

HabaSYNC® Timing Belts

Precision and Exact Timing



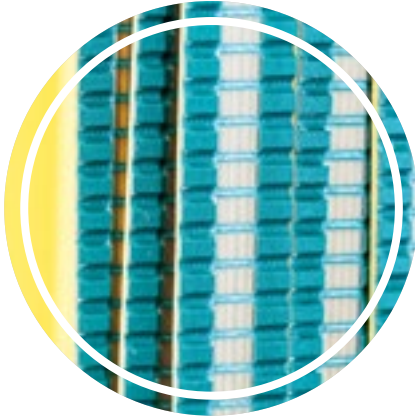
Precision you can rely on

HabaSYNC® timing belts support conveying and linear movement applications where optimal performance depends on precise product placement and component positioning. High-quality materials coupled with our state-of-the-art manufacturing processes and years of experience ensure innovative solutions tailored to your needs.



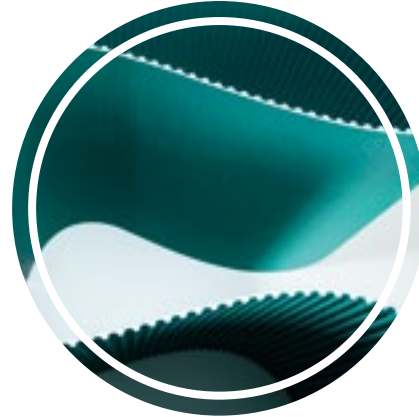
HabaSYNC® belts are generally used in applications requiring exact product placement and precise component positioning. Synchronization is achieved by meshing the belt teeth into a matching pulley. Our timing belts are available in imperial and metric pitches.

Open end belts



Open end timing belts

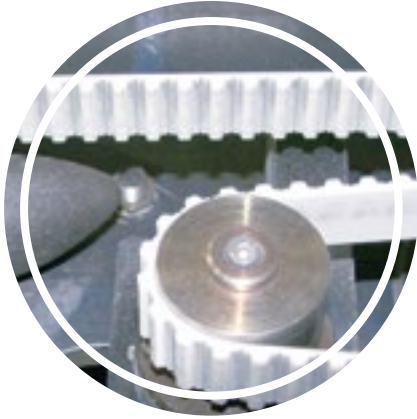
- Different TPUs with various chemical-resistance and mechanical and physical properties
- Heavy-duty timing belts with high performance and minimal elongation at dynamic load for manipulation, lifting and conveying
- Suitable for humid and aggressive environment
- Different cord materials
- Polyamide fabric option
- Closed flight timing belts
- Self-tracking types
- Sealed edges



Wide timing belts

- Unique solution offering widest timing belts on the market
- Up to 600 mm width
- Different TPUs with various chemical resistance and mechanical and physical properties
- Polyamide fabric option
- Every kind of fabrication possible, e.g. milling, perforations, silicone and PU covers and cleats

Truly endless belts



Flex timing belts

- Synchronized conveying and precise positioning of heavy loads
- Different TPUs with various chemical resistance and mechanical and physical properties
- Helically wound cords, also suitable for power transmission applications
- Diverse selection of materials and cords
- Polyamide fabric option



Cast timing belts

- Integrate Habasit's timing belt expertise with the design accuracy and dimensional precision of a molded belt solution
- Thermoset elastomers
- Wide range of cord materials
- Can be machined to yield intricate shapes and contours

Properties of open end belts and truly endless belts



Mechanical properties

- Friction / adhesion
- Release
- Abrasion resistance
- Wear resistance
- Cut resistance
- Compressibility



Chemical properties

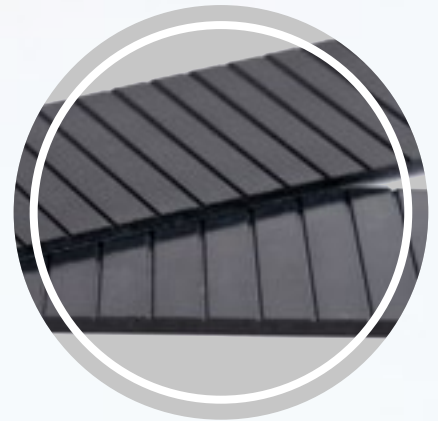
- Oil and fat resistance
- Acid and base resistance
- Ozone and UV resistance
- Food approved
- Easy to clean



