5	40	8	30,0	600
172 472 00	72	2	113,45	-	114,59	50,0	30,5	40	8	30,0	850

HTD Pulleys Profile 8M



Type 1F | Type 2F | Type 3

Material: Up to a Teeth Number of 72 phosphated steel, from a Teeth Number of 80 phosphated grey cast iron GG20.

The functionality of a V-belt drive is largely influenced by the quality of the used pulley.
HTD pulleys are precision components, manufactured pitch-true with special cutters. This leads to a precise meshing of teeth.

Ordering Details: e.g.: Product No. 174 111 00, Pulleys, Pitch 8 mm, 22 Teeth, Timing Belt Width 20 mm

Profile 8M, Timing Belt Width 20 mm

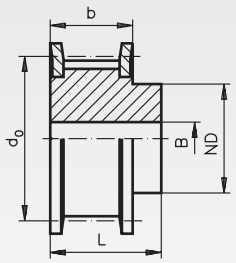
Product No. Timing Belt Width 20 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	l mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
174 111 00	22	1F	54,65	60,0	56,02	43	28	38	-	12	25	535
174 112 00	24	1F	59,75	66,0	61,12	45	28	38	-	12	28	645
174 113 00	26	1F	64,85	71,0	66,21	48	28	38	-	12	30	753
174 114 00	28	1F	70,08	75,0	71,30	50	28	38	-	14	30	859
174 115 00	30	1F	75,13	83,0	76,39	55	28	38	-	14	32	1017
174 116 00	32	1F	80,16	87,0	81,49	60	28	38	-	14	35	1188
174 117 00	34	1F	85,22	91,0	86,58	66	28	38	-	14	42	1358
174 118 00	36	1F	90,30	98,5	91,67	70	28	38	-	14	42	1547
174 119 00	38	1F	95,39	103,0	96,77	75	28	38	-	14	45	1744
174 120 00	40	1F	100,49	106,0	101,86	75	28	38	-	14	45	1902
174 122 00	44	1F	110,67	119,0	112,05	75	28	38	-	14	45	2268
174 124 00	48	1F	120,86	127,0	122,23	75	28	38	-	14	45	2661
174 128 00	56	2F	141,23	148,0	142,60	80	28	38	116	14	45	2853
174 132 00	64	2F	161,60	168,0	162,97	80	28	38	137	14	45	3282
174 136 00	72	2F	181,97	192,0	183,35	80	28	38	158	14	45	3824
174 140 00	80	3	202,35	-	203,72	90	28	38	180	14	50	4317
174 145 00	90	3	227,81	-	229,18	90	28	38	204	14	50	5041

Profile 8M, Timing Belt Width 30 mm

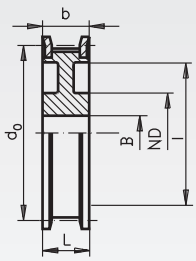
Product No. Timing Belt Width 30 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	l mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
174 211 00	22	1F	54,65	60,0	56,02	43	38	48	-	12	25	683
174 212 00	24	1F	59,75	66,0	61,12	45	38	48	-	12	28	827
174 213 00	26	1F	64,85	71,0	66,21	50	38	48	-	12	30	979
174 214 00	28	1F	70,08	75,0	71,30	50	38	48	-	14	30	1112
174 215 00	30	1F	75,13	83,0	76,39	55	38	48	-	14	32	1314
174 216 00	32	1F	80,16	87,0	81,49	60	38	48	-	14	35	1521
174 217 00	34	1F	85,22	91,0	86,58	66	38	48	-	14	42	1742
174 218 00	36	1F	90,30	98,5	91,67	70	38	48	-	14	42	1981
174 219 00	38	1F	95,39	103,0	96,77	75	38	48	-	14	45	2232
174 220 00	40	1F	100,49	106,0	101,86	75	38	48	-	14	45	2472
174 222 00	44	1F	110,67	119,0	112,05	75	38	48	-	14	45	2948
174 224 00	48	1F	120,86	127,0	122,23	75	38	48	-	14	45	3471
174 228 00	56	2F	141,23	148,0	142,60	90	38	48	116	14	50	4005
174 232 00	64	2F	161,60	168,0	162,97	90	38	48	137	14	50	4556
174 236 00	72	2F	181,97	192,0	183,35	95	38	48	158	14	55	5408
174 240 00	80	3	202,35	-	203,72	100	38	48	180	14	60	5712
174 245 00	90	3	227,81	-	229,18	100	38	48	204	14	60	6645

Reworking within 24h-service possible. Custom made parts on request.

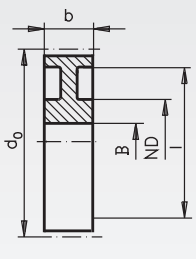
HTD Pulleys Profile 8M



Type 1F



Type 10WF



Type 10W

Material: Steel, phosphated.

The functionality of a V-belt drive is largely influenced by the quality of the used pulley.
HTD pulleys are precision components, manufactured pitch-true with special cutters. This leads to a precise meshing of teeth.

Ordering Details: e.g.: Product No. 174 411 00, Pulleys, Pitch 8 mm, 22 Teeth, Timing Belt Width 50 mm

Profile 8M, Timing Belt Width 50 mm

Product No. Timing Belt Width 50 mm	Number of teeth	Type	Outside Ø Pulley mm	Outside Ø Flange mm	d_0 mm	ND mm	b mm	L mm	l mm	Pilot Hole B mm	Custom Bore B max. mm	Weight g
174 411 00	22	1F	54,65	60,0	56,02	43	60	70	-	12	25	1100
174 412 00	24	1F	59,75	66,0	61,12	45	60	70	-	12	28	1300
174 413 00	26	1F	64,85	71,0	66,21	48	60	70	-	12	30	1600
174 414 00	28	1F	70,08	75,0	71,30	50	60	70	-	14	30	1700
174 415 00	30	1F	75,13	83,0	76,39	55	60	70	-	14	32	2000
174 416 00	32	1F	80,16	87,0	81,49	60	60	70	-	14	35	2350
174 417 00	34	1F	85,22	91,0	86,58	66	60	70	-	14	42	2800
174 418 00	36	1F	90,30	98,5	91,67	70	60	70	-	14	42	3150
174 419 00	38	1F	95,39	103,0	96,77	75	60	70	-	14	45	3300
174 420 00	40	1F	100,49	106,0	101,86	75	60	70	-	14	45	3600
174 422 00	44	1F	110,67	119,0	112,05	75	60	70	-	14	45	4400
174 424 00	48	1F	120,86	127,0	122,23	75	60	70	-	14	45	5000
174 428 00	56	10WF	141,23	148,0	142,60	80	60	60	116	18	50	5680
174 432 00	64	10WF	161,60	168,0	162,97	80	60	60	137	18	50	6930
174 436 00	72	10WF	181,97	192,0	183,35	80	60	60	158	18	55	7950
174 440 00	80	10W	202,35	-	203,72	110	60	-	180	18	80	6900

Timing belt width 85 mm available on request.

Reworking within 24h-service possible. Custom made parts on request.

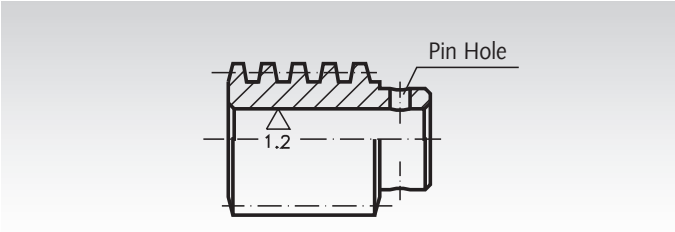
Mounting Options for Drive Wheels

There are several possibilities for mounting driving wheels (sprockets, V-Belt Pulleys, pulleys, spur gears etc.) or hubs on shafts. Most wheels are stocked with a rather small bore to allow for further machining. Machining works as drilling out, keywaying a.s.o. can be done at extra charge.

Please note: for several shaft diameters a number of sprockets, V-belt pulleys, spur gears and worm-gear sets are in stock "ready-to-install", i.e. with custom bore and keyway or prepared for Taper clamping bushes.

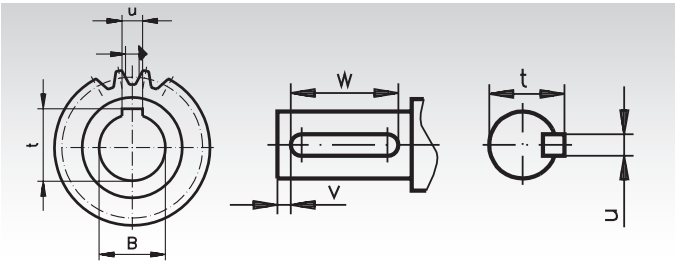
Fixing Pins

A hole is drilled through hub and shaft and both parts are then connected with a fixing pin. Usually only one side of the hub is pre-drilled, then the wheel is pushed onto the shaft and the hole is drilled through both shaft and the other side of the hub. Then the pin is driven in. This mounting method is suitable for low torques.



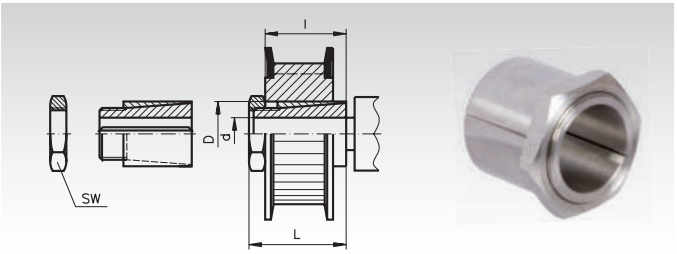
Feather Key Connection

Shaft and hub both receive a keyway, a key is pushed into the keyway of the hub. The wheel is pushed onto the shaft and secured against axial movement (with a set screw or with a stepped shaft and axial screw and washer at the end of the shaft). The most common kind of keyway is DIN 6885/1. Key connections are suitable for medium torques. Keys DIN 6885 see page 578. Boxes with an assortment of keys DIN 6885 see page 577.



Clamping Sets, Clamping Bushes and Shrink Disks

Clamping sets and thin-walled clamping bushes are available for various diameters. They allow fast and easy mounting on round shafts. A keyway is not required. Shrink disks are special clamping sets which press a thin-walled hub onto a shaft. Clamping connections are suitable for rather high torques. **Clamping sets and bushes, and shrink disks** see page 330.

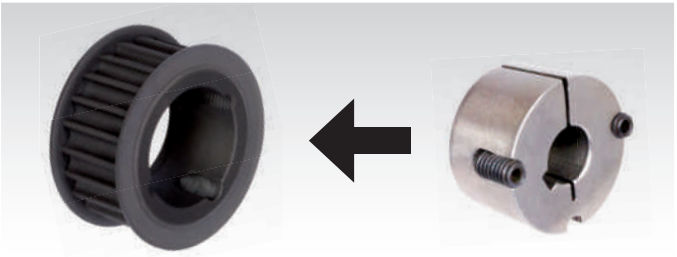


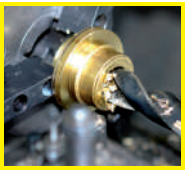
Taper Clamping Bushes

These customary conical bushes are used for easy and fast mounting of driving elements in Taper version. They can be used with and without key.

The bushes are available with various outer dimensions. For every outside measure there are bushes with many different bores available. This mounting method is cost-efficient and fast, and suitable for rather high torques. A large selection of cost-efficient driving elements in Taper version are available ex stock.

Taper clamping bushes see page 360.
Welding hubs for taper bushes see page 362.
Taper sprockets see page 74, 92, 101.
Taper V-belt pulleys see page 183.
Taper pulleys see page 154.
Taper couplings see page 388.



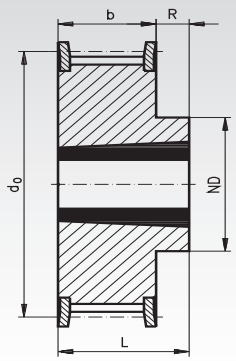


Reworking within 24h-service possible. Custom made parts on request.

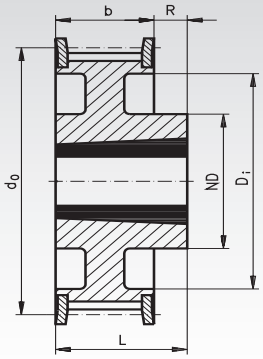
HTD Pulleys, Profile 8M for Taper Bushes

Material: Up to a Teeth Number of 72 phosphated steel, from a Teeth Number of 80 phosphated grey cast iron GG20.

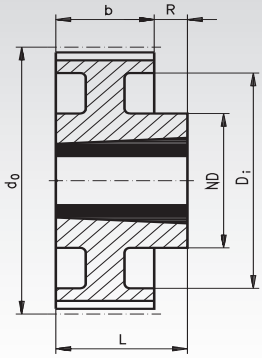
Type 10F



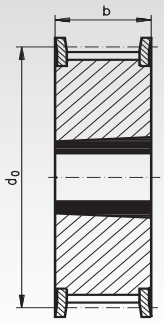
Type 11F



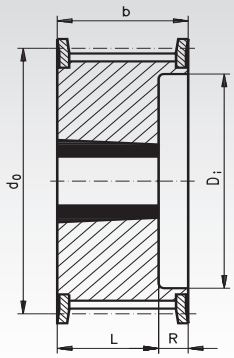
Type 11



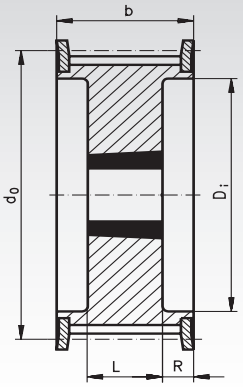
Type 15F



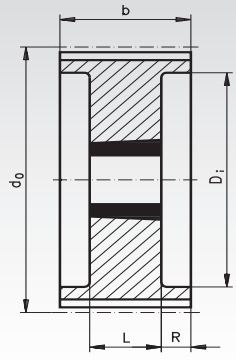
Type 16F



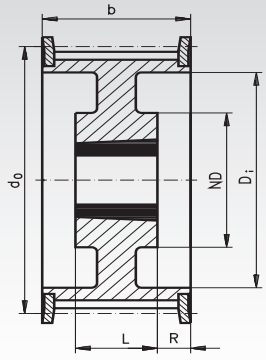
Type 18F



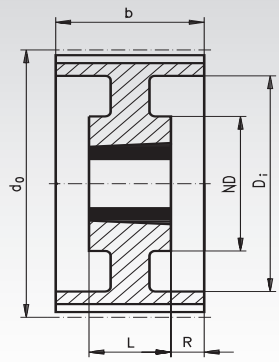
Type 18



Type 19F



Type 19



HTD Pulleys, Profile 8M for Taper Bushes

Material: Up to a Teeth Number of 72 phosphated steel, from a Teeth Number of 80 grey cast iron GG20 phosphated. Drawings see page 154.

Timing Belt Width 20 mm

Ordering Details: e.g.: Product No. 174 771 11, Taper-Pulley, 8M, 22 Teeth for Width 20 mm

Product No. 20mm	Number of teeth	Type	d_0 mm	Outside Ø Pulley mm	Outside Ø Flange mm	ND mm	Di mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore Ø min. mm	Bore Ø max. mm	Weight g
174 771 11	22	16F	56,02	54,65	60	-	37	28	22	6	1008	10	25	250
174 771 12	24	16F	61,11	59,74	66	-	44	28	22	6	1108	10	28	300
174 771 13	26	16F	66,21	64,84	71	-	45	28	22	6	1108	10	28	360
174 771 14	28	16F	71,30	70,08	75	-	50	28	22	6	1108	10	28	450
174 771 15	30	16F	76,39	75,13	83	-	58	28	22	6	1108	10	28	550
174 771 16	32	16F	81,49	80,16	87	-	63	28	25	3	1610	12	42	430
174 771 17	34	16F	86,58	85,21	91	-	64	28	25	3	1610	12	42	570
174 771 18	36	16F	91,67	90,30	98	-	68	28	25	3	1610	12	42	700
174 771 19	38	16F	96,77	95,39	103	-	72	28	25	3	1610	12	42	820
174 771 20	40	16F	101,86	100,49	106	-	76	28	25	3	1610	12	42	1100
174 771 22	44	10F	112,05	110,67	119	92	-	28	32	4	2012	12	50	1200
174 771 24	48	10F	122,23	120,86	127	96	-	28	32	4	2012	12	50	1650
174 771 28	56	10F	142,60	141,23	148	110	-	28	32	4	2012	12	50	2500
174 771 32	64	11F	162,97	161,60	168	110	137	28	32	4	2012	12	50	2600
174 771 36	72	11F	183,35	181,97	192	110	158	28	32	4	2012	12	50	3400
174 771 40	80	11	203,72	202,35	-	110	180	28	32	4	2012	12	50	3600
174 771 45	90	11	229,18	227,81	-	110	204	28	32	4	2012	12	50	4100

Timing Belt Width 30 mm

Ordering Details: e.g.: Product No. 174 772 11, Taper-Pulley, 8M, 22 Teeth for Width 30 mm

Product No. 30mm	Number of teeth	Type	d_0 mm	Outside Ø Pulley mm	Outside Ø Flange mm	ND mm	Di mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore Ø min. mm	Bore Ø max. mm	Weight g
174 772 11	22	16F	56,02	54,65	60	-	37	38	22	16	1008	10	25	330
174 772 12	24	16F	61,11	59,74	66	-	44	38	22	16	1108	10	28	400
174 772 13	26	16F	66,21	64,84	71	-	44	38	22	16	1108	10	28	450
174 772 14	28	16F	71,30	70,08	75	-	50	38	25	13	1210	10	32	500
174 772 15	30	15F	76,39	75,13	83	-	-	38	38	-	1615	18	42	550
174 772 16	32	15F	81,49	80,16	87	-	-	38	38	-	1615	18	42	600
174 772 17	34	15F	86,58	85,21	91	-	-	38	38	-	1615	18	42	800
174 772 18	36	15F	91,67	90,30	98	-	-	38	38	-	1615	18	42	1000
174 772 19	38	15F	96,77	95,39	103	-	-	38	38	-	1615	18	42	1100
174 772 20	40	15F	101,86	100,49	106	-	-	38	38	-	1615	18	42	1340
174 772 22	44	18F	112,05	110,67	119	-	86	38	32	3	2012	12	50	1300
174 772 24	48	18F	122,23	120,86	127	-	90	38	32	3	2012	12	50	1800
174 772 28	56	18F	142,60	141,23	148	-	110	38	32	3	2012	12	50	3800
174 772 32	64	10F	162,97	161,60	168	125	-	38	45	7	2517	16	65	4300
174 772 36	72	11F	183,35	181,97	192	125	158	38	45	7	2517	16	65	4400
174 772 40	80	11	203,72	202,35	-	125	180	38	45	7	2517	16	65	4650
174 772 45	90	11	229,18	227,81	-	125	204	38	45	7	2517	16	65	5800

Timing Belt Width 50 mm

Ordering Details: e.g.: Product No. 174 774 14, Taper-Pulley, 8M, 28 Teeth for Width 50 mm

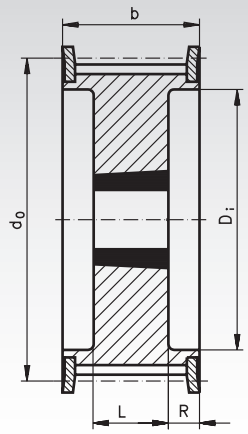
Product No. 50mm	Number of teeth	Type	d_0 mm	Outside Ø Pulley mm	Outside Ø Flange mm	ND mm	Di mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore Ø min. mm	Bore Ø max. mm	Weight g
174 774 14	28	16F	71,30	70,08	75	-	50	60	25	35	1210	10	32	600
174 774 15	30	16F	76,39	75,13	83	-	58	60	38	22	1615	18	42	650
174 774 16	32	16F	81,49	80,16	87	-	63	60	38	22	1615	18	42	800
174 774 17	34	16F	86,58	85,21	91	-	65	60	38	22	1615	18	42	1080
174 774 18	36	16F	91,67	90,30	98	-	68	60	38	22	1615	18	42	1350
174 774 19	38	16F	96,77	95,39	103	-	72	60	38	22	1615	18	42	1650
174 774 20	40	18F	101,86	100,49	106	-	80	60	32	14	2012	12	50	1700
174 774 22	44	18F	112,05	110,67	119	-	86	60	32	14	2012	12	50	1800
174 774 24	48	18F	122,23	120,86	127	-	95	60	32	14	2012	12	50	2350
174 774 28	56	18F	142,60	141,23	148	-	116	60	45	7,5	2517	16	65	3350
174 774 32	64	18F	162,97	161,60	168	-	136	60	45	7,5	2517	16	65	4900
174 774 36	72	19F	183,35	181,97	192	125	158	60	45	7,5	2517	16	65	6900
174 774 40	80	18	203,72	202,35	-	-	180	60	51	4,5	3020	25	75	8900
174 774 45	90	19	229,18	227,81	-	160	204	60	51	4,5	3020	25	75	9900

Matching Taper bushes see page 158.
Mounting instructions see page 824.

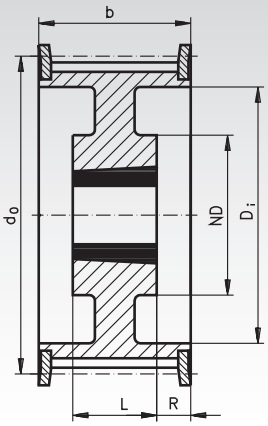
HTD Pulleys, Profile 14M for Taper Bushes

Material: Up to a Teeth Number of 56 phosphated steel, from a Teeth Number of 64 phosphated grey cast iron GG20.

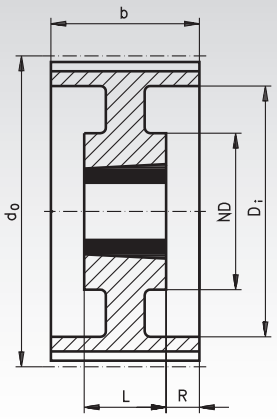
Type 18F



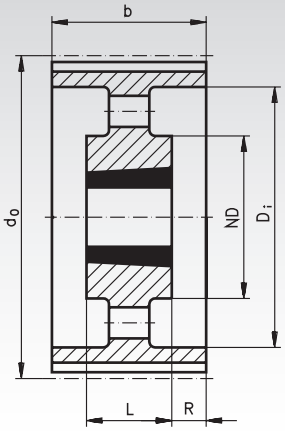
Type 19F



Type 19



Type 20



HTD Pulleys, Profile 14M for Taper Bushes

Material: Up to a Teeth Number of 56 phosphated steel, from a Teeth Number of 64 phosphated grey cast iron GG20. Drawings see page 156.

Timing Belt Width 40 mm

Ordering Details: e.g.: Product No. 176 771 14, Taper-Pulley 14M, 28 Teeth for Width 40 mm

Product No. 40mm	Number of teeth	Type	d_0 mm	Outside Ø Pulley mm	Outside Ø Flange mm	ND mm	Di mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore Ø min. mm	Bore Ø max. mm	Weight kg
176 771 14	28	18F	124,78	122,12	127	-	94	54	32	11	2012	12	50	2,1
176 771 15	30	18F	133,69	130,99	138	-	98	54	32	11	2012	12	50	2,7
176 771 16	32	18F	142,60	139,88	154	-	108	54	32	11	2012	12	50	3,4
176 771 17	34	18F	151,52	148,79	160	-	110	54	45	4,5	2517	16	65	3,9
176 771 18	36	18F	160,43	157,68	168	-	120	54	45	4,5	2517	16	65	4,8
176 771 19	38	18F	169,34	166,60	183	-	130	54	45	4,5	2517	16	65	5,4
176 771 20	40	18F	178,25	175,49	188	-	138	54	45	4,5	2517	16	65	6,0
176 771 22	44	18F	196,08	193,28	211	-	155	54	51	1,5	3020	25	75	7,5
176 771 24	48	18F	213,90	211,11	226	-	170	54	51	1,5	3020	25	75	8,5
176 771 28	56	18F	249,55	246,76	256	-	208	54	51	1,5	3020	25	75	10,1
176 771 36	72	19	320,86	318,06	-	170	280	54	51	1,5	3020	25	75	15,0
176 771 40	80	20	356,51	353,71	-	170	315	54	51	1,5	3020	25	75	16,0
176 771 45	90	20	401,07	398,28	-	170	360	54	51	1,5	3020	25	75	18,0

Timing Belt Width 55 mm

Ordering Details: e.g.: Product No. 176 772 14, Taper-Pulley 14M, 28 Teeth for Width 55 mm

Product No. 55mm	Number of teeth	Type	d_0 mm	Outside Ø Pulley mm	Outside Ø Flange mm	ND mm	Di mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore Ø min. mm	Bore Ø max. mm	Weight kg
176 772 14	28	18F	124,78	122,12	127	-	94	70	32	19	2012	12	50	2,2
176 772 15	30	18F	133,69	130,99	138	-	98	70	45	12,5	2517	16	65	2,7
176 772 16	32	18F	142,60	139,88	154	-	108	70	45	12,5	2517	16	65	3,6
176 772 17	34	18F	151,52	148,79	160	-	110	70	45	12,5	2517	16	65	4,5
176 772 18	36	18F	160,43	157,68	168	-	120	70	45	12,5	2517	16	65	5,2
176 772 19	38	18F	169,34	166,60	183	-	130	70	45	12,5	2517	16	65	6,2
176 772 20	40	18F	178,25	175,49	188	-	138	70	45	12,5	2517	16	65	6,9
176 772 22	44	18F	196,08	193,28	211	-	155	70	51	9,5	3020	25	75	8,6
176 772 24	48	18F	213,90	211,11	226	-	170	70	51	9,5	3020	25	75	10,5
176 772 28	56	18F	249,55	246,76	256	-	208	70	51	9,5	3020	25	75	13,5
176 772 32	64	19F	285,21	282,41	296	170	240	70	51	9,5	3020	25	75	14,5
176 772 36	72	19	320,86	318,06	-	170	280	70	51	9,5	3020	25	75	16,3
176 772 40	80	20	356,51	353,71	-	170	315	70	51	9,5	3020	25	75	17,5
176 772 45	90	20	401,07	398,28	-	170	360	70	51	9,5	3020	25	75	20,0

Timing Belt Width 85 mm

Ordering Details: e.g.: Product No. 176 773 14, Taper-Pulley 14M, 28 Teeth for Width 85 mm

Product No. 85mm	Number of teeth	Type	d_0 mm	Outside Ø Pulley mm	Outside Ø Flange mm	ND mm	Di mm	b mm	L mm	R mm	Taper Bush Type page 158	Bore Ø min. mm	Bore Ø max. mm	Weight kg
176 773 14	28	18F	124,78	122,12	127	-	98	102	45	28,5	2517	16	65	2,7
176 773 15	30	18F	133,69	130,99	138	-	100	102	45	28,5	2517	16	65	3,8
176 773 16	32	18F	142,60	139,88	154	-	108	102	45	28,5	2517	16	65	4,7
176 773 17	34	18F	151,52	148,79	160	-	110	102	45	28,5	2517	16	65	6,0
176 773 18	36	18F	160,43	157,68	168	-	125	102	51	25,5	3020	25	75	5,7
176 773 19	38	18F	169,34	166,60	183	-	130	102	51	25,5	3020	25	75	6,8
176 773 20	40	18F	178,25	175,49	188	-	138	102	51	25,5	3020	25	75	8,0
176 773 22	44	18F	196,08	193,28	211	-	155	102	76	13,0	3030	35	75	11,7
176 773 24	48	18F	213,90	211,11	226	-	170	102	76	13,0	3030	35	75	15,0
176 773 28	56	18F	249,55	246,76	256	-	210	102	65	18,5	3525	35	80	19,0
176 773 32	64	19F	285,21	282,41	296	190	240	102	65	18,5	3525	35	80	23,5
176 773 36	72	19	320,86	318,06	-	190	280	102	65	18,5	3525	35	80	25,0
176 773 40	80	20	356,51	353,71	-	190	315	102	65	18,5	3525	35	80	26,0
176 773 45	90	20	401,07	398,28	-	190	360	102	65	18,5	3525	35	80	28,0

Matching Taper bushes see page 158.
Mounting instructions see page 824.

Taper Bushes

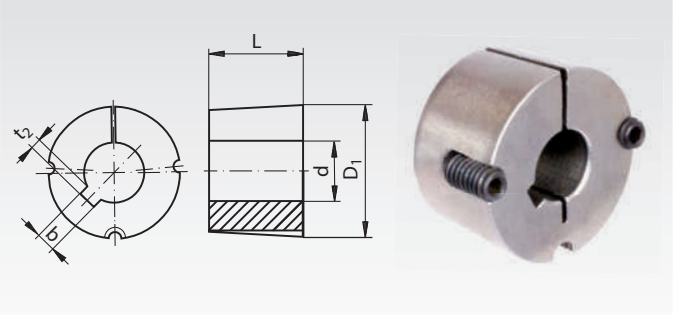
Material: GG20.
Bores ISO E8, feather keyways in accordance with DIN 6885/1.
Screws included in delivery.

Shaft tolerance +0.05/-0.125 mm.
Can be used with or without parallel key, depending on the required torque.

Other bush sizes and bores available at short notice (some in stock).

Assembly instructions see page 824.

