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.
BECAUSE CONDITIONS OF USE ARE OUTSIDE OF HABASIT’S AND ITS AFFILIATED COMPANIES’ CONTROL, WE CANNOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS MENTIONED HEREIN. THIS ALSO APPLIES TO PROCESS RESULTS / OUTPUT / MANUFACTURING GOODS AS WELL AS TO POSSIBLE DEFECTS, DAMAGES, CONSEQUENTIAL DAMAGES, AND FURTHER-REACHING CONSEQUENCES.
Innovation is a key word at Habasit
Habasit has developed an extensive variety of solutions that allow customers to choose the best product for their application. Special focus of all developments is on the increasing hygiene standards within the food industry. Habasit offers products that comply with HACCP principles and guarantee trouble-free and safe food production. Beyond this, to provide additional safety, Habasit has introduced unique products such as HyGUARD® and HabaGUARD® conveyor belts containing antimicrobial additives. Habasit Cleanline® food belts coated with a modified polyolefin and HySAN®, high oil and fat resistant PVC coated belts. Special features offer the TPU non-fray and fray-less belts, which minimize fiber contamination due to their specific fabric construction. Complemental high grade Silicone coated product range.

The extruded positive driven Habasit Cleandrive™ belts enable performance and hygiene upgrades. Additional products like HabasitLINK® plastic modular belts, HabaCHAIN® plastic chains, HabaSYNC® timing belts and accessories like cleats, edge-sealing profiles and side-walls complete the range.

Habasit is the only belt supplier to manufacture and offer the full package of fabric based and plastic modular belts.

More than 60 years of experience
With a comprehensive global network, Habasit is able to respond to any request that you may have with nothing less than an outstanding belting solution of highest quality, tailored to your specific needs.

Focus on bakery and biscuit processing
Whether handling dough, cooling baked products, molding, cutting or packaging, Habasit offers a complete product range for the bakery, biscuit and snack processing industry. This includes all kind of fabric belts and modular belts with different surface finish. Habasit is able to provide dedicated spiral belts for proofing, cooling and freezing. This includes belts for new systems as well as retrofits.

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Process overview

Hearth bread processing

Belt applications
- Dough loader
- Dough divider
- Molder, rounder
- Preproofer
- Final proofer
- Feeding belt
- Round loaf shaping belt
- Cooling conveyor

Bread and bun processing

- Dough divider/rounder
- Spreader conveyor belt
- Linear proofer
- Spiral proofer
- Forming station
- Molder belt
- Transfer conveyor belt

Flatbread line

- Dough divider
- Preproofer
- Proofer
- Sheeter belt
- Transfer conveyor belt
Puff pastry dough processing

Belt applications
- Dough sheeter
- Shortening extruder
- Curling roller
- Guillotine cutter
- Folding station
- Dough conveyor belt
- Gauge roll
- Crossroller
- Reversing conveyor belt

Biscuits manufacturing

- Dough feeder
- Rotary molder
- Feeding belt
- Functional belt
- Cooling belt
- Transfer conveyor belt

Crackers

- Laminator for crackers
- Rotary cutter
- Scrap take away/rework system
- Cooling system
- Rework conveyor belt

Remark: The drawings are schematic examples of selected applications/processes. The drawings do not claim completeness. Due to the complexity of various processes, technical requirements and decisive external influences (e.g. nature or property of transported goods, process speed, steps of treatment/handling, environment or process temperature, humidity, chemicals, additives, ingredients, recipes, etc.) there are many possible solutions.
Baked, salty snacks and direct expanded snacks

Belt applications
- Dough sheeter
- Folding device
- Inclined belt
- Transfer belt
- Process belt

- Proofer
- Transfer belt
- Tray loader/unloader
- Spreader belt
- Cooling conveyor

Remark: The drawings are schematic examples of selected applications/processes. The drawings do not claim completeness. Due to the complexity of various processes, technical requirements and decisive external influences (e.g. nature or property of transported goods, process speed, steps of treatment/handling, environment or process temperature, humidity, chemicals, additives, ingredients, recipes, etc.) there are many possible solutions.
**The right choice**

Habasit has developed an extensive variety of solutions that allow customers to choose the best product for their specific application. Habasit is the only belt supplier to manufacture and offer the full package from fabric based and plastic modular belts to accessories.

