



Timing belts

[our one true love!]

In 1967 we discovered our love for timing belts and are now the most innovative producer in the field of polyurethane timing belt technology in the whole world.

Top timing belt quality from Porta Westfalica.
This is movement.

BRECO

[this is us]



BRECO [keeping things moving]

Our history begins in 1967. Our company founder Rudolf Breher envisioned an extrusion process with which open length belts (BRECO®-timing belts) and endless belts (BRECOFLEX®-timing belts) of different lengths could both be produced continuously with a single tool.

Timing belts & pulleys [made by BRECO]

Today BRECO sees itself as a global partner for machine and plant construction and as a specialist for innovative drive technology. We produce timing belts, V-belts and flat belts made of polyurethane as well as all types of pulleys. Working closely with our customers and academic institutes, we constantly develop new inventions and patents which then become standard in our market segment and a benchmark for our competitors.

Tricky drive, transport and positioning tasks are our speciality. Where others see problems, we look for solutions. BRECO's flexibility and focus on our customers is a benchmark in our industry. Satisfied, loyal customers are our priority.

Movement [from Westphalia]

As a medium-sized family-owned company we think of our 300 employees, most of whom stay with us for very long times, frequently until they retire, and consider themselves part of the BRECO family, as the key to our success. We have committed ourselves fully to our location in Porta Westfalica. At this location we also provide vocational training and invest constantly to ensure that we are ready for whatever the market may require tomorrow. In order to meet our own quality standards, we work by the principle of completing all quality-relevant processes under one roof - our roof. Our company's own tool production department manufactures our production equipment and helps us maintain speed and flexibility in our process development. Our quality management system is certified according to DIN EN ISO 9001:2015.

BRECO GROUP

[these are its members:]



Experts for timing belt systems, magnetic engineering, brakes and couplings, electric actuators.

Binder Magnetic | 1 allée des Barbanniers
92230 Gennevilliers | France
T: +33 1 46 13 80 80 | www.binder-magnetic.com



Experts for timing belt technology.

BRECOflex CO., L.L.C. | 222 Industrial Way West
Eatontown NJ 07724 | USA
T: +1 732 460 950 0 | www.brecoflex.com



Experts for drive technology, anti-vibration technology, textile technology, rubber and plastics technology, friction wheels and friction rings, general industrial equipment.

Anton Klocke Antriebstechnik GmbH
Senner Straße 151 | 33659 Bielefeld | Germany
T: +49 521 950 05 01 | www.klocke-antrieb.de



Experts for timing belt technology, coupling technology, shaft-hub connections, articulated joints, sealing technology, production engineering.

Walter Rothermundt GmbH & Co. KG
Mülforter Zeug 12 | 41199 Mönchengladbach | Germany
T: +49 2166 45133 0 | www.rothermundt.de

BRECO is one of 13 partners of Mulco Europe EWIV, a European economic and interest association. The members of this group are considered to be pioneers in the field of polyurethane timing belt technology. They are all experts with extensive experience of various fields of application. From simple standard products through to individual product solutions, BRECO offers quality products through the Mulco group which have proven their performance potential in countless fields of application for over 50 years.



Our product groups:

Standard timing belt product range	
The <i>basic</i> standard	
BRECO <i>basic</i> ®-timing belts	Simple.Good.Reliable.
The <i>alternative</i> standard	
BRECO <i>classic</i> ®-timing belts	Affordable.Reliable.Quickly available.
The <i>time-tested</i> standard	
BRECO®- and BRECOFLEX®-timing belts	Varied.Wear resistant.Pitch accuracy.
BRECO®- and BRECOFLEX®-flat belts	Maintenance-free.Compact.Silent.
Special timing belt product range	
... for special transport system requirements	
BRECO <i>vacuum</i> -timing belts	Standardised.Adaptable.
BRECO <i>roll</i> -timing belts	Low-friction.Effective.Unique.
BRECO®-ATN®-timing belts	The original.Versatile.Precise.
BRECO <i>move</i> ®-timing belts	More power.Optimised.Versatile.Efficient.
.. for special requirements in linear & drive technology	
BRECO <i>move</i> ®- and BRECOFLEX <i>move</i> ®-timing belts	More power.Optimised.Versatile.Efficient.
... for special requirements in general application engineering	
BRECO <i>protect</i> ®-timing belts	Corrosion-protected.Food-grade.Blue.
BRECO®- and BRECOFLEX®-BAT®-/BATK-timing belts	Self-guiding.Smooth-running.Curved.
BRECO <i>green</i> - and BRECOFLEX <i>green</i> -timing belts	Resource-friendly.Sustainable.Green.

