

HabaSYNC® Timing Belts







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Product liability, application considerations

If the proper selection and application of Habasit products are NOT recommended by an authorized Habasit sales specialist, the selection and application of Habasit products, including the related area of product safety, are the responsibility of the customer. All indications / information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice.

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Introduction HabaSYNC® Timing Belts

HabaSYNC® timing belts

Based on our comprehensive experience and leadership position in belting, Habasit has now developed its own HabaSYNC® timing belt.

Produced at our new state-of-the art manufacturing plant, these high quality polyurethane timing belts are used in conveying and linear movement applications.

Your solution partner

Habasit is totally committed to understanding your design parameters and application needs. After reviewing your requirements, our specialists will suggest the best belt solution for each application.

Global expertise

With over 60 years of experience, the widest and most innovative product range, and an extensive global network, Habasit is the clear No. 1 in belting worldwide.

We put every effort into meeting your needs for high quality belting solutions tailored to your specific requirements.





HabaSYNC® timing belts are the right choice for applications where traditional belt options are unable to provide performance synchronization. The HabaSYNC® belt can be made to your exact dimensional needs, and complemented with guides, profiles and covers to ensure your product or component is always in the right place at the right time.

Business machines

- Large format printers
- Engineering plotters
- Tape libraries
- Document storage systems
- Copiers
- Lifts and elevating devices
- XY and XYZ movement devices
- Labeling equipment

Materials handling

- Glass conveying systems
- Wood and veneer conveying systems
- Brick and aggregate conveying
- Semiconductor wafer conveying
- Circuit board conveying
- Assembly line conveying
- Pick and place conveying and placement
- Package handling
- Automatic storage and retrieval systems
- Tile conveying
- Sheet metal stamping lines
- Wallboard manufacturing lines









Printing, paper, postal

- **Diverters**
- Collators
- Inserters
- **Cutting lines**
- Distribution and feed off lines
- Sheet processing
- Document feed systems
- Diaper making equipment
- Hygienic product manufacture

Textile

- Fabric cutting lines
- Pattern scanners
- Circular knit machines

Packaging

packing

Bottling lines

Finished product

Filling lines

Food

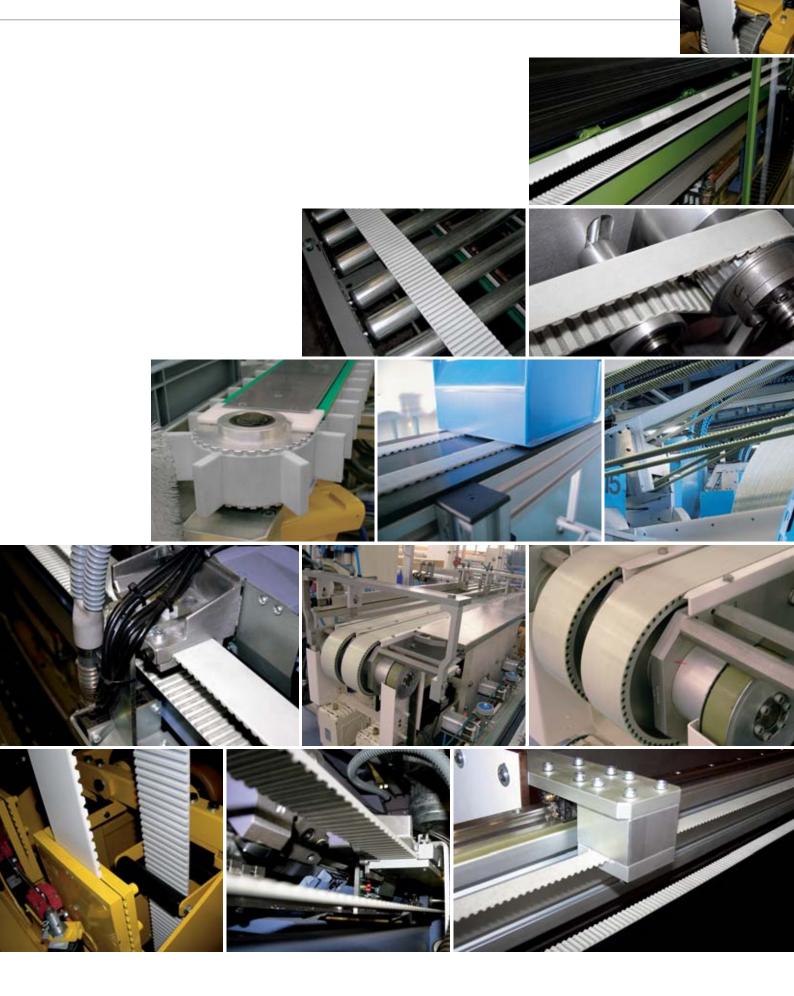
- Tray conveying
- Sizing lines
- Consumer goods finished products
- Packing lines
- Assembly lines
- Distribution lines
- Fruit and vegetable conveying lines
- Packaged snack lines
- Filling lines
- Candy lines