Physical properties

- Antistatic
- Electrical conductivity
- Cold resistance
- Hydrolysis resistance
- Flame retardance

Flat timing belts



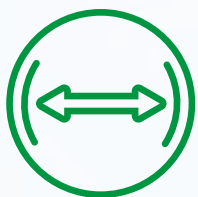
Properties:

Flat timing belts are available in different options to meet a vast range of industry requirements:

- Standard thickness 1.5 mm, 2 mm, and 3 mm in tight thickness tolerances. Other variants on request
- Different colors and base materials available on request
- Materials compliant with FDA/EU regulations available
- Various coatings and cleats available

Applications:

- Linear drives where high tensile strength is needed
- Lifting and handling applications linked with winding function
- Warehouse operations



Great flexibility and traction



Optimal belt design for dimensional stability under load



High resistance to external factors and maintenance-free operation

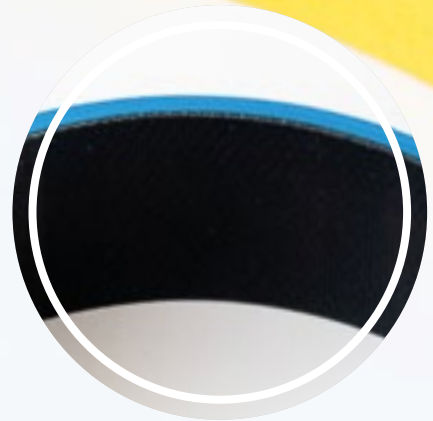


Excellent running properties in terms of noise and vibration



Small pulleys with compact and flexible drive designs (space-saving)

Seamless Grabber Belts



Grabber and seamless belts

- For high-friction feeding, extrusion pullers, pick-off, and material handling applications
- Special frictional benefits on synchronous (timing), poly-v, or non-synchronous (flat) belts
- Numerous substrates, a multitude of tailor-made durable covers available, and optimal adaptation of properties to application needs
- State-of-the-art precision cover modifications available (e.g. holes, slots, pockets, lateral grooves), applicable as vacuum feeder belts
- Thickness from 1 to 20 mm *
- Length (circumference) from 75 to 4140 mm *
- Width from 6 to 406 mm *

*The dimension ranges provided are general for all products. Some products may not be available in all dimensions. Please contact your Habasit representative.



Seamless construction, and truly endless design permit high-speed feeding and no retensioning after running-in



Optimal adaptation of properties to application needs



High resistance to external factors and maintenance-free operation



Great running properties in terms of noise and vibrations



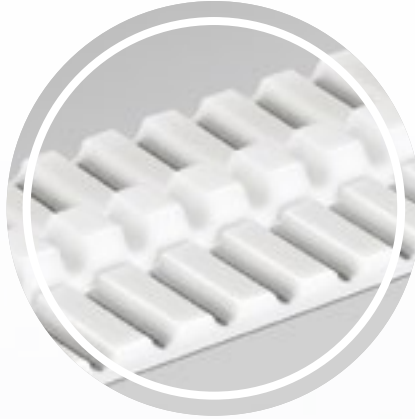
Wide variety of food-approved covers

Fabrication



Covers

- Widest market offering of over 100 different covers, divided into six material groups
- Further fabrication possible, including grinding and milling
- Covers for wide timing belts up to 600 mm



V-guides and longitudinal profiles

- Assist in belt tracking, conveying, and product placement
- Available notched and unnotched



Cleats

- Welded
- Materials: injection-molded, plate material, or 3D-print
- Any number, shape, or placement possible
- Joined by robotic welding