BRECOFLEX®-manufacturing process

The BRECOFLEX®-timing belt is manufactured in endless lengths without tension member interruption. The tension member is coiled in a spiral shape. It is used where high power transmission, high stiffness, ideal running characteristics and high precision are required.

BRECO®-manufacturing process

The BRECO®-timing belt is manufactured in open length (BRECO-M). The tension members are always arranged parallel to the edges. They can be joined to form endless belts of any length (BRECO-V). In the joint area, half the number of tension members are involved in the power transmission. BRECO®-timing belts are used in linear and transport technology.

Materials

Various thermoplastic polyurethanes are available for a wide range of application requirements. This makes it possible to perfectly adapt BRECO® and BREFOFLEX® timing belts to their intended application: Standard use, use in food processing, in mildly aggressive environments, in high temperature areas, in low temperature areas and where materials with electrically conductive properties are required.



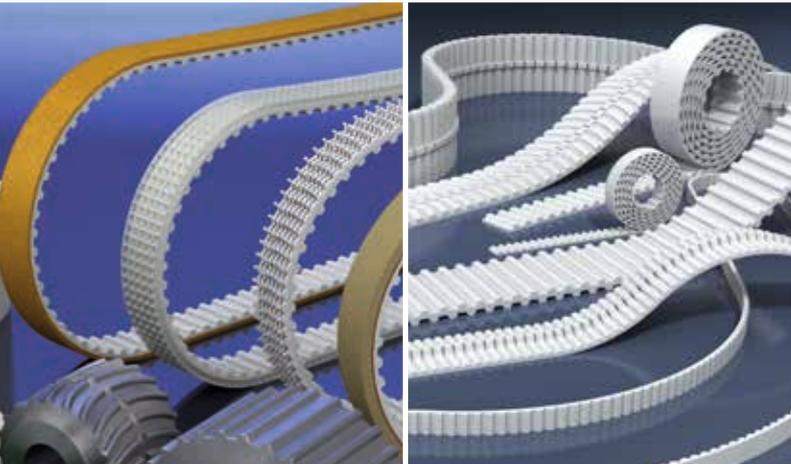
Standard timing belts

The *basic* standard BRECO*basic*[®]-timing belts

- Material: TPUBAS and standard tension members STA-BC
- Grey standard timing belt for simple tasks in transport technology
- Favourable prices due to standardised production
- Selected backings

The *alternative* standard BRECO*classic*[®]-timing belts

- Material: TPUCLA and standard tension members STA-CL
- Large selection of different tooth profiles and pitches
- The low-cost, white alternative for simple tasks in transport and linear technology
- Favourable prices due to standardised production
- Variety due to a large selection of coatings, mechanical rework options and weld-on profiles

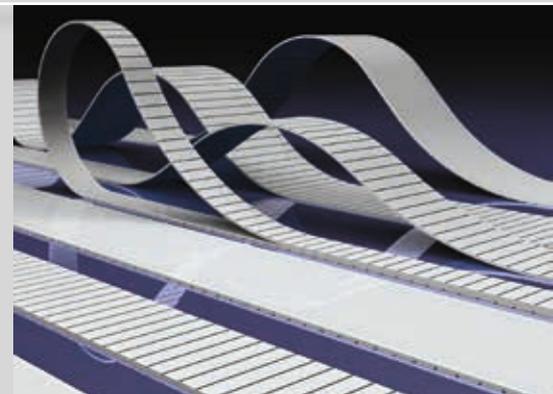


The *time-tested* standard BRECO[®]- and BRECOFLEX[®]-timing belts

- Material: Available in all material and tension member combinations
- Tailor-made with high load-bearing capacity, customised rework options

