



HIGH-PERFORMANCE FLAT BELTS





KEIPER has an extensive range of flat belts, including high-performance flat belts, power transmission belts, folder-gluer belts, machine belts, tangential belts and conveying belts. For the perfect power transmission, conveying or control solution in any industrial sector.

Keiper flat belts are designed to meet your specific requirements and applications, and, accordingly, they are made to size.

Our flat belts are made of different traction layers and composite structures with different coatings such as nitrile-butadiene rubber, leather and surface structures.

FLEXA

- With a polyamide or polyester reinforcement
- With a one-sided or two-sided coating of nitrile-butadiene rubber, highly resistant to abrasion and wear
- Different surface structures
- Power transmission belts
- Folder-gluer belts
- Machine belts
- Spindle belts
- Tangential belts
- Conveying belts

CROMA

- With a polyamide reinforcement
- With a one-sided or two-sided coating of chrome-split leather, highly resistant to abrasion and wear
- Power transmission belts
- Folder-gluer belts

Butt leather belts

- Made of pure prestretched butt leather
- Power transmission belts

Rubber- and fabric belts

- With 3-, 4-, 5-, or 6-ply rubber-fabric traction layer
- A cost-effective power transmission solution for simple applications
- Power transmission belts



Welcome to KEIPER!

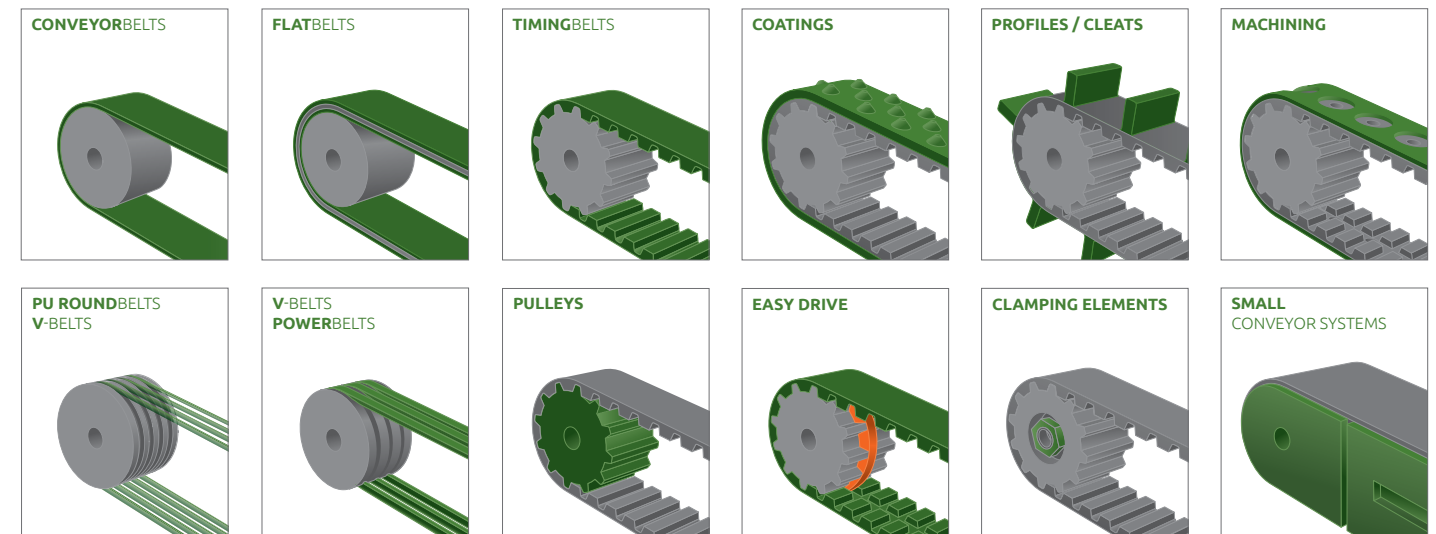
For more than 90 years we have been supplying reliable power transmission and conveyor technology for industrial, commercial and trade purposes. Dependable and fast. KEIPER in Fellbach near Stuttgart stands for many decades of engineering competence, experience and innovation. Our customers' requirements always are the focus of our work.