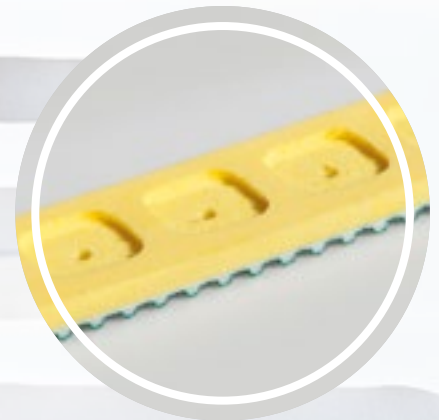
False teeth and screwed cleats

- Robust mechanical assembly
- Embedded or all-metal tooth
- Screwed profiles, individual design, very strong mechanical fastening



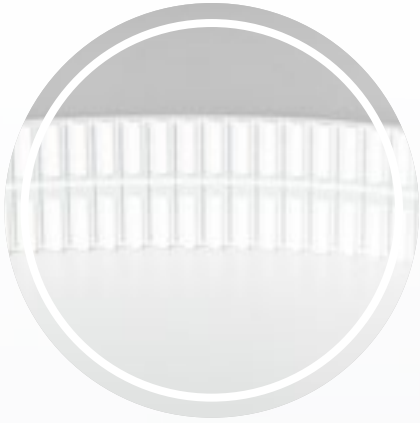
Double-sided belts

- For all tasks where positive drive transmission or synchronization on both sides is required
- Both sides fully loadable
- All pitches and materials



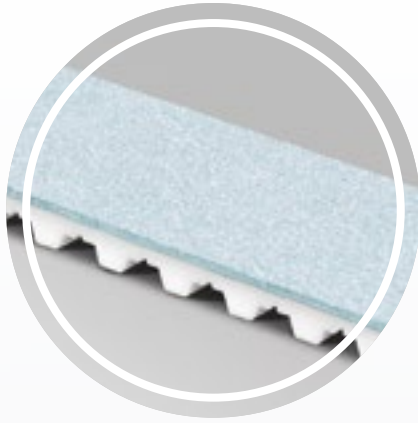
Milling conveying side / pockets

- Transversal and longitudinal grooves
- Pockets for predefined product placement or vacuum applications



Milling tooth side

- Longitudinal grooves
- Removable teeth



Grinding

- Improve thickness or width tolerance
- Roughen surface to deliver more friction
- Grind belt edges to meet tighter width tolerance

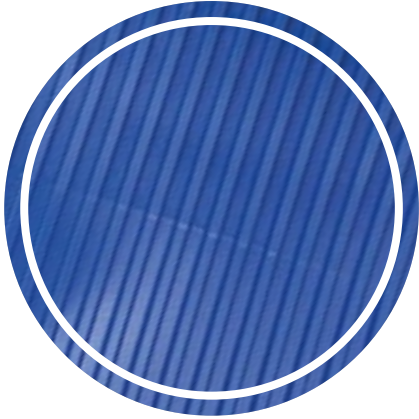


Perforating and slots

- Fabrication on Waterjet or CNC
- Every material and every shape

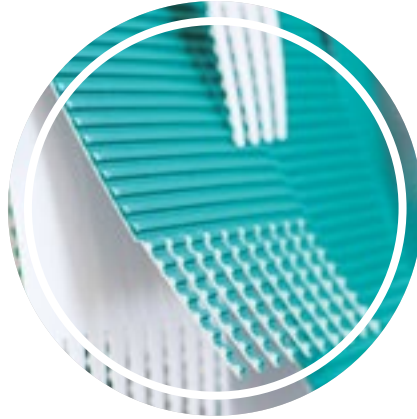


Joining methods



Longitudinal joining

- Possible for every timing belt to any width



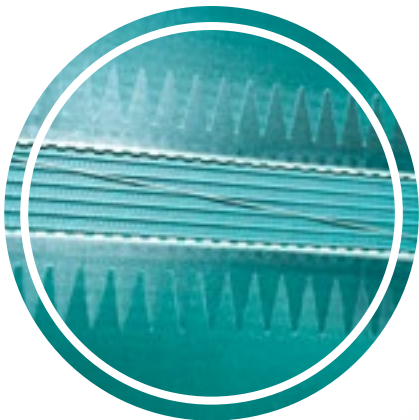
Welded joint

- Welded Flexproof joining
- For assembly on site – prepared open joint



Hinge joint

- Joint completely integrated in the belt body
- Teeth remain without gaps
- Fabrication possible with nearly no limitations