### Fabric-based/coated conveyor belts

- Fabric coated
- TPU coated
- TPO coated
- PVC coated
- Silicone coated
- Non-woven belts

### Plastic modular belts HabasitLINK®

- PP (Polypropylene)
- PE (Polyethylene)
- POM/AC (Polyoxymethylene/Acetal)
- PA and high temperature materials
- Please consult brochures 4128 and 4178

### Habasit Cleandrive™

- Extruded positive driven and flat conveyor belts made of abrasion- and hydrolysis-resistant TPU, which can be combined with a comprehensive range of accessories.

- Please consult brochure 4238

### HabaSYNC® timing belts

- Polyurethane with steel cord or aramide tensile member.
- Belts with special covers

- Please consult brochures 4107, 4246 and 4282

### HabaCHAIN® slat and conveyor chains

- POM/AC (Polyoxymethylene/Acetal)
- Glass reinforced PP
- Special materials

- Please consult brochure 4122

### Special solutions

#### HyCLEAN CIP

A modular, customized Cleaning-In-Place system (CIP) for the reliable and efficient cleaning of plastic modular belts. (EHEDG certified)

- Please consult brochure 4317
Food conveyor belt surfaces
To fulfill a specific process step or a defined function the belt surface plays a key role. Based on surface structure and material inherent properties a multitude of function possibilities are given. See below some examples of the large variety of surface structures and properties.

Fabric based belts
- Blank surface (smooth white)
- Blank surface (smooth blue)
- Fabric surface
- Saw tooth profile structure
- Waffle structure
- Quadrillé (quadrangular) pattern/structure

Available belt surface properties
- Super adhesive
- Adhesive
- Medium adhesive
- Non-adhesive

Plastic modular belts
- Flat Top 0.5"
- Micropitch Flat Top 0.3"
- Flush Grid 0.5"
- Radius Flush Grid 1"
- Diamond Top 1"
- Texture Top 0.5"

Positive drive belts
- Habasit Cleandrive™

Timing belts
- HabaSYNC®

Round belts
- Habiblue
Habasit's belting solutions deliver improved efficiency in conveying and processing, of industrial bakery products.

### Key features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
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</thead>
</table>
| **Fabric-based/coated conveyor belts** | • Abrasion- and temperature-resistant coatings  
• Dedicated fabric construction e.g. frayless and non-fray  
• Specific coatings for improved release and oil/fat resistance | → Reliable performance and long belt service life  
→ Reduced risk of product contamination  
→ Increased production output and waste reduction  
→ Improved hygiene conditions |
| **HabasitLINK® plastic modular belts** | • Robust design and dedicated surfaces for conveying of bakery goods  
• Broad selection of materials | → Reliable product handling and conveying  
→ Good release and yield increase  
→ Belts for elevated temperature, proofing, cooling, freezing and for spiral systems |
| **Habasit Cleandrive™** | • Closed homogeneous surface  
• Continuous drive bars over entire belt width  
• Longitudinal reinforcement  
• Abrasion- and hydrolysis-resistant TPU | → Innovative combination of homogeneous surface and positive drive  
→ No gaps or hinges  
→ Easy to clean  
→ No creep, dimensional stability  
→ Reliable sprocket engagement  
→ Excellent chemical resistance |
| **HabaSYNC® timing belts** | • Improved design and materials for wet and humid applications  
• Ability to apply special coatings | → Precise positioning and conveying of goods  
→ Easy to clean surfaces  
→ Excellent chemical resistance  
→ Various surface finishes for specific tasks in application |
| **HabaCHAIN® plastic chains** | • Various belt styles for radius and straight conveying  
• Wear-resistant and low-noise/low-friction materials | → Positive drive and low tension  
→ Reliable and versatile conveying of packed goods or trays/panes |
| **HyCLEAN CIP system** | • Works with low water pressure  
• Outside spray tube  
• Idle spray bar with nozzles  
• Edge cleaning nozzles | → Fast and efficient cleaning and reduced water consumption  
→ Cleans entire belt conveying side  
→ Cleans hinge area and reverse side, exactly when hinges are most open  
→ Cleans the belt edges and especially the rod head and retention system |
This application/belt matrix does not apply to be complete and shall serve as indication of potential solutions.
For detailed material and belt selection please contact your local Habasit partner: www.habasit.com

