

# Materials Handling Industry Power Transmission and Conveyor Belts

Habasit – Solutions in motion



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## **Belts: the key element**

Habasit provides solutions for materials handling across the entire spectrum. Our offering extends from traditional lightweight fabric belts, to plastic modular belts and chains, to timing belts – ensuring that you can find the optimal solution for any application.

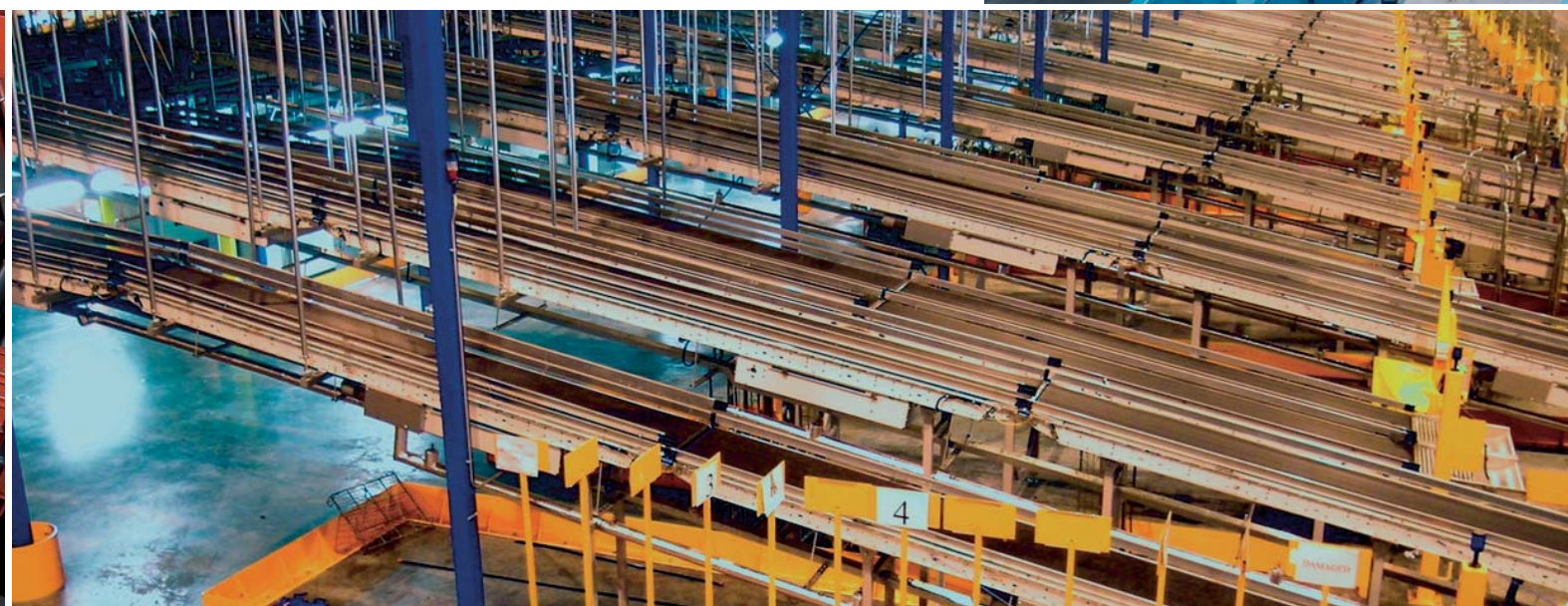
## **Your one-stop shop**

Our one-stop shop policy means that customers can obtain all their belting-related products and services from the same supplier, thereby reducing purchasing and logistics complexity and costs. An important feature of our technical consultancy is that since we are not restricted to a single type of product, we can offer an unbiased opinion on the best choice of product for each application.

## **Competence and experience**

Habasit's decades of experience in the belting business and expertise in meeting a huge variety of application needs is the basis for our extensive consulting capabilities.

Our traditional belts have won an excellent reputation at major airports, distribution centers and supermarket around the world. Countless conveyors equipped with Habasit products support logistics and manufacturing processes in a wide variety of industries.





