



Coatings and machining

The best solution when viewed from above.

Unlimited application possibilities are made possible by coating and processing timing belts and conveyor belts.

By combining suitable finishing methods, KEIPER attains the special properties needed for the diverse tasks involved in proper material flow.

Profiles and cleats

Optimal material flow with no standstill.

Positioning, pacing or separating – special tasks can be realised without any problems because of the application-oriented design and finishing of the timing belts.

Permanent, homogenous connections between the timing belt and the polyurethane cast profiles and cleats are ensured by means of welding, gluing or screwing.

When the elements are adapted to the product that is to be transported, pushing elements of almost any shape can be made – in different colours and degrees of hardness as well.







Welcome to KEIPER!

For more than 95 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:

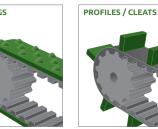
Close cooperation with our distribution partners enables us to produce the best possible products, and this is true also for custom-made products. Our development, design and production know-how is rounded off by meticulous quality control.

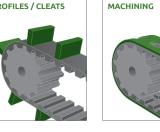
High-grade raw materials and continuous product development are the foundation of the high quality of all KEIPER products.

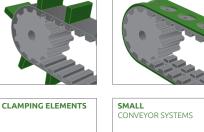




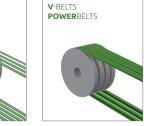


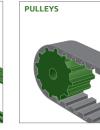


















Practical relevance day after day: Based on our expert knowledge of the special characteristics of certain products, many years of experience in myriad sectors and constant communication with users, we are able to develop highly effective product solutions every day. Our extensive engineering skills 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 9001:2015 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

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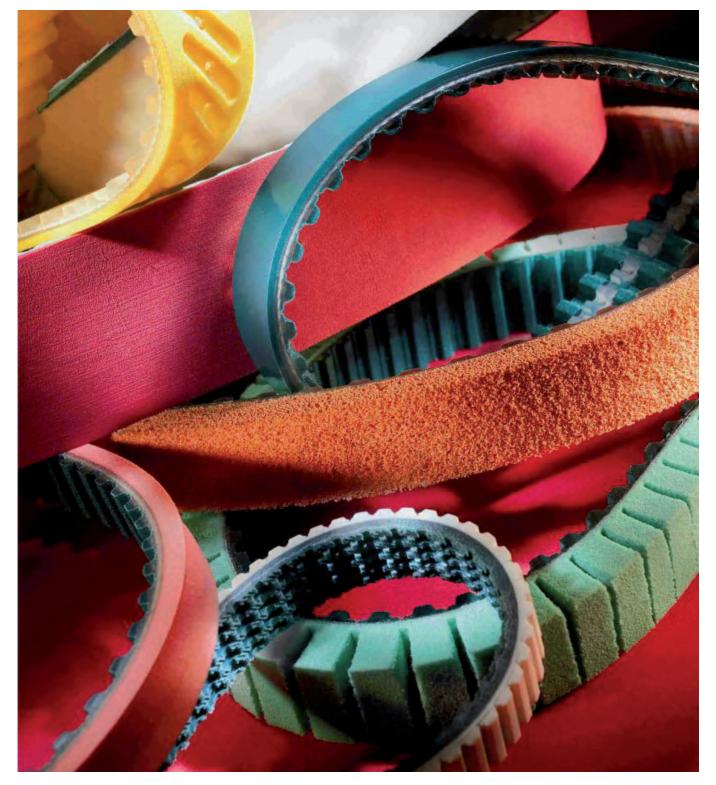
Waffle, white

Linear groove

Individuality and myriad applications

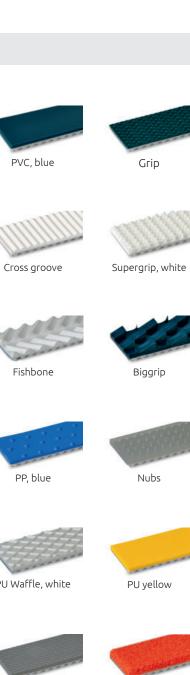
Timing belts can be coated with many different materials so as to be optimally suited for the product that is to be conveyed and the specific function as required in the material flow.

KEIPER offers numerous coatings made of polyurethane, PVC, elastomers, PTFE, silicone and fabrics as well as special materials. Each material meets the requested properties and is adapted to the specific conveying task.