Automation

- Door openers
- Garage openers
- Gate openers
- Car wash drives
- Lifting assemblies / mobility lifts
- Robotic positioning
- Pick and place assembly lines
- Semiconductor assembly
- Assembly line automation
- Vending machines
- Tire making equipment
- Linear actuators
- Window making lines
- Furniture assembly lines
- Exercise equipment



Application Examples – HabaSYNC® in Use



Application Design and Layouts

Unlimited application variety

Timing belts for general conveying or as transfer conveyors, accumulation conveyors, parallel conveyors, synchronous conveyors, indexing conveyors, tractor/twin conveyors, capstan haul-offs, linear drives, cycling conveyors, positioning conveyors, assembly conveyors, magnetic conveyors, vertical conveyors, mechanical handling conveyors, live roller drive elements, thread carriers and for many other applications.

Find more information in the HabaSYNC® Engineering Guidelines – www.habasync.com Habasit application engineers will be pleased to help you design the optimal belt for your application.

Linear drives

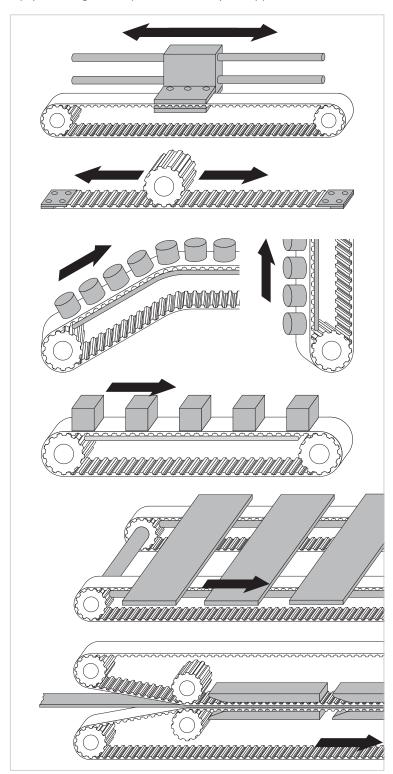
General conveying applications

Belts on magnetic conveyor

General package and parts conveying (transfer conveyors)

Conveying of wide products with belt to belt synchronization (parallel conveyors)

Pull through conveyors (tractor / twin conveyor, capstan haul-off)



HabaSYNC® Features and Benefits at a Glance

HabaSYNC® timing belts are the perfect choice for applications requiring precision product or component placement. Perfectly formed teeth and accurate tooth tolerances, along with the strength delivered by our steel and aramid cords, assure efficient entrance and exit from your pulley in your single or bi-directional drive applications.

HabaSYNC® belts are designed to run quietly and deliver many years of performance. For higher speed applications we offer polyamide fabric added to the tooth side (PT) for the ultimate in low noise and wear resistance.

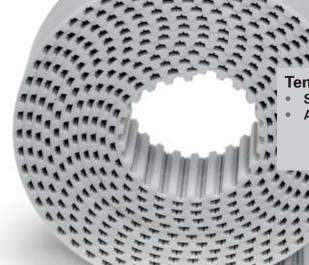
Match the benefits of HabaSYNC® synchronized tooth engagement for accurate product placement with the correct profile or cover for conveying assistance, and you have precisely the right belt for your application.