**Input stage**

Telescopic loader  
Picking section

**Merging, gapping**

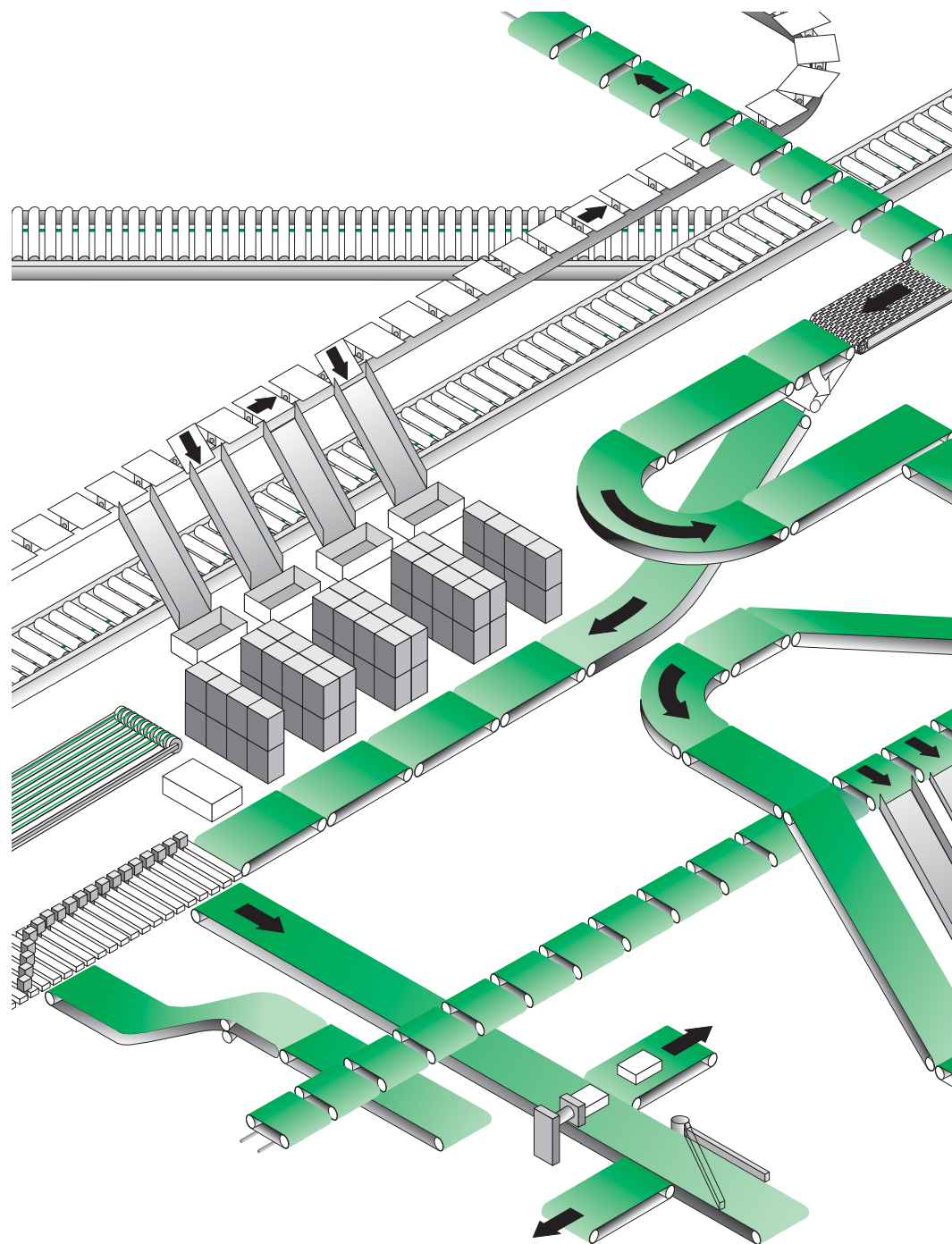
Merge system  
Accumulation  
Gapping, acceleration

**Identification**

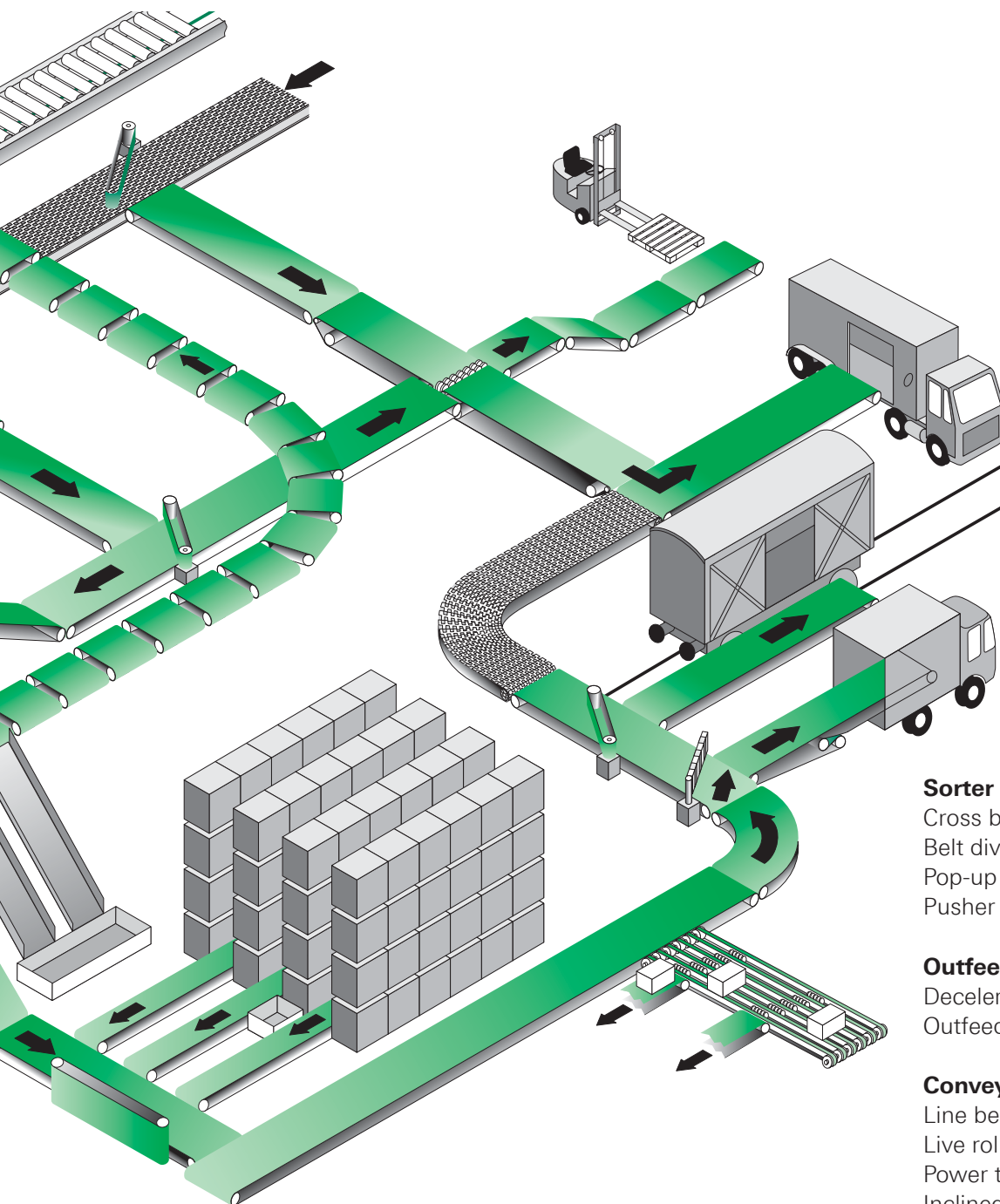
Check weigher, scale  
Scanner labelling

**Induction to sorter**

Metering  
Induction unit (multi-strand)  
Induction unit (single-belt)



These drawings show schematic examples of selected applications and processes, and are neither complete nor comprehensive. The belt recommendations (use/application/layout) can only be considered as a general suggestion. Due to the complexity of the various processes and technical requirements, and external influences such as the nature or properties of the transported goods, process speeds, stages of treatment/handling, environmental or process temperatures, humidity, chemicals, additives, ingredients, and recipes, etc. there are many possible solutions.