As a modern full-service partner, we deliver thought-out solutions for the diverse and continuously changing requirements in power transmission and conveyor systems. Our customers appreciate our personal support and cooperation, the diversity of our product range and our high flexibility.

Sound solutions for all sectors:

Close cooperation with our distribution partners enables us to produce the best possible products, and this is true also for custom-made products. Our development, design and production know-how is rounded off by meticulous quality control.

High-grade raw materials and continuous product development are the foundation of the high quality of all KEIPER products.



Practical relevance day after day: Based on our expert knowledge of the special characteristics of certain products, many years of experience in myriad sectors and constant communication with users, we are able to develop highly effective product solutions every day. Our extensive engineering skills and our team of experienced specialists ensure perfect power transmission and conveyor technology.

Certification: Our products and solutions as well as our daily work processes comply with the most stringent quality standards. KEIPER has ISO 9001:2008 Certification.

KEIPER the licensing partner of easy drive®:

The new standard in timing belt engineering – easy drive® – is distributed by KEIPER GmbH & Co. KG, the official licensing partner. www.easydrive.info



Keiper's high-performance FLEXA flat belts are made of fully synthetic polyamide or polyester fabric and polyamide foil, with or without a suitable adhesion coating made of nitrile-butadiene rubber, depending on the wide range of possible power transmission and conveying applications.

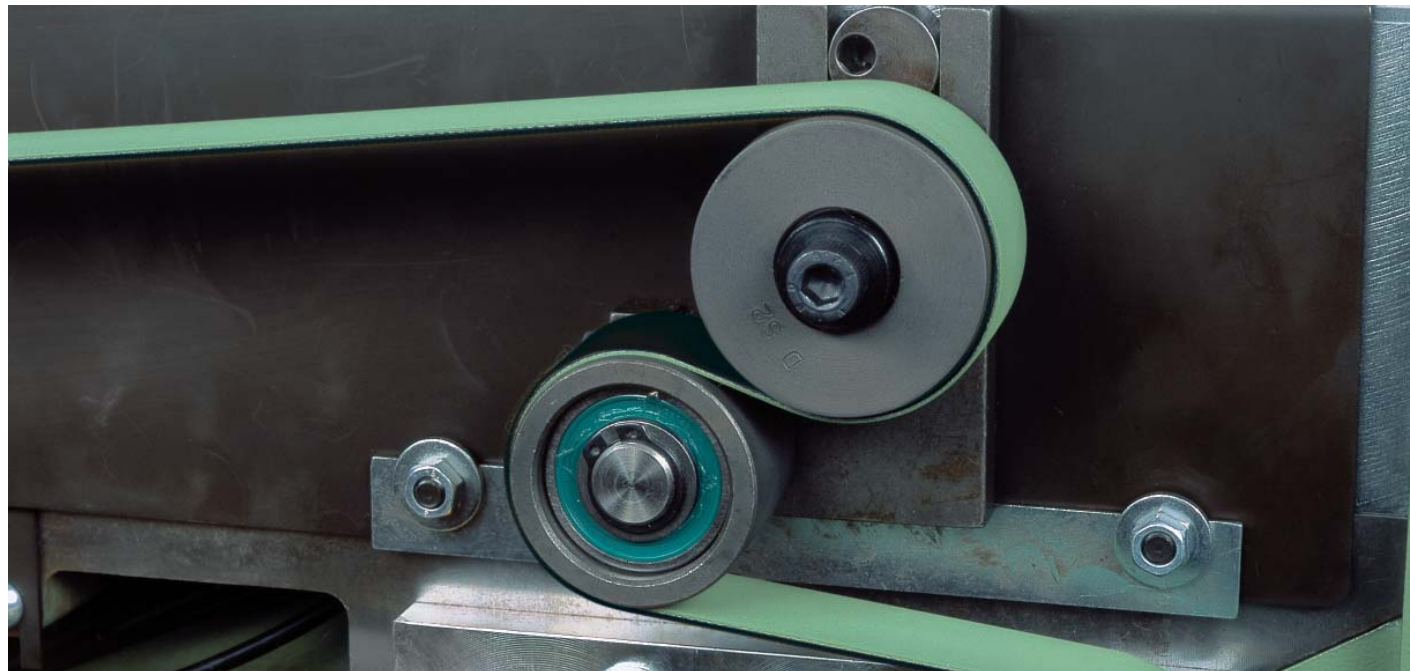
- Fitted with a polyamide or polyester reinforcement
- With a one-sided or two-sided coating of nitrile-butadiene rubber, highly resistant to abrasion and wear
- Different surface structures