Ordering Details: e.g.: Product No. 622 501 10, Taper Bush 1008, 10 mm Bore



Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 501 10	1008	10	3	1,4	22,3	35	160
622 501 11	1008	11	4	1,8	22,3	35	140
622 501 12	1008	12	4	1,8	22,3	35	120
622 501 14	1008	14	5	2,3	22,3	35	118
622 501 15	1008	15	5	2,3	22,3	35	116
622 501 16	1008	16	5	2,3	22,3	35	112
622 501 18	1008	18	6	2,8	22,3	35	100
622 501 19	1008	19	6	2,8	22,3	35	98
622 501 20	1008	20	6	2,8	22,3	35	94
622 501 22	1008	22	6	2,8	22,3	35	80
622 501 24	1008	24	8[1)]	1,3[1)]	22,3	35	70
622 501 25	1008	25	8[1)]	1,3[1)]	22,3	35	68
622 502 10	1108	10	3	1,4	22,3	38	180
622 502 11	1108	11	4	1,8	22,3	38	165
622 502 12	1108	12	4	1,8	22,3	38	154
622 502 14	1108	14	5	2,3	22,3	38	148
622 502 16	1108	16	5	2,3	22,3	38	140
622 502 18	1108	18	6	2,8	22,3	38	132
622 502 19	1108	19	6	2,8	22,3	38	126
622 502 20	1108	20	6	2,8	22,3	38	122
622 502 22	1108	22	6	2,8	22,3	38	112
622 502 24	1108	24	8	3,3	22,3	38	96
622 502 25	1108	25	8	3,3	22,3	38	92
622 502 28	1108	28	8[1)]	1,3[1)]	22,3	38	88
622 503 10	1210	10	3	1,4	25,4	47,5	282
622 503 11	1210	11	4	1,8	25,4	47,5	280
622 503 12	1210	12	4	1,8	25,4	47,5	278
622 503 14	1210	14	5	2,3	25,4	47,5	274
622 503 16	1210	16	5	2,3	25,4	47,5	262
622 503 18	1210	18	6	2,8	25,4	47,5	250
622 503 19	1210	19	6	2,8	25,4	47,5	244
622 503 20	1210	20	6	2,8	25,4	47,5	240
622 503 22	1210	22	6	2,8	25,4	47,5	224
622 503 24	1210	24	8	3,3	25,4	47,5	208
622 503 25	1210	25	8	3,3	25,4	47,5	208
622 503 28	1210	28	8	3,3	25,4	47,5	184
622 503 30	1210	30	8	3,3	25,4	47,5	168
622 503 32	1210	32	10	3,3	25,4	47,5	160
622 513 14	1215	14	5	2,3	38,1	47,5	380
622 513 16	1215	16	5	2,3	38,1	47,5	370
622 513 18	1215	18	6	2,8	38,1	47,5	350
622 513 19	1215	19	6	2,8	38,1	47,5	340
622 513 20	1215	20	6	2,8	38,1	47,5	335
622 513 22	1215	22	6	2,8	38,1	47,5	320
622 513 24	1215	24	8	3,3	38,1	47,5	290
622 513 25	1215	25	8	3,3	38,1	47,5	285
622 513 28	1215	28	8	3,3	38,1	47,5	260
622 513 30	1215	30	8	3,3	38,1	47,5	230
622 513 32	1215	32	10	3,3	38,1	47,5	200

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 504 12	1610	12	4	1,8	25,4	57	416
622 504 14	1610	14	5	2,3	25,4	57	412
622 504 15	1610	15	5	2,3	25,4	57	408
622 504 16	1610	16	5	2,3	25,4	57	402
622 504 18	1610	18	6	2,8	25,4	57	390
622 504 19	1610	19	6	2,8	25,4	57	380
622 504 20	1610	20	6	2,8	25,4	57	373
622 504 22	1610	22	6	2,8	25,4	57	366
622 504 24	1610	24	8	3,3	25,4	57	356
622 504 25	1610	25	8	3,3	25,4	57	348
622 504 28	1610	28	8	3,3	25,4	57	324
622 504 30	1610	30	8	3,3	25,4	57	304
622 504 32	1610	32	10	3,3	25,4	57	280
622 504 35	1610	35	10	3,3	25,4	57	264
622 504 38	1610	38	10	3,3	25,4	57	240
622 504 40	1610	40	12	3,3	25,4	57	210
622 504 42	1610	42	12	3,3	25,4	57	200
622 508 18	1615	18	6	2,8	38,1	57	561
622 508 20	1615	20	6	2,8	38,1	57	552
622 508 22	1615	22	6	2,8	38,1	57	540
622 508 24	1615	24	8	3,3	38,1	57	520
622 508 25	1615	25	8	3,3	38,1	57	510
622 508 30	1615	30	8	3,3	38,1	57	446
622 508 32	1615	32	10	3,3	38,1	57	414
622 508 35	1615	35	10	3,3	38,1	57	380
622 508 38	1615	38	10	3,3	38,1	57	346
622 508 40	1615	40	12	3,3	38,1	57	340
622 508 42	1615	42	12[2)]	2,2[2)]	38,1	57	260
622 505 12	2012	12	4	1,8	31,8	70	810
622 505 14	2012	14	5	2,3	31,8	70	800
622 505 15	2012	15	5	2,3	31,8	70	785
622 505 16	2012	16	5	2,3	31,8	70	770
622 505 18	2012	18	6	2,8	31,8	70	762
622 505 19	2012	19	6	2,8	31,8	70	756
622 505 20	2012	20	6	2,8	31,8	70	750
622 505 22	2012	22	6	2,8	31,8	70	736
622 505 24	2012	24	8	3,3	31,8	70	724
622 505 25	2012	25	8	3,3	31,8	70	714
622 505 28	2012	28	8	3,3	31,8	70	684
622 505 30	2012	30	8	3,3	31,8	70	658
622 505 32	2012	32	10	3,3	31,8	70	630
622 505 35	2012	35	10	3,3	31,8	70	604
622 505 38	2012	38	10	3,3	31,8	70	566
622 505 40	2012	40	12	3,3	31,8	70	538
622 505 42	2012	42	12	3,3	31,8	70	510
622 505 45	2012	45	14	3,8	31,8	70	460
622 505 48	2012	48	14	3,8	31,8	70	404
622 505 50	2012	50	14	3,8	31,8	70	372

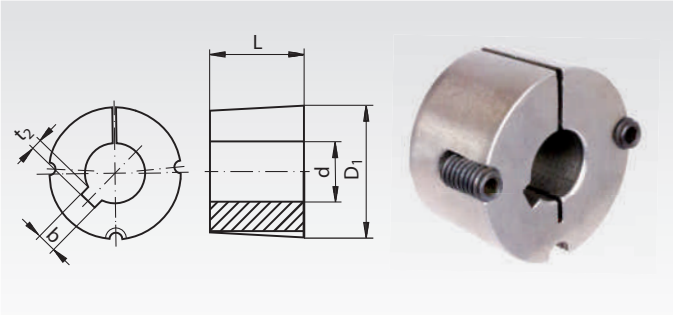
[1)] With flat keyway 1.3mm.
[2)] With flat keyway 2.2mm.

Taper Bushes

Material: GG20.
Bores ISO E8, feather keyways in accordance with DIN 6885/1.
Screws included in delivery.

Shaft tolerance +0.05/-0.125 mm.
Can be used with or without parallel key, depending on the required torque.

Other bush sizes and bores available at short notice (some in stock).



Ordering Details: e.g.: Product No. 622 506 16, Taper Bush 2517, 16 mm Bore

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 506 16	2517	16	5	2,3	44,5	85,5	1800
622 506 18	2517	18	6	2,8	44,5	85,5	1700
622 506 19	2517	19	6	2,8	44,5	85,5	1620
622 506 20	2517	20	6	2,8	44,5	85,5	1602
622 506 22	2517	22	6	2,8	44,5	85,5	1568
622 506 24	2517	24	8	3,3	44,5	85,5	1566
622 506 25	2517	25	8	3,3	44,5	85,5	1556
622 506 28	2517	28	8	3,3	44,5	85,5	1520
622 506 30	2517	30	8	3,3	44,5	85,5	1488
622 506 32	2517	32	10	3,3	44,5	85,5	1450
622 506 35	2517	35	10	3,3	44,5	85,5	1396
622 506 38	2517	38	10	3,3	44,5	85,5	1346
622 506 40	2517	40	12	3,3	44,5	85,5	1316
622 506 42	2517	42	12	3,3	44,5	85,5	1274
622 506 45	2517	45	14	3,8	44,5	85,5	1204
622 506 48	2517	48	14	3,8	44,5	85,5	1126
622 506 50	2517	50	14	3,8	44,5	85,5	1080
622 506 55	2517	55	16	4,3	44,5	85,5	958
622 506 60	2517	60	18	4,4	44,5	85,5	810
622 506 65	2517	65	18[1)]	3,4[1)]	44,5	85,5	650
622 507 25	3020	25	8	3,3	50,8	108	2910
622 507 28	3020	28	8	3,3	50,8	108	2790
622 507 30	3020	30	8	3,3	50,8	108	2840
622 507 32	3020	32	10	3,3	50,8	108	2800
622 507 35	3020	35	10	3,3	50,8	108	2745
622 507 38	3020	38	10	3,3	50,8	108	2700
622 507 40	3020	40	12	3,3	50,8	108	2635
622 507 42	3020	42	12	3,3	50,8	108	2594
622 507 45	3020	45	14	3,8	50,8	108	2515
622 507 48	3020	48	14	3,8	50,8	108	2425
622 507 50	3020	50	14	3,8	50,8	108	2370
622 507 55	3020	55	16	4,3	50,8	108	2234
622 507 60	3020	60	18	4,4	50,8	108	2000
622 507 65	3020	65	18	4,4	50,8	108	1888
622 507 70	3020	70	20	4,9	50,8	108	1700
622 507 75	3020	75	20	4,9	50,8	108	1485

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 511 40	3030	40	12	3,3	76,2	108	3820
622 511 45	3030	45	14	3,8	76,2	108	3550
622 511 50	3030	50	14	3,8	76,2	108	3420
622 511 60	3030	60	18	4,4	76,2	108	2950
622 511 65	3030	65	18	4,4	76,2	108	2680
622 511 70	3030	70	20	4,9	76,2	108	2060
622 511 75	3030	75	20	4,9	76,2	108	1640
622 509 35	3525	35	10	3,3	64,9	127	4910
622 509 38	3525	38	10	3,3	64,9	127	4850
622 509 40	3525	40	12	3,3	64,9	127	4800
622 509 50	3525	50	14	3,8	64,9	127	4440
622 509 60	3525	60	18	4,4	64,9	127	4050
622 509 75	3525	75	20	4,9	64,9	127	3370
622 509 80	3525	80	22	5,4	64,9	127	3050
622 510 50	3535	50	14	3,8	88,9	127	6050
622 510 55	3535	55	16	4,3	88,9	127	5810
622 510 60	3535	60	18	4,4	88,9	127	5500
622 510 65	3535	65	18	4,4	88,9	127	5200
622 510 70	3535	70	20	4,9	88,9	127	4880
622 510 75	3535	75	20	4,9	88,9	127	4460
622 510 80	3535	80	22	5,4	88,9	127	4080
622 510 90	3535	90	25	5,4	88,9	127	3210

Other bush sizes on request.

Assembly Instructions Page 824 and at www.maedler.de

[1)] With flat keyway 3.4mm.

Spare Screws for Taper Bushes

Material: Steel.

Supply: One screw (order quantity as needed).

Taper bushes have two or (from size 3030) three screws depending on size.

Ordering Details: e.g.: Product No. 622 501 99, Spare Screw , Taper Bush 1008 and 1108

Product No.	to match Taper bush	Size inch	Screw type	Tightening Torque Nm	Weight g
622 501 99	1008 and 1108	1/4''	Set screw with internal hexagon	5.6	1.9
622 503 99	1210 to 1615	3/8''	Set screw with internal hexagon	20	5.2
622 505 99	2012 and 2017	7/16''	Set screw with internal hexagon	30	11
622 506 99	2517 and 2525	1/2''	Set screw with internal hexagon	50	16.4
622 507 99	3020 and 3030	5/8''	Set screw with internal hexagon	90	33.2
622 510 99	3525 and 3535	1/2''	Screw with internal hexagon	90	49.7

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Put in a search word or part number and go directly to the product page

Find the PDF-catalogue page and further information

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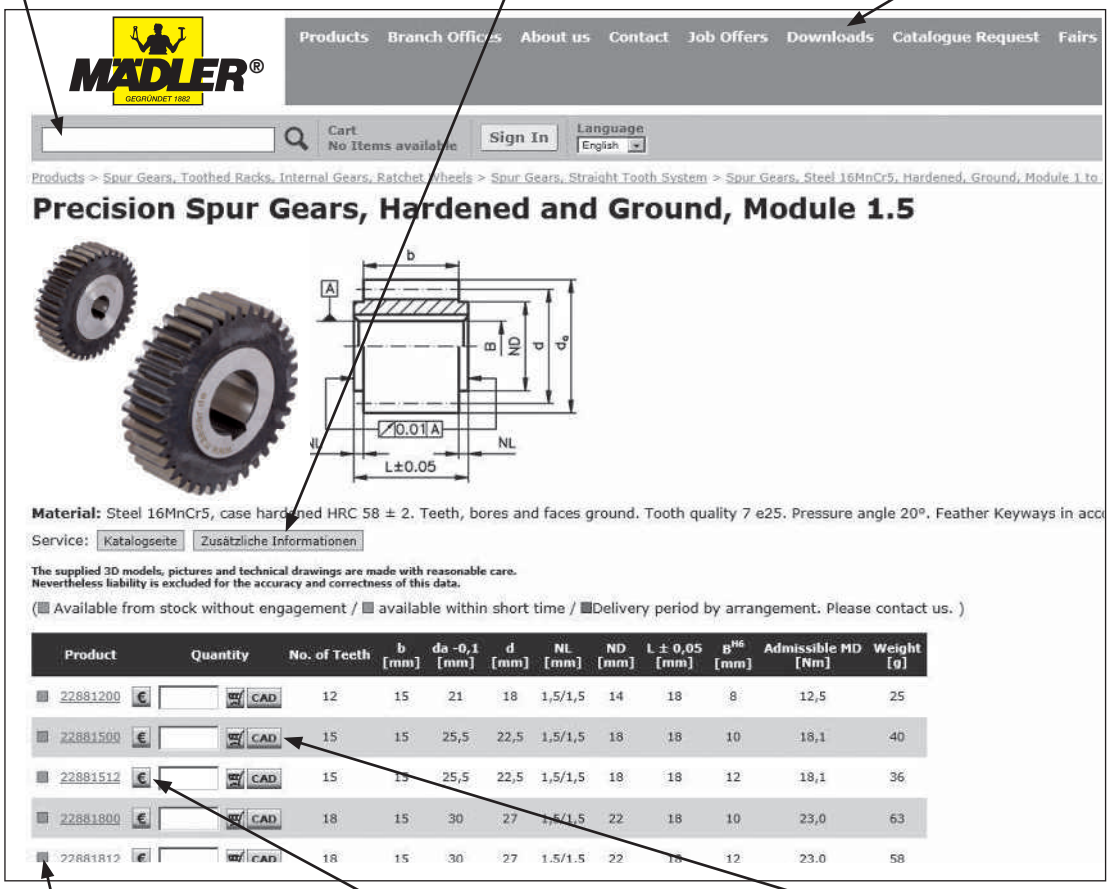

The availability of all products is shown by coloured sign

Drag the mouse onto the currency-symbol to see the prices*

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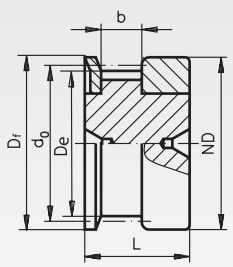
Standard Pulleys, Inch Pitch DIN 5294



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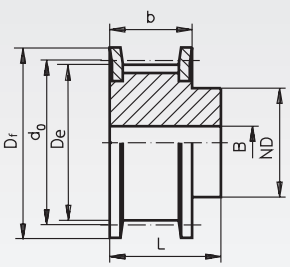
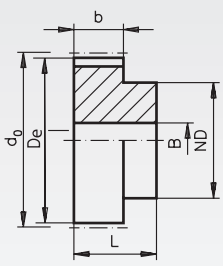


Type 1F



Type 2

Material: Aluminium UNI 3571-T16.
Flanges zinc-plated steel. Pre-bored (from a Teeth Number of 22).

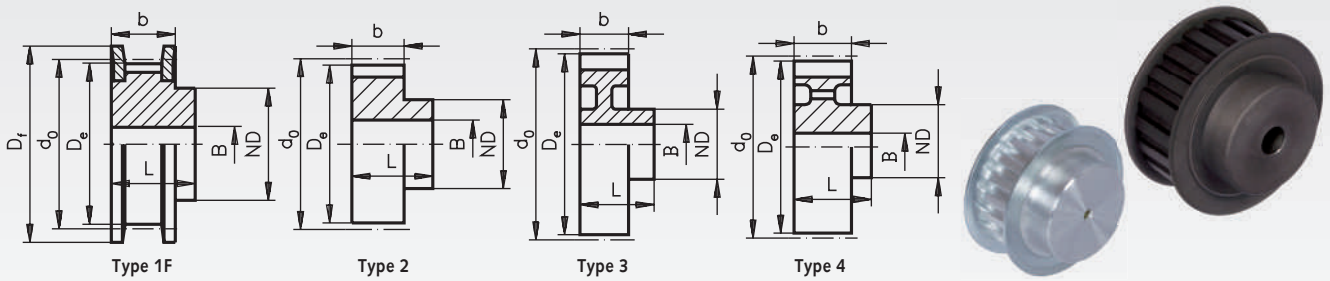
Ordering Details: e.g.: Product No. 181 316 00, Pulleys, Pitch MXL, 16 Teeth, Timing-Belt Width 025

Pulleys, Pitch MXL = 0.08" (2.032 mm) for Timing Belt Width 025 = 6.35 mm

Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight g
181 316 00	0F	16	9,84	10,35	15	15	8,5	16	-	4
181 318 00	0F	18	11,13	11,64	16	16	8,5	16	-	5
181 320 00	0F	20	12,43	12,94	16	16	8,5	16	-	5,5
181 322 00	1F	22	13,72	14,23	18	10	11	16	3	6
181 324 00	1F	24	15,02	15,52	18	10	11	16	3	8
181 328 00	1F	28	17,60	18,11	23	11	11	16	3	12
181 330 00	1F	30	18,90	19,40	23	12	11	16	4	13
181 332 00	1F	32	20,19	20,70	25	14	11	16	4	14
181 336 00	1F	36	22,78	23,29	28	16	11	16	4	18
181 340 00	1F	40	25,36	25,87	32	18	11	16	4	21
181 342 00	1F	42	26,66	27,17	32	18	11	16	5	24
181 344 00	1F	44	27,95	28,46	36	18	11	16	5	26
181 348 00	2	48	30,54	31,05	-	20	11	16	5	32
181 360 00	2	60	38,30	38,81	-	24	11	16	5	50
181 372 00	2	72	46,06	46,57	-	25	11	16	6	70

Reworking within 24h-service possible. Custom made parts on request.

Standard Pulleys, Inch Pitch DIN 5294



Material at Pitch XL: Aluminium 6082-T6, UNI 9006, flanges zinc-plated steel. Pre-bored*.

Material at Pitch L: Up to a Teeth Number of 48 phosphated steel, from a Teeth Number of 50 grey cast iron GG20. Pre-bored.

Ordering Details: e.g.: Product No. 180 310 00, Pulleys, Pitch XL = 1/5", 10 Teeth, Timing Belt Width 037, 2 Flanges

Pitch XL = 1/5" (5.08 mm) for Timing Belt Width 037 = 9.53 mm

Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight g
180 310 00	1F	10	15,66	16,17	23	10	14,3	20	-	21
180 311 00	1F	11	17,28	17,79	23	10	14,3	20	-	23
180 312 00	1F	12	18,90	19,40	25	10	14,3	20	-	29
180 313 00	1F	13	20,51	21,02	25	10	14,3	20	-	36
180 314 00	1F	14	22,13	22,64	28	16	14,3	20	-	42
180 315 00	1F	15	23,75	24,26	28	16	14,3	20	-	50
180 316 00	1F	16	25,36	25,87	32	16	14,3	20	-	58
180 317 00	1F	17	26,98	27,49	32	20	14,3	20	-	71
180 318 00	1F	18	28,60	29,11	36	20	14,3	20	-	84
180 319 00	1F	19	30,22	30,72	36	20	14,3	22	-	87
180 320 00	1F	20	31,83	32,34	38	25	14,3	22	-	111
180 321 00	1F	21	33,45	33,96	38	25	14,3	22	-	111
180 322 00	1F	22	35,07	35,57	42	25	14,3	22	-	129
180 324 00	1F	24	38,30	38,81	44	30	14,3	22	-	161
180 326 00	1F	26	41,53	42,04	48	30	14,3	22	8	180
180 327 00	1F	27	43,15	43,66	48	34	14,3	22	8	199
180 328 00	1F	28	44,77	45,28	51	34	14,3	22	8	217
180 330 00	1F	30	48,00	48,51	54	38	14,3	22	8	253
180 332 00	1F	32	51,24	51,74	57	38	14,3	25	8	307
180 334 00	1F	34	54,47	54,98	60	38	14,3	25	8	339
180 335 00	1F	35	56,09	56,60	63	38	14,3	25	8	350
180 336 00	2	36	57,70	58,21	-	45	14,3	25	8	142
180 338 00	2	38	60,94	61,45	-	45	14,3	25	8	157
180 340 00	2	40	64,17	64,68	-	45	14,3	25	8	165
180 342 00	2	42	67,41	67,91	-	45	14,3	25	8	178
180 344 00	2	44	70,64	71,15	-	45	14,3	25	8	193
180 348 00	3	48	77,11	77,62	-	45	14,3	25	10	180
180 360 00	3	60	96,51	97,02	-	45	14,3	25	10	213
180 372 00	3	72	115,92	116,42	-	45	14,3	25	10	274

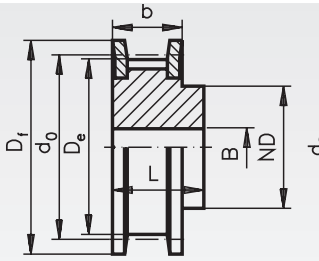
* Up to a Teeth Number of 24 only centre hole.

Pitch L = 3/8" (9.525 mm) for Timing Belt Width 050 = 12.7 mm

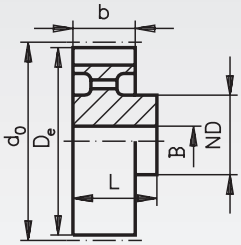
Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
182 110 00	1F	10	29,56	30,33	36	20	19	28	8	0,11
182 111 00	1F	11	32,59	33,35	36	24	19	30	8	0,13
182 112 00	1F	12	35,62	36,38	42	24	19	30	8	0,17
182 113 00	1F	13	38,65	39,41	44	28	19	30	8	0,20
182 114 00	1F	14	41,68	42,45	48	28	19	30	8	0,23
182 115 00	1F	15	44,72	45,48	51	34	19	30	8	0,29
182 116 00	1F	16	47,75	48,51	54	36	19	32	8	0,34
182 117 00	1F	17	50,78	51,54	57	36	19	32	10	0,37
182 118 00	1F	18	53,81	54,57	60	40	19	32	10	0,43
182 119 00	1F	19	56,84	57,61	63	40	19	32	10	0,47
182 120 00	1F	20	59,88	60,64	66	40	19	32	10	0,51
182 121 00	1F	21	62,91	63,67	71	45	19	32	10	0,58
182 122 00	1F	22	65,94	66,70	75	45	19	32	10	0,64
182 123 00	1F	23	68,97	69,73	79	55	19	32	10	0,76
182 124 00	1F	24	72,00	72,77	79	55	19	32	10	0,80
182 125 00	1F	25	75,04	75,80	83	58	19	32	10	0,88
182 126 00	1F	26	78,07	78,83	87	58	19	32	12	0,93
182 127 00	1F	27	81,10	81,86	87	58	19	32	12	0,98
182 128 00	1F	28	84,13	84,89	91	58	19	32	12	1,04
182 130 00	1F	30	90,20	90,96	97	70	19	32	12	1,28
182 132 00	1F	32	96,26	97,02	103	70	19	32	12	1,40
182 133 00	1F	33	99,29	100,05	106	70	19	32	12	1,48
182 134 00	1F	34	102,32	103,08	111	70	19	32	12	1,56
182 135 00	1F	35	105,35	106,12	111	70	19	32	12	1,61
182 136 00	1F	36	108,39	109,15	115	70	19	32	12	1,69
182 140 00	1F	40	120,51	121,28	127	70	19	32	12	2,03
182 144 00	1F	44	132,64	133,40	140	70	19	32	12	2,40
182 148 00	1F	48	144,77	145,53	152	70	19	32	12	2,76
182 150 00	4	50	150,83	151,60	-	70	19	32	14	1,59
182 156 00	4	56	169,02	169,79	-	70	19	32	14	1,71
182 160 00	4	60	181,15	181,91	-	75	19	42	14	2,21
182 172 00	4	72	217,53	218,30	-	75	19	42	14	2,77
182 184 00	4	84	253,92	254,66	-	75	19	42	14	2,96
182 187 00	4	96	290,30	291,06	-	75	19	42	14	3,27

Reworking within 24h-service possible. Custom made parts on request.

Standard Pulleys, Inch Pitch DIN 5294



Type 1F



Type 4

Material: Up to a Teeth Number of 48 phosphated steel, from a Teeth Number of 50 grey cast iron GG20. Pre-bored.

Ordering Details: e.g.: Product No. 182 210 00, Pulleys, Pitch L = 3/8", 10 Teeth, Timing Belt Width 075, 2 Flanges

Pitch L = 3/8" (9.525 mm) for Timing Belt Width 075 = 19.1 mm

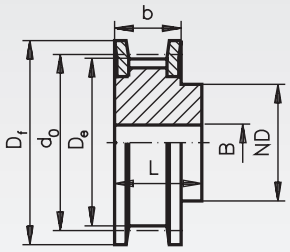
Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
182 210 00	1F	10	29,56	30,33	36	20	25,4	38	8	0,14
182 211 00	1F	11	32,59	33,35	38	24	25,4	38	8	0,17
182 212 00	1F	12	35,62	36,38	42	24	25,4	38	8	0,21
182 213 00	1F	13	38,65	39,41	44	28	25,4	38	8	0,26
182 214 00	1F	14	41,68	42,45	48	28	25,4	38	8	0,28
182 215 00	1F	15	44,72	45,48	51	34	25,4	38	8	0,35
182 216 00	1F	16	47,75	48,51	54	36	25,4	38	8	0,40
182 217 00	1F	17	50,78	51,54	57	36	25,4	38	10	0,45
182 218 00	1F	18	53,81	54,57	60	40	25,4	38	10	0,52
182 219 00	1F	19	56,84	57,61	63	40	25,4	38	10	0,58
182 220 00	1F	20	59,88	60,64	66	40	25,4	38	10	0,63
182 221 00	1F	21	62,91	63,67	71	45	25,4	38	10	0,70
182 222 00	1F	22	65,94	66,70	75	45	25,4	38	10	0,78
182 223 00	1F	23	68,97	69,73	79	55	25,4	38	10	0,92
182 224 00	1F	24	72,00	72,77	79	55	25,4	38	10	0,98
182 225 00	1F	25	75,04	75,80	83	58	25,4	38	10	1,07
182 226 00	1F	26	78,07	78,83	87	58	25,4	38	12	1,15
182 227 00	1F	27	81,10	81,86	87	58	25,4	38	12	1,29
182 228 00	1F	28	84,13	84,89	91	58	25,4	38	12	1,43
182 230 00	1F	30	90,20	90,96	97	70	25,4	38	12	1,57
182 232 00	1F	32	96,26	97,02	103	70	25,4	38	12	1,73
182 233 00	1F	33	99,29	100,05	106	70	25,4	38	12	1,84
182 234 00	1F	34	102,32	103,08	111	70	25,4	38	12	1,94
182 235 00	1F	35	105,35	106,12	111	70	25,4	38	12	2,02
182 236 00	1F	36	108,39	109,15	115	70	25,4	38	12	2,12
182 240 00	1F	40	120,51	121,28	127	70	25,4	38	12	2,55
182 244 00	1F	44	132,64	133,40	140	70	25,4	38	12	3,04
182 248 00	1F	48	144,77	145,53	152	70	25,4	38	12	3,54
182 250 00	4	50	150,83	151,60	-	70	25,4	38	14	1,91
182 256 00	4	56	169,02	169,79	-	70	25,4	38	14	2,11
182 260 00	4	60	181,15	181,81	-	75	25,4	45	14	2,59
182 272 00	4	72	217,53	218,30	-	75	25,4	45	14	2,86
182 284 00	4	84	253,92	254,66	-	75	25,4	45	14	3,79
182 287 00	4	96	290,30	291,06	-	75	25,4	45	14	3,76

Pitch L = 3/8" (9.525 mm) for Timing Belt Width 100 = 25.4 mm

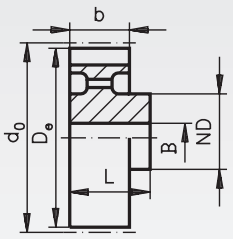
Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
182 310 00	1F	10	29,56	30,33	36,0	20	31,8	45	8	0,17
182 311 00	1F	11	32,59	33,35	38,0	24	31,8	45	8	0,20
182 312 00	1F	12	35,62	36,37	42,0	24	31,8	45	8	0,26
182 313 00	1F	13	38,65	39,41	44,0	28	31,8	45	8	0,31
182 314 00	1F	14	41,68	42,44	48,0	28	31,8	45	10	0,36
182 315 00	1F	15	44,72	45,48	51,0	34	31,8	45	10	0,44
182 316 00	1F	16	47,75	48,51	54,0	36	31,8	45	10	0,48
182 317 00	1F	17	50,78	51,54	57,0	36	31,8	45	10	0,55
182 318 00	1F	18	53,81	54,59	60,0	40	31,8	45	10	0,62
182 319 00	1F	19	56,84	57,61	63,0	40	31,8	45	10	0,69
182 320 00	1F	20	59,88	60,63	66,0	40	31,8	45	10	0,76
182 321 00	1F	21	62,91	63,68	71,0	45	31,8	45	10	0,86
182 322 00	1F	22	65,94	66,70	75,0	45	31,8	45	12	0,94
182 323 00	1F	23	68,97	69,73	79,0	55	31,8	45	12	1,11
182 324 00	1F	24	72,00	72,77	79,0	55	31,8	45	12	1,17
182 325 00	1F	25	75,04	75,80	83,0	58	31,8	45	12	1,29
182 326 00	1F	26	78,07	78,84	87,0	58	31,8	45	12	1,38
182 327 00	1F	27	81,10	81,86	87,0	58	31,8	45	12	1,46
182 328 00	1F	28	84,13	84,89	91,0	58	31,8	45	12	1,56
182 330 00	1F	30	90,20	90,96	97,0	70	31,8	45	12	1,89
182 332 00	1F	32	96,26	97,03	103,0	70	31,8	45	12	2,10
182 333 00	1F	33	99,29	100,05	106,0	70	31,8	45	12	2,21
182 334 00	1F	34	102,32	103,08	111,0	70	31,8	45	12	2,35
182 335 00	1F	35	105,35	106,12	111,0	70	31,8	45	12	2,44
182 336 00	1F	36	108,39	109,14	115,0	70	31,8	45	12	2,58
182 340 00	1F	40	120,51	121,29	127,0	70	31,8	45	12	3,12
182 344 00	1F	44	132,64	133,40	140,0	70	31,8	45	12	3,76
182 348 00	1F	48	144,77	145,54	152,0	70	31,8	45	12	4,33
182 350 00	4	50	150,83	151,60	-	70	31,8	45	14	2,21
182 356 00	4	56	169,02	169,79	-	70	31,8	45	14	2,44
182 360 00	4	60	181,15	181,92	-	75	31,8	45	14	2,79
182 372 00	4	72	217,53	218,29	-	75	31,8	45	14	3,16
182 384 00	4	84	253,92	254,69	-	75	31,8	45	14	3,73
182 387 00	4	96	290,30	291,06	-	75	31,8	45	14	4,25

Reworking within 24h-service possible. Custom made parts on request.

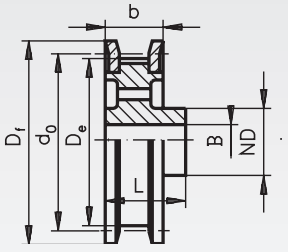
Standard Pulleys, Inch Pitch DIN 5294



Type 1F



Type 4



Type 5F

Material: Up to a Teeth Number of 40 phosphated steel, from a Teeth Number of 44 grey cast iron GG20. Pre-bored.