### Sorter

Cross belt sorter  
Belt diverter  
Pop-up sorter  
Pusher sorter

### Outfeed, final stage

Deceleration  
Outfeed system

### Conveyor sub-systems, modules

Line belt  
Live roller conveyor  
Power turn  
Inclined/declined conveyor  
Z-conveyor (swan neck conveyor)  
Mini-conveyor  
Pallet handling

In all areas of our operations Habasit acts with constant awareness of our social and ecological responsibilities. In industry, saving energy, extending service life, reducing maintenance, and creating a people-friendly environment makes good business sense.

## Habasit Eff-Line belts

A specially designed impregnation lowers the sliding friction of the belts and at the same time makes them more durable.

### Up to 45% energy savings

Energy costs are constantly on the rise due to increasing demand and resource shortages. In response to this situation, Habasit has developed a completely new product line.

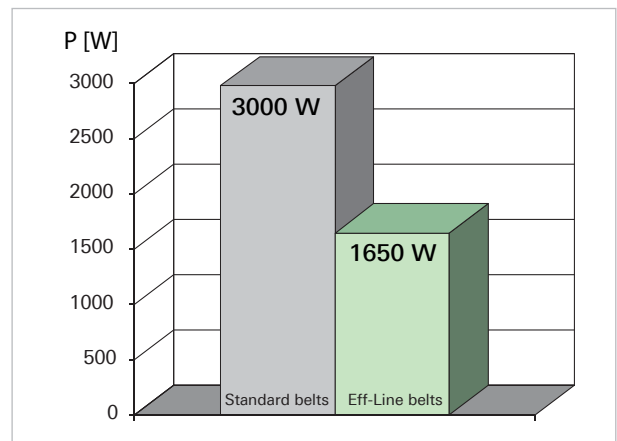
The Habasit Eff-Line helps our customers to reduce belt energy consumption by up to 45%. The excellent durability of our Eff-Line belts also ensures fewer belt replacements. This guarantees a reduction in the overall running costs of their applications.

Habasit Eff-Line belts benefit both the environment and your life-cycle running costs.

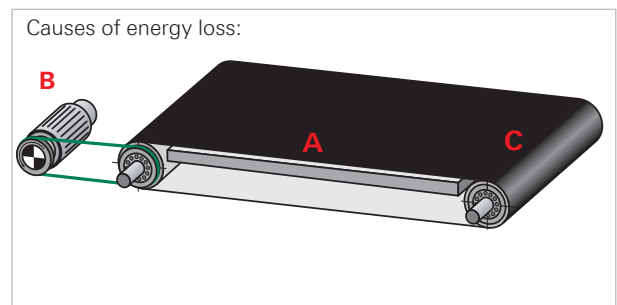
### How the Habasit Eff-Line helps you to save energy

The decisive factor for energy loss or saving is the coefficient of friction. The higher the sliding friction of a conveyor belt during the conveying process, the higher the energy loss. Up to 60% of losses can be the result of sliding friction effects.

This is where the Habasit Eff-Line comes in. Habasit has developed a special water-based impregnation for the running side of its fabric conveyor belts that lowers the dynamic coefficient of friction. This new technology allows our customers to save up to 45% of the energy required thanks to Habasit Eff-Line belts.



All values are valid for average conveyor applications with a high load factor.



- A** Up to 60% from sliding friction
- B** Up to 30% from motors and gears
- C** Up to 10% from belt bending



### Go green with the Habasit Eff-Line

Our Eff-Line not only helps our customers to save money, it is also more environmentally friendly due to its reduced carbon footprint. With their lower energy consumption, Habasit Eff-Line belts lead to lower CO<sub>2</sub> emissions. In addition, due to longer belt lifetimes, fewer belt replacements are needed.

Check out the Habasit Energy-Saving Calculator on our website and see how green you can go with Habasit Eff-Line belts: [www.habasit.com](http://www.habasit.com)

## The right belt for every application

Habasit's conveyor belt selection includes hundreds of different belts to satisfy application requirements that range from straight-inclined or declined operations, to accumulation and diverters, to swan neck (Z) conveyors, and numerous others. We offer a wide variety of tension members and cover materials, as well as structural conveying- and running-side patterns to optimize your system's performance.

## Belt materials

The materials and designs are selected to cope with a broad range of application requirements, including resistance to wear or chemical agents, and to high or low temperatures. Furthermore, our belts maintain excellent stress-strain behavior through the use of carefully selected tension members.

## Belt design

Habasit conveyor and processing belts are generally made of different layers, with tensile strength provided by synthetic fabric plies. These fabrics are connected by layers of thermoplastic materials. The material, thickness and texture of the conveying side depend on the function of the belt.

Cover coatings are mainly made of thermoplastic materials like TPU, TPO, PVC, etc., and elastomer-like rubbers, PUR, etc. – or feature a fabric cover. The running side is usually a fabric, often impregnated with a thermoplastic material, or with special wear-resistant PUR that provides a low and constant coefficient of friction. There are also pulley-side fabrics that feature special low-noise running capabilities.