Structure / material qualities

- · Highly abrasion-resistant polyurethane
- High oil and ozone resistance
- Low ageing
- Long life
- Low weight
- Temperature-resistant (-30/+80°C / -22/+176°F)
- Hardness: 92 Shore A

Design advantages

- Accurate tooth position stability (precision tooth form)
- High indexing accuracy / pitch accuracy
- Low elongation, longitudinal stability
- No slip / self-tracking
- Low bearing load
- High flexibility
- Small return radius, high bending stability, small pulley diameters
- Compact and homogenous construction



Tensile member

- Steel cord
- Aramide cord



Running properties

- Quiet running
- · High transmission ratio
- High power-to-weight ratio
- High efficiency (98% 99%)
- Belt speed up to 30 m/s / 5905 ft/min
- Maintenance free

Availability

- Coil, roll and cut to length dimensions
- Large variety of standard widths available as well as special dimensions on demand
- Belts ready for joining
- Joined endless belts
- Welding of profiles
- Covers on conveying side

HabaSYNC® Product Key Data Overview Admissible **Admissible** tensile force, tensile force, open belt joined belt **Cross section and Belt type** Belt shape Steel **Aramide Steel Aramide** Pitch dimensions 0.200" (5.08 mm) N/inch N/inch N/inch N/inch XL840 840 420 420 0.090" (2.3 mm) R 0.015" 0.050" (1.27 mm) lbf/inch lbf/inch lbf/inch lbf/inch 0.200" 189 189 94 94 R 0.015 0.054" (1.37 mm) 0.375" (9.525 mm) N/inch N/inch N/inch N/inch 1700 1700 850 850 0.142" (3.6 mm) R 0.020 lbf/inch lbf/inch lbf/inch lbf/inch 0.375" 382 382 191 191 0.128" (3.25 mm) 0.500" (12.7 mm) N/inch N/inch N/inch N/inch 2200 2000 1100 1000 0.169" 0.090" (4.3 mm) lbf/inch lbf/inch lbf/inch lbf/inch R 0.040' (1.02) 0.500" 495 450 247 225 R 0.040 0.174" (4.43 mm) 0.875" (22.225 mm) N/inch N/inch N/inch N/inch ХН 3500 3500 1750 1750 0.441" (11.2 mm) 0.250" lbf/inch lbf/inch lbf/inch lbf/inch 0.875" 787 787 393 393 0.313" (7.94 mm) 5.0 mm N/25 mm N/25 mm N/25 mm N/25 mm **T5** 840 840 420 420 2.2 mm R 0.4 lbf/25 mm lbf/25 mm lbf/25 mm lbf/25 mm 1.2 mm 5 mm 189 189 94 94 R 0.4 1.8 mm 10.0 mm N/25 mm N/25 mm N/25 mm N/25 mm Т10 2200 1100 1000 2000 4.5 mm R 0.6 2.5 mm lbf/25 mm lbf/25 mm lbf/25 mm lbf/25 mm 10 mm 495 450 247 225 R 0.6 3.5 mm 20.0 mm N/25 mm N/25 mm N/25 mm N/25 mm T20 3500 3500 1750 1750 8.0 mm R 0.8 5.0 mm lbf/25 mm lbf/25 mm lbf/25 mm lbf/25 mm 20 mm R 0.8 787 787 393 393 6.5 mm 5.0 mm N/25 mm N/25 mm AT5 1750 875 50° 2.7 mm lbf/25 mm 1.2 mm lbf/25 mm R 0.86 5 mm 393 197 R 0.4 10.0 mm N/25 mm N/25 mm 3500 1750 50° 4.5 mm lbf/25 mm 2.5 mm lbf/25 mm R 1.25 10 mm 787 393 R 0.4 20.0 mm N/25 mm N/25 mm 50° 5000 2500 8.0 mm 5.0 mm lbf/25 mm lbf/25 mm R 2.5

R 1.75

10.0 mm

20 mm

1124

562

The Habasit Website for more Information

Please visit our website for more information on products and applications, as well as for detailed technical data and engineering tips:

www.habasync.com





All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554), and are based on the Habasit master joining method.