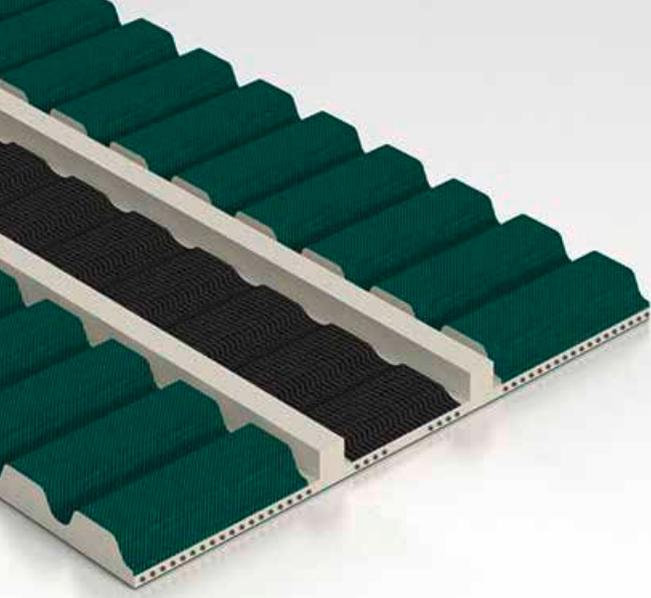
The *time-tested* standard BRECO[®]- and BRECOFLEX[®]-flat belts

- Material: Available in all material and tension member combinations
- Wide range of application options
- Maintenance-free alternative to chain and cable pulls
- Cost- and space-saving solution



Tension members

Tension members are the heart of our timing belts. They determine permissible forces and bending radii and the minimum number of teeth of the pulleys in use. Our selection includes tension members made of galvanised steel or stainless steel in a standard or highly flexible structure with very fine individual wires (referred to as "E tension members"). The thinner the single wire, the more flexible the overall tension member.



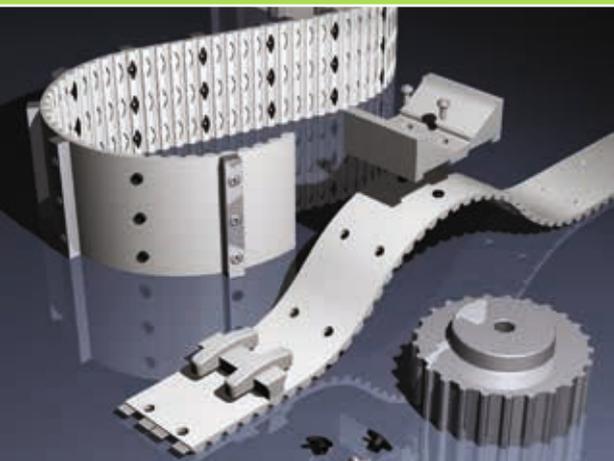
Special timing belts

BRECO*vacuum*-timing belts

- Material: Selected material combinations
- New belt concept, manufactured in an extrusion process, joining the tooth system, the suction channels and the sealing strips
- Available in AT10 with a belt width of 50 mm and 75 mm
- Adaptation of the geometry of individual pulley components to the suction range of the belt
- Long system service life thanks to optimised tolerance adaptation of elements to each other

BRECO*roll*-timing belts

- Material: Different TPU materials are available, standard tension members
- Use only for belts with T profile with 20 mm pitch and 100 mm width
- New development concept for reducing heat generation and wear, thereby decreasing the loss of drive energy
- Integration of rolls in the teeth of the belt for use in material transport technology
- Replacement of sliding friction (as with normal belts) with rolling friction (for BRECOroll), significantly reducing the self-heating effect of the system