## Attachments and profiles

Guides, cleats and side walls are the most common modifications applied to conveyor and processing belts. While V-shaped profiles are mostly attached to the running side as guides, various cleat designs can be welded or bonded to the conveying side to ensure proper transport either horizontally or on an incline. Side walls positioned close to the edges of the belt stop loose goods falling off.

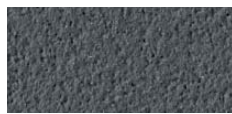
## Surface structure

A well-designed belt surface supports both the secure transport of the goods conveyed as well as the process where the belt is employed. Careful selection is essential in order to find the right belt for each conveying or processing application. The belt surface plays a key role in meeting each specific process step or function.

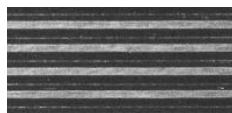
Selection of surface structures



Blank, smooth



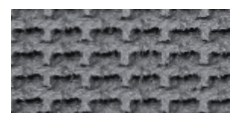
Super matt finish (sand finish)



Longitudinal groove structure



Jink wave (sine wave) grip structure



Grip (rough top) structure



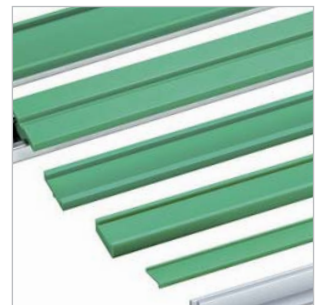
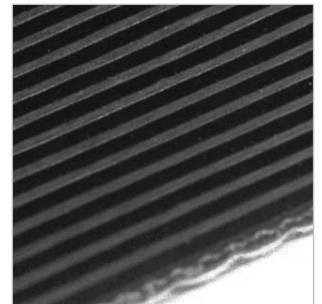
Quadrille (quadrangular pattern) structure



Waffle structure



Nonwoven (fleece, buffed or ground finish) structure



## PVC coated belts



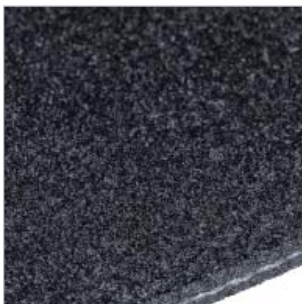
| Key features   | Your benefits   |
|--|---|
| <ul style="list-style-type: none"> <li>• Wide range of surface types, structures and belt strengths available</li> </ul> | <ul style="list-style-type: none"> <li>→ Selection of suitable belts for specific applications</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Stable modulus of elasticity after running-in</li> </ul>                        | <ul style="list-style-type: none"> <li>→ No re-tensioning</li> <li>→ Less downtime</li> <li>→ Easy maintenance</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Permanently antistatic belts available</li> </ul>                               | <ul style="list-style-type: none"> <li>→ No interference with electronic devices</li> <li>→ Less dust and dirt attraction</li> <li>→ Process reliability</li> </ul> |
| <ul style="list-style-type: none"> <li>• Simple and fast joining method (Flexproof)</li> </ul>                           | <ul style="list-style-type: none"> <li>→ Easy handling</li> <li>→ Adhesive-free joint</li> <li>→ Minimum equipment needed</li> </ul>                                |

## TPU coated belts



| Key features  | Your benefits   |
|---|---|
| <ul style="list-style-type: none"> <li>• Longitudinal flexibility</li> </ul>      | <ul style="list-style-type: none"> <li>→ Copes with small pulley diameters</li> <li>→ Smooth and trouble-free product transfer</li> </ul>                           |
| <ul style="list-style-type: none"> <li>• Excellent abrasion resistance</li> </ul> | <ul style="list-style-type: none"> <li>→ Reduced belt wear</li> <li>→ No marking of goods</li> <li>→ Long belt life</li> </ul>                                      |
| <ul style="list-style-type: none"> <li>• Stable modulus of elasticity</li> </ul>  | <ul style="list-style-type: none"> <li>→ No re-tensioning</li> <li>→ Less downtime</li> <li>→ Easy maintenance</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Permanently antistatic</li> </ul>        | <ul style="list-style-type: none"> <li>→ No interference with electronic devices</li> <li>→ Less dust and dirt attraction</li> <li>→ Process reliability</li> </ul> |

## Nonwoven belts



| Key features  | Your benefits   |
|---|---|
| <ul style="list-style-type: none"> <li>• Impact- and wear-resistant</li> </ul>    | <ul style="list-style-type: none"> <li>→ Durable and forgiving belt surface</li> <li>→ Gentle, soft and safe handling of goods</li> <li>→ Extended belt service life</li> </ul> |
| <ul style="list-style-type: none"> <li>• Excellent abrasion resistance</li> </ul> | <ul style="list-style-type: none"> <li>→ Reliable conveying properties</li> <li>→ Long belt life</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Superior edge fray resistance</li> </ul> | <ul style="list-style-type: none"> <li>→ No stringing or fraying</li> <li>→ Extended belt service life</li> </ul>   |
| <ul style="list-style-type: none"> <li>• PET traction layer</li> </ul>            | <ul style="list-style-type: none"> <li>→ Stable modulus of elasticity after running-in</li> <li>→ No re-tensioning required, less downtime</li> </ul>                           |



## Rubber coated belts



| Key features   | Your benefits  |
|--|--|
| <ul style="list-style-type: none"> <li>• Excellent release properties</li> </ul>       | <ul style="list-style-type: none"> <li>→ No sticking to rubber</li> <li>→ Process reliability</li> <li>→ Low maintenance costs</li> </ul>                                  |
| <ul style="list-style-type: none"> <li>• Longitudinal flexibility</li> </ul>           | <ul style="list-style-type: none"> <li>→ Copes with small pulley diameters</li> <li>→ Smooth and trouble-free product transfer</li> </ul>                                  |
| <ul style="list-style-type: none"> <li>• Permanently antistatic</li> </ul>             | <ul style="list-style-type: none"> <li>→ No interference with electronic devices</li> <li>→ Less dust and dirt attraction</li> <li>→ Process reliability</li> </ul>        |
| <ul style="list-style-type: none"> <li>• High-grip rubber surface available</li> </ul> | <ul style="list-style-type: none"> <li>→ Constant coefficient of friction</li> <li>→ Reliable product flow in acceleration sections or within inclines/declines</li> </ul> |