Belt pitch features

Imperial pitch belts are designed with a trapezoidal tooth and a 40° tooth angle. Imperial pitch belts are typically used in general conveying and linear movement applications.

Metric T pitch belts are designed with a trapezoidal tooth form where the teeth are shaped with a 40° angle. Metric T belts are an excellent choice for general conveying applications.

Metric AT pitches are designed with a trapezoidal tooth form where the teeth are shaped with a 50° angle. The AT series provides design enhancements beyond the metric T series to yield a higher load-carrying capacity. This is the right choice for applications requiring minimal backlash.

Other tooth geometry

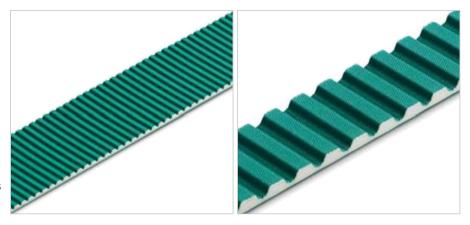
For other belt designs, like TT5 and tooth geometry (e.g. HTD) please contact Habasit.

Polyamide Finishes

Habasit offers variations of coverage to our base steel and aramide timing belts with polyamide fabric to reduce the coefficient of friction (COF). A polyamide finish can also provide incremental wear resistance and offer lower noise benefits in certain applications.

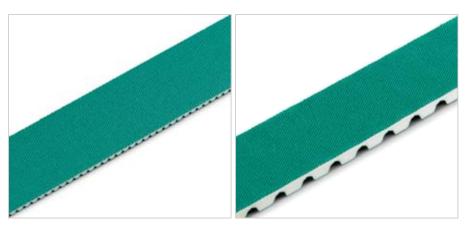
Polyamide tooth side (PT)

Polyamide added to the tooth side of the belt reduces the coefficient of friction (COF) as the belt meshes with the pulley teeth. This yields smoother tooth engagement and offers lower application noise. A lower COF can also extend wear resistance when tooth side contacts with slider bed in conveying applications and as a side effect lower energy consumption results.



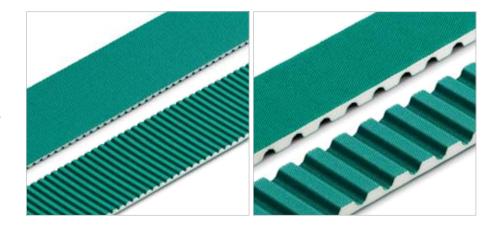
Polyamide conveying side (PC)

Polyamide on the conveying or reverse side of a timing belt can reduce friction between the surface of the product conveyed and the surface of the belt. This feature is beneficial in applications where backup or accumulation of product can occur. With a polyamide conveying surface the product can slip in place while belt motion continues. This can reduce wear and tear on the product conveyed.



Polyamide on both tooth and conveying sides (PTC)

Polyamide on both sides of the timing belt offers reduced friction, leading to quiet, smooth conveying. This feature is particularly attractive where very fragile or sensitive products are being moved.



For the coefficient of friction values of polyamide against typical conveyor bed material, please consult the HabaSYNC® Engineering Guidelines on the Habasit website.

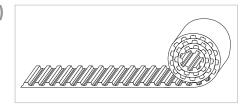
Availability Options

The Habasit HabaSYNC® timing belts are manufactured in open end lengths and are available as follows:

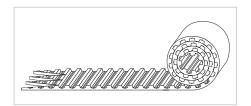
- HabaSYNC® belts can be obtained in open end lengths by identifying width and length.
- HabaSYNC® belts can be made endless to your desired length with either a thermal splice or clamping plate.
- HabaSYNC® belts can be spliced endless in the workshop or in the field at the application, due to their chemical and material makeup.
- HabaSYNC® belts are supplied with pre-determined slitting lanes that yield sealed edges, meaning no cord show when slitting.
- HabaSYNC® belts can be custom designed with no slitting lanes or with slitting lanes designed to
 meet specific application needs. For example, in some cases slitting lanes can be adjusted to allow
 clean vacuum hole placement.