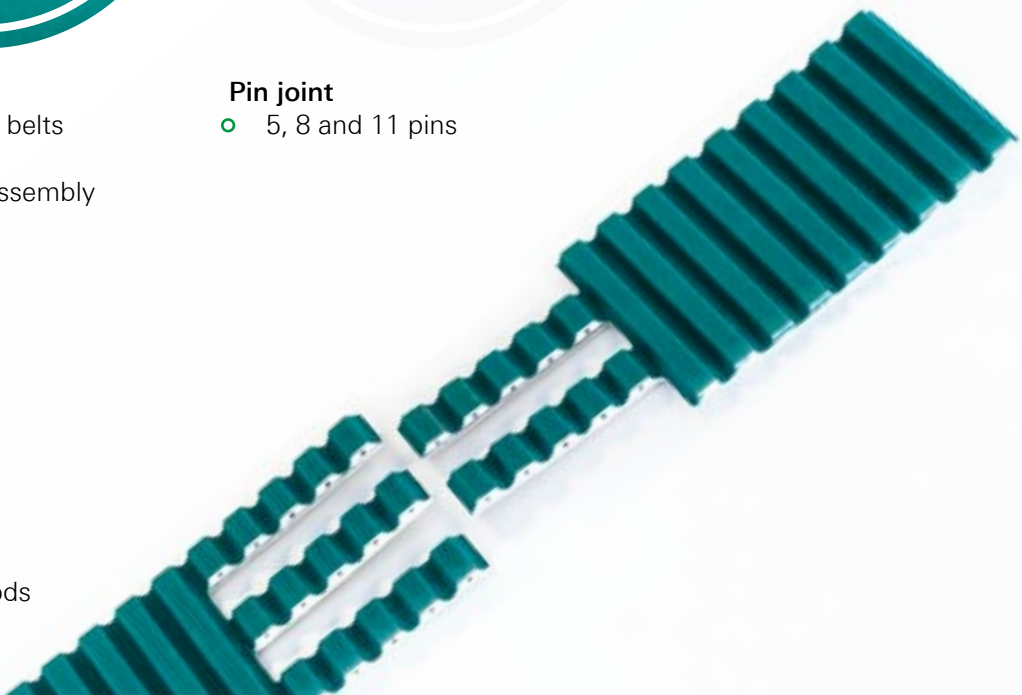
PA hinge joint

- For wide timing belts up to 450 mm
- Fast and easy assembly on site



Pin joint

- 5, 8 and 11 pins

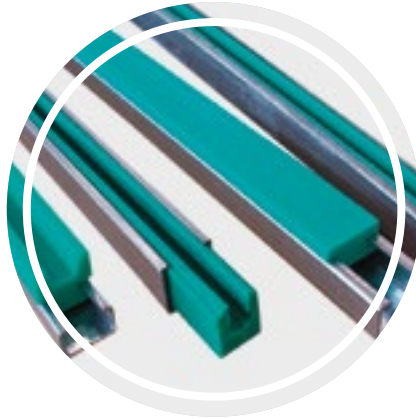


Accessories



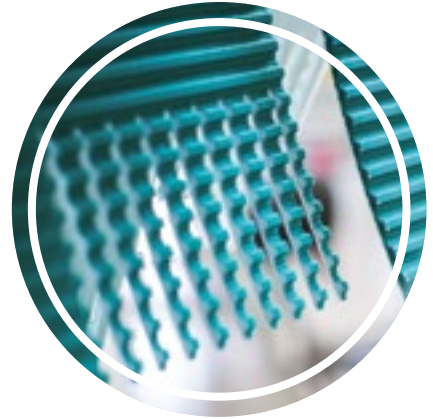
Pulleys and clamping plates

- Standard and customized pulleys in common materials aluminum, steel, and stainless steel for all timing belt types
- Clamping plates for lifting applications and vertical positioning