FLEXA belts can be used as

- Power transmission belts
- Folder-gluer belts
- Machine belts
- Tangential belts
- Spindle belts

Properties

- + Suitable for a large temperature range
- + High resistance to abrasion
- + Very good dynamic properties
- + Resistant to oils and acids
- + Outstanding anti-static properties of black NBR
- Gets brittle when exposed to UV light and ozone (only for limited outside use)
- Processing is work and energy intensive (vulcanization, hardening)



Keiper CROMA high-performance flat belts are made of fully synthetic polyamide foils, with a one-sided or two-sided adhesion coating of chrome-split leather.

- Fitted with a polyamide reinforcement.
- With a one-sided or two-sided coating of chrome-split leather, highly resistant to abrasion and wear.

Chrome-split leather is used exclusively as a friction coating on power transmission belts as an alternative to nitrile-butadiene rubber (NBR).

CROMA belts with a coating of chrome-split leather are perfect for power transmission applications where the rollers are considerably contaminated by oil and dirt. In view of its slightly porous surface, chrome-split leather is air and humidity permeable and absorbs moisture; thus, it retains friction. However, the coefficient of friction of leather is lower than that of nitrile-butadiene rubber and steadily decreases during operation.

For this reason, CROMA belts primarily are used whenever less friction is advantageous, e.g. in power transmission applications with very large roller diameters, such as generator or gate drives, so as to reduce stick-slip friction effects.





Type	Core	Reverse Surface		Driving Surface	
		Material	Colour	Material	Colour
FLEXA					
8	Polyamide (PA)	Fabric (PA)	green	Fabric (PA)	green
12HC	Polyamide (PA)	Fabric (PA)	black	Fabric (PA)	black
10G	Polyamide (PA)	Fabric (PA)	green	Elastomer	black
12G	Polyamide (PA)	Fabric (PA)	green	Elastomer	green
15G	Polyamide (PA)	Fabric (PA)	green	Elastomer	black
20G	Polyamide (PA)	Fabric (PA)	green	Elastomer	black
25G	Polyamide (PA)	Fabric (PA)	black	Elastomer	black
30G	Polyamide (PA)	Fabric (PA)	black	Elastomer	black
40G	Polyamide (PA)	Fabric (PA)	black	Elastomer	black
L13FSTR	Polyamide (PA)	Elastomer	grey	Elastomer	grey
L18	Polyamide (PA)	Elastomer	yellow	Elastomer	green
L19	Polyamide (PA)	Elastomer	yellow	Elastomer	green
T21	Polyamide (PA)	Elastomer	green	Elastomer	green
T23	Polyamide (PA)	Elastomer	green	Elastomer	green
T26	Polyamide (PA)	Elastomer	green	Elastomer	green
T31	Polyamide (PA)	Elastomer	green	Elastomer	green
T34	Polyamide (PA)	Elastomer	green	Elastomer	green
T32/15	Polyamide (PA)	Elastomer	green	Elastomer	green
T36	Polyamide (PA)	Elastomer	green	Elastomer	green
T39	Polyamide (PA)	Elastomer	green	Elastomer	green
GF10AS	Polyamide (PA)	Fabric (PA)	black	Elastomer	green
GF20AS	Polyamide (PA)	Fabric (PA)	black	Elastomer	green
GF30AS	Polyamide (PA)	Fabric (PA)	black	Elastomer	green
GF40AS	Polyamide (PA)	Fabric (PA)	black	Elastomer	green
GG30	Polyamide (PA)	Elastomer	green	Elastomer	green
GG30-7	Polyamide (PA)	Elastomer	green	Elastomer	green
GG40	Polyamide (PA)	Elastomer	green	Elastomer	green
GG60	Polyamide (PA)	Elastomer	green	Elastomer	green