Availability options

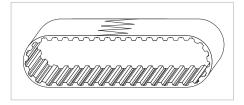
Open end style (O)



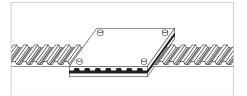
Prepared ends (P)



Joined endless (J)

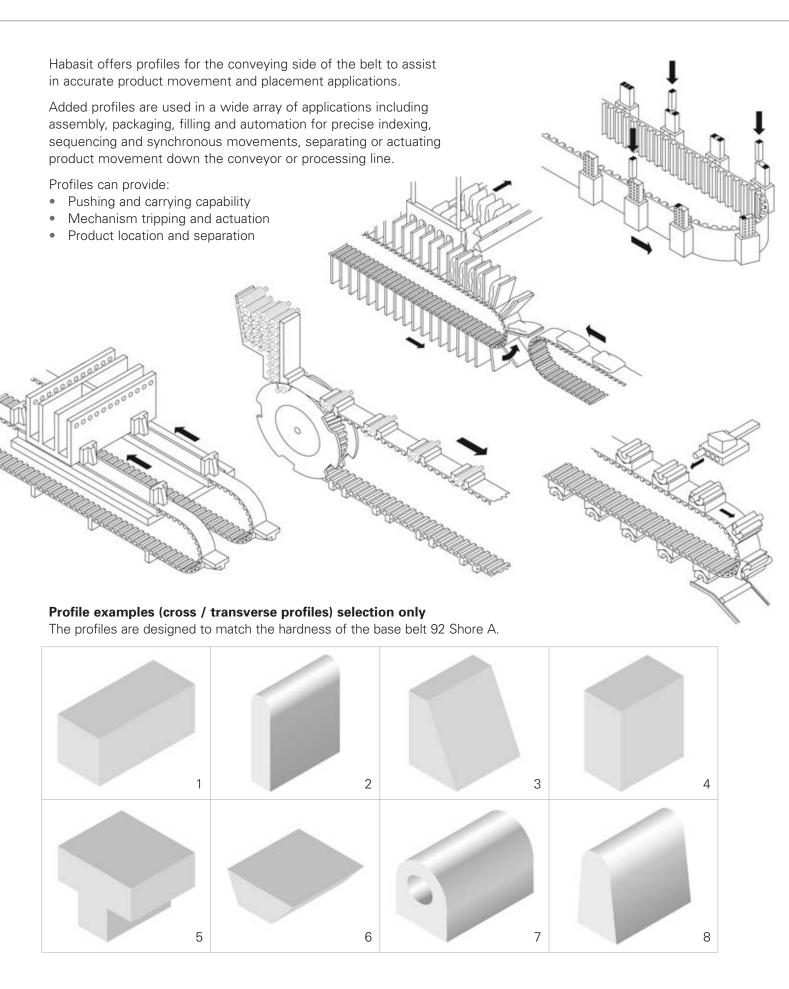


Mechanical joints

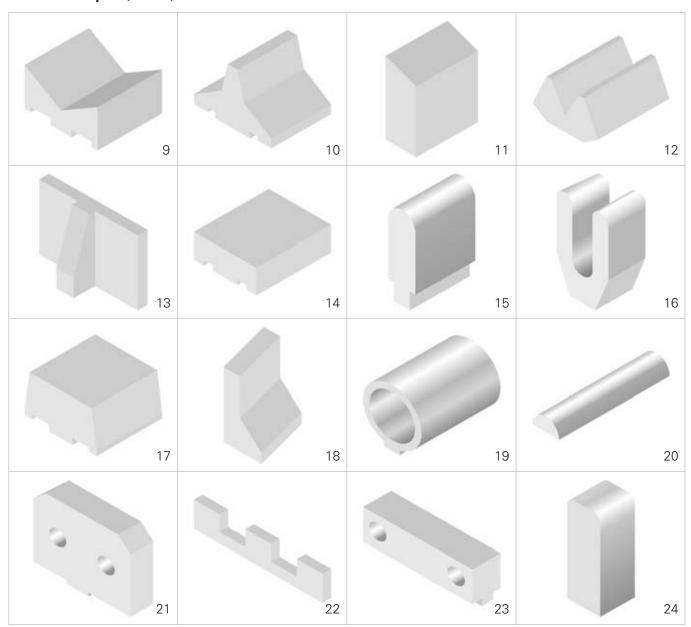


A mechanical joint can be used in many applications. Clamping plates provide an effective joining mechanism for use in applications where the belt moves in a bi-directional fashion. In these cases the belt joint never rotates around the pulley. It simply moves backwards and forwards. Clamping plates can be used in bi-directional and rack and pinion drives. Mechanical clamping plates are typically used in linear movement applications.

Belt Attachments: Profiles and Tracking Guides



Profile examples (contd.)



Tracking guides (longitudinal guides)

Tracking guides can be placed on the tooth side of the belt to provide true belt tracking in applications where side loading of the belt can create a perpendicular or lateral shift of the belt from its direction of travel. Tracking guides are also beneficial on long center distance applications and where flanged pulleys could affect product movement. Tracking guides are notched to provide maximum flexibility around pulleys. Tracking guides are made with 92 Shore A hardness thermoplastic polyurethane.

For details, please consult our website: www.habasync.com

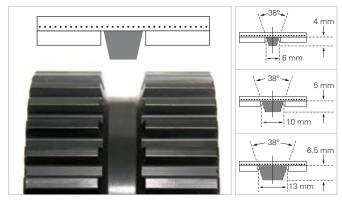


Illustration: Cross section of a timing belt with tracking guide (gray) on tooth side and correspondent pulley with center groove. Tracking guide cross section G6, G10 and G13.

Covers

HabaSYNC® belts are available with covers of different materials to assist in product handling. Some cover materials are produced during our belt manufacturing process, while others are added in a secondary process. Covers are available in different hardness and thickness combinations.