Ordering Details: e.g.: Product No. 184 014 00, Pulleys, Pitch H = 1/2", 14 Teeth, Timing Belt Width 075, 2 Flanges

Pitch H = 1/2" (12.7 mm) for Timing Belt Width 075 = 19.1 mm

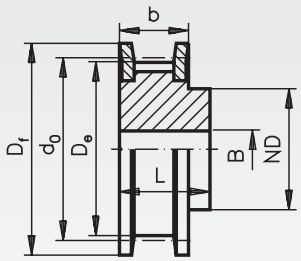
Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
184 014 00	1F	14	55,22	56,60	63	40	26,4	40	10	0,60
184 015 00	1F	15	59,27	60,64	66	45	26,4	40	10	0,70
184 016 00	1F	16	63,31	64,68	71	45	26,4	40	10	0,77
184 017 00	1F	17	67,35	68,72	75	45	26,4	40	12	0,83
184 018 00	1F	18	71,39	72,77	79	55	26,4	40	12	1,03
184 019 00	1F	19	75,44	76,81	83	60	26,4	40	12	1,14
184 020 00	1F	20	79,48	80,85	87	62	26,4	40	12	1,27
184 021 00	1F	21	83,52	84,89	91	65	26,4	40	12	1,41
184 022 00	1F	22	87,56	88,94	93	68	26,4	40	12	1,54
184 023 00	1F	23	91,61	92,98	97	72	26,4	40	12	1,63
184 024 00	1F	24	95,65	97,02	103	72	26,4	40	12	1,82
184 025 00	1F	25	99,69	101,06	106	72	26,4	40	12	1,95
184 026 00	1F	26	103,73	105,11	111	80	26,4	40	12	2,19
184 027 00	1F	27	107,78	109,15	115	80	26,4	40	12	2,33
184 028 00	1F	28	111,82	113,19	119	80	26,4	40	12	2,47
184 030 00	1F	30	119,90	121,28	127	80	26,4	40	14	2,81
184 032 00	1F	32	127,99	129,36	135	80	26,4	40	14	3,08
184 033 00	1F	33	132,03	133,40	140	80	26,4	40	14	3,25
184 034 00	1F	34	136,07	137,45	143	80	26,4	40	14	3,41
184 035 00	1F	35	140,12	141,49	148	80	26,4	40	14	3,62
184 036 00	1F	36	144,16	145,53	152	80	26,4	40	14	3,04
184 038 00	1F	38	152,24	153,62	158	80	26,4	40	14	4,20
184 040 00	1F	40	160,33	161,70	168	80	26,4	40	14	4,58
184 044 00	5F	44	176,50	177,87	184	80	26,4	40	18	2,53
184 048 00	5F	48	192,67	194,04	200	90	26,4	45	18	3,34
184 050 00	4	50	200,75	202,13	-	90	26,4	45	18	3,34

Pitch H = 1/2" (12.7 mm) for Timing Belt Width 100 = 25.4 mm

Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
184 114 00	1F	14	55,22	56,60	63	40	31,8	45	12	0,68
184 115 00	1F	15	59,27	60,64	66	45	31,8	45	12	0,77
184 116 00	1F	16	63,31	64,68	71	45	31,8	45	12	0,89
184 117 00	1F	17	67,35	68,72	75	45	31,8	45	12	0,96
184 118 00	1F	18	71,39	72,77	79	55	31,8	45	12	1,18
184 119 00	1F	19	75,44	76,81	83	60	31,8	45	14	1,28
184 120 00	1F	20	79,48	80,85	87	62	31,8	45	14	1,43
184 121 00	1F	21	83,52	84,89	91	65	31,8	45	14	1,58
184 122 00	1F	22	87,56	88,94	93	68	31,8	45	14	1,74
184 123 00	1F	23	91,61	92,98	97	72	31,8	45	14	1,92
184 124 00	1F	24	95,65	97,02	103	72	31,8	45	14	2,07
184 125 00	1F	25	99,69	101,06	106	72	31,8	45	14	2,22
184 126 00	1F	26	103,73	105,11	111	80	31,8	45	14	2,48
184 127 00	1F	27	107,78	109,15	115	80	31,8	45	14	2,65
184 128 00	1F	28	111,82	113,19	119	80	31,8	45	14	2,82
184 130 00	1F	30	119,90	121,28	127	80	31,8	45	14	3,18
184 132 00	1F	32	127,99	129,36	135	80	31,8	45	14	3,55
184 133 00	1F	33	132,03	133,40	140	80	31,8	45	14	3,79
184 134 00	1F	34	136,07	137,45	143	80	31,8	45	14	4,01
184 135 00	1F	35	140,12	141,49	148	80	31,8	45	14	4,22
184 136 00	1F	36	144,16	145,53	152	80	31,8	45	14	4,38
184 138 00	1F	38	152,24	153,62	158	80	31,8	45	14	5,01
184 140 00	1F	40	160,33	161,70	168	80	31,8	45	14	5,38
184 144 00	5F	44	176,50	177,87	184	80	31,8	50	18	3,79
184 148 00	5F	48	192,67	194,04	200	90	31,8	50	18	4,46
184 150 00	4	50	200,75	202,13	-	90	31,8	50	18	3,80
184 158 00	4	58	233,09	234,47	-	90	31,8	50	18	4,27
184 160 00	4	60	241,18	242,55	-	120	31,8	50	18	6,37
184 172 00	4	72	289,69	291,06	-	120	31,8	55	18	7,33
184 184 00	4	84	338,20	339,57	-	120	31,8	55	18	8,33

Reworking within 24h-service possible. Custom made parts on request.

Standard Pulleys, Inch Pitch DIN 5294



Type 1F

Material: Up to a Teeth Number of 40 phosphated steel, from a Teeth Number of 44 grey cast iron GG20 (on request). Pre-bored.

Ordering Details: e.g.: Product No. 184 214 00, Pulleys, Pitch H = 1/2", 14 Teeth, Timing Belt Width 150, 2 Flanges

Pitch H = 1/2" (12.7 mm) for Timing Belt Width 150 = 38.1 mm

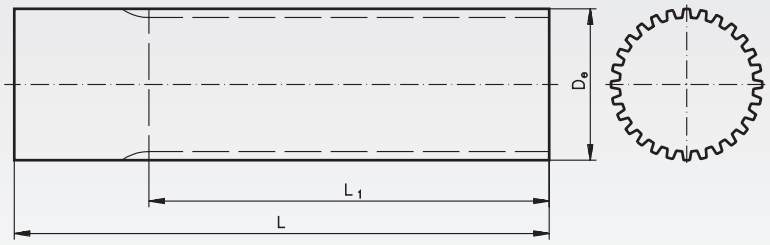
Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
184 214 00	1F	14	55,22	56,60	63	40	46	58	18	0,922
184 215 00	1F	15	59,27	60,64	66	45	46	58	18	1,076
184 216 00	1F	16	63,31	64,68	71	45	46	58	18	1,203
184 217 00	1F	17	67,35	68,72	75	45	46	58	18	1,242
184 218 00	1F	18	71,39	72,77	79	55	46	58	18	1,575
184 219 00	1F	19	75,44	76,81	83	60	46	58	18	1,771
184 220 00	1F	20	79,48	80,85	87	62	46	58	18	1,973
184 221 00	1F	21	83,52	84,89	91	65	46	58	18	2,083
184 222 00	1F	22	87,56	88,94	93	68	46	58	18	2,387
184 223 00	1F	23	91,61	92,98	97	72	46	58	18	2,504
184 224 00	1F	24	95,65	97,02	103	72	46	58	18	2,726
184 225 00	1F	25	99,69	101,06	106	72	46	58	18	3,046
184 226 00	1F	26	103,73	105,11	111	80	46	58	18	3,254
184 227 00	1F	27	107,78	109,15	115	80	46	58	18	3,861
184 228 00	1F	28	111,82	113,19	119	80	46	58	18	3,866
184 230 00	1F	30	119,90	121,28	127	80	46	58	18	4,373
184 232 00	1F	32	127,99	129,36	135	80	46	58	18	4,932
184 233 00	1F	33	132,03	133,40	140	80	46	58	18	5,138
184 234 00	1F	34	136,07	137,45	143	80	46	58	18	5,394
184 235 00	1F	35	140,12	141,49	148	80	46	58	18	5,732
184 236 00	1F	36	144,16	145,53	152	80	46	58	18	6,158
184 238 00	1F	38	152,24	153,62	158	80	46	58	18	6,825
184 240 00	1F	40	160,33	161,70	168	80	46	58	18	7,438

Pitch H = 1/2" (12.7 mm) for Timing Belt Width 200 = 50.8 mm

Product No.	Type	Number of teeth	D_e mm	d_0 mm	D_f mm	ND mm	b mm	L mm	B mm	Weight kg
184 314 00	1F	14	55,22	56,60	63	40	58,7	70	18	1,140
184 315 00	1F	15	59,27	60,64	66	45	58,7	70	18	1,160
184 316 00	1F	16	63,31	64,68	71	45	58,7	70	18	1,487
184 317 00	1F	17	67,35	68,72	75	45	58,7	70	18	1,536
184 318 00	1F	18	71,39	72,77	79	55	58,7	70	18	1,931
184 319 00	1F	19	75,44	76,81	83	60	58,7	70	18	2,047
184 320 00	1F	20	79,48	80,85	87	62	58,7	70	18	2,421
184 321 00	1F	21	83,52	84,89	91	65	58,7	70	18	2,668
184 322 00	1F	22	87,56	88,94	93	68	58,7	70	18	2,944
184 323 00	1F	23	91,61	92,98	97	72	58,7	70	18	3,231
184 324 00	1F	24	95,65	97,02	103	72	58,7	70	18	3,490
184 325 00	1F	25	99,69	101,06	106	72	58,7	70	18	3,763
184 326 00	1F	26	103,73	105,11	111	80	58,7	70	18	4,151
184 327 00	1F	27	107,78	109,15	115	80	58,7	70	18	4,443
184 328 00	1F	28	111,82	113,19	119	80	58,7	70	18	4,773
184 330 00	1F	30	119,90	121,28	127	80	58,7	70	18	5,338
184 332 00	1F	32	127,99	129,36	135	80	58,7	70	18	6,157
184 333 00	1F	33	132,03	133,40	140	80	58,7	70	18	6,450
184 334 00	1F	34	136,07	137,45	143	80	58,7	70	18	6,731
184 335 00	1F	35	140,12	141,49	148	80	58,7	70	18	7,332
184 336 00	1F	36	144,16	145,53	152	80	58,7	70	18	7,736
184 338 00	1F	38	152,24	153,62	158	80	58,7	70	18	8,648
184 340 00	1F	40	160,33	161,70	168	80	58,7	70	18	9,455

Reworking within 24h-service possible. Custom made parts on request.

Splined Shafts For Timing Belts Profile T



Material: Aluminium UNI 9006-T6.

Ordering Details: e.g.: Product No. 160 910 10, Splined Shafts T 2.5, No. of Teeth 10

Profile T 2.5

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
160 910 00	10	7,42	50	75	0,01
160 912 00	12	9,00	50	75	0,01
160 913 00	13	9,80	50	75	0,02
160 914 00	14	10,60	50	75	0,02
160 915 00	15	11,40	75	75	0,02
160 916 00	16	12,20	75	75	0,02
160 917 00	17	13,00	75	75	0,03
160 918 00	18	13,80	75	75	0,03
160 919 00	19	14,60	120	120	0,05
160 920 00	20	15,40	120	120	0,05
160 921 00	21	16,20	120	120	0,06
160 922 00	22	17,00	140	140	0,08
160 924 00	24	18,55	140	140	0,09
160 926 00	26	20,15	140	140	0,12
160 927 00	27	20,95	140	140	0,13
160 928 00	28	21,75	140	140	0,14
160 929 00	29	22,55	140	140	0,15
160 930 00	30	23,35	140	140	0,15
160 932 00	32	24,95	140	140	0,18
160 934 00	34	26,55	140	140	0,21
160 935 00	35	27,35	140	140	0,21
160 936 00	36	28,10	140	140	0,22
160 938 00	38	29,70	140	140	0,26
160 940 00	40	31,30	140	140	0,27
160 942 00	42	32,90	140	140	0,32
160 944 00	44	34,50	140	140	0,33
160 945 00	45	35,30	140	140	0,37
160 948 00	48	37,70	140	140	0,40
160 950 00	50	39,29	160	160	0,52
160 960 00	60	47,25	160	160	0,72
160 965 00	65	51,20	160	160	0,87
160 970 00	70	55,20	160	160	1,05
160 972 00	72	56,80	160	160	1,11
160 990 00	90	71,12	160	160	1,75
160 999 00	100	79,08	160	160	2,18

Profile T 5

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
162 910 00	10	15,05	140	140	0,06
162 911 00	11	16,65	140	140	0,07
162 912 00	12	18,25	140	140	0,09
162 913 00	13	19,85	140	140	0,10
162 914 00	14	21,45	140	140	0,12
162 915 00	15	23,05	140	140	0,14
162 916 00	16	24,60	140	140	0,16
162 917 00	17	26,20	140	140	0,19
162 918 00	18	27,80	140	140	0,21
162 919 00	19	29,40	140	140	0,24
162 920 00	20	31,00	160	160	0,31
162 921 00	21	32,70	160	160	0,33
162 922 00	22	34,25	160	160	0,36
162 923 00	23	35,85	160	160	0,39
162 924 00	24	37,40	160	160	0,43
162 925 00	25	38,95	160	160	0,47
162 926 00	26	40,60	160	160	0,51
162 927 00	27	42,20	160	160	0,55
162 928 00	28	43,75	160	160	0,60
162 929 00	29	45,35	160	160	0,65
162 930 00	30	46,95	160	160	0,70
162 932 00	32	50,10	160	160	0,80
162 934 00	34	53,25	160	160	0,91
162 935 00	35	54,85	160	160	0,98
162 936 00	36	56,45	160	160	1,02
162 937 00	37	58,06	160	160	1,08
162 938 00	38	59,65	160	160	1,14
162 940 00	40	62,85	160	160	1,27
162 942 00	42	66,00	160	160	1,41
162 944 00	44	69,20	160	160	1,55
162 945 00	45	70,80	160	160	1,63
162 946 00	46	72,40	160	160	1,69
162 948 00	48	75,55	160	160	1,85
162 950 00	50	78,75	160	160	2,02
162 960 00	60	94,65	160	160	2,95
162 972 00	72	113,75	160	160	4,28
162 980 00	80	126,48	160	160	5,39
162 990 00	90	142,40	160	160	6,76
162 999 00	100	158,31	160	160	8,34

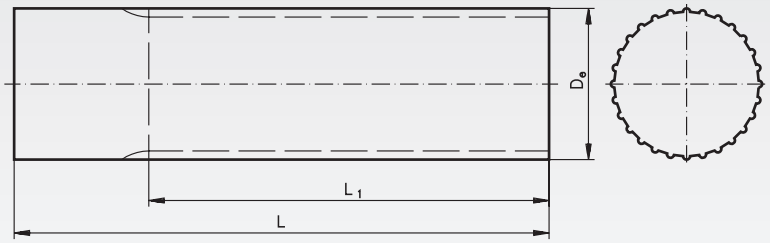
Profile T 10

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
164 910 00	10	29,98	140	140	0,22
164 911 00	11	33,16	140	140	0,29
164 912 00	12	36,35	140	140	0,34
164 913 00	13	39,55	140	140	0,42
164 914 00	14	42,70	160	160	0,55
164 915 00	15	45,90	160	160	0,64
164 916 00	16	49,10	160	160	0,74
164 917 00	17	52,25	160	160	0,85
164 918 00	18	55,45	160	160	0,96
164 919 00	19	58,65	160	160	1,07
164 920 00	20	61,80	160	160	1,20
164 921 00	21	65,00	160	160	1,29
164 922 00	22	68,20	160	160	1,43
164 923 00	23	71,35	160	160	1,58
164 924 00	24	74,55	160	160	1,73
164 926 00	26	80,90	160	160	2,05
164 928 00	28	87,25	160	160	2,39
164 930 00	30	93,65	160	160	2,76
164 932 00	32	100,00	160	160	3,18
164 934 00	34	106,40	160	160	3,61
164 936 00	36	112,75	160	160	4,06
164 938 00	38	119,10	160	160	4,62
164 940 00	40	125,45	160	160	5,13
164 945 00	45	141,40	160	160	6,50
164 948 00	48	150,95	160	160	7,39
164 960 00	60	189,15	160	160	11,76
164 972 00	72	227,29	160	160	17,03

Flanges page 170

Reworking within 24h-service possible. Custom made parts on request.

Splined Shafts For Timing Belts Profile AT



Material: Aluminium UNI 9006-T6.

Ordering Details: e.g.: Product No. 166 912 00, Splined Shafts AT5, No. of Teeth 12

Profile AT 5

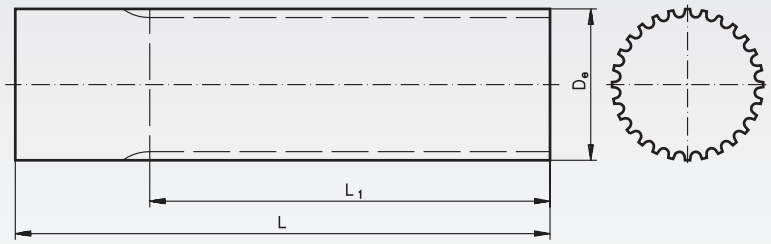
Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
166 912 00	12	17,85	140	140	0,08
166 913 00	13	19,45	140	140	0,10
166 914 00	14	21,05	140	140	0,12
166 915 00	15	22,65	140	140	0,14
166 916 00	16	24,20	140	140	0,15
166 917 00	17	25,80	140	140	0,18
166 918 00	18	27,40	140	140	0,20
166 919 00	19	29,00	140	140	0,23
166 920 00	20	30,60	160	160	0,30
166 921 00	21	32,30	160	160	0,33
166 922 00	22	33,85	160	160	0,36
166 923 00	23	35,45	160	160	0,40
166 924 00	24	37,00	160	160	0,44
166 925 00	25	38,55	160	160	0,47
166 926 00	26	40,20	160	160	0,51
166 927 00	27	41,80	160	160	0,55
166 928 00	28	43,35	160	160	0,60
166 930 00	30	46,55	160	160	0,69
166 932 00	32	49,70	160	160	0,81
166 934 00	34	52,85	160	160	0,90
166 936 00	36	56,05	160	160	1,02
166 938 00	38	59,25	160	160	1,14
166 940 00	40	62,45	160	160	1,28
166 942 00	42	65,60	160	160	1,41
166 944 00	44	68,80	160	160	1,55
166 948 00	48	75,15	160	160	1,85
166 952 00	52	81,55	160	160	2,19
166 956 00	56	87,90	160	160	2,55
166 958 00	58	91,10	160	160	2,74
166 960 00	60	94,25	160	160	2,94
166 964 00	64	100,65	160	160	3,36
166 972 00	72	113,35	160	160	4,29

Profile AT 10

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
168 915 00	15	45,90	160	160	0,62
168 916 00	16	49,10	160	160	0,72
168 917 00	17	52,25	160	160	0,82
168 918 00	18	55,45	160	160	0,94
168 919 00	19	58,65	160	160	1,05
168 920 00	20	61,80	160	160	1,17
168 921 00	21	65,00	160	160	1,31
168 922 00	22	68,20	160	160	1,44
168 923 00	23	71,35	160	160	1,60
168 924 00	24	74,55	160	160	1,75
168 925 00	25	77,75	160	160	1,91
168 926 00	26	80,90	160	160	2,06
168 927 00	27	84,05	160	160	2,23
168 928 00	28	87,25	160	160	2,42
168 930 00	30	93,65	160	160	2,79
168 932 00	32	100,00	160	160	3,20
168 934 00	34	106,40	160	160	3,65
168 936 00	36	112,75	160	160	4,09
168 938 00	38	119,10	160	160	4,59
168 940 00	40	125,45	160	160	5,16
168 942 00	42	131,85	160	160	5,65
168 944 00	44	138,20	160	160	6,22
168 948 00	48	150,95	160	160	7,45
168 952 00	52	163,65	160	160	8,93
168 956 00	56	176,40	160	160	10,39
168 960 00	60	189,15	160	160	11,78
168 970 00	70	220,95	160	160	16,18

Reworking within 24h-service possible. Custom made parts on request.

Splined Shafts For Timing Belts Profile HTD



Material: HTD 5M: Aluminium 9006-T6.
HTD 8M: Steel.

Ordering Details: e.g.: Product No. 172 912 00, Splined Shafts HTD 5M, No. of Teeth 12

Profile 5M

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
172 912 00	12	17,96	160	160	0,08
172 913 00	13	19,55	160	160	0,10
172 914 00	14	21,14	175	200	0,16
172 915 00	15	22,73	175	200	0,19
172 916 00	16	24,32	175	200	0,21
172 917 00	17	25,92	175	200	0,24
172 918 00	18	27,51	200	200	0,27
172 919 00	19	29,10	200	200	0,31
172 920 00	20	30,69	200	200	0,35
172 921 00	21	32,28	200	200	0,39
172 922 00	22	33,87	200	200	0,43
172 923 00	23	35,47	200	200	0,48
172 924 00	24	37,06	200	200	0,52
172 925 00	25	38,85	200	200	0,57
172 926 00	26	40,24	200	200	0,62
172 927 00	27	41,83	200	200	0,67
172 928 00	28	43,42	200	200	0,73
172 930 00	30	46,61	200	200	0,84
172 932 00	32	49,79	200	200	0,97
172 934 00	34	52,97	200	200	1,11
172 936 00	36	56,16	200	200	1,25
172 938 00	38	59,34	200	200	1,40
172 940 00	40	62,52	200	200	1,55
172 942 00	42	65,71	200	200	1,73
172 944 00	44	68,89	200	200	1,90
172 945 00	45	70,48	200	200	1,99
172 948 00	48	75,25	200	200	2,27
172 950 00	50	78,44	200	200	2,48
172 960 00	60	94,35	200	200	3,60
172 972 00	72	113,45	200	200	5,28

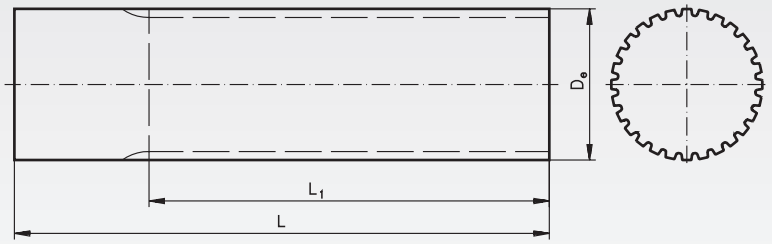
Profile 8M

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
174 918 00	18	44,47	200	200	2,03
174 919 00	19	47,01	200	200	2,30
174 920 00	20	49,56	200	200	2,57
174 921 00	21	52,11	200	200	2,88
174 922 00	22	54,65	200	200	3,18
174 923 00	23	57,20	200	200	3,52
174 924 00	24	59,75	200	200	3,86
174 925 00	25	62,29	200	200	4,23
174 926 00	26	64,84	200	200	4,60
174 928 00	28	69,93	200	200	5,40
174 930 00	30	75,02	200	200	6,27
174 932 00	32	80,12	200	200	7,20
174 934 00	34	85,21	200	200	8,20
174 935 00	35	87,76	200	200	8,71
174 936 00	36	90,30	200	200	9,26
174 938 00	38	95,40	200	200	10,39
174 940 00	40	100,49	200	200	11,58
174 944 00	44	110,88	200	200	14,16
174 948 00	48	120,86	200	200	16,99

Flanges page 170

Reworking within 24h-service possible. Custom made parts on request.

Splined Shafts For Timing Belts, Inch Pitch



Material: Aluminium UNI 9006-T6.

Ordering Details: e.g.: Product No. 181 912 00, Splined Shafts MXL, No. of Teeth 12

Pitch MXL = 0.08“

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
181 912 00	12	7,25	50	75	0,01
181 914 00	14	8,55	50	75	0,01
181 915 00	15	9,19	50	75	0,01
181 916 00	16	9,84	50	75	0,02
181 918 00	18	11,13	50	75	0,02
181 920 00	20	12,43	90	120	0,04
181 922 00	22	13,72	125	140	0,05
181 924 00	24	15,02	125	140	0,06
181 925 00	25	15,66	125	140	0,07
181 926 00	26	16,31	125	140	0,08
181 928 00	28	17,60	125	140	0,09
181 930 00	30	18,90	125	140	0,10
181 932 00	32	20,19	125	140	0,12
181 934 00	34	21,48	125	140	0,13
181 936 00	36	22,78	140	140	0,15
181 940 00	40	25,36	140	140	0,19
181 942 00	42	26,66	140	140	0,20
181 944 00	44	27,95	140	140	0,23
181 945 00	45	28,60	140	140	0,24
181 948 00	48	30,54	140	140	0,27
181 950 00	50	31,83	140	140	0,30
181 960 00	60	38,30	160	160	0,49
181 970 00	70	44,77	160	160	0,67
181 972 00	72	46,06	160	160	0,72

Pitch XL = 1/5“

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
180 910 00	10	15,66	140	140	0,07
180 911 00	11	17,28	140	140	0,08
180 912 00	12	18,90	140	140	0,10
180 913 00	13	20,51	140	140	0,11
180 914 00	14	22,13	140	140	0,13
180 915 00	15	23,75	140	140	0,16
180 916 00	16	25,36	140	140	0,18
180 917 00	17	26,98	140	140	0,20
180 918 00	18	28,60	140	140	0,23
180 919 00	19	30,22	140	140	0,26
180 920 00	20	31,83	140	140	0,28
180 921 00	21	33,45	160	160	0,36
180 922 00	22	35,07	160	160	0,40
180 923 00	23	36,60	160	160	0,44
180 924 00	24	38,30	160	160	0,48
180 925 00	25	39,92	160	160	0,51
180 926 00	26	41,53	160	160	0,56
180 927 00	27	43,15	160	160	0,60
180 928 00	28	44,77	160	160	0,65
180 929 00	29	46,39	160	160	0,70
180 930 00	30	48,00	160	160	0,75
180 932 00	32	51,24	160	160	0,87
180 933 00	33	52,85	160	160	0,92
180 934 00	34	54,47	160	160	0,98
180 935 00	35	56,09	160	160	1,04
180 936 00	36	57,70	160	160	1,10
180 938 00	38	60,94	160	160	1,23
180 939 00	39	62,56	160	160	1,30
180 940 00	40	64,17	160	160	1,37
180 941 00	41	65,79	160	160	1,43
180 942 00	42	67,41	160	160	1,51
180 943 00	43	69,02	160	160	1,58
180 944 00	44	70,64	160	160	1,65
180 948 00	48	77,11	160	160	1,98
180 956 00	56	90,04	160	160	2,71
180 960 00	60	96,51	160	160	3,10
180 972 00	72	115,92	160	160	4,52

Pitch L = 3/8“

Product No.	Number of teeth	D_e mm	L_1 mm	L mm	Weight kg
182 910 00	10	29,56	140	140	0,23
182 911 00	11	32,59	140	140	0,28
182 912 00	12	35,62	160	160	0,39
182 913 00	13	38,65	160	160	0,46
182 914 00	14	41,68	160	160	0,55
182 915 00	15	44,72	160	160	0,63
182 916 00	16	47,75	160	160	0,73
182 917 00	17	50,78	160	160	0,82
182 918 00	18	53,81	160	160	0,93
182 919 00	19	56,84	160	160	1,04
182 920 00	20	59,88	160	160	1,16
182 921 00	21	62,91	160	160	1,28
182 922 00	22	65,94	160	160	1,41
182 923 00	23	68,98	160	160	1,55
182 924 00	24	72,00	160	160	1,69
182 927 00	27	81,10	160	160	2,15
182 930 00	30	90,20	160	160	2,67

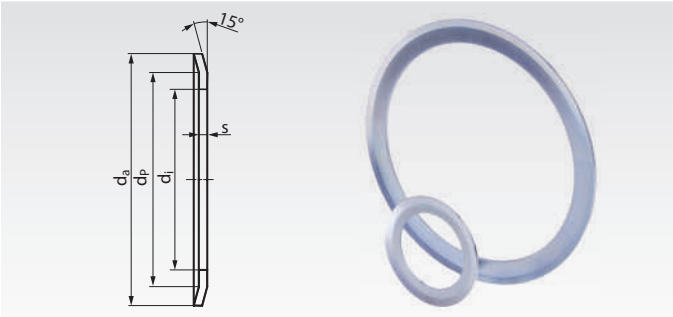
Reworking within 24h-service possible. Custom made parts on request.

Flanges for Timing Belt Pulleys

Material: Steel, zinc-plated.

Flanges for timing belt pulleys, for custom-made parts or serial production. For economical reason, normally the flanges are mounted only at the smaller pulley. Often, the flanges get fixed by beading: On a turntable, with a rolling tool, hub material will get shaped over the flange. A beading material overhang of 0.5mm is recommended.

Sold by piece. Other sizes are available on request.



