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Driving gear and conveyor technology
Profiled belts
Continuous round belts turned and plaited

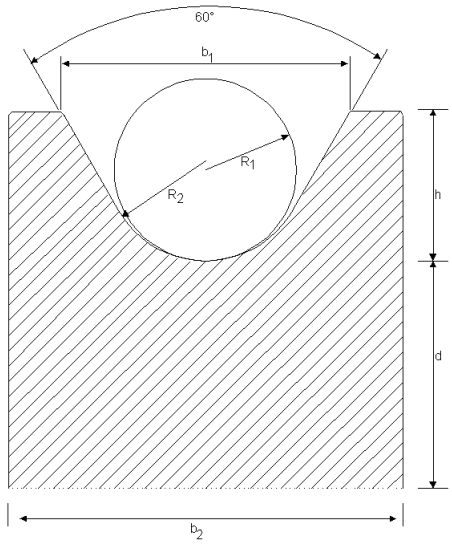
Belt pulleys

We manufacture pulleys in our own production plant either as standard pulleys or according to customer requests out of aluminium, steel, stainless steel, polyamide or POM – in a wide range of profile forms.

Round belt pulleys

Rim shapes of round belt pulleys

Profile 1



b1 = Ø + 55,6 %
b2 = 2 x Ø
h = 80% from Ø
r1 = ½ Ø
r2 = ½ Ø + 10%
d = Pulley - Ø

Order code: P1

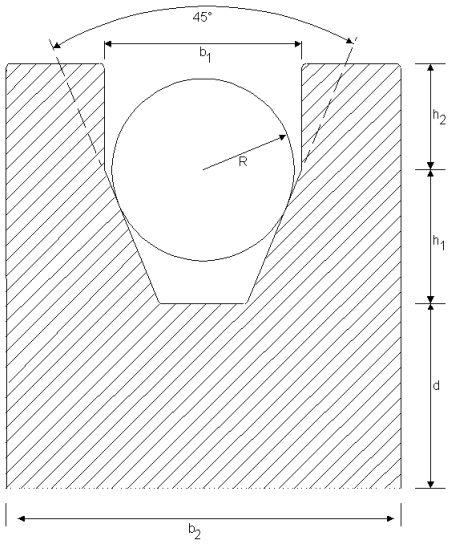
Drive

PUR round belts
Elastic round belts (high-speed)
Plaited round belts
Turned round belts (high-speed)
Injected round belts

Transport

PUR round belts
Elastic round belts
Plaited round belts
Turned round belts
Injected round belts

Profile 2



b1 = Ø + 10%
b 2 = Ø + 80%
h1 = 80% from Ø
h2 = ½ Ø
r = ½ Ø
d = Pulley - Ø

Order code: P2

Drive

Elastic round belts (low-speed)
Plaited round belts (low-speed)
Turned round belts (low-speed)

Transport

Elastic round belts
Plaited round belts
Turned round belts
(reasonably reducing h2)

Profile 1 is primarily used for high-speed drives, deflexion pulleys and supporting pulleys.
Profile 2 used for slower drives and conveying applications with high power transmission.
In selecting a pulley profile, please pay attention to the information of the various types. In the data sheets there may be, depending on the materials used, other recommendations.

These pulleys are supplied from:

20 – 50 mm Ø with single-sided hub 10 mm, predrilled with 5 mm
50 – 100 mm Ø with single-sided hub 10 mm, predrilled with 6 mm
100 – 150 mm Ø with single-sided hub 15 mm, predrilled with 8 mm
150 – 250 mm Ø with single-sided hub 15 mm, predrilled with 12 mm
250 – 350 mm Ø with single-sided hub 20 mm, predrilled with 15 mm

We not only offer blanks but also finished products with bore hole, key slot and adjusting screw. We can process diameters of up to 650 mm with our machines.

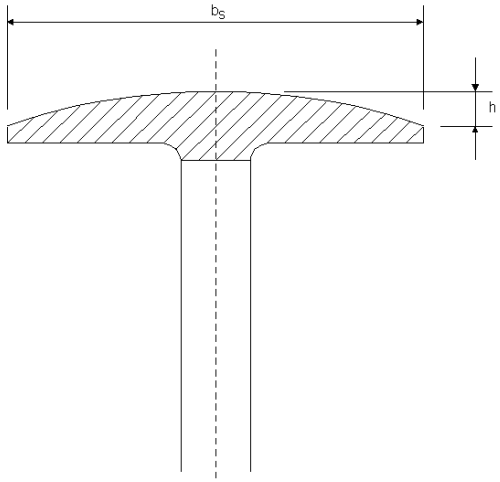
Flat belt pulleys

Rim shapes of flat belt pulleys

Basically belt pulleys should be manufactured in accordance with the applicable DIN or ISO standard.