Covered timing belts are used in applications like:

Packaging: Case filling lines

Electronic assembly: Circuit board assembly **Paper conveying / feeding:** Puller belts

Ceramic tile conveying: Inclined or decline conveying **Labeling equipment:** Dispenser and gluing equipment

Features and benefits of covered timing belts

- High or low coefficient of friction
- Compressibility
- Shock absorption
- Electrostatic discharge antistatic features
- Easy release
- Abrasion resistance

Features and cover materials available

Requested feature	Cover material variety / designation
High friction	35 A Red Natural Rubber 40 A Tan Natural Rubber 40 A White Neoprene 52 A Yellow Polyurethane Foam 55 A Green Natural Rubber 60 A White EPDM 60 A White Nitrile Rubber (G06) 85 A Polyurethane Linatex Rubber PVC Rough Top Blue Polyurethane
Low friction	Silicone Polyamide Teflon Kevlar Nomex
Compressibility	75 A Polyurethane Polyurethane Foam Black Neoprene Sponge Black Polyolefin Foam Orange Natural Rubber
Shock absorption	Polyurethane Foam Rubber
Easy release	Silicone EPDM
Abrasion resistance	52 A Yellow Polyurethane 55 A Green Polyurethane 60 A Red EPDM



Modifications

Modifications are offered to HabaSYNC® belts to assist conveying and belt movement efficiency. In many applications, additional friction enhancement can be obtained when the cover is: ground – CNC profiled – machined with pockets – hole and slot punched – shaped – knurled.

Profile grinding

After covers are applied to the timing belt Habasit can profile grind the cover to yield designs that include slots, grooves, contours, v-shapes and round shapes.

Surface grinding & routing

Grinding is delivering extremely tight tolerances. Routing can eliminate a specific area of the belt, such as teeth, to create a pathway for additional secondary work, for example hole punching for vacuum conveying applications.