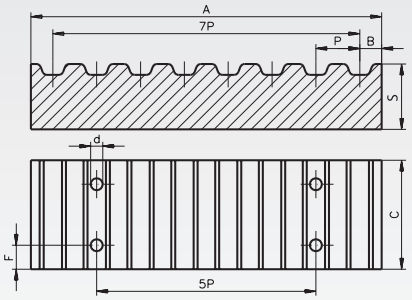
Ordering Details: e.g.: 2 Pieces Product No. 160 101 00, flange 0.5mm, Ø 13 x 10 x 6mm

Product No.	s mm	d_a mm	d_P mm	d_i mm	Weight g
160 101 00	0,5	13	10	6	1
160 101 01	0,5	15	12	8	1
160 101 02	0,5	16	13	9,5	1
160 101 04	0,5	18	15	11,5	1
160 101 05	0,5	19,5	17,5	12	1
160 101 06	0,5	23	17,5	12	1
160 101 07	0,5	23	20	14	1
160 101 08	0,5	25	22	15	1
160 101 09	0,5	28	24	18	1
160 101 10	0,5	32	28	21,5	1
160 101 11	0,5	36	31	25	2
160 101 12	0,5	38	34	28	3
160 101 13	0,5	42	38	30,5	3
160 101 14	0,5	48	43,5	37	3
160 102 00	1	19,5	17,5	12	1
160 102 01	1	23	17,5	12	1
160 102 02	1	23	20	14	2
160 102 03	1	25	22	15	3
160 102 04	1	28	24	18	3
160 102 05	1	32	28	21,5	3
160 102 06	1	36	31	25	4
160 102 07	1	38	34	28	4
160 102 08	1	42	38	30,5	5
160 102 09	1	44	40	33	5
160 102 10	1	48	43,5	37	6
160 102 11	1	51	47,5	40	7
160 102 12	1	54	50,5	43	7
160 102 13	1	57	53	46	7
160 102 14	1	60	57	47	10
160 102 15	1	63	57	48	10
160 102 16	1	66	61,5	52	10
160 102 17	1	71	65	56	12
160 102 18	1	75	68,5	60	13
160 102 19	1	83	76,5	68	14
160 102 20	1	87	82,5	72	15
160 102 21	1	91	85,5	76	16
160 102 22	1	93	89	80	14
160 102 23	1	97	93	83	15
160 102 24	1	106	101	90	20
160 102 25	1	119	113,5	103	22
160 102 26	1	131	125,5	115	25

Product No.	s mm	d_a mm	d_P mm	d_i mm	Weight g
160 103 00	1,5	36	31	25	6
160 103 01	1,5	38	34	28	6
160 103 02	1,5	42	38	30,5	8
160 103 03	1,5	44	40	33	8
160 103 04	1,5	48	43,5	37	9
160 103 05	1,5	51	47,5	40	10
160 103 06	1,5	54	50,5	43	10
160 103 07	1,5	57	53	46	11
160 103 08	1,5	60	57	47	13
160 103 09	1,5	63	57	48	16
160 103 10	1,5	66	61,5	52	16
160 103 11	1,5	71	65	56	18
160 103 12	1,5	75	68,5	60	20
160 103 13	1,5	79	73,5	64	20
160 103 14	1,5	83	76,5	68	21
160 103 15	1,5	87	82,5	72	22
160 103 16	1,5	91	85,5	76	21
160 103 17	1,5	93	89	80	21
160 103 18	1,5	97	93	83	24
160 103 19	1,5	98	92	79,3	32
160 103 20	1,5	103	97	86	30
160 103 21	1,5	106	101	90	30
160 103 22	1,5	111	106	94	30
160 103 23	1,5	115	110	99	32
160 103 25	1,5	119	113,5	103	33
160 103 26	1,5	123	117,5	107	33
160 103 27	1,5	127	122	111	36
160 103 28	1,5	135	130	119	37
160 103 30	1,5	140	134,5	123	42
160 103 31	1,5	143	139	127	42
160 103 33	1,5	148	143	132	42
160 103 34	1,5	152	147,5	136	44
160 103 35	1,5	158	154	142	44
160 103 38	1,5	168	163	149,5	45
160 103 39	1,5	184	179	165	62
160 103 40	1,5	192	187	173	64
160 103 42	1,5	200	195	181	67
160 104 00	2,5	127	120,2	104,7	82
160 104 01	2,5	138	130	108	110
160 104 02	2,5	146	138	116	120
160 104 03	2,5	154	146	122	132
160 104 04	2,5	160	150	128	139
160 104 05	2,5	168	162	135	152
160 104 06	2,5	183	170	145	199
160 104 07	2,5	188	180	158	159
160 104 09	2,5	198	188	165	157
160 104 10	2,5	200	192,8	172	154
160 104 11	2,5	211	198	173	218
160 104 12	2,5	226	214	190	227
160 104 14	2,5	240	224	192	317
160 104 15	2,5	256	240	220	258
160 104 16	2,5	256	247	225	230
160 104 18	2,5	296	287	252	370

Custom-made timing belt pulleys from our own production available at short time.

Fixing Plates for Timing Belts



Material: Aluminium UNI 9006-T6.

Ordering Details: e.g.: Product No. 160 699 00, Fixing Plate, Pitch T2.5 Width 6 mm

The fixing plates are used to connect the belt ends. Practical examples see page 172.

T-Profile

Product No.	Profile	P mm	Belt Width mm	F mm	d mm	B mm	A mm	S mm	C mm	Weight g
160 699 00	T2,5	2,5	6	4	4,5	1,5	20,5	5	19	5
160 799 00	T2,5	2,5	10	4	4,5	1,5	20,5	5	24	6
162 699 00	T5	5	10	6	5,5	3,4	41,8	8	29	21
162 799 00	T5	5	16	6	5,5	3,4	41,8	8	35	27
162 899 00	T5	5	25	6	5,5	3,4	41,8	8	44	40
162 898 00	T5	5	32	6	5,5	3,4	41,8	8	51	58
164 699 00	T10	10	16	8	9,0	5,0	80,0	15	41	112
164 799 00	T10	10	25	8	9,0	5,0	80,0	15	50	140
164 899 00	T10	10	32	8	9,0	5,0	80,0	15	57	160
164 999 00	T10	10	50	8	9,0	5,0	80,0	15	75	220

AT-Profile

Product No.	Profile	P mm	Belt Width mm	F mm	d mm	B mm	A mm	S mm	C mm	Weight g
166 699 00	AT5	5	10	6	5,5	3,4	41,8	8	29	21
166 799 00	AT5	5	16	6	5,5	3,4	41,8	8	35	25
166 899 00	AT5	5	25	6	5,5	3,4	41,8	8	44	40
166 898 00	AT5	5	32	6	5,5	3,4	41,8	8	51	58
168 699 00	AT10	10	16	8	9,0	5,0	80,0	15	41	108
168 799 00	AT10	10	25	8	9,0	5,0	80,0	15	50	134
168 899 00	AT10	10	32	8	9,0	5,0	80,0	15	57	160
168 999 00	AT10	10	50	8	9,0	5,0	80,0	15	75	220

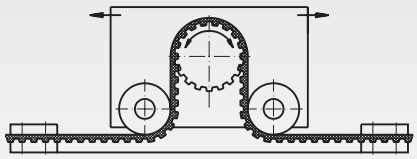
HTD-Profile

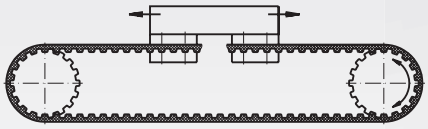
Product No.	Profile	P mm	Belt Width mm	F mm	d mm	B mm	A mm	S mm	C mm	Weight g
171 199 00	3M	3	9	4	4,5	2,0	25,0	6	24	8
171 399 00	3M	3	15	4	4,5	2,0	25,0	6	30	10
173 199 00	5M	5	10	6	5,5	3,4	41,8	8	28	17
173 399 00	5M	5	15	6	5,5	3,4	41,8	8	34	22
173 599 00	5M	5	25	6	5,5	3,4	41,8	8	44	30
175 199 00	8M	8	20	8	9,0	5,0	66,0	15	45	95
175 399 00	8M	8	30	8	9,0	5,0	66,0	15	55	120
175 599 00	8M	8	50	8	9,0	5,0	66,0	15	75	165

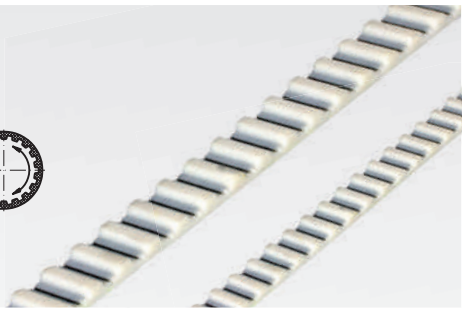
Inch-Profile

Product No.	Profile	P mm	Belt Width Inch	Belt Width mm	F mm	d mm	B mm	A mm	S mm	C mm	Weight g
180 899 00	XL	5,08	0,37	9,53	6	5,5	3,5	42,5	8	28,5	23
182 699 00	L	9,525	0,50	12,70	8	9,0	5,0	76,6	15	39,0	108
182 799 00	L	9,525	0,75	19,10	8	9,0	5,0	76,6	15	45,0	125
182 899 00	L	9,525	1,00	25,40	8	9,0	5,0	76,6	15	51,5	143
184 599 00	H	12,7	0,75	19,10	10	11,0	9,0	106,9	22	51,0	295
184 699 00	H	12,7	1,00	25,40	10	11,0	9,0	106,9	22	57,5	330
184 799 00	H	12,7	1,50	38,10	10	11,0	9,0	106,9	22	70,0	385
184 899 00	H	12,7	2,00	50,80	10	11,0	9,0	106,9	22	83,0	456

Open-Length Timing Belt from Thermoplastic Polyurethane (TPU), weldable







Material: Thermoplastic polyurethane (TPU), with steel tensile member. TPU belts can get welded (tensile force -50%).

Ordering Details: e.g.: 160 600 00, Open-Length Timing Belt T 2.5, Width 6 mm.

T Open-Length Timing Belts

Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force[1] N	Weight g/m	Matching Fixing Plate[2] Product No.
160 600 00	T 2,5	6	50	72	15	**160 699 00**
160 700 00	T 2,5	10	50	120	25	**160 799 00**
162 600 00	T 5	10	100	330	25	**162 699 00**
162 700 00	T 5	16	100	528	40	**162 799 00**
162 800 00	T 5	25	100	825	63	**162 899 00**
162 870 00	T 5	32	100	1056	80	**162 898 00**
162 880 00	T 5	50	100	1650	126	-
164 600 00	T 10	16	100	1248	77	**164 699 00**
164 700 00	T 10	25	100	1950	120	**164 799 00**
164 800 00	T 10	32	100	2495	154	**164 899 00**
164 860 00	T 10	50	100	3900	240	**164 999 00**
164 900 00	T 10	100	100	7800	480	-
165 600 00	T 20	50	100	7480	395	-
165 700 00	T 20	75	100	11220	585	-
165 800 00	T 20	100	100	18480	780	-

AT Open-Length Timing Belts

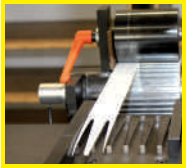
Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force[1] N	Weight g/m	Matching Fixing Plate[2] Product No.
166 600 00	AT 5	10	100	700	34	**166 699 00**
166 700 00	AT 5	16	100	1120	55	**166 799 00**
166 800 00	AT 5	25	100	1750	85	**166 899 00**
166 870 00	AT 5	32	100	2240	110	**166 898 00**
166 880 00	AT 5	50	100	3500	170	-
168 600 00	AT 10	16	100	2080	101	**168 699 00**
168 700 00	AT 10	25	100	3250	158	**168 799 00**
168 800 00	AT 10	32	100	4160	202	**168 899 00**
168 860 00	AT 10	50	100	6500	316	**168 999 00**
168 900 00	AT 10	100	100	13000	632	-
169 600 00	AT 20	50	100	11200	493	-
169 700 00	AT 20	75	100	16800	740	-
169 800 00	AT 20	100	100	24800	987	-

HTD Open-Length Timing Belts

Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force[1] N	Weight g/m	Matching Fixing Plate[2] Product No.
173 661 00	5 M	10[3]	100	780	48	**173 199 00**
173 663 00	5 M	15	100	1268	72	**173 399 00**
173 665 00	5 M	25	100	2145	120	**173 599 00**
173 667 00	5 M	50	100	4290	240	-
175 661 00	8 M	20	100	2640	140	**175 199 00**
175 663 00	8 M	30	100	3960	210	**175 399 00**
175 664 00	8 M	40	100	5280	280	-
175 665 00	8 M	50	100	7480	350	**175 599 00**
175 668 00	8 M	100	100	14960	700	-
177 661 00	14 M	40	100	9000	454	-
177 663 00	14 M	55	100	12800	625	-
177 665 00	14 M	85	100	21600	964	-

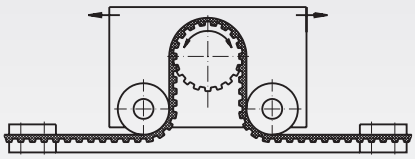
[1] Permissable force at open length. When welded, the force is reduced to 50%.
[2] Fixing Plates Page 171.
[3] Fits on pulleys for belt width 9 mm.

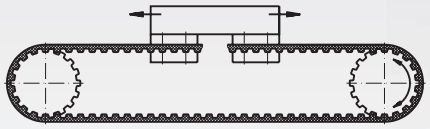
Other types and belt widths on request.

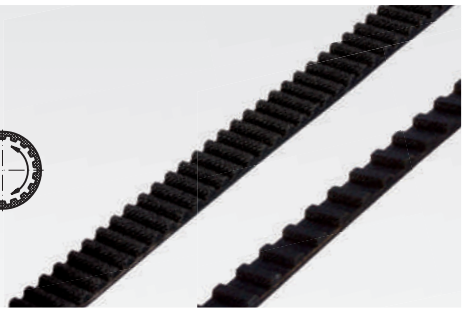


Timing Belt Welding within 24h-Service

Open-Length Timing Belts from Neoprene (Rubber)







Material: Neoprene with tensile member of glass-fibre. Neoprene belts cannot be welded.

Ordering Details: e.g.: 171 100 00, Open-Length Timing Belt HTD 3M, Width 9 mm.

HTD Open-Length Timing Belts

Product No.	Profile	Belt Width mm	Belt Length max. m	perm. Tensile Force for Belt N	Weight g/m	Matching Fixing Plate[1] Product No.
171 100 00	3 M	9	30	90	27	**171 199 00**
171 300 00	3 M	15	30	150	44	**171 399 00**
173 100 00	5 M	10[2]	30	208	37	**173 199 00**
173 300 00	5 M	15	30	312	61	**173 399 00**
173 500 00	5 M	25	30	520	102	**173 599 00**
175 100 00	8 M	20	30	750	128	**175 199 00**
175 300 00	8 M	30	30	1125	192	**175 399 00**
175 500 00	8 M	50	30	1875	320	**175 599 00**

[1] Fixing Plates page 171.

[2] Fits on pulleys for belt width 9 mm.

Open-Length Inch Timing Belts

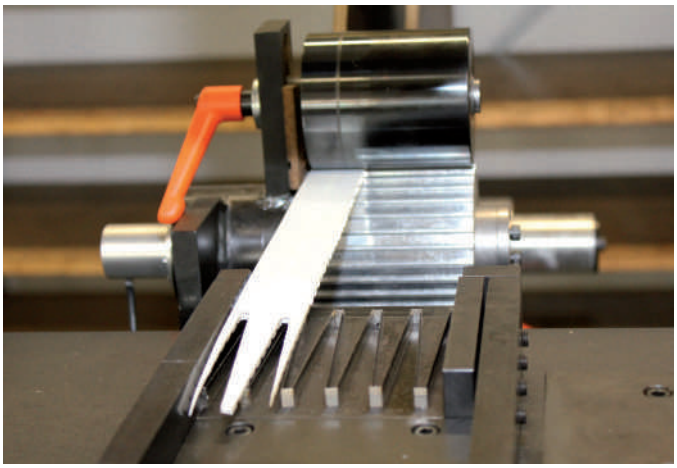
Product No.	Profile	Pitch mm	Belt Width Inch	Belt Width mm	Belt Length max. m	perm. Tensile Force,Belt N	Weight g/m	Matching Fixing Plate[1] Product No.
180 800 00	XL	5,08	0,37	9,53	30	53	30	**180 899 00**
182 600 00	L	9,525	0,50	12,70	30	124	40	**182 699 00**
182 700 00	L	9,525	0,75	19,10	30	187	70	**182 799 00**
182 800 00	L	9,525	1,00	25,40	30	249	90	**182 899 00**
184 500 00	H	12,7	0,75	19,10	30	449	100	**184 599 00**
184 600 00	H	12,7	1,00	25,40	30	597	140	**184 699 00**
184 700 00	H	12,7	1,50	38,10	30	895	200	**184 799 00**
184 800 00	H	12,7	2,00	50,80	30	1194	270	**184 899 00**

[1] Fixing Plates page 171.

Other types and belt widths on request.

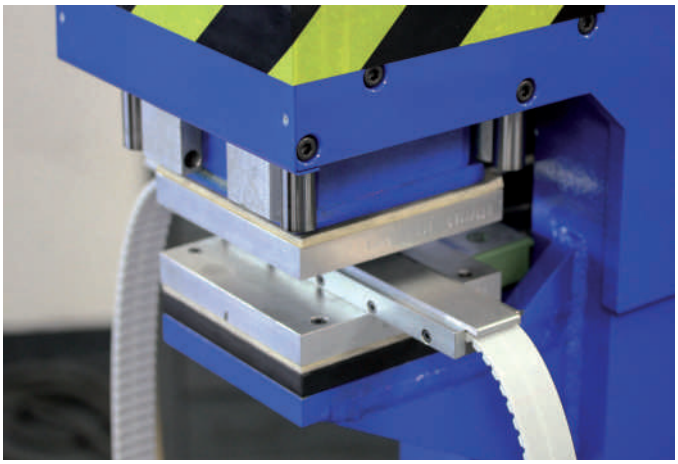
Timing Belts in Special Lengths:

- Open length belts from thermoplastic polyurethane (TPU) can get welded to endless belts of any number of teeth, beginning from pitch 2.5mm and width 6mm. Minimum length 420mm, depending on the belt profile and width.
- The welding is done directly in the timing belt stock of ***MÄDLER***®. Normally, the welded belts should be sent to the customer within 24 hours after receiving the order.
- From one-off pieces to large series at very short notice.



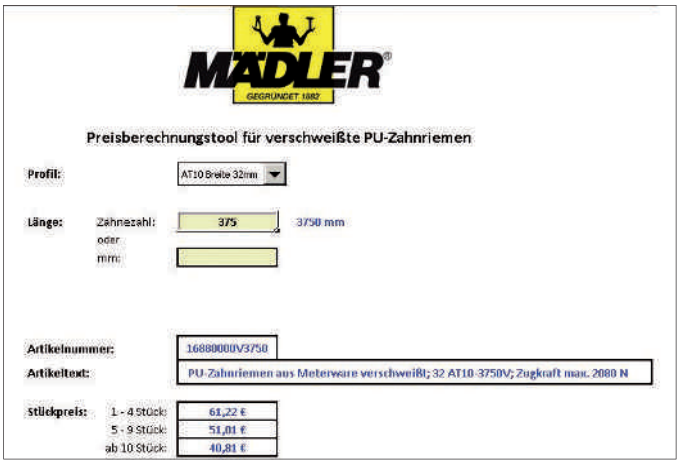
Cutting and Welding of Timing Belts:

- The ends get punched into the shape of fingers.
- The welding is done at high temperature. By this, the plastic melts and leads to a homogenous structure.
- After cooling down, the belt is ready to use and can be shiped immediately.
- The tensile members don´t get welded. So the tensile strength of a welded belt is approximate 50% of the open length belt.
- Alternatively, belts in special lengths also can get endless extruded. Minimum lengths and minimum order quantities have to be considered. Price and delivery time on request.



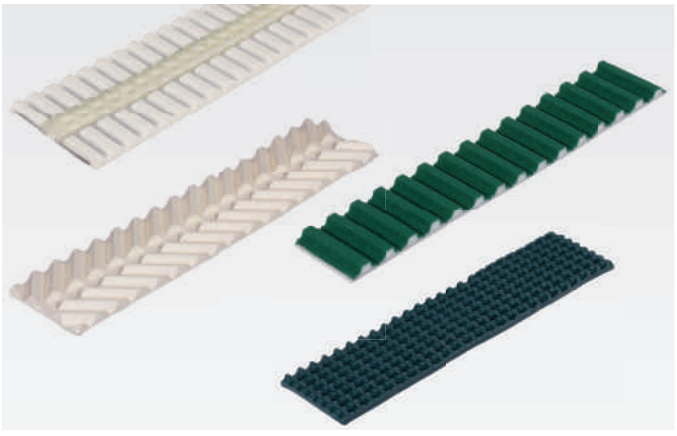
Price Calculator on the Internet:

- At www.maedler.de in the section Timing Belts and Pulleys, in the subsection Welding of Timing Belts.
- Quick overview about the stock range of profiles, widths and minimum lengths of weldable belts.
- After having selected a belt, you see the part number, product text and the prices for several quantities.



Other Special Belts (on request):

- Timing belts with teeth in V-formation.
- Self-tracking timing belts with central guide.
- Convoyer belts with texture or welded cams on the backside.
- Round belts and flat belts.
- V-belts and timing belts with tissue layer. Timing belts PAZ with polyamide fabric on the tooth side are on stock in many profiles and widths.



Timing Belts Profile T and AT

Material: Endless belts from cast polyurethane (PU), with steel tensile member. Open length belts from thermoplastic polyurethane TPU, weldable, with steel tensile member.

Timing belts in metric dimensions. Classical shape with trapezoid teeth.

Type T: Standard type for normal set-ups in size T 2.5, T 5 and T 10 in several widths.

Type AT: Reinforced type for the transmission of higher torques in sizes AT 5 and AT 10 in several widths. Due to their lower flexibility AT timing belts require a larger pulley diameter than T timing belts.

Please note: T timing belts only run on T pulleys.
AT timing belts only run on AT pulleys.

Special length: Open length belts, which are sold by the meter, are made from thermoplastic TPU and can get welded. To do this, the belt ends are cut in V-shape or finger shape, depending on the belt width, and then the TPU gets welded. The steel tensile member doesn´t get welded. Through the large overlap at the welding point a high durability is reached. It does however rate approx. 50% below the power transmission rate of the open length belts.

T-Timing Belts Profile T 2.5

Material: Endless belts from cast polyurethane (PU), with steel tensile member. Open length belts from thermoplastic polyurethane TPU, weldable, with steel tensile member.

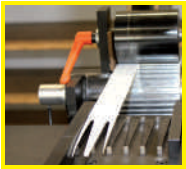
Metric

Ordering Details: e.g.: Product No. 160 601 00, PU-Timing Belt, Profile T 2.5, Belt Width 6 mm, 48 Teeth

Profile T 2.5, Pitch 2.5 mm

Product No. Width 6mm	Product No. Width 10mm	Effective Length mm	Number of teeth
160 601 00	160 701 00	120	48
160 602 00	160 702 00	145	58
160 603 00	160 703 00	160	64
160 604 00	160 704 00	177,5	71
160 605 00	160 705 00	200	80
160 606 00	160 706 00	230	92
160 607 00	160 707 00	245	98
160 608 00	160 708 00	265	106
160 609 00	160 709 00	285	114
160 610 00	160 710 00	305	122
160 611 00	160 711 00	317,5	127
160 612 00	160 712 00	330	132
160 613 00	160 713 00	380	152
160 614 00	160 714 00	420	168
160 615 00	160 715 00	480	192
160 617 00	160 717 00	500	200
160 618 00	160 718 00	600	240
160 619 00	160 719 00	620	248
160 620 00	160 720 00	650	260
160 621 00	160 721 00	780	312
160 622 00	160 722 00	915	366
160 623 00	160 723 00	950	380
160 600 00	160 700 00	Open length	-

Belts sold by the meter see page 172.
Performance figures see page 132.
Permissible tensile forces for the belts see page 129.



Timing Belt Welding within 24h-Service

T-Timing Belts

Material: Endless belts from cast polyurethane (PU), with steel tensile member.

Metric

Ordering Details: e.g.: Product No. 162 601 00, PU-Timing Belt, Profile T 5, 165 mm, Belt Width 10 mm, 33 Teeth

Profile T 5, Pitch 5 mm

Product No. Width 10mm	Product No. Width 16mm	Product No. Width 25mm	Product No. Width 32mm	Length* mm	No. of teeth
162 601 00	162 701 00	162 801 00	-	165	33
162 602 00	162 702 00	162 802 00	-	185	37
162 603 00	162 703 00	162 803 00	-	200	40
162 604 00	162 704 00	162 804 00	162 870 04	215	43
162 605 00	162 705 00	162 805 00	162 870 05	220	44
162 606 00	162 706 00	162 806 00	162 870 06	225	45
162 607 00	162 707 00	162 807 00	162 870 07	245	49
162 608 00	162 708 00	162 808 00	162 870 08	250	50
162 609 00	162 709 00	162 809 00	162 870 09	255	51
162 610 00	162 710 00	162 810 00	162 870 10	260	52
162 611 00	162 711 00	162 811 00	162 870 11	270	54
162 612 00	162 712 00	162 812 00	162 870 12	275	55
162 613 00	162 713 00	162 813 00	162 870 13	280	56
162 614 00	162 714 00	162 814 00	162 870 14	295	59
162 615 00	162 715 00	162 815 00	162 870 15	300	60
162 616 00	162 716 00	162 816 00	162 870 16	305	61
162 617 00	162 717 00	162 817 00	162 870 17	325	65
162 618 00	162 718 00	162 818 00	162 870 18	330	66
162 619 00	162 719 00	162 819 00	162 870 19	340	68
162 620 00	162 720 00	162 820 00	162 870 20	350	70
162 621 00	162 721 00	162 821 00	162 870 21	355	71
162 622 00	162 722 00	162 822 00	162 870 22	365	73
162 623 00	162 723 00	162 823 00	162 870 23	375	75
162 624 00	162 724 00	162 824 00	162 870 24	390	78
162 625 00	162 725 00	162 825 00	162 870 25	400	80
162 626 00	162 726 00	162 826 00	162 870 26	410	82
162 627 00	162 727 00	162 827 00	162 870 27	420	84
162 628 00	162 728 00	162 828 00	162 870 28	425	85
162 629 00	162 729 00	162 829 00	162 870 29	450	90
162 630 00	162 730 00	162 830 00	162 870 30	455	91
162 631 00	162 731 00	162 831 00	162 870 31	465	93
162 632 00	162 732 00	162 832 00	162 870 32	475	95
162 633 00	162 733 00	162 833 00	162 870 33	480	96
162 634 00	162 734 00	162 834 00	162 870 34	500	100
162 635 00	162 735 00	162 835 00	162 870 35	510	102
162 636 00	162 736 00	162 836 00	162 870 36	525	105
162 637 00	162 737 00	162 837 00	162 870 37	545	109
162 638 00	162 738 00	162 838 00	162 870 38	550	110
162 639 00	162 739 00	162 839 00	162 870 39	560	112
162 640 00	162 740 00	162 840 00	162 870 40	575	115
162 641 00	162 741 00	162 841 00	162 870 41	600	120
162 642 00	162 742 00	162 842 00	162 870 42	610	122
162 643 00	162 743 00	162 843 00	162 870 43	620	124
162 644 00	162 744 00	162 844 00	162 870 44	630	126
162 645 00	162 745 00	162 845 00	162 870 45	640	128
162 646 00	162 746 00	162 846 00	162 870 46	650	130
162 647 00	162 747 00	162 847 00	162 870 47	660	132
162 648 00	162 748 00	162 848 00	162 870 48	690	138
162 649 00	162 749 00	162 849 00	162 870 49	695	139
162 650 00	162 750 00	162 850 00	162 870 50	700	140
162 651 00	162 751 00	162 851 00	162 870 51	720	144
162 652 00	162 752 00	162 852 00	162 870 52	750	150
162 653 00	162 753 00	162 853 00	162 870 53	780	156
162 654 00	162 754 00	162 854 00	162 870 54	815	163
162 655 00	162 755 00	162 855 00	162 870 55	840	168
162 656 00	162 756 00	162 856 00	162 870 56	850	170
162 657 00	162 757 00	162 857 00	162 870 57	900	180
162 658 00	162 758 00	162 858 00	162 870 58	990	198
162 659 00	162 759 00	162 859 00	162 870 59	1000	200
162 660 00	162 760 00	162 860 00	162 870 60	1075	215
162 661 00	162 761 00	162 861 00	162 870 61	1100	220
162 662 00	162 762 00	162 862 00	162 870 62	1215	243
162 663 00	162 763 00	162 863 00	162 870 63	1380	276
162 664 00	162 764 00	162 864 00	162 870 64	1440	288
162 600 00	162 700 00	162 800 00	162 870 00	Open length**	

* Effective length.
** Open length from thermoplastic polyurethane (TPU), with steel tensile member.

Profile T 10, Pitch 10 mm

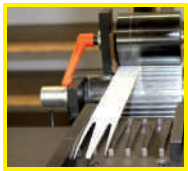
Product No. Width 16mm	Product No. Width 25mm	Product No. Width 32mm	Product No. Width 50mm	Length* mm	No. of teeth
164 601 00	164 701 00	164 801 00	164 861 00	260	26
164 602 00	164 702 00	164 802 00	164 862 00	370	37
164 603 00	164 703 00	164 803 00	164 863 00	400	40
164 604 00	164 704 00	164 804 00	164 864 00	410	41
164 605 00	164 705 00	164 805 00	164 865 00	440	44
164 606 00	164 706 00	164 806 00	164 866 00	450	45
164 607 00	164 707 00	164 807 00	164 867 00	500	50
164 608 00	164 708 00	164 808 00	164 868 00	530	53
164 609 00	164 709 00	164 809 00	164 869 00	560	56
164 610 00	164 710 00	164 810 00	164 870 00	610	61
164 611 00	164 711 00	164 811 00	164 871 00	630	63
164 612 00	164 712 00	164 812 00	164 872 00	660	66
164 613 00	164 713 00	164 813 00	164 873 00	690	69
164 614 00	164 714 00	164 814 00	164 874 00	700	70
164 615 00	164 715 00	164 815 00	164 875 00	720	72
164 616 00	164 716 00	164 816 00	164 876 00	750	75
164 617 00	164 717 00	164 817 00	164 877 00	780	78
164 618 00	164 718 00	164 818 00	164 878 00	810	81
164 619 00	164 719 00	164 819 00	164 879 00	840	84
164 620 00	164 720 00	164 820 00	164 880 00	880	88
164 621 00	164 721 00	164 821 00	164 881 00	890	89
164 622 00	164 722 00	164 822 00	164 882 00	900	90
164 623 00	164 723 00	164 823 00	164 883 00	920	92
164 624 00	164 724 00	164 824 00	164 884 00	960	96
164 625 00	164 725 00	164 825 00	164 885 00	970	97
164 626 00	164 726 00	164 826 00	164 886 00	980	98
164 627 00	164 727 00	164 827 00	164 887 00	1010	101
164 628 00	164 728 00	164 828 00	164 888 00	1080	108
164 629 00	164 729 00	164 829 00	164 889 00	1110	111
164 630 00	164 730 00	164 830 00	164 890 00	1140	114
164 631 00	164 731 00	164 831 00	164 891 00	1150	115
164 632 00	164 732 00	164 832 00	164 892 00	1210	121
164 633 00	164 733 00	164 833 00	164 893 00	1240	124
164 634 00	164 734 00	164 834 00	164 894 00	1250	125
164 635 00	164 735 00	164 835 00	164 895 00	1300	130
164 636 00	164 736 00	164 836 00	164 896 00	1320	132
164 637 00	164 737 00	164 837 00	164 897 00	1350	135
164 638 00	164 738 00	164 838 00	164 898 00	1390	139
164 639 00	164 739 00	164 839 00	164 979 00	1400	140
164 640 00	164 740 00	164 840 00	164 980 00	1420	142
164 641 00	164 741 00	164 841 00	164 981 00	1440	144
164 642 00	164 742 00	164 842 00	164 982 00	1450	145
164 643 00	164 743 00	164 843 00	164 983 00	1460	146
164 644 00	164 744 00	164 844 00	164 984 00	1500	150
164 645 00	164 745 00	164 845 00	164 985 00	1560	156
164 646 00	164 746 00	164 846 00	164 986 00	1610	161
164 647 00	164 747 00	164 847 00	164 987 00	1750	175
164 648 00	164 748 00	164 848 00	164 988 00	1780	178
164 649 00	164 749 00	164 849 00	164 989 00	1880	188
164 650 00	164 750 00	164 850 00	164 990 00	1960	196
164 651 00	164 751 00	164 851 00	164 991 00	2250	225
164 600 00	164 700 00	164 800 00	164 860 00	Open length**	

Endless belts welded together from material sold by the meter can be supplied on request in any special length.

Belts sold by the meter and fixing plates see page 171.

Performance figures see page 132.

Permissible tensile forces for the belts see page 129.



Timing Belt Welding within 24h-Service

AT-Timing Belts

Material: Endless belts from cast polyurethane (PU), with steel tensile member.