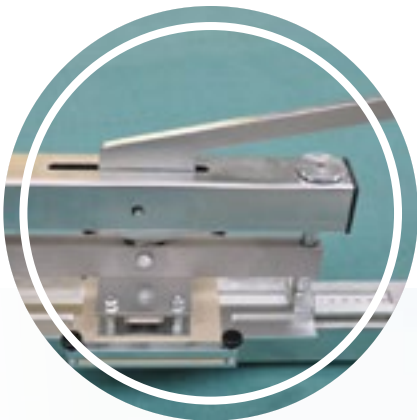
HabiPLAST

- UHMW PE (Ultra High Molecular Weight polyurethane) offers good friction and wear resistance
- Self-lubricating, low noise, reduced coefficient of friction



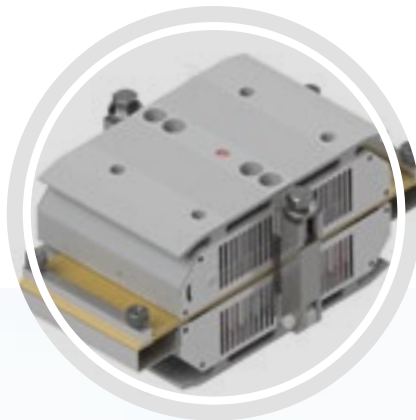
Joining plates

- For every timing belt type and width



AF-151TB

- Cutting device for Flexproof joining



PML

- Portable timing belt press



BTM-1

- Belt tension meter

Industries



Automated entrance systems

- Heavy-duty timing belts
- Antistatic, ESD, flame retardant and corrosion-free solutions



Sun & rain protection

- Heavy-duty timing belts
- Flat belts
- Corrosion-free solutions: stainless steel, aramide, closed flights
- Antistatic, ESD and flame retardant
- Very flexible compact belt drive systems



Glass, marble, ceramic & stone

- Heavy-duty timing belts
- Wide range of truly endless timing belts
- Antistatic, ESD, flame retardant and corrosion-free solutions
- Mechanical joining
- Abrasion resistant covers
- Cleats welded or fastened with false teeth
- The best alternative to metal chain systems with no maintenance, practically no elongation, and much longer lifetimes
- On site measurement and joining tools



Renewable energy

- Heavy-duty timing belts
- Antistatic, ESD, flame retardant and corrosion-free solutions
- The best alternative to metal chain systems with no maintenance, practically no elongation, and much longer lifetimes



Automated storage systems

- Heavy-duty timing belts
- Antistatic, ESD, flame retardant and corrosion-free solutions



Elevators & lifts

- Wide range of toothed and flat timing belts
- Antistatic, ESD, flame retardant and corrosion-free solutions
- The best alternative to metal chain systems with no maintenance, practically no elongation, and much longer lifetimes



Packaging

- Antistatic, ESD, flame retardant and corrosion-free belt drive solutions
- Tailored fabrication solutions: covers, cleats, and machinings
- Specific endless covered belts for any kind of VFFS packaging
- The best alternative to metal chain systems with no maintenance, practically no elongation, and much longer lifetimes



Industrial automation

- Heavy-duty timing belts
- Antistatic, ESD, flame retardant and corrosion-free solutions
- Tailored fabrication solutions: covers, cleats and machinings
- The best alternative to metal chain systems with no maintenance, practically no elongation, and much longer lifetimes



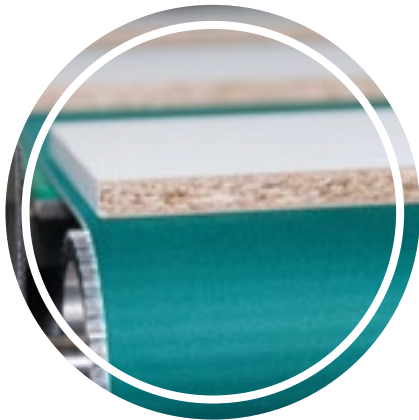
Car wash

- Corrosion-free belt drive solutions, stainless steel, aramid and close flight belts
- Antistatic, ESD and flame retardant
- Heavy-duty timing belts