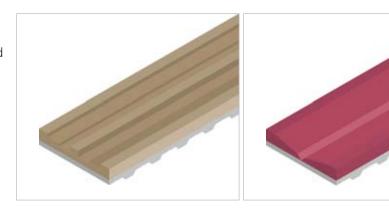
Lateral machining

After profiles or covers are added to the timing belt, Habasit can notch the profile or cover to assist with product movement, capture, or increased flexibility to grab and squeeze.

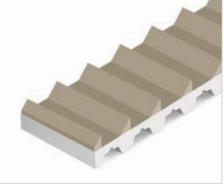
Perforating / hole punching

Belts are able to be punched for effective use on vacuum conveyors, mounting mechanical attachments, and product sizing applications. For vacuum applications, under certain circumstances it is possible to extrude urethane timing belts with cord spacing to allow positioning of the holes between the cords. This ensures that cords are not cut during perforation.

Please contact your local Habasit representation to discuss your application in detail.

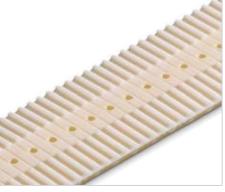












Accessories: Pulleys, Clamps and Guides

The Habasit full range of integral accessories provides a wide variety of solutions. Timing belt pulleys, clamps and guide plates complement most applications involving conveying and linear movement. Habasit can provide your total solution needs.

Pulleys

HabaSYNC® timing belt pulleys are available in both imperial and metric pitches in both standard and custom designs. Our standard pulley is aluminum and available in several designs. We can supply other materials including stainless steel, plastic and UHMW on request.

Illustrations from left to right: Examples of pulleys

1st row: bar stock, pulley with hub

2nd row: pulley with 1 or 2 flanges, pulley with tracking guide for G6,

G10 and G13



Clamping plates

Aluminum timing belt clamps are typically used to join the ends of the belt in linear movement applications such as actuators and slides where the belt moves bi-directionally between pulleys.



Habiplast® guides are designed to reduce the coefficient of friction (COF) between the teeth on a timing belt and the conveyor surface.

The Habiplast® thermoplastic is self-lubricating and is designed to yield low noise. Habiplast® also offers high chemical and corrosion resistance.

Habiplast® guides are offered with or without raised edges and with or without tracking guides machined in the Habiplast® surface to accommodate G6, G10 and G13 tracking guides.

Habiplast® is available to fit standard HabaSYNC® belt widths and can be supplied with or without metallic inserts. See Habiplast® product brochure 4097.

Illustrations from left to right: Examples guides

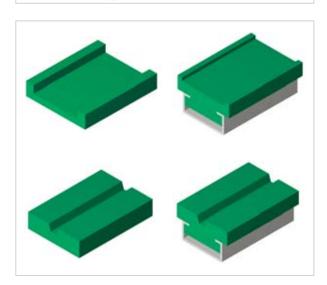
1st row: Habiplast with raised edge, Habiplast with raised edge and

metallic support

2nd row: Habiplast with tracking guide, Habiplast with tracking guide

and metallic support





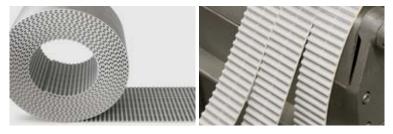
For details please consult the Habasit website, www.habasync.com or the HabaSYNC® Engineering Guidelines.

Fabrication and Tools

HabaSYNC® timing belt construction allows belts to be joined endless to any length. The joining process provides a multitude of belt length options when designing a new conveyor system. Joining takes place in four steps:

Slit to width

The HabaSYNC® belt is manufactured in open end length. We slit along pre-designed slitting lanes on the coil to create rolls of belt.



Finger cutting

In order to prepare the open end belt to be joined endless, it is cut with the HabaSYNC's finger geometry to create prepared ends for the joining process. Dedicated finger geometry can be obtained using HabaSYNC® cutting dies.



Interlock in joining plates

After fingers have been cut into both ends of the belt, the belt ends are interlocked into HabaSYNC® fixed width joining plates.