Metric

Ordering Details: e.g.: Product No. 166 601 00, PU Timing Belts, Profile AT 5, 225 mm, Belt Width 10 mm, 45 Teeth

Profile AT 5, Pitch 5 mm

Product No. Width 10mm	Product No. Width 16mm	Product No. Width 25mm	Product No. Width 32mm	Length* mm	No. of teeth
166 601 00	166 701 00	166 801 00	-	225	45
166 602 00	166 702 00	166 802 00	-	255	51
166 603 00	166 703 00	166 803 00	-	275	55
166 604 00	166 704 00	166 804 00	166 870 04	280	56
166 605 00	166 705 00	166 805 00	166 870 05	300	60
166 606 00	166 706 00	166 806 00	166 870 06	340	68
166 607 00	166 707 00	166 807 00	166 870 07	375	75
166 608 00	166 708 00	166 808 00	166 870 08	390	78
166 609 00	166 709 00	166 809 00	166 870 09	420	84
166 610 00	166 710 00	166 810 00	166 870 10	455	91
166 611 00	166 711 00	166 811 00	166 870 11	500	100
166 612 00	166 712 00	166 812 00	166 870 12	545	109
166 613 00	166 713 00	166 813 00	166 870 13	600	120
166 614 00	166 714 00	166 814 00	166 870 14	610	122
166 615 00	166 715 00	166 815 00	166 870 15	630	126
166 616 00	166 716 00	166 816 00	166 870 16	660	132
166 617 00	166 717 00	166 817 00	166 870 17	720	144
166 618 00	166 718 00	166 818 00	166 870 18	750	150
166 619 00	166 719 00	166 819 00	166 870 19	780	156
166 620 00	166 720 00	166 820 00	166 870 20	825	165
166 621 00	166 721 00	166 821 00	166 870 21	975	195
166 622 00	166 722 00	166 822 00	166 870 22	1050	210
166 623 00	166 723 00	166 823 00	166 870 23	1125	225
166 624 00	166 724 00	166 824 00	166 870 24	1500	300
166 600 00	166 700 00	166 800 00	166 870 00	Open length**	

Profile AT 10, Pitch 10 mm

Product No. Width 16mm	Product No. Width 25mm	Product No. Width 32mm	Product No. Width 50mm	Length* mm	No. of teeth
168 601 00	168 701 00	168 801 00	168 831 00	500	50
168 602 00	168 702 00	168 802 00	168 832 00	560	56
168 603 00	168 703 00	168 803 00	168 833 00	610	61
168 604 00	168 704 00	168 804 00	168 834 00	660	66
168 605 00	168 705 00	168 805 00	168 835 00	700	70
168 606 00	168 706 00	168 806 00	168 836 00	730	73
168 607 00	168 707 00	168 807 00	168 837 00	780	78
168 608 00	168 708 00	168 808 00	168 838 00	800	80
168 609 00	168 709 00	168 809 00	168 839 00	810	81
168 610 00	168 710 00	168 810 00	168 840 00	840	84
168 611 00	168 711 00	168 811 00	168 841 00	890	89
168 612 00	168 712 00	168 812 00	168 842 00	920	92
168 613 00	168 713 00	168 813 00	168 843 00	960	96
168 614 00	168 714 00	168 814 00	168 844 00	980	98
168 615 00	168 715 00	168 815 00	168 845 00	1010	101
168 616 00	168 716 00	168 816 00	168 846 00	1050	105
168 617 00	168 717 00	168 817 00	168 847 00	1080	108
168 618 00	168 718 00	168 818 00	168 848 00	1150	115
168 619 00	168 719 00	168 819 00	168 849 00	1210	121
168 620 00	168 720 00	168 820 00	168 850 00	1250	125
168 621 00	168 721 00	168 821 00	168 851 00	1320	132
168 622 00	168 722 00	168 822 00	168 852 00	1400	140
168 623 00	168 723 00	168 823 00	168 853 00	1500	150
168 624 00	168 724 00	168 824 00	168 854 00	1600	160
168 625 00	168 725 00	168 825 00	168 855 00	1700	170
168 626 00	168 726 00	168 826 00	168 856 00	1800	180
168 600 00	168 700 00	168 800 00	168 860 00	Open length**	

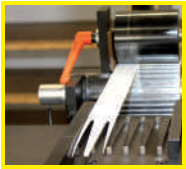
* Effective length.
** Open length from thermoplastic polyurethane (TPU), with steel tensile member.

Endless belts welded together from material sold by the meter can be supplied on request in any special length.

Belts sold by the meter and fixing plates see page 171.

Performance figures see page 132.

Permissible tensile forces for the belts see page 129.



Timing Belt Welding within 24h-Service

HTD-Timing Belts

Material: Neoprene with glass-fibre tensile member.
Contact surface lined with nylon reinforcement.

HTD (High Torque Drive) timing belt with semi-circular teeth profile for a more constant progress of stress in the tooth profile, for the transmission of high loads.

Ordering Details: e.g.: 171 105 00, HTD Timing Belts, Profile 3M, 111 mm, Belt Width 9 mm, 37 Teeth

HTD

Profile HTD 3M, Pitch 3 mm

Product No. Width 9 mm	Product No. Width 15 mm	Effective Length mm	Number of teeth
171 105 00	171 305 00	111	37
171 108 00	171 308 00	144	48
171 110 00	171 310 00	150	50
171 112 00	171 312 00	159	53
171 114 00	171 314 00	168	56
171 116 00	171 316 00	177	59
171 118 00	171 318 00	201	67
171 120 00	171 320 00	210	70
171 121 00	171 321 00	213	71
171 122 00	171 322 00	216	72
171 124 00	171 324 00	225	75
171 127 00	171 327 00	252	84
171 128 00	171 328 00	255	85
171 130 00	171 330 00	267	89
171 132 00	171 332 00	285	95
171 133 00	171 333 00	300	100
171 134 00	171 334 00	312	104
171 135 00	171 335 00	318	106
171 137 00	171 337 00	336	112
171 138 00	171 338 00	339	113
171 140 00	171 340 00	363	121
171 142 00	171 342 00	384	128
171 143 00	171 343 00	390	130
171 145 00	171 345 00	420	140
171 147 00	171 347 00	447	149
171 149 00	171 349 00	474	158
171 150 00	171 350 00	486	162
171 152 00	171 352 00	501	167
171 154 00	171 354 00	513	171
171 156 00	171 356 00	531	177
171 157 00	171 357 00	537	179
171 159 00	171 359 00	564	188
171 161 00	171 361 00	597	199
171 162 00	171 362 00	606	202
171 164 00	171 364 00	633	211
171 167 00	171 367 00	669	223
171 170 00	171 370 00	711	237
171 173 00	171 373 00	882	294
171 175 00	171 375 00	945	315
171 178 00	171 378 00	1062	354
171 180 00	171 380 00	1125	375
171 184 00	171 384 00	1263	421
171 188 00	171 388 00	1500	500
171 190 00	171 390 00	1530	510
171 192 00	171 392 00	1569	523
171 100 00	171 300 00	Open length	-

Profile HTD 5M, Pitch 5 mm

Product No. Width 9 mm	Product No. Width 15 mm	Product No. Width 25 mm	Effective Length mm	No. of teeth
173 112 00	173 312 00	173 512 00	330	66
173 114 00	173 314 00	173 514 00	350	70
173 116 00	173 316 00	173 516 00	375	75
173 118 00	173 318 00	173 518 00	400	80
173 120 00	173 320 00	173 520 00	425	85
173 122 00	173 322 00	173 522 00	450	90
173 126 00	173 326 00	173 526 00	500	100
173 128 00	173 328 00	173 528 00	535	107
173 130 00	173 330 00	173 530 00	565	113
173 132 00	173 332 00	173 532 00	600	120
173 133 00	173 333 00	173 533 00	615	123
173 134 00	173 334 00	173 534 00	635	127
173 136 00	173 336 00	173 536 00	665	133
173 139 00	173 339 00	173 539 00	710	142
173 141 00	173 341 00	173 541 00	740	148
173 142 00	173 342 00	173 542 00	755	151
173 144 00	173 344 00	173 544 00	800	160
173 146 00	173 346 00	173 546 00	835	167
173 149 00	173 349 00	173 549 00	890	178
173 151 00	173 351 00	173 551 00	925	185
173 152 00	173 352 00	173 552 00	950	190
173 154 00	173 354 00	173 554 00	1000	200
173 156 00	173 356 00	173 556 00	1050	210
173 159 00	173 359 00	173 559 00	1125	225
173 163 00	173 363 00	173 563 00	1270	254
173 167 00	173 367 00	173 567 00	1420	284
173 169 00	173 369 00	173 569 00	1500	300
173 171 00	173 371 00	173 571 00	1595	319
173 175 00	173 375 00	173 575 00	1790	358
173 176 00	173 376 00	173 576 00	1800	360
173 178 00	173 378 00	173 578 00	1870	374
173 179 00	173 379 00	173 579 00	1895	379
173 182 00	173 382 00	173 582 00	2000	400
173 188 00	173 388 00	173 588 00	2525	505
173 100 00*	173 300 00	173 500 00	Open length	-

* Width 10 mm

Belts sold by the meter see page 172.
Performance figures see page 132.
Permissible tensile forces for the belts see page 129.

HTD-Timing Belts

Material: Neoprene with glass-fibre tensile member.
Contact surface lined with nylon reinforcement.

HTD (High Torque Drive) timing belt with half-round teeth for a more even progress of stress in the tooth profile, used for the transmission of high powers.

Ordering Details: e.g.: 175 105 00, HTD Timing Belts, Profile 8M, 480 mm, Belt Width 20 mm, 60 Teeth

HTD

Profile HTD 8M, Pitch 8 mm

Product No. Width 20 mm	Product No. Width 30 mm	Product No. Width 50 mm	Effective Length mm	No. of teeth
175 105 00	175 305 00	175 505 00	480	60
175 107 00	175 307 00	175 507 00	560	70
175 109 00	175 309 00	175 509 00	600	75
175 111 00	175 311 00	175 511 00	640	80
175 112 00	175 312 00	175 512 00	656	82
175 114 00	175 314 00	175 514 00	720	90
175 117 00	175 317 00	175 517 00	800	100
175 119 00	175 319 00	175 519 00	880	110
175 121 00	175 321 00	175 521 00	960	120
175 124 00	175 324 00	175 524 00	1040	130
175 126 00	175 326 00	175 526 00	1120	140
175 128 00	175 328 00	175 528 00	1200	150
175 130 00	175 330 00	175 530 00	1280	160
175 132 00	175 332 00	175 532 00	1360	170
175 134 00	175 334 00	175 534 00	1440	180
175 137 00	175 337 00	175 537 00	1600	200
175 140 00	175 340 00	175 540 00	1760	220
175 142 00	175 342 00	175 542 00	1800	225
175 144 00	175 344 00	175 544 00	2000	250
175 148 00	175 348 00	175 548 00	2400	300
175 152 00	175 352 00	175 552 00	2800	350
175 100 00	175 300 00	175 500 00	Open length	-

Profile HTD 14M, Pitch 14 mm

Product No. Width 40 mm	Product No. Width 55 mm	Product No. Width 85 mm	Effective Length mm	No. of teeth
177 108 00	177 308 00	177 508 00	966	69
177 111 00	177 311 00	177 511 00	1190	85
177 114 00	177 314 00	177 514 00	1400	100
177 117 00	177 317 00	177 517 00	1610	115
177 120 00	177 320 00	177 520 00	1778	127
177 122 00	177 322 00	177 522 00	1890	135
177 125 00	177 325 00	177 525 00	2100	150
177 128 00	177 328 00	177 528 00	2310	165
177 130 00	177 330 00	177 530 00	2450	175
177 132 00	177 332 00	177 532 00	2590	185
177 136 00	177 336 00	177 536 00	2800	200
177 139 00	177 339 00	177 539 00	3150	225
177 142 00	177 342 00	177 542 00	3500	250
177 145 00	177 345 00	177 545 00	3850	275
177 148 00	177 348 00	177 548 00	4326	309
177 151 00	177 351 00	177 551 00	4578	327

Performance figures see page 132.
Permissible tensile forces for the belts see page 129.

Standard Timing Belt, Inch Pitch

Material: Neoprene with glass-fibre tensile member.
Teeth surface fabric-coated.

Timing belt with inch dimensions, classical shape with trapezoid teeth.

Inch

Ordering Details: e.g.: Product No. 181 802 00, Standard Timing Belt, Pitch MXL = 0.08“, 91.44 mm

Pitch MXL = 0.08“ (2.032 mm), Standard-Width 025 (1/4“ = 6.35 mm)

Product No.	Type	Nom. Length Inch	Nom. Length mm	Number of teeth
181 802 00	36 MXL	3,6	91,44	45
181 804 00	40 MXL	4,0	101,60	50
181 807 00	44 MXL	4,4	111,76	55
181 810 00	48 MXL	4,8	121,92	60
181 815 00	52 MXL	5,2	132,08	65
181 820 00	56 MXL	5,6	142,24	70
181 825 00	60 MXL	6,0	152,40	75
181 830 00	64 MXL	6,4	162,56	80
181 832 00	68 MXL	6,8	172,72	85
181 835 00	72 MXL	7,2	182,88	90
181 840 00	80 MXL	8,0	203,20	100
181 845 00	88 MXL	8,8	223,52	110
181 850 00	100 MXL	10,0	254,00	125
181 855 00	112 MXL	11,2	284,48	140
181 860 00	124 MXL	12,4	314,96	155
181 865 00	140 MXL	14,0	355,60	175
181 870 00	160 MXL	16,0	406,40	200
181 875 00	180 MXL	18,0	457,20	225
181 880 00	200 MXL	20,0	508,00	250
181 885 00	224 MXL	22,4	568,96	280
181 890 00	240 MXL	24,0	609,60	300
181 895 00	256 MXL	25,6	650,24	320

Belts MXL sold by the meter on request.
Other widths available on request.

Pitch XL = 1/5“ (5.08 mm), Standard-Width 037 (3/8“ = 9.53 mm)

Product No.	Type	Nom. Length Inch	Nom. Length mm	Number of teeth
180 812 00	60 XL	6	152,4	30
180 814 00	70 XL	7	177,8	35
180 816 00	80 XL	8	203,2	40
180 818 00	90 XL	9	228,6	45
180 820 00	100 XL	10	254,0	50
180 822 00	110 XL	11	279,4	55
180 824 00	120 XL	12	304,8	60
180 826 00	130 XL	13	330,2	65
180 828 00	140 XL	14	355,6	70
180 830 00	150 XL	15	381,0	75
180 832 00	160 XL	16	406,4	80
180 834 00	170 XL	17	431,8	85
180 836 00	180 XL	18	457,2	90
180 838 00	190 XL	19	482,6	95
180 840 00	200 XL	20	508,0	100
180 842 00	210 XL	21	533,4	105
180 844 00	220 XL	22	558,8	110
180 846 00	230 XL	23	584,2	115
180 848 00	240 XL	24	609,6	120
180 850 00	250 XL	25	635,0	125
180 852 00	260 XL	26	660,4	130
180 800 00	XL	Open length		

Pitch L = 3/8“ (9.525 mm) Standard Widths 050 (1/2“= 12.7 mm); 075 (3/4“= 19.1 mm); 100 (1“= 25.4 mm)

Product No. Width 050	Product No. Width 075	Product No. Width 100	Type	Nom. Length Inch	Nom. Length mm	Number of teeth
182 612 00	182 712 00	182 812 00	124 L	12,375	314,33	33
182 615 00	182 715 00	182 815 00	150 L	15	381	40
182 619 00	182 719 00	182 819 00	187 L	18,75	476,25	50
182 621 00	182 721 00	182 821 00	210 L	21	533,4	56
182 622 00	182 722 00	182 822 00	225 L	22,5	571,5	60
182 624 00	182 724 00	182 824 00	240 L	24	609,6	64
182 626 00	182 726 00	182 826 00	255 L	25,5	647,7	68
182 627 00	182 727 00	182 827 00	270 L	27	685,8	72
182 629 00	182 729 00	182 829 00	285 L	28,5	723,9	76
182 630 00	182 730 00	182 830 00	300 L	30	762	80
182 632 00	182 732 00	182 832 00	322 L	32,25	819,15	86
182 635 00	182 735 00	182 835 00	345 L	34,5	876,3	92
182 637 00	182 737 00	182 837 00	367 L	36,75	933,45	98
182 639 00	182 739 00	182 839 00	390 L	39	990,6	104
182 642 00	182 742 00	182 842 00	420 L	42	1066,8	112
182 645 00	182 745 00	182 845 00	450 L	45	1143	120
182 648 00	182 748 00	182 848 00	480 L	48	1219,2	128
182 651 00	182 751 00	182 851 00	510 L	51	1295,4	136
182 654 00	182 754 00	182 854 00	540 L	54	1371,6	144
182 660 00	182 760 00	182 860 00	600 L	60	1524	160
182 600 00	182 700 00	182 800 00	L	Open length		

Belts sold by the meter see page 172.
Performance figures see page 132.
Permissible tensile forces for the belts see page 129.

Standard Timing Belt, Inch Pitch

Material: Neoprene with glass-fibre tensile member.
Teeth surface fabric-coated.

Timing belt with inch dimensions, classical shape with trapezoid teeth.

Ordering Details: e.g.: Product No. 184 513 00, Standard Timing Belt, Pitch H = 1/2", Width 075, 609.6 mm

Pitch H = 1/2" (12.7 mm)
Standard Width 075 (3/4"= 19.1 mm); 100 (1"= 25.4 mm); 150 (1 1/2" = 38.1 mm); 200 (2" = 50.8 mm)

Product No. Width 075	Product No. Width 100	Product No. Width 150	Product No. Width 200	Type	Nom. Length Inch	Nom. Length mm	Number of teeth
184 513 00	184 613 00	184 713 00	184 813 00	240 H	24	609,6	48
184 515 00	184 615 00	184 715 00	184 815 00	270 H	27	685,8	54
184 517 00	184 617 00	184 717 00	184 817 00	300 H	30	762	60
184 519 00	184 619 00	184 719 00	184 819 00	330 H	33	838,2	66
184 520 00	184 620 00	184 720 00	184 820 00	360 H	36	914,4	72
184 522 00	184 622 00	184 722 00	184 822 00	390 H	39	990,6	78
184 524 00	184 624 00	184 724 00	184 824 00	420 H	42	1066,8	84
184 525 00	184 625 00	184 725 00	184 825 00	450 H	45	1143	90
184 527 00	184 627 00	184 727 00	184 827 00	480 H	48	1219,2	96
184 529 00	184 629 00	184 729 00	184 829 00	510 H	51	1295,4	102
184 531 00	184 631 00	184 731 00	184 831 00	540 H	54	1371,6	108
184 533 00	184 633 00	184 733 00	184 833 00	570 H	57	1447,8	114
184 535 00	184 635 00	184 735 00	184 835 00	600 H	60	1524	120
184 537 00	184 637 00	184 737 00	184 837 00	630 H	63	1600,2	126
184 539 00	184 639 00	184 739 00	184 839 00	660 H	66	1676,4	132
184 541 00	184 641 00	184 741 00	184 841 00	700 H	70	1778	140
184 543 00	184 643 00	184 743 00	184 843 00	750 H	75	1905	150
184 545 00	184 645 00	184 745 00	184 845 00	800 H	80	2032	160
184 547 00	184 647 00	184 747 00	184 847 00	850 H	85	2159	170
184 550 00	184 650 00	184 750 00	184 850 00	900 H	90	2286	180
184 556 00	184 656 00	184 756 00	184 856 00	1000 H	100	2540	200
184 561 00	184 661 00	184 761 00	184 861 00	1100 H	110	2794	220
184 569 00	184 669 00	184 769 00	184 869 00	1250 H	125	3175	250
184 578 00	184 678 00	184 778 00	184 878 00	1400 H	140	3556	280
184 500 00	184 600 00	184 700 00	184 800 00	H	Open length		

The pitch XH and XXH are not listed above, but can be supplied on request.

Belts sold by the meter see page 172.
Performance figures see page 132.
Permissible tensile forces for the belts see page 129.

Tensioning Rollers and Tensioning Elements for Timing Belts

Tensioning rollers are used for tensioning on the outside of the belt (back of belt). The tensioning rollers can either be mounted rigidly or be combined with tensioning elements to make up an elastic belt tensioner.

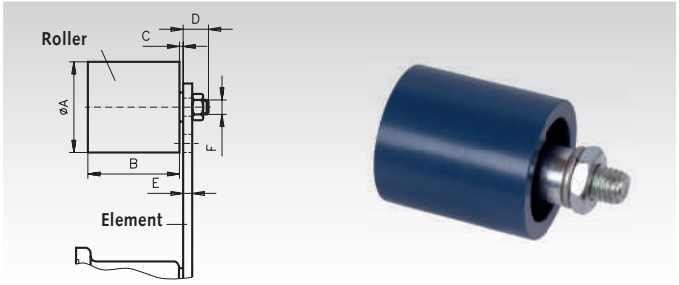
Note: tensioning rollers mounted on the outside of the closed span, shorten the service life of the belt due to alternate bending conditions. This means that when an outside tensioning roller is mounted a corrective factor of at least 1.2 has to be used when calculating the drive. If the belt is tensioned from the inside, a toothed pulley must be used (pulley with ball bearing only made to order).

Tensioning Rollers

Material: Short roller made from high-grade industrial plastic.

Mounted on a suitable tensioning element, the tensioning roller becomes a ready-to-mount belt tensioner or on its own it can be used as idler. It runs on two permanently lubricated 2-Z ball bearings.

Tensioning element has to be ordered separately.

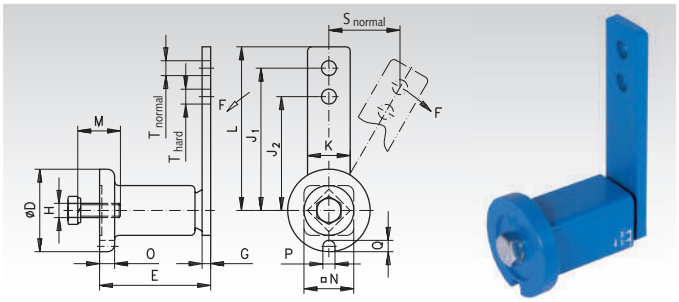


Product-No.	Diameter A mm	Product No. Tensioning Element matching	B mm	C mm	D mm	E max. mm	F mm	Weight kg
140 872 00	30	**140 800 00**	35	2	14	5	M8	0,08
140 874 00	40	**140 801 00**	45	6	16	7	M10	0,17
140 876 00	60	**140 803 00**	60	8	17	8	M12	0,40
140 878 00	80	**140 804 00**	90	8	25	10	M20	1,15

Tensioning Elements

Material: Lever made from St52, housing up to Ø 78 mm made from sintered steel, over Ø 78 mm made from grey cast iron GG20.
Tensioning elements are painted blue and are supplied with a zinc-plated screw and a spring washer.

These tensioning element can be used for tensioning all common kinds of chain and belt drives. The spring elements are based on highly-elastic natural rubber with a good shape memory and are designed for applications in temperatures from -40° to +80°C. Can be used for both tensioning directions.



Product No.	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	T mm	M_A Nm	Weight kg
140 800 00	0	80	106	40	30	35	51 $^{+1,0}_{-0,5}$	5	M6	80	60	20	90	20	22	6	8	5	8,5	10	0,2
140 801 00	1	135	168	50	40	45	64 $^{+1,0}_{-0,5}$	5	M8	100	80	25	112,5	25	30	8	8,5	6	10,5	25	0,4
140 802 00	2	350	437	50	40	58	79 $^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	10,5	49	0,6
140 803 00	3	800	1040	65	50	78	108 $^{+2}_{-0,5}$	8	M12	130	100	50	155	40	52	15	10,5	10	12,5	86	1,7
140 804 00	4	1500	1875	87,5	70	95	140 $^{+2}_{-0,5}$	10	M16	175	140	60	205	40	66	15	12,5	12	20,5	210	3,55

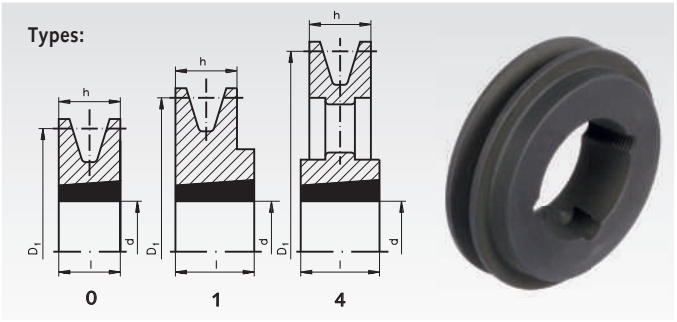
Other tensioning element versions (stainless, zinc plated etc.) see page 116.

V-Belt Pulleys for Taper Bushes, 1 Groove

Material: cast iron EN-GJL200.

Taper V-belt pulleys similar to DIN 2211 or DIN 2217 matching narrow V-belts DIN 2215 und DIN 7753.

Design:
B = dished pulley
V = solid pulley



Ordering Details: e.g.: Product No. 151 106 00, V-Belt Pulley for Taper Clamping Bush, 1 Groove, Profile 10, Ø63 mm

Profile 10 and SPZ

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
151 106 00	63	V	1	16	22	one-sided projecting 6	1108	10 - 28	0,30
151 107 00	71	V	1	16	22	one-sided projecting 6	1108	10 - 28	0,40
151 108 00	80	V	1	16	25	one-sided projecting 9	1210	10 - 32	0,50
151 109 00	90	V	1	16	25	one-sided projecting 9	1210	10 - 32	0,70
151 110 00	100	V	1	16	25	one-sided projecting 9	1210	10 - 32	0,80
151 111 00	112	V	1	16	25	one-sided projecting 9	1610	12 - 42	1,00
151 112 00	125	V	1	16	25	one-sided projecting 9	1610	12 - 42	1,20
151 114 00	140	V	1	16	25	one-sided projecting 9	1610	12 - 42	1,60
151 116 00	160	V	1	16	25	one-sided projecting 9	1610	12 - 42	2,10
151 118 00	180	B	4	16	25	one-sided projecting 9	1610	12 - 42	1,80
151 120 00	200	B	4	16	32	one-sided projecting 16	2012	12 - 50	2,50
151 122 00	224	B	4	16	32	one-sided projecting 16	2012	12 - 50	2,80
151 125 00	250	B	4	16	32	projecting on both sides 8	2012	12 - 50	3,30
151 128 00	280	B	4	16	32	projecting on both sides 8	2012	12 - 50	3,80
151 131 00	315	B	4	16	32	projecting on both sides 8	2012	12 - 50	4,80

Profile 13 and SPA

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
153 107 00	71	V	1	20	22	one-sided projecting 2	1108	10 - 28	0,40
153 108 00	80	V	1	20	25	one-sided projecting 5	1210	10 - 32	0,53
153 109 00	90	V	1	20	25	one-sided projecting 5	1210	10 - 32	0,80
153 110 00	100	V	1	20	25	one-sided projecting 5	1610	12 - 42	0,90
153 111 00	112	V	1	20	25	one-sided projecting 5	1610	12 - 42	1,00
153 112 00	125	V	1	20	25	one-sided projecting 5	1610	12 - 42	1,30
153 114 00	140	V	1	20	25	one-sided projecting 5	1610	12 - 42	1,80
153 116 00	160	V	1	20	25	one-sided projecting 5	1610	12 - 42	2,20
153 118 00	180	B	4	20	25	one-sided projecting 5	1610	12 - 42	2,10
153 120 00	200	B	4	20	32	one-sided projecting 12	2012	12 - 50	2,80
153 122 00	224	B	4	20	32	one-sided projecting 12	2012	12 - 50	3,20
153 125 00	250	B	4	20	32	projecting on both sides 6	2012	12 - 50	3,70
153 128 00	280	B	4	20	32	one-sided projecting 12	2012	12 - 50	4,00
153 131 00	315	B	4	20	32	one-sided projecting 12	2012	12 - 50	4,60

Profile 17 and SPB

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
155 110 00	100	V	0	25	25	flush on both sides	1610	12 - 42	0,90
155 111 00	112	V	0	25	25	flush on both sides	1610	12 - 42	1,10
155 112 00	125	V	0	25	25	flush on both sides	1610	12 - 42	1,50
155 114 00	140	V	0	25	25	flush on both sides	1610	12 - 42	2,00
155 116 00	160	V	0	25	25	flush on both sides	1610	12 - 42	2,80
155 118 00	180	V	4	25	25	flush on both sides	1610	12 - 42	3,70
155 120 00	200	B	4	25	32	projecting on both sides 3.5	2012	12 - 50	4,10
155 122 00	224	B	4	25	32	projecting on both sides 3.5	2012	12 - 50	4,60
155 125 00	250	B	4	25	32	projecting on both sides 3.5	2012	12 - 50	5,60
155 128 00	280	B	4	25	32	projecting on both sides 3.5	2012	12 - 50	8,00

Matching Taper bushes see page 186.
Mounting instructions see page 824.

Other diameters or larger number of grooves at short notice, on request.

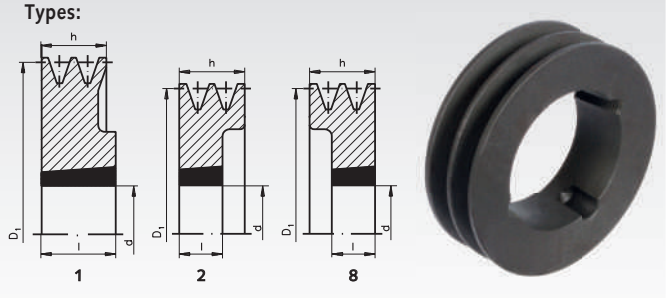
V-Belt Pulleys for Taper Bushes, 2 Grooves

Material: cast iron EN-GJL200.

Taper V-belt pulleys similar to DIN 2211 or DIN 2217 matching narrow V-belts DIN 2215 und DIN 7753.