Nubs, white

Supergrip

Nubs, blue

Toothgrip







Material	Thick- ness in mm (approx.)	Shore A kg/m³	Color	Abrasion resistance	Max. Temp. in °C	Thick- ness factor min.	Resistance to simple oils/grease	FDA	Examples / fields of application	
					PV	Ccoatings				
PVC transparent	1/2/3/4	80	Transpa- rent	Medium	60	30	No	No	Packaging, transport of sensitive parts	
PVC white FDA	1/2	75	White	Medium/ low	60	30	Plant	Yes	Packaging, transport of sensitive parts	
PVC blue (petrol)	1/2	60	Blue	Medium/ low	60	25	No	No	Packaging, transport of sensitive parts	
Supergrip petrol	4.5	45	Petrol	Medium/ low	60	40 mm	No	No	Packaging, transport, wetness, wood, paper	
Supergrip green	4	50	Green	Medium/ low	60	40 mm	No	No	Packaging, transport, wetness, wood, paper	
Supergrip white	3.5	50	White	Medium/ low	60	40 mm	Plant	Yes	Food, wood, wetness	
Grip petrol	1.5	60	Petrol	Medium	60	40 mm	No	No	Packaging, plaster board, glass	
Nubbed white	1.5	65	White	Low	60	30 mm	Plant	Yes	Food, packaging, light dirt	
Nubbed blue	1.5	65	Light blue	Low	60	30 mm	Plant	Yes	Food, packaging, light dirt	
Linear groove petrol	1.5	60	Petrol	Medium	60	40 mm	No	No	Conveying, high clinging, dirt	
Waffle white	1	70	White	Medium	60	40 mm	Plant	Yes	Food, pasta, packaging	
Waffle blue	1	70	Blue	Medium	60	40 mm	Plant	Yes	Food, pasta, packaging	
Toothgrip white	3	65	White	Medium	60	50 mm	Plant	Yes	Food, packaging, wood	
Fishbone white	3.5	70	White	Medium	60	70 mm	Plant	Yes	Food, wood, wetness, frozen goods	
Biggrip blue	5.5	60	Blue	Medium	60	50 mm	No	No	Metal, wood, stones, wetness	
					PU	coatings				
PU transparent 80	1/2/3/4	85	Transpa- rent	High	80	30	Yes	No	Glass, wood, sheet metal, plastic, stone	
PU transparent 60	2	60	Transpa- rent	High	80	30	Yes	Yes	Food, packaging, glass	
PU white FDA	1/2	90	White	High	70	50	Yes	Yes	Food, packaging	
PU blue FDA	1/2	85	Light blue	High	70	30	Yes	Yes	Food, packaging	
Vulkollan D15	1-15	70/82	Transp yellow	Very high	80	30/50	Yes	No	Accumulation mode, glass, wood, meta plastic	
Polythane D44	1-15	72	Brown	High	60	30	Yes	No	Accumulation mode, glass, wood, meta plastic	
PP blue FDA	3	85	Blue	High	70	80 mm	Yes	Yes	Food, meat, sausage processing	
SP blue FDA	3	85	Blue	High	70	50 mm	Yes	Yes	Food, meat, sausage processing	
SP white FDA	3	85	White	High	70	50 mm	Yes	Yes	Food, meat, sausage processing	
PU Linear groove, transp.	2	80	Transpa- rent	High	70	50 mm	Yes	No	Oily, moist metals, glass, bricks	
PU Nubbed transparent	3	80	Transpa- rent	High	70	70 mm	Yes	No	Oily, moist metals, glass, bricks	
PU Waffle white	3	80	White	High	70	90 mm	Yes	Yes	Wood, bricks, food	
PU Grip white	1,5	80	White	High	70	50 mm	Yes	Yes	Food, packaging	
Celloflex	1-10	RG400	Yellow- brown	Medium	60	30	Limited	No	Cardboard goods, accumulation, pcbs, textile	
PU yellow (gray)	2-10	50	Yellow (gray)	Medium	60	25	Yes	No	Packaging, vacuum, textile, glass, wood	
Sylomer blue	2-25	RG220	Blue	Low	60	20	Limited	No	Guiding, centering, pressing on, labels	
Sylomer green	2-25	RG300	Green	Low	60	25	Limited	No	Guiding, centering, pressing on, labels	
Sylomer brown	2-25	RG400	Brown	Low	60	30	Limited	No	Guiding, centering, pressing on	
Sylomer yellow	2-25	RG150	Yellow	Low	60	15	Limited	No	Guiding, centering, pressing on	