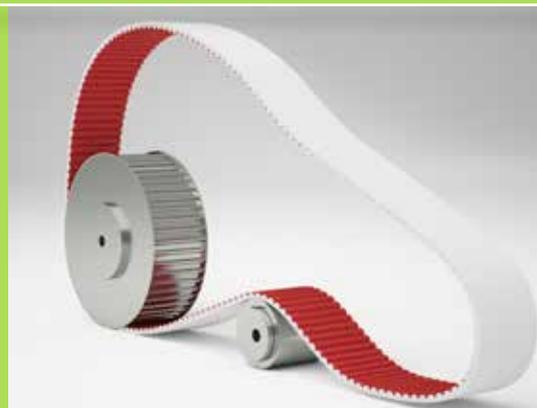


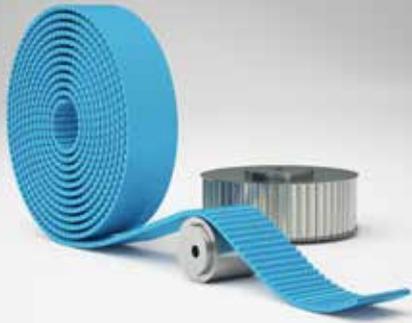
BRECO®-*ATN*®-timing belts

- Material: Different materials available
- Timing belts for transport tasks with variable fastening system
- Quick replacement of profiles possible thanks to integrated profile fasteners in the belt tooth
- Wide range of accessories (inserts, screws, timing belt locks, customised profiles, pulleys)

BRECO*move*®- and BRECO*FLEXmove*®-timing belts

- Material: TPUST1 and steel tension members STA-MV
- Newly developed tension member for transmitting greater forces, especially designed for high-performance drives and traction drives requiring great stiffness
- FEM (Finite Element Method)-optimised tooth face geometry
- Minimised wear thanks to friction-optimised laminate coating





BRECOprotect®-timing belts

- Material: TPUAU1 and steel tension members
- Special belts for applications with high demands due to contact with foodstuffs and in areas where cleaning processes are required
- Design without coiling nose to prevent hidden or hard-to-remove soiling and ensure simple cleaning processes
- Special colour "food blue"
- Suitable for use in humid environments

BRECO®-BAT®-/BATK-timing belts

- Material: Different materials available
- Timing belts with curved teeth for self-centring and running noise reduction, higher transfer accuracy and lower vibration tendency thanks to decreased polygon effect
- The BAT® is self-guiding in the preferred running direction and does not require flanges
- The BATK is self-guiding in both running directions due to the integrated guiding track making flanges unnecessary



BRECOgreen- and BRECOFLEXgreen-timing belts

- Material: TPUEC, different tension member materials available
- All belt types available (except protect, basic, classic and move)
- 37% of the material used is made of renewable resources.
- Absolute operating reliability is guaranteed, as the load bearing characteristics and service life of the "green range" match those of the mineral-oil based thermoplastic polyurethane belts
- Help protect and improve our environment, climate and living conditions. Even small steps like the "green" product range help.



Coatings

The coating of the timing belts with various materials provides a variety of application possibilities in the transport technology. Transport tasks often require contact between the customer's workpieces/materials and the conveyor belt. For this reason, particularly high or low workpiece temperatures, a very high or low required friction, the requirement of high wear resistance or low hardness may cause thermoplastic polyurethane (TPU) to be unsuitable as a belt material on the back of the belt. This problem can be solved by coating the timing belt with suitable alternative materials, while the excellent characteristics of TPU are maintained on the tooth side.

Weld-on profiles

Weld-on profiles on the back of the belt permit use of timing belts for transport tasks. The spacing and number of profiles can be freely selected. Production of timing belts, profiles, as well as the welding on of the profiles are carried out in our factory. These profiles are made of polyurethane, the same high quality material as is used for the timing belt itself. Over 3000 profile shapes are available to choose from. Depending on the customer's requirements we can produce a practically infinite number of new profile shapes - including in small batch sizes, thanks to 3D printing.

Timing belt locks

These locks are used for drives with low loads but high installation effort. If the timing belt can only be closed AFTER being inserted in a machine, the timing belt lock offers substantial savings in work and cost. It is also suitable for use as an "emergency belt" to bridge downtimes in the event of malfunctions. Available options: AT10DC and T10DC timing belt lock, BRECO ATN timing belt lock, BRECO PinLock timing belt lock with 6 or 10 threaded pins.

Mechanical processing

We offer mechanical processing for our timing belts to create special functional characteristics. Timing belts with a thick back (version T and DR) and coated timing belts are particularly suitable for this purpose. Post-manufacture milling, drilling, punching, sanding and water jet cutting offer a wide range of design options to the design engineer.

If you want to learn to love our timing belts like we do, please contact us. We would be glad to send you the name of the sales partner responsible for your area.

The contact data of all BRECO sales partners is also available on our website at www.breco.de/en/vertrieb.

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