Design:
A = spoked pulley
B = dished pulley
V = solid pulley

Types:



Ordering Details: e.g.: Product No. 151 206 00, V-Belt Pulley for Taper Clamping Bush, 2 Grooves, Profile 10, Ø63 mm

Profile 10 and SPZ

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
151 206 00	63	V	8	28	22	one-sided set back 6	1108	10 - 28	0,45
151 207 00	71	V	8	28	22	one-sided set back 6	1108	10 - 28	0,48
151 208 00	80	V	8	28	25	one-sided set back 3	1210	10 - 32	0,57
151 209 00	90	V	8	28	25	one-sided set back 3	1610	12 - 42	0,67
151 210 00	100	V	8	28	25	one-sided set back 3	1610	12 - 42	0,94
151 211 00	112	V	8	28	25	one-sided set back 3	1610	12 - 42	1,30
151 212 00	125	V	8	28	25	one-sided set back 3	1610	12 - 42	1,80
151 214 00	140	V	8	28	25	one-sided set back 3	1610	12 - 42	2,40
151 216 00	160	V	1	28	32	one-sided projecting 4	2012	12 - 50	3,10
151 218 00	180	B	1	28	32	one-sided projecting 4	2012	12 - 50	2,70
151 220 00	200	B	1	28	32	one-sided projecting 4	2012	12 - 50	3,10
151 222 00	224	B	1	28	32	one-sided projecting 4	2012	12 - 50	3,40
151 225 00	250	A	1	28	32	projecting on both sides 2	2012	12 - 50	3,90
151 228 00	280	A	1	28	32	projecting on both sides 2	2012	12 - 50	4,90

Profile 13 and SPA

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
153 207 00	71	V	8	35	22	one-sided set back 13	1108	10 - 28	0,55
153 208 00	80	V	8	35	25	one-sided set back 10	1210	10 - 32	0,74
153 209 00	90	V	8	35	25	one-sided set back 10	1610	12 - 42	0,90
153 210 00	100	V	8	35	25	one-sided set back 10	1610	12 - 42	1,00
153 211 00	112	V	8	35	25	one-sided set back 10	1610	12 - 42	1,40
153 212 00	125	V	8	35	25	one-sided set back 10	1610	12 - 42	1,90
153 214 00	140	V	8	35	32	one-sided set back 3	2012	12 - 50	2,60
153 216 00	160	V	8	35	32	one-sided set back 3	2012	12 - 50	3,20
153 218 00	180	B	1	35	32	set back on both sides 1.5	2012	12 - 50	5,20
153 220 00	200	B	1	35	45	projecting on both sides 5	2517	16 - 65	4,70
153 222 00	224	B	1	35	45	one-sided projecting 10	2517	16 - 65	5,30
153 225 00	250	B	1	35	45	projecting on both sides 5	2517	16 - 65	5,80
153 228 00	280	B	1	35	45	one-sided projecting 10	2517	16 - 65	6,50
153 231 00	315	B	1	35	45	one-sided projecting 10	2517	16 - 65	7,60

Profile 17 and SPB

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bore d max. mm	Bush* No.	Weight approx. kg
155 210 00	100	V	8	44	25	one-sided set back 19	1610	12 - 42	1,2
155 211 00	112	V	8	44	25	one-sided set back 19	1610	12 - 42	1,5
155 212 00	125	V	2	44	32	one-sided set back 12	2012	12 - 50	2,0
155 214 00	140	V	2	44	32	one-sided set back 12	2012	12 - 50	2,7
155 216 00	160	V	8	44	32	one-sided set back 12	2012	12 - 50	3,9
155 218 00	180	V	1	44	45	one-sided projecting 1	2517	16 - 65	5,5
155 220 00	200	V	1	44	45	one-sided projecting 1	2517	16 - 65	7,5
155 222 00	224	B	1	44	45	one-sided projecting 1	2517	16 - 65	6,6
155 225 00	250	B	1	44	45	one-sided projecting 1	2517	16 - 65	7,7
155 228 00	280	B	1	44	45	one-sided projecting 1	2517	16 - 65	9,5
155 231 00	315	B	1	44	45	one-sided projecting 1	2517	16 - 65	11,5

Matching Taper bushes see page 186.
Mounting instructions see page 824.

Other diameters or larger number of grooves at short notice, on request.

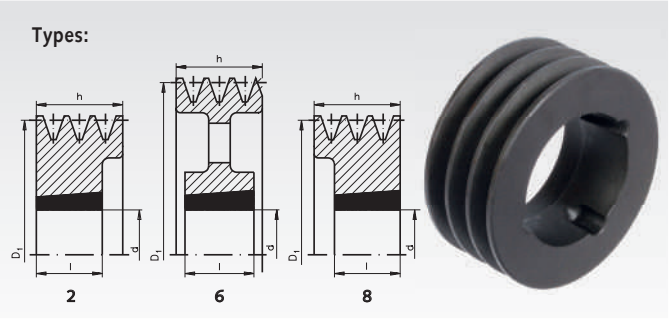
V-Belt Pulleys for Taper Bushes, 3 Grooves

Material: cast iron EN-GJL200.

Taper V-belt pulleys similar to DIN 2211 or DIN 2217 matching narrow V-belts DIN 2215 und DIN 7753.

Design:
A = spoked pulley
B = dished pulley
V = solid pulley

Types:



Ordering Details: e.g.: Product No. 151 306 00, V-Belt Pulley for Taper Clamping Bush, 3 Grooves, Profile 10, Ø63 mm

Profile 10 and SPZ

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
151 306 00	63	V	8	40	22	one-sided set back 18	1108	10 - 28	0,58
151 307 00	71	V	8	40	22	one-sided set back 18	1108	10 - 28	0,64
151 308 00	80	V	8	40	25	one-sided set back 15	1210	10 - 32	0,75
151 309 00	90	V	8	40	25	one-sided set back 15	1610	12 - 42	0,88
151 310 00	100	V	8	40	25	one-sided set back 15	1610	12 - 42	1,20
151 311 00	112	V	8	40	32	one-sided set back 8	2012	12 - 50	1,40
151 312 00	125	V	2	40	32	one-sided set back 8	2012	12 - 50	2,00
151 314 00	140	V	2	40	32	one-sided set back 8	2012	12 - 50	2,70
151 316 00	160	V	2	40	32	one-sided set back 8	2012	12 - 50	3,90
151 318 00	180	B	6	40	32	one-sided set back 8	2012	12 - 50	3,20
151 320 00	200	B	6	40	32	set back on both sides 4	2012	12 - 50	3,70
151 322 00	224	B	6	40	32	set back on both sides 4	2012	12 - 50	4,20
151 325 00	250	B	6	40	32	set back on both sides 4	2012	12 - 50	4,80
151 328 00	280	A	6	40	45	projecting on both sides 2.5	2517	16 - 65	7,10
151 331 00	315	A	6	40	45	projecting on both sides 2.5	2517	16 - 65	7,50

Profile 13 and SPA

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bush* No.	Bore d mm	Weight approx. kg
153 308 00	80	V	8	50	25	one-sided set back 25	1210	10 - 32	0,8
153 309 00	90	V	8	50	25	one-sided set back 25	1610	12 - 42	1,0
153 310 00	100	V	2	50	25	one-sided set back 25	1610	12 - 42	1,4
153 311 00	112	V	8	50	32	one-sided set back 18	2012	12 - 50	1,6
153 312 00	125	V	2	50	32	one-sided set back 18	2012	12 - 50	2,3
153 314 00	140	V	8	50	45	one-sided set back 5	2517	16 - 65	2,9
153 316 00	160	V	8	50	45	one-sided set back 5	2517	16 - 65	3,8
153 318 00	180	V	8	50	45	one-sided set back 5	2517	16 - 65	6,1
153 320 00	200	B	6	50	45	set back on both sides 2.5	2517	16 - 65	5,5
153 322 00	224	B	6	50	45	set back on both sides 2.5	2517	16 - 65	6,2
153 325 00	250	B	6	50	45	set back on both sides 2.5	2517	16 - 65	6,8
153 328 00	280	B	6	50	45	set back on both sides 2.5	2517	16 - 65	7,6
153 331 00	315	A	6	50	51	projecting on both sides 0.5	3020	25 - 75	11,0

Profile 17 and SPB

Product No.	Nominal Ø D_1 mm	Design	Type	h mm	l mm	Relation of Hub to Rim	Bore d max. mm	Bush* No.	Weight approx. kg
155 310 00	100	V	8	63	25	one-sided set back 38	1610	12 - 42	1,7
155 311 00	112	V	8	63	25	one-sided set back 38	1610	12 - 42	2,0
155 312 00	125	V	2	63	32	one-sided set back 31	2012	12 - 50	2,7
155 314 00	140	V	2	63	32	one-sided set back 31	2012	12 - 50	3,5
155 316 00	160	V	2	63	45	one-sided set back 18	2517	16 - 65	4,8
155 318 00	180	V	2	63	45	one-sided set back 18	2517	16 - 65	6,6
155 320 00	200	V	2	63	45	one-sided set back 18	2517	16 - 65	8,6
155 322 00	224	B	6	63	45	one-sided set back 18	2517	16 - 65	8,1
155 325 00	250	B	6	63	51	one-sided set back 12	3020	25 - 75	11,0
155 328 00	280	B	6	63	51	set back on both sides 6	3020	25 - 75	13,0
155 331 00	315	B	6	63	51	set back on both sides 6	3020	25 - 75	15,5

Matching Taper bushes see page 186.
Mounting instructions see page 824.

Other diameters or larger number of grooves at short notice, on request.

Taper Bushes

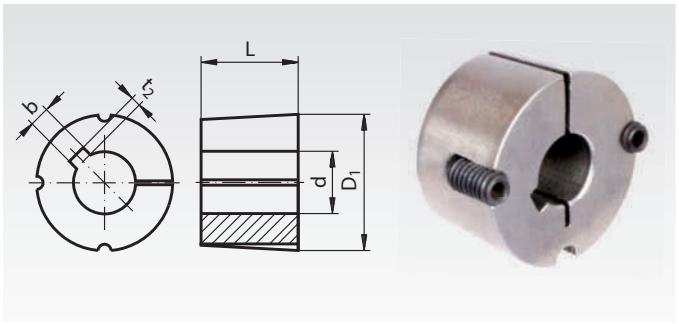
Material: GG20.
Bores ISO E8, feather keyways in accordance with DIN 6885/1.
Screws included in delivery.

Shaft tolerance +0.05/-0.125 mm.
Can be used with or without parallel key, depending on the required torque.

Other bush sizes and bores available at short notice (some in stock).

Assembly instructions see page 824.

Ordering Details: e.g.: Product No. 622 501 10, Taper Bush 1008, 10 mm Bore



Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 501 10	1008	10	3	1,4	22,3	35	160
622 501 11	1008	11	4	1,8	22,3	35	140
622 501 12	1008	12	4	1,8	22,3	35	120
622 501 14	1008	14	5	2,3	22,3	35	118
622 501 15	1008	15	5	2,3	22,3	35	116
622 501 16	1008	16	5	2,3	22,3	35	112
622 501 18	1008	18	6	2,8	22,3	35	100
622 501 19	1008	19	6	2,8	22,3	35	98
622 501 20	1008	20	6	2,8	22,3	35	94
622 501 22	1008	22	6	2,8	22,3	35	80
622 501 24	1008	24	8[1)]	1,3[1)]	22,3	35	70
622 501 25	1008	25	8[1)]	1,3[1)]	22,3	35	68
622 502 10	1108	10	3	1,4	22,3	38	180
622 502 11	1108	11	4	1,8	22,3	38	165
622 502 12	1108	12	4	1,8	22,3	38	154
622 502 14	1108	14	5	2,3	22,3	38	148
622 502 16	1108	16	5	2,3	22,3	38	140
622 502 18	1108	18	6	2,8	22,3	38	132
622 502 19	1108	19	6	2,8	22,3	38	126
622 502 20	1108	20	6	2,8	22,3	38	122
622 502 22	1108	22	6	2,8	22,3	38	112
622 502 24	1108	24	8	3,3	22,3	38	96
622 502 25	1108	25	8	3,3	22,3	38	92
622 502 28	1108	28	8[1)]	1,3[1)]	22,3	38	88
622 503 10	1210	10	3	1,4	25,4	47,5	282
622 503 11	1210	11	4	1,8	25,4	47,5	280
622 503 12	1210	12	4	1,8	25,4	47,5	278
622 503 14	1210	14	5	2,3	25,4	47,5	274
622 503 16	1210	16	5	2,3	25,4	47,5	262
622 503 18	1210	18	6	2,8	25,4	47,5	250
622 503 19	1210	19	6	2,8	25,4	47,5	244
622 503 20	1210	20	6	2,8	25,4	47,5	240
622 503 22	1210	22	6	2,8	25,4	47,5	224
622 503 24	1210	24	8	3,3	25,4	47,5	208
622 503 25	1210	25	8	3,3	25,4	47,5	208
622 503 28	1210	28	8	3,3	25,4	47,5	184
622 503 30	1210	30	8	3,3	25,4	47,5	168
622 503 32	1210	32	10	3,3	25,4	47,5	160
622 513 14	1215	14	5	2,3	38,1	47,5	380
622 513 16	1215	16	5	2,3	38,1	47,5	370
622 513 18	1215	18	6	2,8	38,1	47,5	350
622 513 19	1215	19	6	2,8	38,1	47,5	340
622 513 20	1215	20	6	2,8	38,1	47,5	335
622 513 22	1215	22	6	2,8	38,1	47,5	320
622 513 24	1215	24	8	3,3	38,1	47,5	290
622 513 25	1215	25	8	3,3	38,1	47,5	285
622 513 28	1215	28	8	3,3	38,1	47,5	260
622 513 30	1215	30	8	3,3	38,1	47,5	230
622 513 32	1215	32	10	3,3	38,1	47,5	200

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 504 12	1610	12	4	1,8	25,4	57	416
622 504 14	1610	14	5	2,3	25,4	57	412
622 504 15	1610	15	5	2,3	25,4	57	408
622 504 16	1610	16	5	2,3	25,4	57	402
622 504 18	1610	18	6	2,8	25,4	57	390
622 504 19	1610	19	6	2,8	25,4	57	380
622 504 20	1610	20	6	2,8	25,4	57	373
622 504 22	1610	22	6	2,8	25,4	57	366
622 504 24	1610	24	8	3,3	25,4	57	356
622 504 25	1610	25	8	3,3	25,4	57	348
622 504 28	1610	28	8	3,3	25,4	57	324
622 504 30	1610	30	8	3,3	25,4	57	304
622 504 32	1610	32	10	3,3	25,4	57	280
622 504 35	1610	35	10	3,3	25,4	57	264
622 504 38	1610	38	10	3,3	25,4	57	240
622 504 40	1610	40	12	3,3	25,4	57	210
622 504 42	1610	42	12	3,3	25,4	57	200
622 508 18	1615	18	6	2,8	38,1	57	561
622 508 20	1615	20	6	2,8	38,1	57	552
622 508 22	1615	22	6	2,8	38,1	57	540
622 508 24	1615	24	8	3,3	38,1	57	520
622 508 25	1615	25	8	3,3	38,1	57	510
622 508 30	1615	30	8	3,3	38,1	57	446
622 508 32	1615	32	10	3,3	38,1	57	414
622 508 35	1615	35	10	3,3	38,1	57	380
622 508 38	1615	38	10	3,3	38,1	57	346
622 508 40	1615	40	12	3,3	38,1	57	340
622 508 42	1615	42	12[2)]	2,2[2)]	38,1	57	260
622 505 12	2012	12	4	1,8	31,8	70	810
622 505 14	2012	14	5	2,3	31,8	70	800
622 505 15	2012	15	5	2,3	31,8	70	785
622 505 16	2012	16	5	2,3	31,8	70	770
622 505 18	2012	18	6	2,8	31,8	70	762
622 505 19	2012	19	6	2,8	31,8	70	756
622 505 20	2012	20	6	2,8	31,8	70	750
622 505 22	2012	22	6	2,8	31,8	70	736
622 505 24	2012	24	8	3,3	31,8	70	724
622 505 25	2012	25	8	3,3	31,8	70	714
622 505 28	2012	28	8	3,3	31,8	70	684
622 505 30	2012	30	8	3,3	31,8	70	658
622 505 32	2012	32	10	3,3	31,8	70	630
622 505 35	2012	35	10	3,3	31,8	70	604
622 505 38	2012	38	10	3,3	31,8	70	566
622 505 40	2012	40	12	3,3	31,8	70	538
622 505 42	2012	42	12	3,3	31,8	70	510
622 505 45	2012	45	14	3,8	31,8	70	460
622 505 48	2012	48	14	3,8	31,8	70	404
622 505 50	2012	50	14	3,8	31,8	70	372

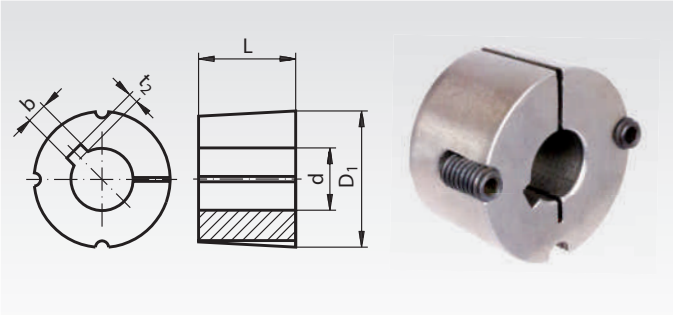
[1)] With flat keyway 1.3mm.
[2)] With flat keyway 2.2mm.

Taper Bushes

Material: GG20.
Bores ISO E8, feather keyways in accordance with DIN 6885/1.
Screws included in delivery.

Shaft tolerance +0.05/-0.125 mm.
Can be used with or without parallel key, depending on the required torque.

Other bush sizes and bores available at short notice (some in stock).



Ordering Details: e.g.: Product No. 622 506 16, Taper Bush 2517, 16 mm Bore

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 506 16	2517	16	5	2,3	44,5	85,5	1800
622 506 18	2517	18	6	2,8	44,5	85,5	1700
622 506 19	2517	19	6	2,8	44,5	85,5	1620
622 506 20	2517	20	6	2,8	44,5	85,5	1602
622 506 22	2517	22	6	2,8	44,5	85,5	1568
622 506 24	2517	24	8	3,3	44,5	85,5	1566
622 506 25	2517	25	8	3,3	44,5	85,5	1556
622 506 28	2517	28	8	3,3	44,5	85,5	1520
622 506 30	2517	30	8	3,3	44,5	85,5	1488
622 506 32	2517	32	10	3,3	44,5	85,5	1450
622 506 35	2517	35	10	3,3	44,5	85,5	1396
622 506 38	2517	38	10	3,3	44,5	85,5	1346
622 506 40	2517	40	12	3,3	44,5	85,5	1316
622 506 42	2517	42	12	3,3	44,5	85,5	1274
622 506 45	2517	45	14	3,8	44,5	85,5	1204
622 506 48	2517	48	14	3,8	44,5	85,5	1126
622 506 50	2517	50	14	3,8	44,5	85,5	1080
622 506 55	2517	55	16	4,3	44,5	85,5	958
622 506 60	2517	60	18	4,4	44,5	85,5	810
622 506 65	2517	65	18[1)]	3,4[1)]	44,5	85,5	650
622 507 25	3020	25	8	3,3	50,8	108	2910
622 507 28	3020	28	8	3,3	50,8	108	2790
622 507 30	3020	30	8	3,3	50,8	108	2840
622 507 32	3020	32	10	3,3	50,8	108	2800
622 507 35	3020	35	10	3,3	50,8	108	2745
622 507 38	3020	38	10	3,3	50,8	108	2700
622 507 40	3020	40	12	3,3	50,8	108	2635
622 507 42	3020	42	12	3,3	50,8	108	2594
622 507 45	3020	45	14	3,8	50,8	108	2515
622 507 48	3020	48	14	3,8	50,8	108	2425
622 507 50	3020	50	14	3,8	50,8	108	2370
622 507 55	3020	55	16	4,3	50,8	108	2234
622 507 60	3020	60	18	4,4	50,8	108	2000
622 507 65	3020	65	18	4,4	50,8	108	1888
622 507 70	3020	70	20	4,9	50,8	108	1700
622 507 75	3020	75	20	4,9	50,8	108	1485

Product No.	Taper bush No.	Bore d mm	Keyway b mm	t_2 mm	L mm	D_1 mm	Weight g
622 511 40	3030	40	12	3,3	76,2	108	3820
622 511 45	3030	45	14	3,8	76,2	108	3550
622 511 50	3030	50	14	3,8	76,2	108	3420
622 511 60	3030	60	18	4,4	76,2	108	2950
622 511 65	3030	65	18	4,4	76,2	108	2680
622 511 70	3030	70	20	4,9	76,2	108	2060
622 511 75	3030	75	20	4,9	76,2	108	1640
622 509 35	3525	35	10	3,3	64,9	127	4910
622 509 38	3525	38	10	3,3	64,9	127	4850
622 509 40	3525	40	12	3,3	64,9	127	4800
622 509 50	3525	50	14	3,8	64,9	127	4440
622 509 60	3525	60	18	4,4	64,9	127	4050
622 509 75	3525	75	20	4,9	64,9	127	3370
622 509 80	3525	80	22	5,4	64,9	127	3050
622 510 50	3535	50	14	3,8	88,9	127	6050
622 510 55	3535	55	16	4,3	88,9	127	5810
622 510 60	3535	60	18	4,4	88,9	127	5500
622 510 65	3535	65	18	4,4	88,9	127	5200
622 510 70	3535	70	20	4,9	88,9	127	4880
622 510 75	3535	75	20	4,9	88,9	127	4460
622 510 80	3535	80	22	5,4	88,9	127	4080
622 510 90	3535	90	25	5,4	88,9	127	3210

Other bush sizes on request.

Assembly Instructions Page 824 and at www.maedler.de

[1)] With flat keyway 3.4mm.

Spare Screws for Taper Bushes

Material: Steel.

Supply: One screw (order quantity as needed).

Taper bushes have two or (from size 3030) three screws depending on size.

Ordering Details: e.g.: Product No. 622 501 99, Spare Screw , Taper Bush 1008 and 1108

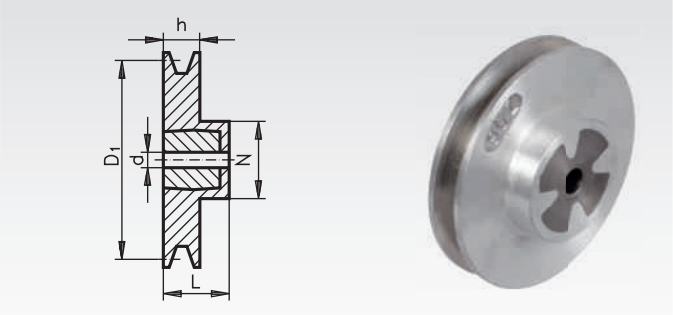
Product No.	to match Taper bush	Size inch	Screw type	Tightening Torque Nm	Weight g
622 501 99	1008 and 1108	1/4''	Set screw with internal hexagon	5.6	1.9
622 503 99	1210 to 1615	3/8''	Set screw with internal hexagon	20	5.2
622 505 99	2012 and 2017	7/16''	Set screw with internal hexagon	30	11
622 506 99	2517 and 2525	1/2''	Set screw with internal hexagon	50	16.4
622 507 99	3020 and 3030	5/8''	Set screw with internal hexagon	90	33.2
622 510 99	3525 and 3535	1/2''	Screw with internal hexagon	90	49.7

V-Belt Pulleys Made from a Special Light Alloy with Cast-Iron core, 1 Groove

Bimetal V-belt pulleys similar to DIN 2211 or DIN 2217 matching narrow V-belts DIN 2215 und DIN 7753.

V-pelt pulleys with nominal diameters up to and including 250 mm
are supplied as solid pulley, from 280 mm Ø as spoked pulley.

[1] Can only be used with standard V-belt DIN 2215 .
* Without cast-iron core.



**Ordering Details: e.g.: Product No. 150 101 00,
V-Belt Pulley Bi-metal, 1 Groove, 40/1/10**

Profile Z (10) and SPZ with 1 Groove, Rim Width h 16 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight approx. kg
150 102 00	*50 [1]	-	22	35	28	0,1
150 103 00	*56 [1]	-	22	35	28	0,1
150 106 00	*63	-	22	35	28	0,1
150 107 00	*71	-	25	40	28	0,2
150 108 00	80	10	28	48	28	0,4
150 109 00	90	10	28	48	28	0,5
150 110 00	100	10	28	48	28	0,5
150 111 00	112	10	28	48	28	0,5
150 112 00	125	10	28	48	28	0,5
150 114 00	140	10	28	48	28	0,6
150 116 00	160	12	35	60	32	0,9
150 118 00	180	12	35	60	32	1,0
150 120 00	200	12	35	60	32	1,1
150 122 00	224	12	35	60	32	1,2
150 125 00	250	12	35	60	32	1,5
150 128 00	280	12	35	60	40	1,7
150 131 00	315	14	40	65	40	2,0

Profile A (13) and SPA with 1 Groove, Rim Width h 20 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight approx. kg
152 102 00	*50 [1]	-	22	35	28	0,1
152 103 00	*56 [1]	-	22	35	28	0,15
152 106 00	*63	-	25	40	28	0,15
152 107 00	*71	-	25	40	28	0,2
152 108 00	80	10	28	48	28	0,4
152 109 00	90	10	28	48	28	0,5
152 110 00	100	10	28	48	28	0,5
152 111 00	112	10	28	48	28	0,5
152 112 00	125	10	35	60	28	0,7
152 114 00	140	10	35	60	32	0,8
152 116 00	160	12	35	60	40	1,0
152 118 00	180	12	40	65	40	1,3
152 120 00	200	12	40	65	40	1,4
152 122 00	224	12	40	65	40	1,5
152 125 00	250	12	45	75	50	2,2
152 128 00	280	12	45	75	50	2,4
152 131 00	315	12	45	75	50	2,8

V-Belt Pulleys GG in Taper bushes-Type see page 183.

Profile B (17) and SPB with 1 Groove, Rim Width h 25 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight approx. kg
154 106 00	*63 [1]	-	25	40	32	0,2
154 107 00	*71	-	25	40	32	0,25
154 108 00	80	10	35	60	32	0,5
154 109 00	90	10	35	60	32	0,6
154 110 00	100	12	35	60	32	0,7
154 111 00	112	12	35	60	32	0,7
154 112 00	125	12	35	60	32	0,8
154 114 00	140	12	35	60	32	0,9
154 116 00	160	12	35	60	40	1,1
154 118 00	180	12	40	65	40	1,4
154 120 00	200	12	40	65	40	1,5
154 122 00	224	12	40	65	45	1,9
154 125 00	250	12	45	75	45	2,3
154 128 00	280	14	45	75	45	2,4
154 131 00	315	20	45	75	45	2,7

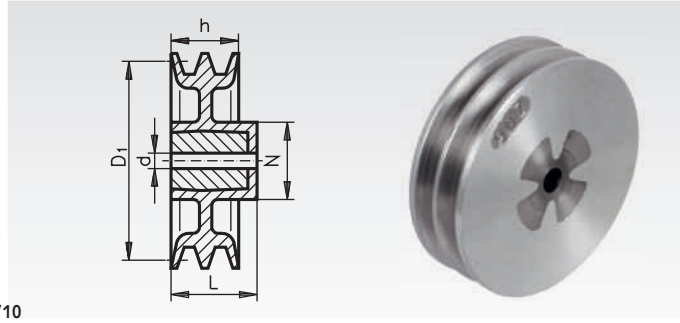
Reworking within 24h-service possible. Custom made parts on request.

V-Belt Pulleys Made from a Special Light Alloy with Cast-Iron core, 2 Grooves

Bimetal V-belt pulleys similar to DIN 2211 or DIN 2217 matching narrow V-belts DIN 2215 und DIN 7753.

V-belt pulleys with nominal diameters up to and including 250 mm are supplied as solid pulley, from 280 mm Ø as spoked pulley.

[1] Can only be used with standard V-belt DIN 2215 .
* Without cast-iron core.



Ordering Details: e.g.: Product No. 150 202 00, V-Belt Pulley Bi-metal, 2 Grooves, 50/2/10

Profile Z (10) and SPZ with 2 Grooves, Rim Width h 28 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight approx. kg
150 202 00	*50 [1]	-	22	35	35	0,15
150 203 00	*56 [1]	-	22	35	35	0,15
150 206 00	*63	-	25	40	35	0,2
150 207 00	*71	-	25	40	35	0,3
150 208 00	80	10	28	-	28	0,5
150 209 00	90	10	28	-	28	0,6
150 210 00	100	10	28	-	28	0,7
150 211 00	112	10	35	60	32	0,8
150 212 00	125	10	35	60	32	0,8
150 214 00	140	12	35	60	40	1,0
150 216 00	160	12	35	60	40	1,2
150 218 00	180	12	40	65	40	1,5
150 220 00	200	12	40	65	40	1,6
150 222 00	224	12	40	65	40	1,7
150 225 00	250	12	40	65	40	2,1
150 228 00	280	12	40	65	45	2,4
150 231 00	315	14	45	75	45	2,7

Profile A (13) and SPA with 2 Grooves, Rim Width h 35 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight approx. kg
152 202 00	*50 [1]	-	22	-	35	0,15
152 203 00	*56 [1]	-	22	-	35	0,2
152 206 00	*63	-	25	40	45	0,25
152 207 00	*71	-	28	48	45	0,35
152 208 00	80	10	35	60	45	0,7
152 209 00	90	10	35	60	45	0,8
152 210 00	100	10	35	60	45	0,9
152 211 00	112	12	35	60	45	1,0
152 212 00	125	12	35	60	45	1,0
152 214 00	140	12	35	60	45	1,2
152 216 00	160	12	40	65	45	1,5
152 218 00	180	12	40	65	45	1,7
152 220 00	200	12	40	65	50	1,9
152 222 00	224	12	40	65	50	2,2
152 225 00	250	14	45	75	50	2,8
152 228 00	280	14	45	75	50	2,9
152 231 00	315	14	45	75	50	3,2

V-Belt Pulleys GG in Taper bushes-Type see page 183.

Profile B (17) and SPB with 2 Grooves, Rim Width h 44 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight approx. kg
154 207 00	*71	-	28	48	44	0,4
154 208 00	80	10	35	60	44	0,7
154 209 00	90	12	35	60	44	0,8
154 210 00	100	12	40	65	44	1,1
154 211 00	112	12	40	65	44	1,3
154 212 00	125	12	40	65	44	1,4
154 214 00	140	12	40	65	44	1,4
154 216 00	160	12	45	75	44	2,0
154 218 00	180	12	45	75	50	2,2
154 220 00	200	14	45	75	50	2,4
154 222 00	224	14	45	75	50	2,8
154 225 00	250	16	45	75	50	2,9
154 228 00	280	16	50	85	50	3,5
154 231 00	315	20	50	85	60	4,3

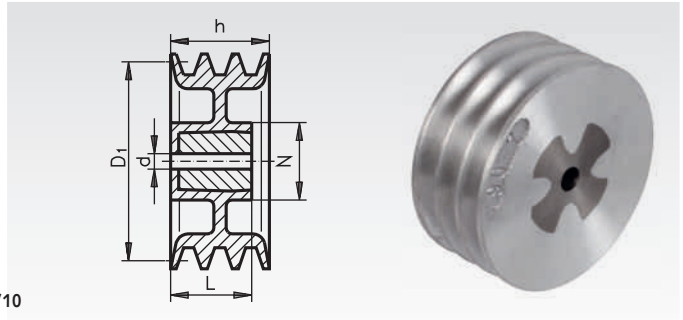
Reworking within 24h-service possible. Custom made parts on request.

V-Belt Pulley Made from a Special Light Alloy with Cast-Iron core, 3 Grooves

Bimetal V-belt pulleys similar to DIN 2211 or DIN 2217 matching narrow V-belts DIN 2215 und DIN 7753.

V-belt pulleys with nominal diameters up to and including 250 mm are supplied as solid pulley, from 280 mm Ø as spoked pulley.

[1] Can only be used with standard V-belt DIN 2215 .
* Without cast-iron core.