## Eff-Line belts



| Key features  | Your benefits   |
|---|---|
| <ul style="list-style-type: none"> <li>• Special water-based impregnation</li> </ul>                | <ul style="list-style-type: none"> <li>→ Up to 45% energy savings</li> <li>→ Lower CO<sub>2</sub> emissions</li> <li>→ Fewer belt replacements</li> </ul>           |
| <ul style="list-style-type: none"> <li>• Major range of surface types</li> </ul>                    | <ul style="list-style-type: none"> <li>→ Selection of suitable belts for specific applications</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Permanently antistatic</li> </ul>                          | <ul style="list-style-type: none"> <li>→ No interference with electronic devices</li> <li>→ Less dust and dirt attraction</li> <li>→ Process reliability</li> </ul> |
| <ul style="list-style-type: none"> <li>• Belts with flame-retardant properties available</li> </ul> | <ul style="list-style-type: none"> <li>→ DIN 22103/ISO 340 for airport and warehouse solutions</li> </ul>   |

## Customized solutions every time

Habasit power transmission belts are tailor-made to suit specific industry and application needs or machine designs. We offer three different traction layer materials, used by three different belt concepts, for open drive, tangential drive, multiple pulley drive, live roller drive, and double-sided power transmission.

## Design

These belts have a composite construction with three different material traction layers coated with NBR rubber (partly with Hamid or leather), with different structures on both surface sides, in asymmetric and symmetric styles.

Asymmetrically built: A series flat belts, partly TF and TCF series

Symmetrically built: Flat and tangential belt series S, SP, CM, TC, partly TF series

## Materials

**Polyester** is a category of polymers that contain the ester functional group in their main chain. Although there are many types of polyester, use of the term "polyester" as a specific material most commonly refers to polyethylene terephthalate (PET). Depending on the chemical structure, polyester can be a thermoplastic or thermoset; however, the most common polyesters are thermoplastics.

**Aramide** fibers are a class of heat-resistant, strong synthetic fibers. They are used in aerospace and military applications, for ballistic-rated body armor fabric and ballistic composites, in bicycle tires, and as an asbestos substitute. It is because the chain molecules in aramide fibers are highly oriented along the fiber axis that the strength of the chemical bond can be exploited.

## Polyester (PE) power transmission belts



| Key features  | Your benefits   |
|---|---|
| <ul style="list-style-type: none"> <li>• High dimensional stability</li> </ul>  | <ul style="list-style-type: none"> <li>→ No elongation under load and over time</li> <li>→ No re-tensioning</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Low sensitivity to humidity</li> </ul> | <ul style="list-style-type: none"> <li>→ Can be used in wet environments</li> <li>→ Oil-, grease-, and detergent-resistant</li> <li>→ Long belt service life</li> </ul> |
| <ul style="list-style-type: none"> <li>• Considerable strength</li> </ul>       | <ul style="list-style-type: none"> <li>→ High admissible workload and machine output</li> </ul>   |

## Aramide power transmission belts



| Key features  | Your benefits   |
|---|---|
| <ul style="list-style-type: none"> <li>• Outstandingly high tensile strength</li> </ul> | <ul style="list-style-type: none"> <li>→ High power output with small belt width</li> </ul>     |
| <ul style="list-style-type: none"> <li>• High elastic modulus</li> </ul>                | <ul style="list-style-type: none"> <li>→ Short take-up</li> </ul>                               |
| <ul style="list-style-type: none"> <li>• Insensitive to humidity</li> </ul>             | <ul style="list-style-type: none"> <li>→ No dimensional changes due to high humidity</li> </ul> |

## World-leading synchronized conveying

The demand for synchronized conveying has grown significantly over the past two decades. As machines moved faster and precision output became a greater engineering challenge, it was obvious that no conveying solutions existed to reliably and cost-effectively meet customers' needs.

Borrowing knowledge and experience from over 60 years as a market-leading conveyor belt manufacturer, Habasit built a new state-of-the-art production plant to manufacture thermoplastic urethane synchronous timing belts for our global customer base. Utilizing our broad global affiliate company network and their fabrication skills, we are now able to design tailored solutions for customers worldwide.

## Covers

Habasit offers a broad selection of covers for our HabaSYNC® timing belts. Covers provide the friction needed to handle products so that they are correctly indexed and securely and effectively managed. Our covers are designed to cope with a wide variety of requirements and can thus guarantee reliable conveyance in every type of transport function and manufacturing application.

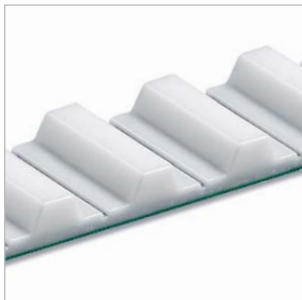
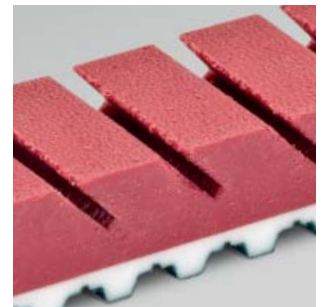
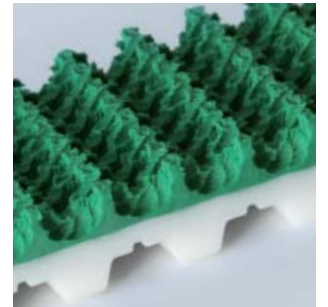
## Special fabrications

Modifications to the conveying and tooth sides of HabaSYNC® timing belts can enhance the performance of your conveying and linear-positioning applications. Additional machining steps are common, such as holes for vacuum draw, pockets for product reading and deposit recognition, slots for handling, and lateral grooves for venturing. Habasit's high investment in automated processes ensures that our belts deliver the consistent precision you require.