Textile

- Heavy-duty timing belts with high performance for applications like cross-lapper
- A wide truly endless belt range for carding machines
- Unique TT5 for circular knitting machines
- Antistatic, ESD, flame retardant and corrosion-free belt drive solutions



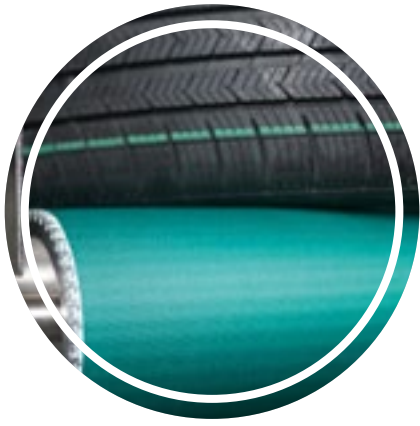
Wood

- Heavy-duty timing belts
- Wide range of truly endless timing belts
- Antistatic, ESD, flame retardant and corrosion-free belt drive solutions
- Mechanical joining by hinge joint or pin-joint
- Tailored fabrication solutions: covers, machining and cleats, joined or mechanical false teeth assembly
- The best alternative to metal chain systems with no maintenance, practically no elongation, and much longer lifetimes
- On site measurement and joining tools



Food

- Wide range of EU and FDA food compliant materials
- Suitable for humid and aggressive environments
- Mechanical joining by hinge joint or pin-joint
- Tailored fabrication solutions: covers, machining and cleats, joined or mechanical false teeth assembly
- On site measurement and joining tools



Automotive & tire

- Wide range of truly endless timing belts or with thermal joining, or mechanical joining by hinge joint or pin-joint
- Vacuum belts for metal stamping and other conveying applications
- Heavy-duty timing belts
- Antistatic, ESD, flame retardant and corrosion-free belt drive solutions
- Extremely long, reliable compact timing belt drive systems for positive and friction drives
- On site measurement and joining tools




Paper & hygiene

- Wide range of timing belts truly endless or with thermal joining, or mechanical joining by hinge joint or pin-joint
- Vacuum belts for metal stamping and other conveying applications
- Heavy-duty timing belts
- Antistatic, ESD, flame retardant and corrosion-free belt drive solutions
- Extremely long, reliable compact timing belt drive systems for positive and friction drives
- On site measurement and joining tools

Contact us even if you can't see your industry.
We'll find the right solution for your needs.



Our services



Our commitment to our customers' success is what drives our continuous innovation and product and service improvements.

We combine our engineering expertise with total dedication to reliability and to creating lasting value for our customers.

Global leadership, local service

Habasit is your local partner with global reach. With 30 affiliated companies, each with its own inventory, fabrication, assembly, and service facilities, plus our worldwide network of partners, we react quickly and expertly to meet your most complex installation challenges.



Comprehensive technical support

from belt selection to design assistance. Extensive knowledge of our customers' processes lets us guide you from application analysis to selecting the optimal solution. We offer online calculation and belt selection tools, as well as on site engineering assistance and equipment design, to make sure you get the best solution.



Process optimization and everyday efficiency

Innovation comes from understanding our customers' daily challenges. Habasit is more than a belting company. Our experts can provide belt condition monitoring, regular inspections, analysis and surveys at your sites, to keep your lines running smoothly and fully optimize your equipment and production processes.

Sharing knowledge and making business easy

Habasit offers training programs and support tools to ensure optimal use of our products, with training on fabrication, installation, assembly, maintenance and belt repair either at a Habasit site or your own location. Orders, shipping and tracking can be managed via our Customer Care team, or directly online.



Committed to innovation beyond the obvious

Because our customers' challenges and needs are always changing, we are constantly investing in the research and development of new products and solutions not only for today, but also for tomorrow.

Contact us

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