Material	Thickness in mm (approx.)	Shore A kg/m³	Color	Abrasion resistance	Max. Temp. in °C	Thick- ness factor min.	Resistance to simple oils/ grease	FDA	Examples / fields of application	
			Ela	stomer coa	tings					
Linatex	Linatex 1.5/2.4/3.2/4.8/6.4/7.9/9.6		Red	Medium/ high	70	25	No	No	High adhesive, sensitive parts	
Linaplus	2.4/3/6	40	White	Medium/ high	70	25	Plant	Yes	High adhesive, sensitive parts	
Linard	3/5	60	Red	Medium/ high	70	30	No	No	High adhesive, sensitive parts	
Linatril	3/5/6/8	50	Orange	Medium/ high	100	25	Yes	No	Taking down textile, waxy substances	
FDA rubber light	1.5/2/5/10	70	White/ beige	Medium	60	35	Limited	Yes	Food, transport	
EPDM Heat	2/3/4/5/6/8/10	50	Black	Medium	150	30	No	No	High temperatures, metal, glass	
Viton	2/3/4/5/6/8/10	75	Black	Low	250	30	Yes	No	High temperatures, metal, glass	
EPDM	2/3/6	65	Black	Medium	80	30	No	No	Action of light and ozon	
Elastomer light green	1	60	Light Green	Medium	100	25	Limited	No	High adhesive, sensitive parts	
Elastomer green	2	70	Green	Medium	100	25	Yes	No	High adhesive, sensitive parts	
Correx	4/6/8/10	35	Beige	Medium	60	30	No	No	Sheet metal, pipes, cardboard articles	
RP430	2/3/4/5/6	50	Yellow	Medium	60	20	No	No	Glass, steel	
Supergrip rubber	3.5	60	Black	Medium	60	40 mm	Limited	No	Cardboard articles, sensitive parts	
Supergrip rubber	3.5	60	Beige	Medium	60	40 mm	Yes	No	Cardboard articles, sensitive parts, oily sheet me	
Porol NE	1/2/3/4/5/6/7/8/10	RG220	Black	Low	60	20	No	No	Press-on belts, labels paper, cardboard	
Foam rubber	1/2/3/4/5/6/7/8/10	RG350	Black	Low	60	20	No	No	Press-on belts, labels cardboard articles	
Latex foam	3	35	Gray	Low	100	30	Yes	No	Press-on belts, labels cardboard articles	
Sponge rubber	5/10/12/15/20	RG150-350	Orange	Low	60	15-25	No	No	Porcelain, soap	
			(Other coatin	gs					
PA fabric	0.3/0.55		Green	Medium/ high	60	40 mm	No	No	Accumulation operation	
PA fabric antistatic	0.65		Dark gray	Medium/ high	60	40 mm	No	No	Accumulation operation antistatic	
Teflon/PTFE	0,25		Brown	Low	60	60 mm	Limited	Yes	Adhesive repellent	
Felt	1-3	50	White	Medium	60	80 mm	Limited	No	Baked goods	
PES beige	1.2-2.5	70	Beige	Medium	60	50 mm	No	No	Conveying sensitive part	
PES gray	2	70	Gray	Medium	60	50 mm	No	No	Conveying sensitive part	
Wool plush	3		Green	Low	100	30	No	No	Conveying sensitive part	
Chrome leather	2/3	65	Gray	High	70	30 mm	Yes	No	Conveying bricks/stones accumulation operation	
Silicon transparent	1-5	30	Trans- parent	Low	120	20 mm	No	Yes	Adhesive repellent, non-adhesive, vacuum	
Silicon blue	1-5	40	Blue	Low	120	20 mm	No	Yes	Adhesive repellent, non-adhesive, vacuum	

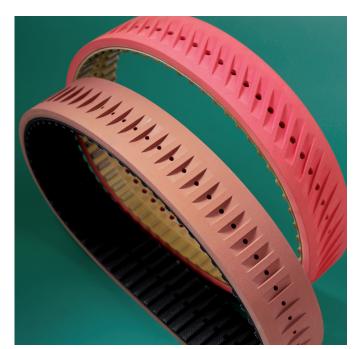
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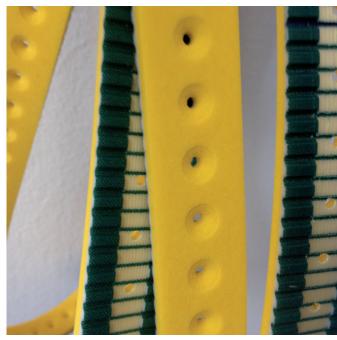
Coatings for motion.