## Profiles and tracking guides

Profiles, added with thermal-bonding processes or mechanical attachment, allow unique positioning and adjustment. Thermoplastic profiles are made in several ways: extrusion, injection molding or machining. The choice of profile sourcing depends on the shapes, dimensions and quantities required.

Integrated guide belts and weld-on tracking guides are available to ensure proper tracking. The tracking guide is placed on the tooth side of the timing belt. This provides true belt tracking in applications where long narrow belts are used.



| Key features  | Your benefits  |
|---|--|
| <ul style="list-style-type: none"> <li>• Wide product range</li> </ul>                                | <ul style="list-style-type: none"> <li>→ All common pitches accommodated</li> <li>→ Antistatic and food types available</li> </ul>             |
| <ul style="list-style-type: none"> <li>• Standard belt material used as timing belt covers</li> </ul> | <ul style="list-style-type: none"> <li>→ Proven cover materials for conveyor belts</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Mechanical timing belt fastener hinge joint</li> </ul>       | <ul style="list-style-type: none"> <li>→ Quick and easy replacements</li> <li>→ Thoroughly integrated in the belt; almost invisible</li> </ul> |
| <ul style="list-style-type: none"> <li>• Wide range of accessories</li> </ul>                         | <ul style="list-style-type: none"> <li>→ Pulleys</li> <li>→ Clamping plates</li> <li>→ Tracking guides</li> </ul>                              |

## Advantageous in numerous applications

The modular belt is an aggregation of individual plastic modules made by high-precision injection molding and connected by lateral rods. Its robust design is optimized for efficient conveying and easy cleaning procedures.

Plastic modular belts eliminate the need for high-tension systems by positively engaging the sprocket with the running belt and maintaining proper belt tracking. They are widely used in many industries, where their specific product features provide numerous benefits to our customers

## Materials

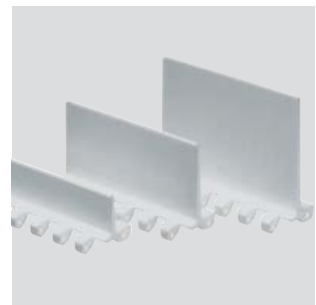
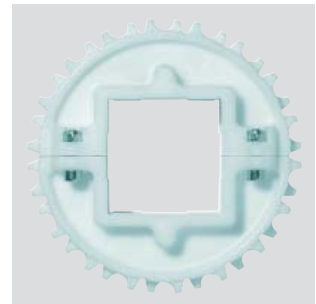
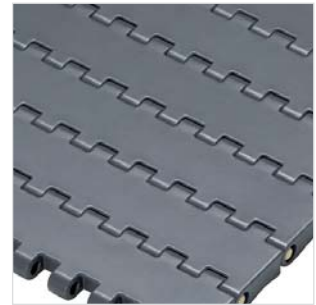
Habasit modular belts are available with a variety of state-of-the-art features, including special materials for: low friction, self-lubrication, chemical resistance, food-approved materials, as well as with antistatic, flame retardant, magnetic, detectable, electrically conductive, submersible, anti-microbial, special-impact, cut-resistant, high-temperature, and super high-temperature properties.

## Sprockets and rods

Injection-molded sprockets have a specific open design that allows easy access for cleaning across the width of the conveyor shafts. Wear-resistant materials secure a long lifetime in all applications. The full-width rods ensure belt connection and lateral stiffness. HabasitLINK® modular belts come with two rod solutions, depending on the belt type: Smart Fit and Snap Fit.

## Accessories

Habasit offers a wide range of modular belt accessories including cleats, flights, scoops, side guards, finger transfer plates, and hold-down tabs for elevators with back bending (Z-conveyors), as well as HabiPLAST® guide rails.



## Surface structures (selection only)



Flat Top



GripTop



Radius GripTop



Flush Grid



LBP low back pressure



Roller Top



| Key features   | Your benefits  |
|--|--|
| <ul style="list-style-type: none"> <li>• State-of-the-art product quality</li> </ul> | <ul style="list-style-type: none"> <li>→ Long lifetime</li> <li>→ Less downtime</li> <li>→ Reliable operation</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Excellent material properties</li> </ul>    | <ul style="list-style-type: none"> <li>→ High-strength module material</li> <li>→ Wear-resistant materials</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Wide range of products</li> </ul>           | <ul style="list-style-type: none"> <li>→ Belt solutions for all applications</li> <li>→ Belts from 0.3" to 2.5" pitch</li> <li>→ Different surface structures available</li> </ul> |
| <ul style="list-style-type: none"> <li>• Special materials available</li> </ul>      | <ul style="list-style-type: none"> <li>→ Materials available for wear resistance, chemical resistance, high temperatures, antistatic features, etc.</li> </ul>                     |

### HabaCHAIN® slat and conveyor chains

Designed, produced and serviced by the worldwide leader in belting, the HabaCHAIN® range offers top-class quality and product features combined with excellent reliability and cost-efficiency. HabaCHAIN® products are available in both straight-running and radius/side-flexing versions, and run on most systems and sprockets on the market today. They are fully compatible with industry standards, making them ideal for retrofitting. The chain elements are high-precision injection-molded single plastic parts linked to each other with steel pins. These run engaged over sprockets and idlers on profile guides. Selected chain elements are available in stainless steel.