Hot pressing

After the fingers are interlocked in the joining plate, the plate is then placed in the PF-150C hot-pressing device.





Clamping plates - an alternative joining mechanism

Clamping plates provide an effective joining mechanism for use in applications where the belt moves in a bi-directional fashion. In these cases the belt joint never rotates around the pulley. It simply moves backwards and forwards. Mechanical clamping plates are typically found in linear movement applications. For details please consult the Habasit website, www.habasync.com or the HabaSYNC® Engineering Guidelines.

Our comprehensive range of services is an integral part of Habasit's belting solution approach. We are committed partners to our customers, and we consider the sharing of knowledge and the provision of support to be essential to our task. This is what we offer:



Comprehensive consulting and technical support

Habasit offers the best consulting and technical support on the belting market. Everything revolves around customer care. All our affiliate companies are committed to supporting your needs from start to finish. Each affiliate location offers experts in conveying and linear movement solutions. The Habasit organization team is ready to provide the high levels of support and the quality products that the global market has come to expect from Habasit for over 60 years.



Assistance with belt selection and calculation

We select and calculate the most suitable belt for a specific application for our customers.



Choice of fabrication and assembly location

We make power transmission belts or fabric conveyor belts or timing belts endless, or assemble plastic modular belts, either at our locations or on-site directly on your machine or system.



Local installation services for quick reaction times

Habasit operates 33 affiliated companies in North America, Europe, Asia and Australia, each with its own inventory, fabrication, assembling and service facilities. Together with our country managers, representative offices, and a large number of qualified distributors, we can react quickly, competently and reliably to meet all your demands whatever your location around the world.



Belt monitoring, inspection, analyses and process optimization proposals

We organize and handle belt maintenance, regular belt monitoring reports, inspections, analyses and surveys for your locations, and deliver all the necessary reports. On request we will analyze processes together with you and submit proposals for optimization, e.g. to achieve added value from the machinery or process output, or to increase output.



Customer training programs

Habasit organizes training programs and provides support tools to ensure optimal use of our products and to prolong their life cycles. Fabrication, installation, assembly, maintenance and belt repair training takes place at Habasit sites or at your location.



Design assistance for custom solutions

Habasit believes in partnership. For joint design developments our engineering team works in close cooperation with your engineers, preferably from a very early stage. We recommend this in particular for projects involving new technologies or large-scale modifications and adaptations.

At Habasit, we listen to our customers, innovate continuously and deliver reliable solutions to meet your every need.

Customers come first

At Habasit we understand that our success depends on your success. Which is why we offer solutions, not just products; partnership, not just sales.

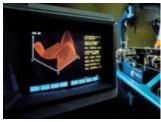
Since our foundation in 1946, Habasit has brought this understanding of customer needs to life every day and for every application. That's why we're the No. 1 in belting today. Worldwide.





Committed to innovation

Habasit is strongly committed to the continuous development of innovative, value-added solutions. Over 3% of our staff are dedicated exclusively to R&D, and our annual investment in this area exceeds 5% of turnover.





Certified for quality

We deliver the highest quality standards not only in our products and solutions, but also in our employees' daily work processes. Habasit is certified according to ISO 9001:2000.



Worldwide leading product range

Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is nothing less than a specific, tailormade solution.

A selection of our product ranges:



HabaFLOW® Fabric based conveyor and processing belts



HabasitLINK® Plastic modular belts



HabaDRIVE®
Power
transmission
belts



HabaSYNC® Timing belts



HabaCHAIN®
Chains (slat and conveyor chains)



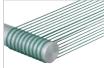
HabiPLAST[®]
Profiles
Guides
Wear strips



Machine tapes



Seamless belts



Round belts



Fabrication tools (joining tools)



Gear reducers Gearmotors Motion control



Electric motors

Worldwide support

Our extensive organization is ready to support you anywhere in the world. Engineering and emergency assistance, quotes and order status are just a phone call away. Wherever you are. Whenever you need us.

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Rossi Gearmotors is one of Europe's largest industry groups for the production and sales of gear reducers, gearmotors, inverters, standard and brake motors.

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