Nominal Thickness	Approx. weight	Tensile force at 1% elongation	Ultimate tensile force	Min. pulley diameter	Operating temperature	Nominal width
mm	kg/qm	N/mm	N/mm	mm	°C -/+	mm
0.9	0.9	2.0	85	15	-20/+80	500
1.2	1.4	5.0	220	30	-20/+80	500
0.9	1.0	2.0	85	25	-20/+80	500
1.2	1.1	2.0	85	15	-20/+80	500
1.3	1.3	4.0	140	25	-20/+80	500
1.7	1.8	7.0	320	50	-20/+80	500
2.7	2.9	12.0	500	90	-20/+80	500
3.0	3.2	15.0	660	200	-20/+80	500
3.7	4.0	20.0	940	280	-20/+80	500
1.3	1.7	2.0	85	25	-20/+80	500
1.6	1.8	4.0	140	25	-20/+80	500
2.0	2.2	7.0	320	50	-20/+80	500
2.1	2.4	5.0	220	30	-20/+80	500
2.3	2.6	7.0	350	50	-20/+80	500
2.6	2.8	10.0	500	70	-20/+80	500
3.1	3.4	10.0	500	70	-20/+80	500
3.4	3.5	12.0	530	100	-20/+80	500
3.2	3.5	15.0	650	120	-20/+80	500
3.6	4.0	15.0	650	120	-20/+80	500
3.9	4.1	18.0	800	140	-20/+80	500
0.9	1.0	2.0	85	25	-20/+80	500
2.0	2.2	4.0	130	30	-20/+100	500
2.6	3.0	5.0	240	40	-20/+100	500
3.5	4.4	5.0	250	50	-20/+100	500
3.0	3.4	4.0	135	30	-20/+80	500
3.0	3.4	7.0	320	40	-20/+80	500
4.0	4.4	7.0	320	40	-20/+80	500
6.0	6.7	7.0	320	50	-20/+80	500

Technical changes reserved version 09/16



Type	Core	Reverse Surface		Driving Surface	
		Material	Colour	Material	Colour
CROMA					
12	Polyamide (PA)	Fabric (PA)	black	Chromleather	grey
15	Polyamide (PA)	Fabric (PA)	black	Chromleather	grey
20	Polyamide (PA)	Fabric (PA)	black	Chromleather	grey
25	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
30	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
35	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
40	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
45	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
50	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
55	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
60	Polyamide (PA)	Fabric (PA)	green	Chromleather	grey
12D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
15D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
20D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
25D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
30D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
35D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
40D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
45D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
50D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
55D	Polyamide (PA)	Chromleather	grey	Chromleather	grey
60D	Polyamide (PA)	Chromleather	grey	Chromleather	grey

Nominal Thickness	Approx. weight	Tensile force at 1% elongation	Min. pulley diameter	Operating temperature	Nominal width
mm	kg/qm	N/mm	mm	°C -/+	mm
1.8	2.0	4.0	35	-20/+80	500
2.0	2.2	5.0	40	-20/+80	500
2.8	2.4	7.0	60	-20/+80	500
3.2	3.4	12.0	90	-20/+80	500
3.7	3.8	15.0	200	-20/+80	500
4.2	4.6	13.5	200	-20/+80	500
4.8	5.1	17.0	260	-20/+80	500
5.1	5.7	18.3	280	-20/+80	500
5.6	6.5	22.5	360	-20/+80	500
6.0	6.9	24.9	400	-20/+80	500
7.3	7.9	33.0	500	-20/+80	500
2.9	2.9	5.0	40	-20/+80	500
2.9	2.9	5.0	40	-20/+80	500
4.1	3.9	7.0	60	-20/+80	500
4.7	4.7	12.0	90	-20/+80	500
5.4	5.3	15.0	200	-20/+80	500
5.8	6.2	13.3	200	-20/+80	500
6.4	6.7	17.0	260	-20/+80	500
6.7	7.3	18.2	280	-20/+80	500
7.2	8.2	22.5	360	-20/+80	500
7.4	8.8	24.9	400	-20/+80	500
8.8	9.5	33.0	500	-20/+80	500