### Accessories

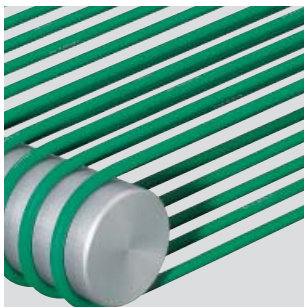
The accessories range includes: multi-hub sprockets, HabiPLAST® extruded and machined profiles, friction inserts for incline conveyors, chain attachments, extended pins or half-round pushers, and much more.



| Key features   | Your benefits  |
|--|--|
| <ul style="list-style-type: none"> <li>• State-of-the-art product quality</li> </ul> | <ul style="list-style-type: none"> <li>→ Long lifetime</li> <li>→ Less downtime</li> <li>→ Reliable operation</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Excellent material properties</li> </ul>    | <ul style="list-style-type: none"> <li>→ Low-friction modules</li> <li>→ Less wear</li> <li>→ Lower power consumption</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Wide range of products</li> </ul>           | <ul style="list-style-type: none"> <li>→ Chains in all standard widths</li> <li>→ Products for different industries and almost every application</li> </ul>                    |
| <ul style="list-style-type: none"> <li>• Special materials available</li> </ul>      | <ul style="list-style-type: none"> <li>→ Low-friction POM as standard</li> <li>→ Materials for chemical resistance, high temperatures and with anti-static features</li> </ul> |

### Habicord round belts

Habasit round belts are highly flexible, directionally adjustable, and multi-directional for angular gears. They can be used for conveying as well as for driving applications. As a result of their elasticity, round belts can be installed without a tensioning device. This allows compact machine designs. In addition, the elasticity acts as a security element by reducing shocks in case of brief overloads. Round belts are highly resilient, and their physical and chemical characteristics are exceptional in many areas: their resistance to hydrolysis is significantly superior to that of most existing polyurethane elastomers. As a result, Habasit round belts are resistant to water, oils, grease and benzene.



| Key features   | Your benefits  |
|--|--|
| <ul style="list-style-type: none"> <li>• Extruded TPU</li> </ul>                       | <ul style="list-style-type: none"> <li>→ Highly flexible</li> <li>→ Multi-directional installation for angular gears and for transport applications</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Hydrolysis and chemical resistance</li> </ul> | <ul style="list-style-type: none"> <li>→ Can be used in wet environments</li> <li>→ Oil-, grease- and benzene-resistant</li> </ul>                               |
| <ul style="list-style-type: none"> <li>• Small production tolerances</li> </ul>        | <ul style="list-style-type: none"> <li>→ Uniform speeds</li> <li>→ Smooth transport</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Easy to join</li> </ul>                       | <ul style="list-style-type: none"> <li>→ Simple joining tools available</li> <li>→ No special knowledge needed</li> <li>→ Fast joining, less downtime</li> </ul> |

|                                      |  | HabaFLOW® fabric-based conveyor belts |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
|--------------------------------------|--|---------------------------------------|---------------|--------------|---------------|--------------|--------------|---------------|---------------|-----------|---------------|-----------|---------------|--------------|---------------|------------|---------------|---------------|-----------|------------|---|
|                                      |  | PVC coated fabric                     |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Application                          |  | NAB-8EEDV 11                          | NAB-10ELDV 11 | NAB-12EEDV11 | NAD-10ESBV 13 | NAG-8EEDV 11 | NAJ-8EEBV 11 | NAJ-10ESBV 13 | NAO-10ELBV 11 | NHB-5EKBV | NHB-10EKBV 11 | NHE-8EBBV | NHM-10EKBV 11 | NHU-8EAAV 11 | NHU-12EAAV 11 | NMB-10ESBV | NSL-10ELBV 11 | NSL-10ESBV 13 | NSW-5ELAV | NAB-12EEDV |   |
| <b>Input stage</b>                   |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Telescopic loader                    |  |                                       |               |              |               |              |              |               |               |           | •             |           | •             |              |               |            |               | •             | •         |            |   |
| Picking section                      |  |                                       |               |              |               |              |              |               |               |           | •             |           | •             | •            | •             |            |               |               |           |            |   |
| <b>Merging, gapping</b>              |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Merge system                         |  |                                       |               |              |               |              |              |               |               |           | •             |           | •             |              |               |            |               |               |           |            |   |
| Accumulation                         |  |                                       |               |              |               |              |              |               |               |           | •             |           | •             |              |               |            |               |               |           |            |   |
| Gapping, acceleration                |  |                                       |               |              |               | •            | •            | •             | •             |           |               |           |               |              |               |            |               | •             | •         | •          | • |
| <b>Identification</b>                |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Check weigher, scale                 |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Scanner labelling                    |  | •                                     | •             | •            |               |              |              |               | •             |           |               | •         |               |              |               |            |               | •             |           | •          |   |
| <b>Induction to sorter</b>           |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Metering                             |  |                                       | •             |              |               | •            | •            |               | •             |           |               |           |               |              |               |            |               |               |           |            | • |
| Induction unit (multi-strand)        |  |                                       |               |              |               | •            | •            | •             | •             |           |               |           |               |              |               |            |               |               |           |            |   |
| Induction unit (single-belt)         |  |                                       |               |              |               |              |              |               |               |           |               | •         |               |              |               |            |               |               |           |            |   |
| <b>Sorter</b>                        |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Cross belt sorter                    |  |                                       |               |              |               |              |              |               | •             |           |               | •         |               |              |               |            |               |               |           |            |   |
| Belt diverter                        |  |                                       |               |              |               | •            | •            | •             | •             |           |               | •         |               |              |               |            |               |               |           |            |   |
| Pop-up sorter                        |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Pusher sorter                        |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| <b>Outfeed, final stage</b>          |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Deceleration                         |  |                                       |               |              |               | •            | •            |               | •             |           |               |           |               |              |               |            |               |               |           |            |   |
| Outfeed system                       |  | •                                     | •             | •            |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| <b>Conveyor sub-systems, modules</b> |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Line belt                            |  | •                                     | •             | •            |               |              |              |               |               |           | •             |           | •             | •            | •             |            |               |               |           |            |   |
| Live roller conveyor                 |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |
| Power turn                           |  |                                       |               |              |               |              |              |               |               |           |               | •         |               |              |               | •          |               |               |           |            |   |
| Inclined/declined                    |  |                                       |               |              |               | •            | •            | •             | •             |           | •             |           | •             |              |               |            |               | •             | •         | •          |   |
| Z-conveyor                           |  |                                       |               |              |               |              |              |               |               |           |               |           |               | •            | •             |            |               |               |           |            |   |
| Mini-conveyor                        |  | •                                     |               | •            |               | •            | •            |               |               | •         |               | •         |               |              |               |            |               |               |           |            |   |
| Pallet handling                      |  |                                       |               |              |               |              |              |               |               |           |               |           |               |              |               |            |               |               |           |            |   |