Ordering Details: e.g.: Product No. 150 306 00, V-Belt Pulley Bi-metal, 3 Grooves, 63/3/10

Profile Z (10) and SPZ with 3 Grooves, Rim Width h 40 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight kg
150 306 00	*63	-	25	-	40	0,3
150 307 00	*71	-	30	-	40	0,4
150 308 00	80	10	35	-	40	0,8
150 309 00	90	10	35	-	40	0,9
150 310 00	100	10	35	60	40	1,0
150 311 00	112	12	35	-	40	1,2
150 312 00	125	12	35	60	40	1,1
150 314 00	140	12	40	65	40	1,5
150 316 00	160	12	40	65	45	1,5
150 318 00	180	12	45	75	45	2,0
150 320 00	200	14	45	75	45	2,2
150 322 00	224	14	45	75	45	2,4
150 325 00	250	14	45	75	45	2,7
150 328 00	280	14	45	75	50	3,0
150 331 00	315	14	45	75	50	4,0

Profile A (13) and SPA with 3 Grooves, Rim Width h 50 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight kg
152 302 00	*50 [1]	-	22	-	50	0,2
152 303 00	*56 [1]	-	25	-	50	0,3
152 306 00	*63	-	25	-	50	0,3
152 307 00	*71	-	30	-	50	0,4
152 308 00	80	12	35	-	50	0,8
152 309 00	90	12	40	-	50	1,1
152 310 00	100	12	40	-	50	1,3
152 311 00	112	12	40	-	50	1,5
152 312 00	125	12	40	65	50	1,8
152 314 00	140	12	40	65	50	1,7
152 316 00	160	12	40	65	50	1,9
152 318 00	180	14	45	75	50	2,4
152 320 00	200	14	45	75	50	2,6
152 322 00	224	16	45	75	50	2,8
152 325 00	250	16	50	85	50	3,5
152 328 00	280	16	50	85	50	3,6
152 331 00	315	16	50	85	60	4,5

V-Belt Pulleys GG in Taper bushes-Type see page 183.

Profile B (17) and SPB with 3 Grooves, Rim Width h 63 mm

Product No.	Nominal Ø D_1 mm	Pilot Hole d approx. mm	max. Bore mm	Hub Ø N approx. mm	Hub Length L approx. mm	Weight kg
154 308 00	80	12	35	-	63	0,9
154 309 00	90	12	35	-	63	1,2
154 310 00	100	14	40	-	63	1,4
154 311 00	112	14	40	-	63	2,0
154 312 00	125	14	40	-	63	2,3
154 314 00	140	14	45	-	63	2,4
154 316 00	160	14	50	85	50	2,6
154 318 00	180	14	50	85	50	2,8
154 320 00	200	16	50	85	50	3,0
154 322 00	224	16	50	85	50	3,4
154 325 00	250	18	50	85	60	4,3
154 328 00	280	18	50	85	60	4,6
154 331 00	315	20	50	85	60	4,9

Reworking within 24h-service possible. Custom made parts on request.

V-Belt Tensioner with Mounted V-Belt Pulley

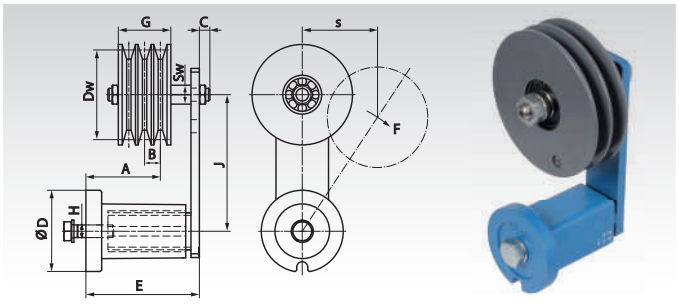
Material: Housings up to Ø 78 mm made from sintered steel, over Ø 78 mm made from grey cast iron GG20.
Lever St52, V-belt pulley cast steel.

Matching narrow V-belts DIN 2215 und DIN 7753.

Pulley with sealed ball bearings, permanently lubricated.

Measur A of the pulley can be adjusted by distance-washers on the axis, which is screwed onto the tensioner.

Can be used for both tensioning directions.



Ordering Details: e.g.: Product No. 140 850 01, SPZ, 1 Groove, Dw=90mm

Product No.	Profile	No. of Grooves	Dw mm	Tensioner Size	$F_{max.}$ N	$Speed_{max.}$ min^{-1}	$s_{max.}$ mm	A mm	B mm	C mm	Ø D mm	E mm	J mm	G mm	H mm	sw mm	Weight kg
140 851 01	SPZ (10)	1	90	2	350	10000	50	20-43	12	13	58	79	100	16	M10	19	2,0
140 851 02	SPZ (10)	2	90	2	350	10000	50	31-48	12	13	58	79	100	28	M10	19	2,3
140 851 03	SPZ (10)	3	90	2	350	10000	50	31-37	12	13	58	79	100	40	M10	19	2,6
140 851 11	SPA (13)	1	90	2	350	7400	50	15-36	15	19	58	79	100	20	M10	27	2,0
140 851 12	SPA (13)	2	90	2	350	7400	50	20-42	15	19	58	79	100	35	M10	27	2,3
140 852 01	SPA (13)	1	90	3	800	7400	65	34-64	15	19	78	108	130	20	M12	27	3,1
140 852 02	SPA (13)	2	90	3	800	7400	65	49-70	15	19	78	108	130	35	M12	27	3,5
140 852 03	SPA (13)	3	90	3	800	7400	65	49-70	15	19	78	108	130	50	M12	27	3,8
140 852 04	SPA (13)	1	125	3	800	5300	65	33-63	15	19	78	108	130	20	M12	27	3,9
140 852 05	SPA (13)	2	125	3	800	5300	65	49-70	15	19	78	108	130	35	M12	27	4,8
140 854 01	SPB (17)	1	125	3	800	5300	65	35-65	19	19	78	108	130	25	M12	27	4,2
140 854 02	SPB (17)	2	125	3	800	5300	65	48-69	19	19	78	108	130	44	M12	27	5,3
140 854 03	SPB (17)	3	125	4	1500	5300	87,5	104-107	19	17	95	140	175	63	M16	27	7,9
140 854 04	SPB (17)	3	140	4	1500	4000	87,5	104-107	19	17	95	140	175	63	M16	27	9,2

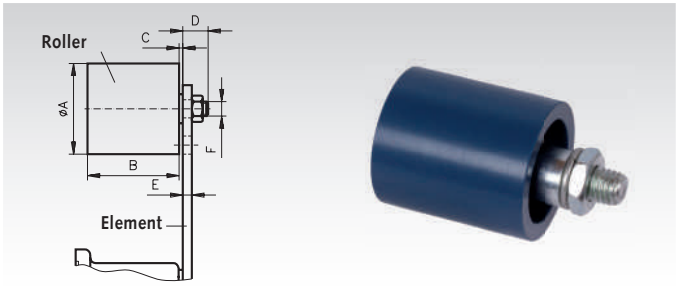
Tensioning Rollers

Material: Short roller made from high-grade industrial plastic.

Tensioning rollers are used for tensioning (or as an idler) on the outside of the belt (back of belt). The tensioning rollers can either be mounted rigidly or be combined with tensioning elements to make up an elastic belt tensioner.

It runs on two permanently lubricated 2-Z ball bearings.

Tensioning element has to be ordered separately.

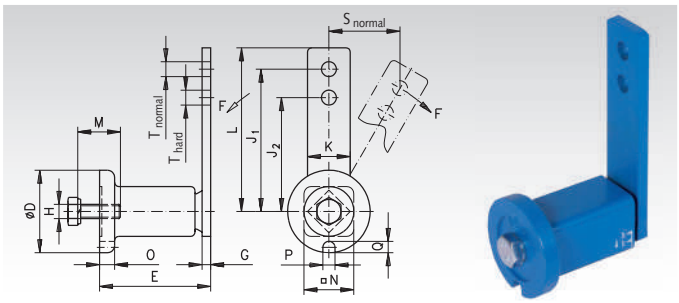


Ordering Details: e.g.: Product No. 140 872 00, Tensioning Roller Ø 30 mm

Product-No.	Diameter A mm	Product No. Tensioning Element matching	B mm	C mm	D mm	E max. mm	F mm	Weight kg
140 872 00	30	**140 800 00**	35	2	14	5	M8	0,08
140 874 00	40	**140 801 00**	45	6	16	7	M10	0,17
140 876 00	60	**140 803 00**	60	8	17	8	M12	0,40
140 878 00	80	**140 804 00**	90	8	25	10	M20	1,15

Tensioning Elements in Standard Version

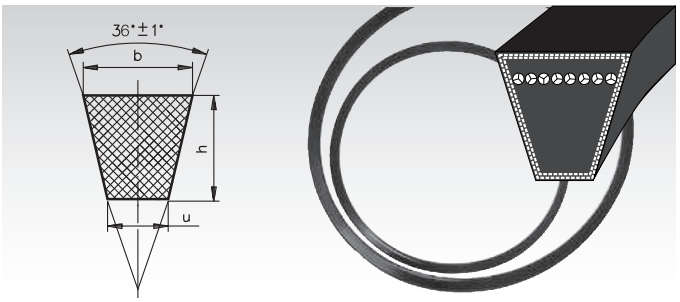
Material: Housing up to Ø 78 mm made from sintered steel, over Ø 78 mm made from grey cast iron GG20, lever made from St52.
Can be used for tensioning all common kinds of chain and belt drives. The elastomeric inserts are based on highly-elastic natural rubber with a good shape memory and are designed for applications in temperatures from -40° to +80°C
The tensioning elements are painted blue and supplied with a zinc-plated screw and spring washer. Can be used for both tensioning directions. Temperature range: -40° to +80°C.



Ordering Details: e.g.: Product No. 140 800 00, Tensioning Element Ø 35 mm

Product No.	Size	F max. normal N	F max. hard N	s max. normal mm	s max. hard mm	D mm	E mm	G mm	H mm	J_1 mm	J_2 mm	K mm	L mm	M mm	N mm	O mm	P mm	Q mm	T mm	M_A Nm	Weight kg
140 800 00	0	80	106	40	30	35	51 $^{+1,0}_{-0,5}$	5	M6	80	60	20	90	20	22	6	8	5	8,5	10	0,2
140 801 00	1	135	168	50	40	45	64 $^{+1,0}_{-0,5}$	5	M8	100	80	25	112,5	25	30	8	8,5	6	10,5	25	0,4
140 802 00	2	350	437	50	40	58	79 $^{+1,5}_{-0,5}$	7	M10	100	80	30	115	30	35	10,5	8,5	8	10,5	49	0,6
140 803 00	3	800	1040	65	50	78	108 $^{+2}_{-0,5}$	8	M12	130	100	50	155	40	52	15	10,5	10	12,5	86	1,7
140 804 00	4	1500	1875	87,5	70	95	140 $^{+2}_{-0,5}$	10	M16	175	140	60	205	40	66	15	12,5	12	20,5	210	3,55

V-Belts DIN 7753



Dimensions in mm/wedge angle approx. 36°

Standard Size	SPZ	SPA
Width b	9.7	12.7
Height h	8	10
Width u	4.2	5.8
Smallest medium pulley diameter	63	90

Conversion table for Outside (L_A) and Reference Length (L_R).

Standard Size	SPZ	SPA
$L_A = L_R$ + mm	13	18

Ordering Details: e.g.: Product No. 150 816 00, V-Belt Profile SPZ, L_R 630 mm

Profile SPZ (9.7)		Profile SPA (12.7)	
Product No.	Reference Length (L_R) mm	**Product No.**	Reference Length (L_R) mm
150 816 00	630	**152 820 00**	732
150 818 00	670	**152 822 00**	757
150 820 00	710	**152 825 00**	800
150 822 00	750	**152 830 00**	850
150 824 00	762	**152 834 00**	900
150 825 00	800	**152 836 00**	950
150 827 00	812	**152 838 00**	1000
150 830 00	850	**152 840 00**	1060
150 832 00	875	**152 843 00**	1120
150 834 00	900	**152 844 00**	1157
150 836 00	950	**152 845 00**	1180
150 838 00	1000	**152 848 00**	1232
150 840 00	1060	**152 849 00**	1250
150 841 00	1087	**152 851 00**	1320
150 843 00	1120	**152 854 00**	1400
150 845 00	1180	**152 856 00**	1482
150 847 00	1212	**152 857 00**	1500
150 849 00	1250	**152 860 00**	1600
150 851 00	1320	**152 863 00**	1700
150 854 00	1400	**152 866 00**	1800
150 857 00	1500	**152 869 00**	1900
150 860 00	1600	**152 872 00**	2000
150 863 00	1700	**152 874 00**	2120
150 866 00	1800	**152 875 00**	2240
150 869 00	1900	**152 877 00**	2360
150 872 00	2000	**152 879 00**	2500
150 875 00	2240	**152 881 00**	2650
150 877 00	2360	**152 883 00**	2800
150 879 00	2500	**152 886 00**	3000
150 881 00	2650	**152 888 00**	3150
150 883 00	2800	**152 891 00**	3350
150 886 00	3000	**152 893 00**	3550
150 888 00	3150	**152 895 00**	3750
150 891 00	3350	**152 896 00**	4000
150 893 00	3550	**152 897 00**	4500

Weight per Metre

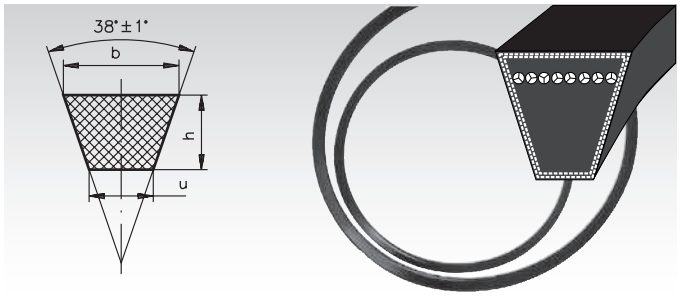
Profile	kg/m
SPZ	0,074
SPA	0,123
Z (10)	0,064
A (13)	0,109
B (17)	0,180

Important

During mounting the belt must be pre-tensioned. After running in for 15 - 20 minutes the belt needs to be retightened.

At a continuous temperature of over 60° standard V-belts have only a short service life. Oil, Fats and chemicals should be kept away from the drive as they destroy the standard V-belts. Intermediate length are available on request.

V-Belts DIN 2215



Dimensions in mm/wedge angle approx. 38°

ISO short symbol	Z	A	B
Width b	10	13	17
Height h	6	8	11
Width u	5.9	7.5	9.4
Smallest medium pulley diameter	50	75	125

Conversion table for reference and outside lengths.

Standard Profile	10	13	17
Inside Length = Reference Length - mm (approx.value)	22	30	40
Outside Length = Inside Length + mm (approx.value)	35	50	65

Profile Z (10)		Profile A (13)		Profile B (17)	
Product No.	Reference Length mm	**Product No.**	Reference Length mm	**Product No.**	Reference Length mm
150 602 00	397*	**152 610 00**	510	**154 606 00**	690
150 603 00	422*	**152 615 00**	590	**154 607 00**	710
150 604 00	447*	**152 618 00**	630	**154 608 00**	750
150 606 00	472*	**152 619 00**	660	**154 609 00**	790
150 608 00	497*	**152 620 00**	700	**154 610 00**	815
150 609 00	522*	**152 621 00**	740	**154 611 00**	840
150 611 00	552*	**152 622 00**	760	**154 613 00**	876
150 613 00	582*	**152 623 00**	780	**154 614 00**	890
150 615 00	597	**152 624 00**	805	**154 616 00**	940
150 616 00	622	**152 625 00**	830	**154 617 00**	965
150 618 00	652	**152 626 00**	855	**154 618 00**	990
150 619 00	692	**152 628 00**	880	**154 620 00**	1015
150 620 00	732	**152 629 00**	905	**154 621 00**	1040
150 621 00	747	**152 630 00**	930	**154 623 00**	1070
150 622 00	772	**152 631 00**	955	**154 625 00**	1100
150 623 00	797	**152 632 00**	980	**154 628 00**	1140
150 624 00	822	**152 633 00**	1005	**154 629 00**	1160
150 625 00	847	**152 635 00**	1030	**154 630 00**	1190
150 627 00	872	**152 636 00**	1060	**154 631 00**	1220
150 628 00	897	**152 637 00**	1071	**154 632 00**	1240
150 629 00	922	**152 638 00**	1090	**154 634 00**	1265
150 630 00	947	**152 640 00**	1130	**154 635 00**	1290
150 631 00	972	**152 641 00**	1150	**154 637 00**	1315
150 632 00	997	**152 643 00**	1180	**154 639 00**	1340
150 633 00	1022	**152 645 00**	1210	**154 640 00**	1360
150 635 00	1052	**152 646 00**	1230	**154 642 00**	1390
150 636 00	1082	**152 647 00**	1255	**154 644 00**	1412
150 638 00	1102	**152 648 00**	1280	**154 646 00**	1440
150 639 00	1142	**152 649 00**	1300	**154 647 00**	1462
150 641 00	1172	**152 651 00**	1330	**154 648 00**	1490
150 643 00	1202	**152 652 00**	1350	**154 649 00**	1513
150 645 00	1247	**152 654 00**	1405	**154 650 00**	1540
150 647 00	1272	**152 655 00**	1430	**154 651 00**	1565
150 648 00	1292	**152 657 00**	1480	**154 652 00**	1590
150 649 00	1317	**152 658 00**	1505	**154 653 00**	1615
150 651 00	1342	**152 659 00**	1530	**154 654 00**	1640
150 652 00	1393	**152 660 00**	1555	**154 655 00**	1665
150 654 00	1422	**152 663 00**	1605	**154 656 00**	1690
150 655 00	1472	**152 664 00**	1630	**154 657 00**	1716
150 657 00	1497	**152 665 00**	1655	**154 658 00**	1740
150 658 00	1522	**152 666 00**	1680	**154 663 00**	1840
150 659 00	1572	**152 667 00**	1706	**154 668 00**	1940
150 661 00	1622	**152 668 00**	1730	**154 673 00**	2040
150 665 00	1673	**152 669 00**	1755	**154 676 00**	2100
150 666 00	1697	**152 670 00**	1780	**154 679 00**	2160
150 667 00	1722	**152 671 00**	1805	**154 681 00**	2240
150 668 00	1772	**152 672 00**	1830	**154 682 00**	2280
150 670 00	1822	**152 674 00**	1884	**154 686 00**	2400
150 671 00	1872	**152 675 00**	1930	**154 689 00**	2490
150 672 00	1922	**152 676 00**	1960	**154 691 00**	2540
150 675 00	2022	**152 677 00**	2030	**154 692 00**	2580
150 677 00	2142	**152 679 00**	2150	**154 694 00**	2690
150 679 00	2262	**152 681 00**	2270	**154 695 00**	3040
150 681 00	2382	**152 683 00**	2390	**154 696 00**	3190
150 682 00	2522	**152 685 00**	2530	**154 697 00**	3590

* Toothed belt. Subject to change without notice.

Qualitiy Management
DIN EN ISO 9001

MÄDLER GmbH maintains a quality management system according to DIN EN ISO 9001 and was certified the first time in 1995.

On the iternet at **www. maedler.de** in the section **Downloads** you find:

- PDF catalogues in several languages.
- Operating instructions.
- Safety data sheets.
- Excel-Pricelist for customers in Germany.
- Certificates of conformity.
- Quality management certificate DIN 9001.
- Certificate AEO.
- Company profile.
- CAD files.

MÄDLER® meets even the highest quality requirements:Top quality, precision and reliability.

Overview Spur Gears with Straight Tooth System

Overview Spur Gear Elements with straight tooth system

Spur gear shafts: **Steel, straight tooth system**

Module	Length in mm	Page
1,0/1,5,/2,0	200-250	247

Internal gears: **Brass, straight tooth system**

Internal gears: **Steel, straight tooth system**

Module	Length in mm	Page
0,5/0,7,/1,0	4/6/8	249
1,0/1,5/2,0	10/15/16	249

Ratchet wheels and braces: **Steel, straight tooth system**

Module	Length in mm	Page
3,14	4/9	250
4,71	6/9	250

Overview Spur Gears with Helical Teeth

Spur gears: **Brass, helical teeth, right hand**

Module	Length in mm	Page
0,3/0,5	5/10	251

Spur gears: **Steel, helical teeth, right hand and left hand**

Module	Length in mm	Page
1,0	10	251

Spur gears: **Steel, helical teeth, left hand, hardened and ground**

Module	Length in mm	Page
2,0/3,0	28	252
4,0/5,0	40/50	253

Gear racks
Page 255

Reworking within 24h-service possible. Custom made parts on request.

General Basics for Spur Gears

Spur gears enable a non-slip power transmission between two parallel-mounted shafts. The spur gears listed in the catalogue are involute gears with a pressure angle of 20°.

Please note that gears with a number of teeth < 17 are undercut for manufacturing reasons (one reason for this is the simple calculation of the centre distance). The centre distance tolerances depend on the tooth quality in line with DIN 3964. The modules for spur gears used in the catalogue were derived from DIN 780 Series 1.

The formulas below apply to straight and helical spur gears for the usual gear-cutting tools (see table) and for the addendum modification 0 for sprocket and wheel (the so-called reference centre distance tooth system).

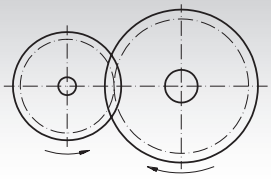
Module-Series 1

Module 0.3 Module 0.5 Module 0.7 Module 1.0 Module 1.25 Module 1.5 Module 2.0 Module 2.5 Module 3.0 Module 4.0 Module 5.0 Module 6.0 Module 8.0

Module-Series 2

Module 0.75 Module 3.5 Module 7.0

Rotational direction changes with every gear



Teeth straight

to be calculated	given unit	formula
No. of Teeth = z	Pitch Ø and Module	$\frac{d}{m}$
	Addendum-Circle Ø	$\frac{d_a - 2m}{m}$
Module = m in mm	Pitch	$\frac{t_0}{\pi}$
	Tip Ø and No. of Teeth	$\frac{d_a}{z + 2}$
	Pitch Ø and No. of Teeth	$\frac{d}{z}$
Pitch Ø = d in mm	No. of Teeth and Module	$z \cdot m$
	No. of Teeth and Tip Ø	$\frac{z \cdot d_a}{z + 2}$
	Tip Ø and Module	$d_a - 2m$
Tip Ø = d_a in mm	No. of Teeth and Module	$(z + 2) \cdot m$
	No. of Teeth and Pitch Ø	$d + \frac{2\,d}{z}$
	Pitch Ø and Module	$d + 2\,m$
Centre distance = a in mm	No. of Teeth and Module	$\left(\frac{z_1 + z_2}{2}\right) \cdot m$
	Pitch Ø and Pitch Ø	$\frac{d_1 + d_2}{2}$
Reduction Ratio = i	No. of Teeth and No. of Teeth	$\frac{z_2}{z_1}$
	Speed and Speed	$\frac{n_1}{n_2}$
Torque = Md in Nm	Power and Speed [kW] [min⁻¹]	$9550 \cdot \frac{P}{n}$
Peripheral Speed = V in m/sec.	Pitch Ø and Speed [mm] [min⁻¹]	$\frac{\pi \cdot d \cdot n}{60.000}$

Material quality: Information about the material quality can be found at each individual group of gears.

Teeth helical

to be calculated	given unit	formula
No. of Teeth	Pitch Ø, Standard Module and Spiral Angle	$\frac{d \cdot \cos ß}{m_n}$
	Tip Ø, Standard Module and Spiral Angle	$\frac{(d_a - 2\,m_n) \cdot \cos ß}{m_n}$
Normal Module	Standard Pitch	$\frac{t_{n0}}{\pi}$
	Pitch Ø, No. of Teeth and Spiral Angle	$\frac{d \cdot \cos ß}{z}$
	Tip Ø, No. of Teeth and Spiral Angle	$\frac{d_a}{\frac{z}{\cos ß} + 2}$
Real module	Reference Circle Pitch	$\frac{t_s}{\pi}$
	Standard Module and Spiral Angle	$\frac{m_n}{\cos ß}$
	Pitch Ø and No. of Teeth	$\frac{d}{z}$
Pitch Ø	No. of Teeth, Standard Module and Spiral Angle	$\frac{z \cdot m_n}{\cos ß}$
	No. of Teeth, Tip Ø and Spiral Angle	$\frac{z \cdot d_a}{z + 2 \cdot \cos ß}$
	Tip Ø and Standard Module	$d_a - 2\,m_n$
Tip Ø	No. of Teeth, Standard Module and Spiral Angle	$\left(\frac{z}{\cos ß} + 2\right) m_n$
	Pitch Ø and Standard Module	$d + 2m_n$
	Pitch Ø, No. of Teeth and Spiral Angle	$d + \frac{2\,d \cdot \cos ß}{z}$
Centre distance	No. of Teeth, Standard Module and Spiral Angle	$\left(\frac{z_1 + z_2}{2}\right) \frac{m_n}{\cos ß}$
	Pitch Ø and Pitch Ø	$\frac{d_1 + d_2}{2}$
Spiral Angle	Standard Module u. Real Module	$\frac{m_n}{m_s} = \cos ß$
	Standard Module, No. of Teeth and Pitch Ø	$\frac{z \cdot m_n}{d} = \cos ß$

Recommendations for the Lubrication of Spur Gear Units

Peripheral Speed	Lubrication	Lubricant
up to 1 m/s	Application of Lubricant	Adhesive Lubricant
up to 4 m/s	Splash Lubrication/Spray Lubrication	Grease or Adh. Lubricant
up to 15 m/s	Splash Lubrication	Oil
over 15 m/s	Pressure-Circulation or Spray Lubrication	Oil

Note Regarding the Torque-Values Stated in the Catalogue

The torque values given for gears in the dimension tables (the value "perm. MT" stated in Nm or Ncm) only relate to the teeth, without considering the shaft diameter or key size.

The load bearing capacity calculations are based on the basic principles regarding the pitting resistance of the tooth flanks and the occurring tooth root stress. The calculations are based on the DIN 3990 (Method B). For the calculation, the following assumptions were made:

Calcul. Factor/Determining Factor	Abbreviation	Value	Note
Calculation Method	-	-	DIN 3990, method B
DIN Quality	-	8	-
Tooth-Number Ratio	U	1	If U > 1, the flank safety for long and short addendum teeth increases while the tooth-root safety decreases For other tooth-number ratios please check both pinion and gear!
Manufacturing Tool: Addendum/Dedendum/ Tip Rounding	$h_{aP0}/h_{fP0}/rho_{aPo}$	1.25/1/0.25	Hob
Flank Safety	S_H	1.0	Endurance strength 10.000 h (for steel)
Tooth-Root Safety	S_F	1.5	Endurance strength 10.000 h (for steel)
Application Factor	K_A	1.25	Industrial gear mechanisms, uniform, light shocks.
Dynamics Factor	K_V	1.0	Usually without great influence
Load Distribution over Width	K_{Hbeta}	1	Idealised; requires precise, rigid and symmetric mounting
Lubricant/Surface Roughness Speed Factor	$Z_L * Z_V * Z_R$	1	• sufficient oil-lubrication • relative surface roughness $R_{Z100} = 10$ • peripheral speed 10 m/s
Lifetime Factor	Z_N	1	Endurance strength 10.000 h (for steel)
Operating temperature for plastic gears	T_{Betr}	up to 60°C	The material parametres of plastic gears largely depend on the temperature

The load bearing capacity of a gear depends on various different factors. The stated torques are only reference values, serving to facilitate the selection process. If necessary, a specific calculation of strength and load bearing capacity must be carried out for each application.

Depending on the operating conditions the wear lifespan may be influenced by adequate grease/oil lubrication. Please also note that insufficient lubrication may lead to scuffing of the gear flanks.

IMPORTANT

Please make sure you always check the permissible torque separately for the pinion and the gear side!
Due to their higher elasticity plastic gears are calculated with a K_{Hbeta} of 1. Gears made from brass and zinc-die-cast are also calculated with a K_{Hbeta} of 1, as a good running-in characteristic is assumed for these materials.

For the materials used, the following characteristic values were taken as basis:

Material	Perm. Pulsating Fatigue Strength under Bending Stress s_{bw} in N/mm²	Perm. Flank Pressure s_{Hlim} in N/mm²
POM	28 (VDI-2545)	40 (VDI-2545)
Acetal Resin	28 (VDI-2545)	40 (VDI-2545)
PA12G	40	48
ZnAl4Cu1	60	150
Ms58 (2.0401)	100	250
11SMnPb30 (alt: 9SMn28K)	150	350
C45 heat treated	200	590
42CrMo4 hardened	350	1360
16MnCr5 case hardened	400	1630
X10CrNiS18 9 (1.4305, stainless, austenitic)	200	400

Real Size of the Module Teeth DIN 867

Module 0.3

Module 0.5

Module 0.7

Module 1.0

Module 1.25

Module 1.5

Module 2.0

Module 2.5

Module 4.0

Module 5.0

Module 6.0

Module 8.0

Spur Gears Made from Plastic, with One-Sided Hub, Straight Tooth System, Die-Cast Version

Material: Acetal, nature white or polyketone (PK), nature, ivory-colored.

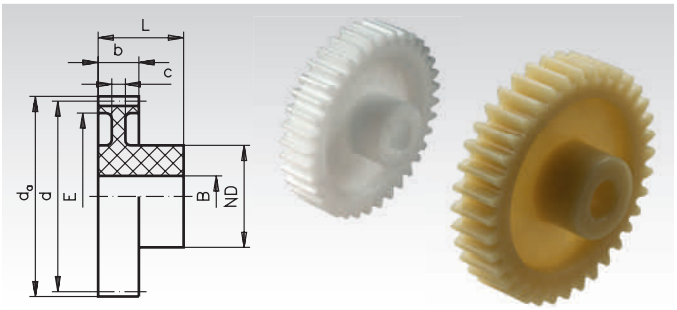
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

Acetal: Standard quality with high hardness.

Polyketone: Lower friction leads to much larger lifespan, even without lubrication. Much higher safety against tooth braking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load. Material reference values page 821.