<table>
<thead>
<tr>
<th>Application table</th>
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<tbody>
<tr>
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<tr>
<td>FNT2M</td>
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<tr>
<td>Hearth bread processing</td>
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<tr>
<td>Dough loader</td>
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<tr>
<td>Dough divisor / feeder belt</td>
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<tr>
<td>Moulder/rounder</td>
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<td>Oven take-off</td>
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<td>Bread and bun processing</td>
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<td>Spreader conveyor</td>
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<tr>
<td>Belt proofer</td>
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<tr>
<td>Moulder/forming station</td>
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<tr>
<td>Transfer conveyor (sprinkler)</td>
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<tr>
<td>Oven infeed</td>
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<td>Oven take-off</td>
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<td>Cooling conveyor</td>
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<td>Freezing line</td>
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<tr>
<td>Slicing/bun cutting</td>
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<tr>
<td>Pan return conveyor</td>
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<tr>
<td>Puff pastry processing</td>
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<tr>
<td>Dough conveyor (sheeter/extruder/curling)</td>
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<td>Cross roller line</td>
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<tr>
<td>Transfer conveyor</td>
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<tr>
<td>Gauge roll/calibration</td>
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<tr>
<td>Folding station/reversing conveyor</td>
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<td>Oven infeed</td>
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<td>Biscuit and cracker manufacturing</td>
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<td>Dough feeder</td>
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<tr>
<td>Rotary cutter</td>
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<tr>
<td>Enrobing/icing</td>
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<tr>
<td>Processing belt</td>
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<td>Transfer belt</td>
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<tr>
<td>Corn/potato and direct expanded snacks</td>
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Note: The table represents a list of products and their corresponding colors or properties, but the specific details are not provided in the text.
## Application table

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<table>
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<th>PVC belts HySAN®</th>
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<td></td>
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<td>CM100FBS Cottonmate</td>
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</table>

### Hearth bread processing
- Dough loader
- Dough divider / feeder belt
- Moulder/rounder
- Proofer/pre-proofer
- Oven infeed
- Oven take-off
- Cooling conveyor/lines

### Bread and bun processing
- Spreader conveyor
- Belt proofer
- Moulder/forming station
- Transfer conveyor (sprinkler)
- Oven infeed
- Oven take-off
- Pan dump conveyor
- Cooling conveyor
- Freezing line
- Slicing/bun cutting
- Pan return conveyor

### Puff pastry processing
- Dough conveyor (sheeter/extruder/curling)
- Cross roller line
- Transfer conveyor
- Gauge roll/calibration
- Folding station/reversing conveyor
- Cross roller line
- Oven infeed
- Oven take-off
- Cooling conveyor

### Biscuit and cracker manufacturing
- Dough feeder
- Rotary moulder
- Sprinkler/depositor
- Laminator line
- Rotary cutter
- Scrap/rework line
- Oven infeed
- Oven take-off
- Cooling conveyor
- Enrobing/icing

### Baked and salty snacks
- Processing belt
- Inclined belt
- Spreader belt
- Transfer belt

### Corn/potato and direct expanded snacks
- Feeding belt
- Inclined belt
- Transfer belt

### Flatbread processing
- Processing belt
- Rework belt
- Proofer belt
- Pooling belt

### Other bakery applications
- Spiral/radius belt/powerturn
<table>
<thead>
<tr>
<th>Nonwoven belts</th>
<th>Plastic modular belts HabasitLINK®</th>
<th>Extruded TPU belts Habasit Cleandrive™</th>
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<td>CM200PBS Cottonmate</td>
<td>M1200 Flat Top</td>
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<td>M2543 Tight Radius</td>
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<td>M5290 Radius Flush Grid</td>
<td>CT610 R Radius Curved Top</td>
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<td>M5293 Tight radius</td>
<td>IS610 R Radius Flush Grid</td>
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</table>
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 and 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 also may 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.

**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.

**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 the 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 on www.habasit.com

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 8% 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 AG 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, 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)
HabaCHAIN®

Machine tapes

Round belts

Seamless belts

Profiles, Guides, Wear strips
HabiPLAST®

Fabrication tools (joining tools)

Gearmotors
Electric motors
Motion control
Rossi is one of Europe’s largest manufacturers of gear reducers, gearmotors, inverters, standard and brakemotors, and is a member of the Habasit Group.

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