This application/belt matrix is not complete and serves only as a guide to potential solutions. For detailed material and belt selection, please contact your local Habasit partner: [www.habasit.com](http://www.habasit.com)









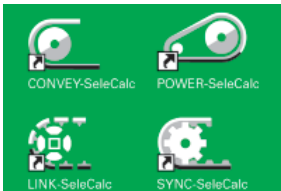
**Comprehensive services are central to Habasit's belting solution approach.**

**As committed partners to our customers, we are dedicated to sharing our knowledge and to providing full support.**



### **Comprehensive consulting and technical support**

Habasit offers the best consulting and technical support on the belting market. Everything revolves around our customers: each affiliate has its own belting experts. The Habasit team is proud to provide the highest levels of support, together with top-quality products that have been leaders on the global market for decades.



### **Assistance with belt selection and calculation**

We will select and calculate the most suitable belt for your specific application. You can also do this yourself with our state-of-the-art Habasit selection and calculation program "SeleCalc". To order this program free of charge, simply call your nearest Habasit partner or contact: [info@habasit.com](mailto:info@habasit.com).



### **Fabrication, assembly and local installation services for quick reaction times**

We make belts endless or assemble modular belts or chains, either at our own locations or on-site directly on your machine or system. Habasit operates over 30 affiliated companies worldwide, each with its own inventory, fabrication, assembly and service facilities. Together with our representative offices and numerous qualified distributors, we can react quickly, competently and reliably to satisfy all your demands.



### **Tools for on-site fabrication**

Because we understand your processes, we can support you with cost-effective, high-quality tools that keep your equipment up and running. In case of emergency our tools will help to minimize breakdown time and support the joining process.



Habasit offers skivers to prepare the belt ends of polyamide power transmission belts and spindle tapes prior to joining. Finger cutting devices to prepare aramide and polyester power transmission belts and TPU spindle tapes are also available. A selection of hot pressing devices to fit your applications and guarantee optimum quality of joining complement the range.

### **Customer training programs**

Habasit offers training programs and provides support tools to ensure optimal use of our products and to prolong their lifetimes. Training on fabrication, installation, assembly, maintenance and belt repair takes place at Habasit sites or at your location.



### **Belt monitoring, inspections, analyses and process optimization proposals**

We organize and handle belt maintenance, inspections, analyses and surveys for your locations. On request we will also work with you to develop optimization proposals, for example, to achieve added value from your machinery or process output.



### **Design assistance for customized solutions**

Habasit believes in partnership. Our engineering team will work closely with your engineers on joint design developments, preferably from a very early stage. We particularly recommend this for projects involving new technologies or large-scale modifications and adaptations.



### Customers first

At Habasit we understand that our success depends on your success. This 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.

Learn more at [www.habasit.com](http://www.habasit.com)

### Committed to innovation

Because our customers' belting challenges and needs never cease, we consistently dedicate a substantial percentage of our employees and resources to the research and development of new products and solutions.

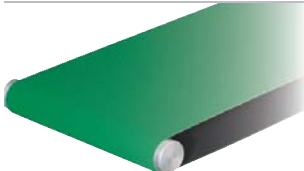
### Certified for quality

We deliver the highest quality standards not only in our products and solutions, but also in our employees' daily work processes. Habasit AG is certified according to ISO 9001:2008.

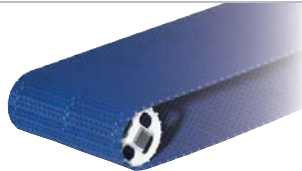


### Worldwide leading product range

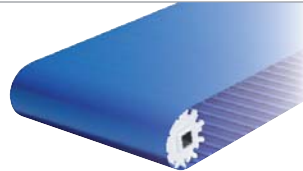
Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is always a specific, tailor-made solution.



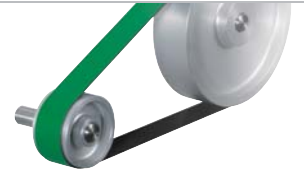
Fabric-based conveyor and processing belts  
**HabaFLOW®**



Plastic modular belts  
**HabasitLINK®**



Positive drive conveyor and processing belts  
**Habasit Cleandrive™**



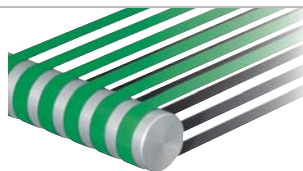
Power transmission belts  
**HabaDRIVE®**



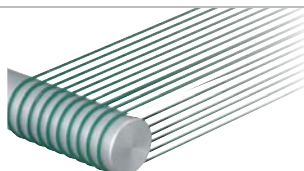
Timing belts  
**HabaSYNC®**



Chains (slat and conveyor chains)  
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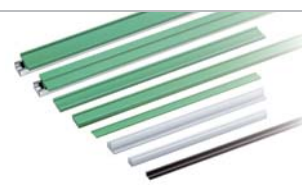
Machine tapes



Round belts



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Profiles, Guides, Wear strips  
**HabiPLAST®**



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