Ordering Details: e.g.: Product No. 281 012 00, Spur Gear, Acetal, Module 0.5, 12 Teeth



Module 0.5 Tooth Width b = 3 mm

Product No. Acetal	Product No. Polyketone	Number of teeth	b mm	d_a mm	d mm	L mm	E mm	c mm	ND mm	B mm	perm. MT* Acetal Ncm	perm. MT* Polyketone Ncm	Weight Acetal g	Weight Polyketone g
281 012 00	**281 012 01**	12	3	7	6	7	-	-	4	2	0,80	0,84	0,14	0,13
281 013 00	**281 013 01**	13	3	7,5	6,5	7	-	-	4	2	0,90	0,95	0,16	0,14
281 014 00	**281 014 01**	14	3	8	7	7	-	-	5	2	1,00	1,05	0,22	0,20
281 015 00	**281 015 01**	15	3	8,5	7,5	10	-	-	6	3	1,10	1,16	0,34	0,30
281 016 00	**281 016 01**	16	3	9	8	10	-	-	6	3	1,20	1,26	0,35	0,31
281 017 00	**281 017 01**	17	3	9,5	8,5	10	-	-	6	3	1,30	1,37	0,39	0,35
281 018 00	**281 018 01**	18	3	10	9	10	-	-	7,8	4	1,50	1,58	0,53	0,48
281 019 00	**281 019 01**	19	3	10,5	9,5	10	-	-	7,8	4	1,70	1,79	0,57	0,51
281 020 00	**281 020 01**	20	3	11	10	10	-	-	7,9	4	1,90	2,00	0,60	0,54
281 021 00	**281 021 01**	21	3	11,5	10,5	10	-	-	8	4	2,10	2,21	0,63	0,57
281 022 00	**281 022 01**	22	3	12	11	10	-	-	10	4	2,40	2,52	0,92	0,83
281 023 00	**281 023 01**	23	3	12,5	11,5	10	-	-	9,9	4	2,60	2,73	0,95	0,85
281 024 00	**281 024 01**	24	3	13	12	10	-	-	9,9	4	2,90	3,05	0,99	0,89
281 025 00	**281 025 01**	25	3	13,5	12,5	10	-	-	9,9	4	3,20	3,36	1,03	0,92
281 026 00	**281 026 01**	26	3	14	13	10	-	-	9,9	4	3,50	3,68	1,08	0,97
281 027 00	**281 027 01**	27	3	14,5	13,5	10	-	-	9,9	4	3,80	3,99	1,12	1,00
281 028 00	**281 028 01**	28	3	15	14	10	-	-	10	4	4,20	4,41	1,20	1,08
281 030 00	**281 030 01**	30	3	16	15	10	-	-	11,9	4	4,90	5,15	1,55	1,39
281 032 00	**281 032 01**	32	3	17	16	10	-	-	12	4	5,70	5,99	1,68	1,51
281 035 00	**281 035 01**	35	3	18,5	17,5	10	-	-	12	4	7,00	7,35	1,86	1,67
281 036 00	**281 036 01**	36	3	19	18	10	-	-	11,9	4	7,50	7,88	1,90	1,70
281 038 00	**281 038 01**	38	3	20	19	10	-	-	12	4	8,50	8,93	2,01	1,80
281 040 00	**281 040 01**	40	3	21	20	10	14,8	2	12	4	9,50	9,98	2,01	1,80
281 042 00	**281 042 01**	42	3	22	21	10	17	2	12,2	4	10,6	11,1	2,14	1,92
281 045 00	**281 045 01**	45	3	23,5	22,5	10	18	2	12,2	4	12,5	13,1	2,33	2,09
281 048 00	**281 048 01**	48	3	25	24	10	19	2	15	6	14,5	15,2	3,03	2,72
281 050 00	**281 050 01**	50	3	26	25	10	20	2	15	6	16,0	16,8	3,11	2,79
281 052 00	**281 052 01**	52	3	27	26	10	21	2	15	6	17,5	18,4	3,24	2,91
281 054 00	**281 054 01**	54	3	28	27	10	21	2	15	6	19,0	20,0	3,43	3,08
281 055 00	**281 055 01**	55	3	28,5	27,5	10	23	2	15	6	19,8	20,8	3,47	3,11
281 056 00	**281 056 01**	56	3	29	28	10	23	2	15	6	20,4	21,4	3,61	3,24
281 060 00	**281 060 01**	60	3	31	30	10	23	2	15	6	21,2	22,3	3,88	3,48
281 064 00	**281 064 01**	64	3	33	32	10	23	2	15	6	23,5	24,7	4,33	3,88
281 065 00	**281 065 01**	65	3	33,5	32,5	10	23	2	15	6	23,9	25,1	4,42	3,96
281 070 00	**281 070 01**	70	3	36	35	10	29	2	15	6	25,8	27,1	4,62	4,14
281 072 00	**281 072 01**	72	3	37	36	10	30	2	15	6	26,5	27,8	4,89	4,39
281 075 00	**281 075 01**	75	3	38,5	37,5	10	33	2	15	6	27,7	29,1	4,86	4,36
281 080 00	**281 080 01**	80	3	41	40	10	33	2	15	6	29,5	31,0	5,68	5,09
281 090 00	**281 090 01**	90	3	46	45	10	39	2	15	6	33,2	34,9	6,55	5,88
281 096 00	**281 096 01**	96	3	49	48	10	42	2	15	6	35,5	37,3	6,90	6,19
281 100 00	**281 100 01**	100	3	51	50	10	44	2	15	6	37,0	38,9	7,51	6,74
281 120 00	**281 120 01**	120	3	61	60	10	54	2	15	6	44,0	46,2	10,3	9,23

* Basis of calculations see page 197.

Note Regarding the Machining

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.

Spur Gears Made from Plastic, with One-Sided Hub, Straight Tooth System, Die-Cast Version

Material: Acetal, nature white or polyketone (PK), nature, ivory-colored.

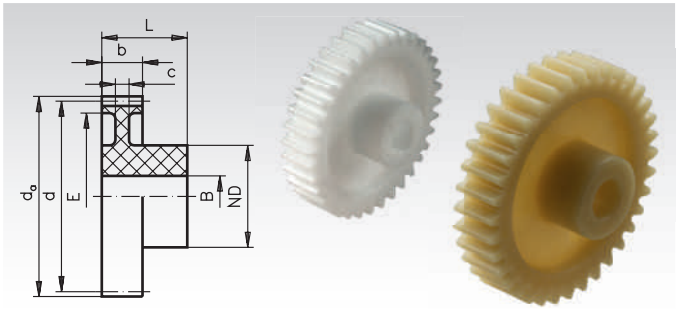
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

Acetal: Standard quality with high hardness.

Polyketone: Lower friction leads to much larger lifespan, even without lubrication. Much higher safety against tooth braking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load. Material reference values page 821.

Ordering Details:e.g.: Product No. 282 012 00, Spur Gear, Acetal, Module 0.7, 12 Teeth



Module 0.7 Tooth Width b = 6 mm

Product No. Acetal	Product No. Polyketone	Number of teeth	b mm	d_a mm	d mm	L mm	E mm	c mm	ND mm	B mm	perm. MT* Acetal Ncm	perm. MT* Polyketone Ncm	Weight Acetal g	Weight Polyketone g
282 012 00	**282 012 01**	12	6	9,8	8,4	15	-	-	6	3	3,10	3,26	0,64	0,56
282 013 00	**282 013 01**	13	6	10,5	9,1	15	-	-	6	3	3,60	3,78	0,72	0,63
282 014 00	**282 014 01**	14	6	11,2	9,8	15	-	-	6	3	4,10	4,31	0,82	0,72
282 015 00	**282 015 01**	15	6	11,9	10,5	15	-	-	6	3	4,60	4,83	0,88	0,77
282 016 00	**282 016 01**	16	6	12,6	11,2	15	-	-	9	4	5,10	5,36	1,26	1,11
282 017 00	**282 017 01**	17	6	13,3	11,9	15	-	-	9	4	5,30	5,57	1,63	1,43
282 018 00	**282 018 01**	18	6	14,0	12,6	15	-	-	9	4	6,10	6,41	1,48	1,30
282 019 00	**282 019 01**	19	6	14,7	13,3	15	-	-	9	4	7,00	7,35	1,62	1,42
282 020 00	**282 020 01**	20	6	15,4	14,0	15	-	-	9	4	7,90	8,30	1,70	1,49
282 021 00	**282 021 01**	21	6	16,1	14,7	15	-	-	9	4	8,90	9,35	1,85	1,63
282 022 00	**282 022 01**	22	6	16,8	15,4	15	-	-	9	4	9,90	10,4	1,98	1,74
282 023 00	**282 023 01**	23	6	17,5	16,1	15	-	-	9	4	11,0	11,6	2,13	1,87
282 024 00	**282 024 01**	24	6	18,2	16,8	15	13	3	9	4	12,2	12,8	2,00	1,76
282 025 00	**282 025 01**	25	6	18,9	17,5	15	13	3	9	6	13,4	14,1	2,01	1,77
282 026 00	**282 026 01**	26	6	19,6	18,2	15	13	3	9	6	14,7	15,4	2,12	1,86
282 027 00	**282 027 01**	27	6	20,3	18,9	15	13	3	9	6	16,0	16,8	2,28	2,00
282 028 00	**282 028 01**	28	6	21,0	19,6	15	13	3	9	6	17,5	18,4	2,47	2,17
282 030 00	**282 030 01**	30	6	22,4	21,0	15	16	3	12	6	20,5	21,5	3,47	3,05
282 032 00	**282 032 01**	32	6	23,8	22,4	15	16	3	12	6	24,0	25,2	3,87	3,40
282 035 00	**282 035 01**	35	6	25,9	24,5	15	18,5	3	15	6	29,4	30,9	5,20	4,57
282 036 00	**282 036 01**	36	6	26,6	25,2	15	18,5	3	15	6	31,4	33,0	5,43	4,77
282 038 00	**282 038 01**	38	6	28,0	26,6	15	21	3	15	6	35,6	37,4	5,68	4,99
282 040 00	**282 040 01**	40	6	29,4	28,0	15	21	3	15	6	40,0	42,0	6,07	5,34
282 042 00	**282 042 01**	42	6	30,8	29,4	15	24	2	18	6	45,0	47,3	7,07	6,21
282 045 00	**282 045 01**	45	6	32,9	31,5	15	24	2	18	6	52,8	55,4	7,98	7,01
282 048 00	**282 048 01**	48	6	35,0	33,6	15	24	2	18	8	61,3	64,4	8,51	7,48
282 050 00	**282 050 01**	50	6	36,4	35,0	15	27,5	2	18	8	67,4	70,8	8,10	7,12
282 052 00	**282 052 01**	52	6	37,8	36,4	15	27,5	2	18	8	73,8	77,5	8,97	7,88
282 054 00	**282 054 01**	54	6	39,2	37,8	15	27,5	2	18	8	77,6	81,5	9,40	8,26
282 055 00	**282 055 01**	55	6	39,9	38,5	15	30	2	18	8	79,2	83,2	9,91	8,71
282 056 00	**282 056 01**	56	6	40,6	39,2	15	30	2	18	8	80,7	84,7	9,93	8,73
282 060 00	**282 060 01**	60	6	43,4	42,0	15	30	2	18	8	86,4	90,7	11,3	9,93
282 064 00	**282 064 01**	64	6	46,2	44,8	15	37	2	18	8	92,2	96,8	10,2	9,00
282 065 00	**282 065 01**	65	6	46,9	45,5	15	37	2	18	8	94,7	99,4	10,5	9,23
282 070 00	**282 070 01**	70	6	50,4	49,0	15	37	2	18	8	102	107	12,5	11,0
282 072 00	**282 072 01**	72	6	51,8	50,4	15	37	2	18	8	103	109	13,2	11,6
282 075 00	**282 075 01**	75	6	53,9	52,5	15	37	2	18	10	108	114	14,0	12,3
282 080 00	**282 080 01**	80	6	57,4	56,0	15	46,5	2	21	10	116	122	14,3	12,5
282 090 00	**282 090 01**	90	6	64,4	63,0	15	57	2	21	10	130	137	20,5	18,0
282 096 00	**282 096 01**	96	6	68,6	67,2	15	57	2	21	10	140	147	23,6	20,7
282 100 00	**282 100 01**	100	6	71,4	70,0	15	57	2	21	10	145	152	26,9	23,6
282 120 00	**282 120 01**	120	6	85,4	84,0	15	77	2	21	10	173	182	33,6	29,5

* Basis of calculations see page 197.

Note Regarding the Machining

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.

Spur Gears Made from Plastic, with One-Sided Hub, Straight Tooth System, Die-Cast Version

Material: Acetal, nature white or polyketone (PK), nature, ivory-colored.

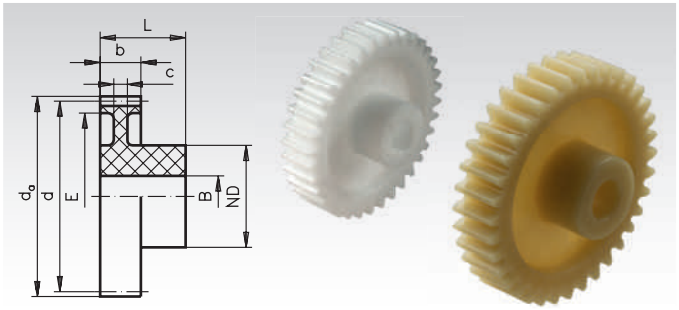
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

Acetal: Standard quality with high hardness.

Polyketone: Lower friction leads to much larger lifespan, even without lubrication. Much higher safety against tooth braking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load. Material reference values page 821.

Ordering Details: e.g.: Product No. 283 012 00, Spur Gear, Acetal, Module 1, 12 Teeth



Module 1.0 Tooth Width b = 9 mm

Product No. Acetal	Product No. Polyketone	Number of teeth	b mm	d_a mm	d mm	L mm	E mm	c mm	ND mm	B mm	perm. MT* Acetal Ncm	perm. MT* Polyketone Ncm	Weight Acetal g	Weight Polyketone g
283 012 00	**283 012 01**	12	9	14	12	17	-	-	9	4	10,0	10,5	1,68	1,51
283 013 00	**283 013 01**	13	9	15	13	17	-	-	9	4	12,0	12,6	2,04	1,83
283 014 00	**283 014 01**	14	9	16	14	17	-	-	9	4	13,0	13,7	2,16	1,94
283 015 00	**283 015 01**	15	9	17	15	17	-	-	9	4	15,0	15,8	2,50	2,24
283 016 00	**283 016 01**	16	9	18	16	17	-	-	9	4	17,0	17,9	2,74	2,46
283 017 00	**283 017 01**	17	9	19	17	17	12	-	9	4	17,0	17,9	2,80	2,51
283 018 00	**283 018 01**	18	9	20	18	17	13	6	9	4	20,0	21,0	3,26	2,92
283 019 00	**283 019 01**	19	9	21	19	17	13	6	9	4	23,0	24,2	3,56	3,19
283 020 00	**283 020 01**	20	9	22	20	17	13	6	9	4	26,0	27,3	4,00	3,59
283 021 00	**283 021 01**	21	9	23	21	17	16	6	12	5	29,0	30,5	4,84	4,34
283 022 00	**283 022 01**	22	9	24	22	17	16	6	12	5	33,0	34,7	5,20	4,66
283 023 00	**283 023 01**	23	9	25	23	17	16	6	12	5	36,0	37,8	5,67	5,09
283 024 00	**283 024 01**	24	9	26	24	18	18,5	6	15	6	40,0	42,0	6,59	5,91
283 025 00	**283 025 01**	25	9	27	25	18	18,5	6	15	6	44,0	46,2	7,25	6,5
283 026 00	**283 026 01**	26	9	28	26	18	18,5	6	15	6	49,0	51,5	7,49	6,72
283 027 00	**283 027 01**	27	9	29	27	18	18,5	6	15	6	53,0	55,7	8,17	7,33
283 028 00	**283 028 01**	28	9	30	28	18	21	6	15	6	58,0	60,9	8,30	7,45
283 030 00	**283 030 01**	30	9	32	30	18	21	6	15	6	68,0	71,4	9,49	8,51
283 032 00	**283 032 01**	32	9	34	32	18	23,5	4,6	18	6	79,0	83,0	11,3	10,1
283 035 00	**283 035 01**	35	9	37	35	18	23,5	4,6	18	8	98,0	103	12,7	11,4
283 036 00	**283 036 01**	36	9	38	36	18	27	4,6	18	8	104	109	12,4	11,2
283 038 00	**283 038 01**	38	9	40	38	18	27	4,6	18	8	119	125	14,1	12,7
283 040 00	**283 040 01**	40	9	42	40	18	27	4,6	18	8	134	141	15,4	13,8
283 042 00	**283 042 01**	42	9	44	42	18	27	4,6	18	8	150	158	16,8	15,1
283 045 00	**283 045 01**	45	9	47	45	18	36,5	4,6	18	8	176	185	16,2	14,5
283 048 00	**283 048 01**	48	9	50	48	18	36,5	4,6	18	8	205	215	19,0	17,0
283 050 00	**283 050 01**	50	9	52	50	18	36,5	4,6	18	8	221	232	20,6	18,4
283 052 00	**283 052 01**	52	9	54	52	18	46	4,6	21	8	229	240	20,6	18,5
283 054 00	**283 054 01**	54	9	56	54	18	46	4,6	21	8	238	250	22,3	20,0
283 055 00	**283 055 01**	55	9	57	55	18	46	4,6	21	8	243	255	23,6	21,2
283 056 00	**283 056 01**	56	9	58	56	18	46	4,6	21	8	247	259	25,1	22,6
283 058 00	**283 058 01**	58	9	60	58	18	46	4,6	21	8	257	270	26,4	23,7
283 060 00	**283 060 01**	60	9	62	60	18	46	4,6	21	8	266	279	29,0	26,0
283 064 00	**283 064 01**	64	9	66	64	18	56,5	4,6	21	10	285	299	33,9	30,4
283 065 00	**283 065 01**	65	9	67	65	18	56,5	4,6	21	10	289	303	36,1	32,4
283 070 00	**283 070 01**	70	9	72	70	18	56,5	4,6	21	10	312	328	41,7	37,4
283 072 00	**283 072 01**	72	9	74	72	18	66	4,6	21	10	321	337	39,3	35,6
283 075 00	**283 075 01**	75	9	77	75	18	66	4,6	21	10	335	352	44,4	39,9
283 080 00	**283 080 01**	80	9	82	80	18	66	4,6	21	10	358	376	52,6	47,2
283 085 00	**283 085 01**	85	9	87	85	18	66	4,6	21	10	380	399	59,5	53,4
283 090 00	**283 090 01**	90	9	92	90	18	76	4,6	21	10	403	423	66,3	59,5
283 100 00	**283 100 01**	100	9	102	100	18	86	4,6	24	12	447	469	68,6	61,6
283 110 00	**283 110 01**	110	9	112	110	18	96	4,6	24	12	491	516	83,0	74,4
283 120 00	**283 120 01**	120	9	122	120	18	105,5	4,6	24	12	535	562	95,6	84,7
283 130 00	**283 130 01**	130	9	132	130	18	115	4,6	24	12	573	602	110	98,4
283 140 00	**283 140 01**	140	9	142	140	18	125	4,6	24	12	616	647	124	111

* Basis of calculations see page 197.

Note Regarding the Machining

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.

Spur Gears Made from Plastic, with One-Sided Hub, Straight Tooth System, Die-Cast Version

Material: Acetal, nature white or polyketone (PK), nature, ivory-colored.

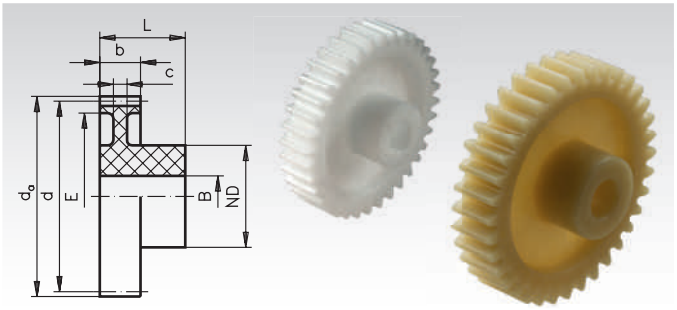
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

Acetal: Standard quality with high hardness.

Polyketone: Lower friction leads to much larger lifespan, even without lubrication. Much higher safety against tooth braking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load. Material reference values page 821.

Ordering Details: e.g.: Product No. 284 012 00, Spur Gear, Acetal, Module 1.25, 12 Teeth



Module 1.25 Tooth Width b = 10 mm

Product No. Acetal	Product No. Polyketone	Number of teeth	b mm	d_a mm	d mm	L mm	E mm	c mm	ND mm	B mm	perm. MT* Acetal Ncm	perm. MT* Polyketone Ncm	Weight Acetal g	Weight Polyketone g
284 012 00	**284 012 01**	12	10	17,5	15	19	-	-	9	5	19,0	20,0	2,64	2,28
284 013 00	**284 013 01**	13	10	18,75	16,25	19	-	-	9	5	21,0	22,1	2,92	2,62
284 014 00	**284 014 01**	14	10	20	17,5	19	-	-	9	5	24,0	25,2	3,43	3,08
284 015 00	**284 015 01**	15	10	21,25	18,75	19	13	7	9	5	27,0	28,4	3,79	3,4
284 016 00	**284 016 01**	16	10	22,5	20	19	13	7	9	5	31,0	32,6	4,24	3,8
284 017 00	**284 017 01**	17	10	23,75	21,25	19	13	7	9	5	32,0	33,6	4,50	4,04
284 018 00	**284 018 01**	18	10	25	22,5	19	16	7	12	5	36,0	37,8	5,99	5,37
284 019 00	**284 019 01**	19	10	26,25	23,75	19	16	7	12	5	42,0	44,1	6,62	5,94
284 020 00	**284 020 01**	20	10	27,5	25	19	16	7	12	5	47,0	49,4	7,08	6,35
284 021 00	**284 021 01**	21	10	28,75	26,25	19	18,5	7	15	6	53,0	55,7	8,10	7,27
284 022 00	**284 022 01**	22	10	30	27,5	19	18,5	7	15	6	59,0	62,0	9,14	8,20
284 023 00	**284 023 01**	23	10	31,25	28,75	19	18,5	7	15	6	66,0	69,3	9,75	8,75
284 024 00	**284 024 01**	24	10	32,5	30	19	21	7	15	6	73,0	76,7	10,4	9,4
284 025 00	**284 025 01**	25	10	33,75	31,25	19	21	7	15	6	81,0	85,1	11,4	10,2
284 026 00	**284 026 01**	26	10	35	32,5	19	23,5	5,5	18	6	89,0	93,5	12,5	11,2
284 027 00	**284 027 01**	27	10	36,25	33,75	19	23,5	5,5	18	6	97,0	102	12,9	11,6
284 028 00	**284 028 01**	28	10	37,5	35	19	23,5	5,5	18	8	106	111	13,8	12,4
284 030 00	**284 030 01**	30	10	40	37,5	19	27	5,5	18	8	124	130	14,9	13,3
284 032 00	**284 032 01**	32	10	42,5	40	19	27	5,5	18	8	145	152	17,0	15,3
284 035 00	**284 035 01**	35	10	46,25	43,75	19	27	5,5	18	8	179	188	20,2	18,1
284 036 00	**284 036 01**	36	10	47,5	45	19	36	5,5	18	8	191	201	18,2	16,3
284 038 00	**284 038 01**	38	10	50	47,5	19	36	5,5	18	8	217	228	21,1	18,9
284 040 00	**284 040 01**	40	10	52,5	50	19	36	5,5	18	8	245	257	23,1	20,7
284 042 00	**284 042 01**	42	10	55	52,5	19	36	5,5	18	8	275	289	27,0	24,2
284 045 00	**284 045 01**	45	10	58,75	56,25	19	46	5,5	21	8	324	340	28,8	25,9
284 048 00	**284 048 01**	48	10	62,5	60	19	46	5,5	21	8	366	384	33,1	29,7
284 050 00	**284 050 01**	50	10	65	62,5	19	46	5,5	21	8	383	402	37,2	33,3
284 052 00	**284 052 01**	52	10	67,5	65	19	56	5,5	21	10	399	419	39,5	35,5
284 054 00	**284 054 01**	54	10	70	67,5	19	56	5,5	21	10	416	437	38,7	34,7
284 055 00	**284 055 01**	55	10	71,25	68,75	19	56	5,5	21	10	424	445	40,4	36,2
284 056 00	**284 056 01**	56	10	72,5	70	19	56	5,5	21	10	432	454	46,9	42,1
284 060 00	**284 060 01**	60	10	77,5	75	19	66	5,5	21	10	465	488	49,9	44,8
284 064 00	**284 064 01**	64	10	82,5	80	19	66	5,5	21	10	497	522	57,9	52,0
284 065 00	**284 065 01**	65	10	83,75	81,25	19	66	5,5	21	10	505	530	60,0	53,9
284 070 00	**284 070 01**	70	10	90	87,5	19	76	5,5	21	10	546	573	70,2	63,0
284 072 00	**284 072 01**	72	10	92,5	90	19	76	5,5	21	12	567	595	74,4	66,7
284 075 00	**284 075 01**	75	10	96,25	93,75	19	76	5,5	21	10	585	614	81,9	73,5
284 080 00	**284 080 01**	80	10	102,5	100	19	86	5,5	24	12	618	649	79,8	71,6
284 090 00	**284 090 01**	90	10	115	112,5	19	95	5,5	24	12	635	667	99,5	89,3
284 100 00	**284 100 01**	100	10	127,5	125	19	105,5	5,5	24	12	654	686	123	110
284 110 00	**284 110 01**	110	10	140	137,5	19	115	5,5	24	12	711	746	149	134

* Basis of calculations see page 197.

Note Regarding the Machining

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.

Spur Gears Made from Plastic, with One-Sided Hub, Straight Tooth System, Die-Cast Version

Material: Acetal, nature white or polyketone (PK), nature, ivory-colored.

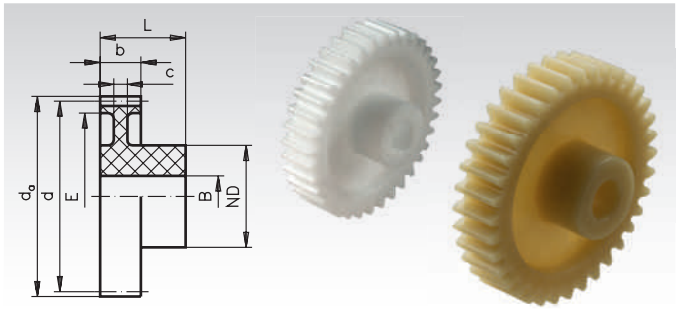
Moulded version. Bores machined. Pressure angle 20°. Usable also under water or other mediums.

Acetal: Standard quality with high hardness.

Polyketone: Lower friction leads to much larger lifespan, even without lubrication. Much higher safety against tooth braking, specially at longterm usage.

Temperature Range: -40°C to +140°C due to the load.
Material reference values page 821.

Ordering Details: e.g.: Product No. 285 012 00, Spur Gear, Acetal, Module 1.5, 12 Teeth



Module 1.5 Tooth Width b = 12 mm / 19 mm

Product No. Acetal	Product No. Polyketone	Number of teeth	b mm	d_a mm	d mm	L mm	E mm	c mm	ND mm	B mm	perm. MT* Acetal Ncm	perm. MT* Polyketone Ncm	Weight Acetal g	Weight Polyketone g
285 012 00	**285 012 01**	12	12	21	18	23	-	-	14	6	33,0	34,7	5,66	5,08
285 013 00	**285 013 01**	13	12	22,5	19,5	23	-	-	14	6	38,0	39,9	6,14	5,51
285 014 00	**285 014 01**	14	12	24	21	23	-	-	14	6	44,0	46,2	6,95	6,23
285 015 00	**285 015 01**	15	12	25,5	22,5	23	-	-	14	6	49,0	51,5	7,90	7,09
285 016 00	**285 016 01**	16	12	27	24	23	-	-	14	6	55,0	57,8	8,69	7,79
285 017 00	**285 017 01**	17	12	28,5	25,5	23	-	-	14	6	57,0	59,9	9,71	8,71
285 018 00	**285 018 01**	18	12	30	27	23	-	-	17	8	65,0	68,3	10,8	9,70
285 019 00	**285 019 01**	19	12	31,5	28,5	23	-	-	17	8	75,0	78,8	12,0	10,8
285 020 00	**285 020 01**	20	12	33	30	23	-	-	17	8	85,0	89,3	12,6	11,3
285 021 00	**285 021 01**	21	12	34,5	31,5	23	22,5	5	17	8	96,0	101	13,1	11,7
285 022 00	**285 022 01**	22	12	36	33	23	22,5	5	17	8	107	112	14,3	12,9
285 023 00	**285 023 01**	23	12	37,5	34,5	23	22,5	5	17	8	119	125	15,5	13,9
285 024 00	**285 024 01**	24	12	39	36	23	26,5	5	19	8	132	139	17,0	15,2
285 025 00	**285 025 01**	25	12	40,5	37,5	23	26,5	5	19	8	146	153	19,0	17,0
285 026 00	**285 026 01**	26	12	42	39	23	26,5	5	19	8	160	168	19,9	17,9
285 027 00	**285 027 01**	27	12	43,5	40,5	23	25,5	5	19	8	175	184	21,9	19,7
285 028 00	**285 028 01**	28	12	45	42	23	25,5	5	19	8	191	201	23,5	21,1
285 030 00	**285 030 01**	30	12	48	45	23	33,5	5	24	10	225	236	26,2	23,5
285 032 00	**285 032 01**	32	12	51	48	23	33,5	5	24	10	262	275	30,2	27,1
285 035 00	**285 035 01**	35	12	55,5	52,5	23	41,5	5	24	10	324	340	31,9	28,6
285 036 00	**285 036 01**	36	12	57	54	23	41,5	5	24	10	347	364	33,3	29,9
285 038 00	**285 038 01**	38	12	60	57	23	41,5	5	24	10	394	414	38,7	34,7
285 040 00	**285 040 01**	40	12	63	60	23	48,5	5	24	10	445	467	37,9	34,0
285 042 00	**285 042 01**	42	12	66	63	23	48,5	5	24	10	500	525	41,8	37,5
285 045 00	**285 045 01**	45	12	70,5	67,5	23	48,5	5	24	10	589	618	50,2	45,1
285 048 00	**285 048 01**	48	12	75	72	23	48,5	5	24	10	635	667	57,7	51,8
285 050 00	**285 050 01**	50	12	78	75	23	63	5	27	12	664	697	52,4	47,0
285 052 00	**285 052 01**	52	12	81	78	23	63	5	27	12	693	728	57,6	51,7
285 054 00	**285 054 01**	54	12	84	81	23	63	5	27	12	721	757	64,2	57,6
285 055 00	**285 055 01**	55	12	85,5	82,5	23	63	5	27	12	735	772	67,9	60,9
285 060 00	**285 060 01**	60	12	93	90	23	63	5	27	12	806	846	85,8	77,0
285 070 00	**285 070 01**	70	12	108	105	23	88	5	30	14	946	993	95,7	85,9
285 080 00	**285 080 01**	80	12	123	120	23	104	5	30	14	1080	1140	117	104
285 090 00	**285 090 01**	90	12	138	135	23	116	5	30	14	1210	1270	144	129
285 100 00	**285 100 01**	100	19	153	150	34	133	8	40	20	1340	1410	290	260
285 110 00	**285 110 01**	110	19	168	165	34	148	8	40	20	1480	1550	336	301
285 120 00	**285 120 01**	120	19	183	180	34	163	8	40	20	1610	1690	389	384
285 130 00	**285 130 01**	130	19	198	195	34	178	8	40	20	1750	1840	440	394
285 140 00	**285 140 01**	140	19	213	210	34	193	8	40	20	1880	1970	498	447
285 150 00	**285 150 01**	150	19	228	225	34	208	8	40	20	2020	2120	566	508

* Basis of calculations see page 197.

Note Regarding the Machining

Inside these die-cast parts are some cavities caused by production. These parts should therefore not be drilled too deep. With larger bores or when grooving the cavities might become visible. This often does not affect the functionality.

Reworking within 24h-service possible. Custom made parts on request.