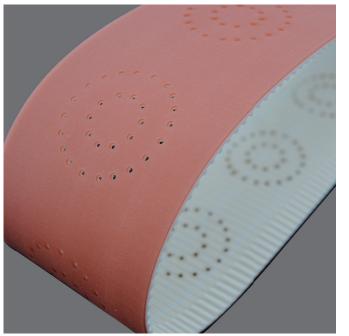
More than ever before, the effectiveness of state-of-the-art production plants calls for a high degree of specialisation and products of the highest possible quality.

The requirements posed with respect to moving components are increasing steadily, just as the performance and calculation of the running time. KEIPER belts are finished with high-quality coatings and additional mechanical processing so that they will fulfil the technical requirements safely and precisely. Numerous processing methods are possible: milling in all directions, contours, perforations for vacuum applications. Finally, the processing of the components can be rounded off by means of polishing the edges and surfaces.

Our profound know-how regarding what coating and processing methods can be optimally combined gets straight to the point of specific designs.







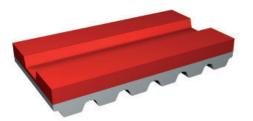




Transverse grooves



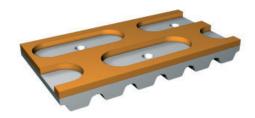
Surface grooves



Longitudinal groove



Toothing grooves



Pockets



Holes



Removing individual teeth



Grinding edges and surfaces

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Profiles / cleats

Many special, innovative tasks required in the material flow, such as pacing, separating or positioning, can be realized by adding profiles/cleats and entraining elements to the belts. Profiles and entraining elements are made of the same high-quality polyurethane as our timing belts, are machined as sheets or injection molded. They are available in different blends and degrees of hardness, with glass-fiber reinforcement and in matching colors. The profiles and entraining elements are homogeneously fastened to the belt by welding or bonding. In view of our production methods, the cleats can formed into any shape.















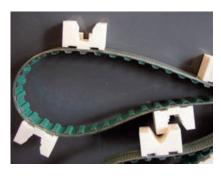






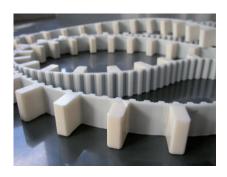
















Welding on cleats

The flexibility of the timing belt is affected when cleats are welded onto it. As a rule, the thickness of the cleat should be as low as possible. If possible, the cleat should be welded onto the belt opposite from the tooth. The distance between the cleats is optimal when a multiple of the timing belt pitch is selected. The table below shows the recommended, maximum cleat thickness in mm in relation to the selected number of teeth of the pulley. The positioning accuracy is +/- 0.3 mm for the cleat center distance.

Maximum thickness of cleat in mm when welded into position opposite from the tooth.

Type / No. of teeth	20	25	30	40	50	60	100
T5	5	6	6	8	10	11	13
T10	8	9	10	12	14	15	20
T20	12	13	16	18	20	23	30
AT3	4	5	6	8	9	10	12
AT5	5	6	6	8	10	11	13
AT10	8	10	10	12	14	15	20
AT20	12	13	15	18	20	23	30
XL	5	6	6	8	10	11	13
L	6	7	8	10	12	13	16
Н	8	10	10	12	14	15	20
XH	13	14	15	18	20	23	30
HTD5	5	5	6	8	10	11	13
HTD8	6	8	9	10	12	14	15
HTD14	-	10	12	13	15	18	20

Maximum thickness of cleat in mm when welded into position opposite from the tooth space.

Type / No. of teeth	20	25	30	40	50	60	100
T5	2	2	3	4	6	8	10
T10	3	4	4	6	9	12	20
T20	5	5	6	8	12	20	30
AT3	-	2	2	3	4	6	8
AT5	2	2	3	4	6	8	10
AT10	3	4	4	6	9	12	20
AT20	5	5	6	8	12	20	30
XL	2	2	3	4	6	8	10
L	3	3	4	5	7	10	16
Н	4	5	6	7	10	12	20
хн	5	5	6	8	12	20	30
HTD5	2	2	3	4	6	8	10
HTD8	3	3	4	5	6	9	12
HTD14	-	5	6	6	7	10	13

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