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Keiper rubber-and-fabric belts

- Equipped with a 3-, 4-, 5-, or 6-ply rubber-fabric traction layer
- The cost-effective power transmission solution for simple applications

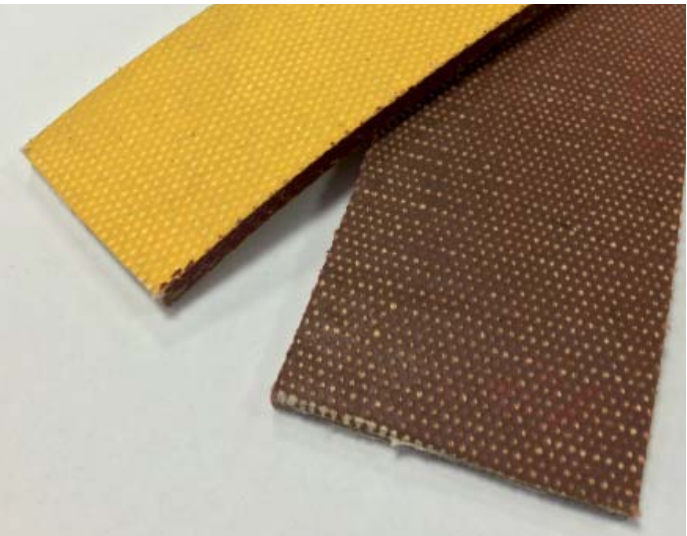
Structure of the belt

Carrying side:	Rubber, impregnated, beige
Fabric structure:	X liners, cotton fabric with rubber interlayers
Backing side:	Rubber, impregnated, beige

Type of belt	3-ply	4-ply	5-ply	6-ply
Design of belt				
Total thickness (approx.)	5.0 mm	6.0 mm	7.0 mm	8.0 mm
Weight (approx.)	6.0 kg/sqm	6.5 kg/sqm	7.0 kg/sqm	9.0 kg/qm
Strength per cm of width	180 kp/cm	240 kp/cm	300 kp/cm	360 kp/cm
Tensile force for 1% elongation	6 N/mm	8 N/mm	10 N/mm	12 N/mm
Minimum diameter deflection	120 mm	160 mm	200 mm	300 mm
Minimum diameter constriction	120 mm	160 mm	200 mm	300 mm
Radius of knife edge	-	-	-	-
Production width	1,080 mm	1,080 mm	1,080 mm	1,080 mm

Properties	
FDA conformity	No
EU conformity (Directive 2002/72 EC) (Directive 1935/2004 EC)	No
HACCP conformity	No
Suitable for metal detectors	Yes
Permanently anti-static	No
Resistant to oil and grease (animal, plant)	No
Resistant to oil and grease (mineral)	No
Permanent temperature, minimum	-10°C
Permanent temperature, maximum	+80°C
Permanent temperature, minimum short-term	-20°C
Permanent temperature, maximum short-term	+90°C
Wear, gliding	to a limited extent
Wear, rolling	Yes
Troughability	Yes

Friction coefficient, backing side	
Steel plate/stainless steel	approx. 0.35
Plastic/wood-laminate	approx. 0.35
Roller, smooth steel	approx. 0.35
Roller, coated	approx. 0.45



Keiper butt leather belts

Butt leather belts are based on the original form of flat belts developed for power transmission and are still being used in many old machines. Keiper's butt leather high-performance flat belts are of very high quality, made of pure butt leather.

- Available in three sizes: 4/5 or 6 mm
- Fixed endless with mechanical fasteners or glued endless

For light and heavy drives in

- paper processing
- agriculture
- textile industry
- wood and plastics processing





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