Convex rims according to DIN 111 or ISO 100

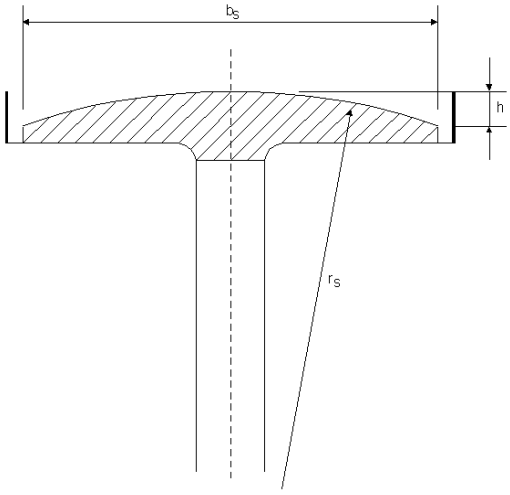
Profile 1



slightly convex rim

Order code: SBK

Profile 2



slightly convex rim with side borders

SBKB

The running surface of the pulley should have a surface roughness of R_z 25 according to DIN 4768 in order to ensure good friction between the flat belt and the pulley.

Table: Bulging height or convexity as a function of belt width b

b (mm)	10	13	16	20	25	32	40	50	63	80	100	125	160	200
bs (mm)	13	16	20	25	32	40	50	63	80	100	125	160	200	250
h (mm)	0,3	0,3	0,3	0,3	0,3	0,4	0,4	0,4	0,4	0,4	0,5	0,6	0,7	0,8
$r_{s\ (mm)}$	71	107	167	261	427	500	782	1241	2000	2500	3907	5334	7143	9766

Pulley shape for horizontal shafts

Basically the large pulley should always be convex. The small pulley can be cylindrical if the transmission ratio exceeds 1:3.

Pulley shapes for vertical shafts

Both pulleys should be convex in all cases.

These pulleys are supplied from:

20 – 50 mm Ø with single-sided hub 10 mm, predrilled with 5 mm
50 – 100 mm Ø with single-sided hub 10 mm, predrilled with 6 mm
100 – 150 mm Ø with single-sided hub 15 mm, predrilled with 8 mm
150 – 250 mm Ø with single-sided hub 15 mm, predrilled with 12 mm
250 – 350 mm Ø with single-sided hub 20 mm, predrilled with 15 mm

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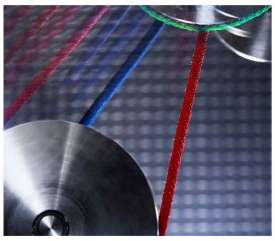
Company profile



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Testing Service

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Welded timing belts
in short lengths

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Round belts for
heat-setting machines

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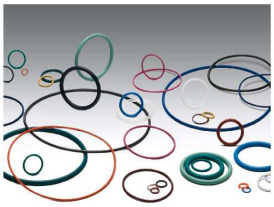
Endless injected round belts



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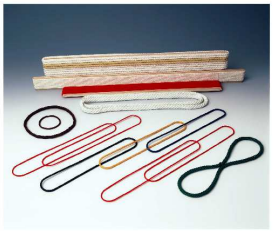
Endless turned round belts



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Endless plaited round belts

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Hooked belts

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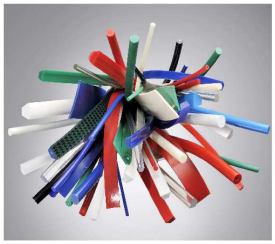
PU round- and profile belts



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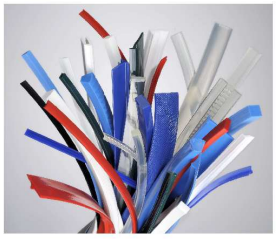
PU profile belts and
special profiles



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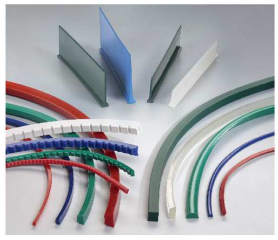
PU tracking guides, cleats
and guides



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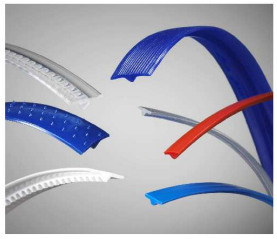
PU-V-Guide belts
compliant to EU/FDA



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Food line

Types for the food industry compliant to EU/FDA

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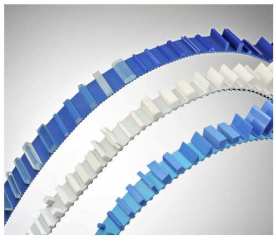
PU cleats and block profiles



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PU Poly-V belts

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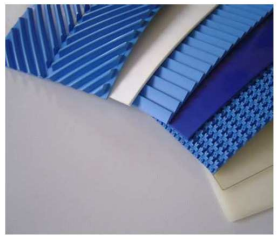
PU coatings



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Effective 12/2016