

Conveyor and Processing Belts for the Beverage Industry

Habasit – Solutions in motion



The Beverage Industry includes several segments, from the production of PET and glass bottles, cans or cartons, the filling of beverages and liquids to packing and case handling. All these processes have one thing in common: Conveyor belts build an essential part of the production line right from the start until the end, when the finished goods leave the factory.

Various types and sizes of conveyor and processing belts link the different stages of production and ensure the operational reliability and efficiency of the whole plant.

Habasit offers belting solutions for:

- Bottle filling
- Liquid carton box production and filling
- Can filling
- Case packing and handling

The variety of belts

Habasit offers the appropriate belts for all kinds of applications, including separation or accumulation, vacuum conveyors, capping machines, mass handling, case packing and handling, inclined and declined conveyors, palletizing and general conveying.

Product range for the beverage industry:

HabasitLINK® plastic modular belts support smooth transport of beverage packages and has reduced noise-emission in comparison to steel chains.

HabaCHAIN® plastic conveyor chains guarantee trouble-free transport.

HabiPLAST® extruded and machined profiles support the beverage industry at many stages.

HabaFLOW® Fabric belts with different coatings, perfect solutions for many beverage applications, e.g. shrink-wrapping or case handling.

GRABBER® Rubber coated seamless belts with proven quality for capping applications.

Gearmotors and gear reducers from Rossi Motoriduttori.

Contents

Introduction	2-3
Process / Application Overview (schematic)	
• Bottle Filling	4-5
• Liquid Carton Production and Filling	6-7
• Can Filling	8-9
• Case Packaging and Handling	10
Variety of Product Ranges	11
Beverage Applications and Possible Belt Types	12
Further Product Information – The Habasit Website	13
Variety of Belt Surfaces / Styles	14-15
Features and Benefits	
• HabaCHAIN® Plastic Slat and Flex Chains	16
• HabasitLINK® Modular Belts	17
• HabiPLAST® Extruded Machined Profiles	18
• TPU Coated Belts	19
• Rubber Coated Belts	19
Additional Products	20
Services	21-22
The Habasit Solution	23



Quality is a key word at Habasit

Industrial food and beverage processing requires a wide range of synthetic conveyor and processing belts. Habasit has developed a comprehensive variety of solutions that allow customers to choose the best product for their specific application. To meet the ever-increasing demands of hygiene standards Habasit has developed unique products for the Food & Beverage Industry. All Habasit food conveyor and processing belts are fully approved for food contact according to the regulations of FDA, USDA, and EU Directive 2002/72/EC.

Process and industry know-how, a complete product range, new wear resistant materials and an exceptional construction design guarantee trouble-free and safe food production and products that comply with HACCP principles.

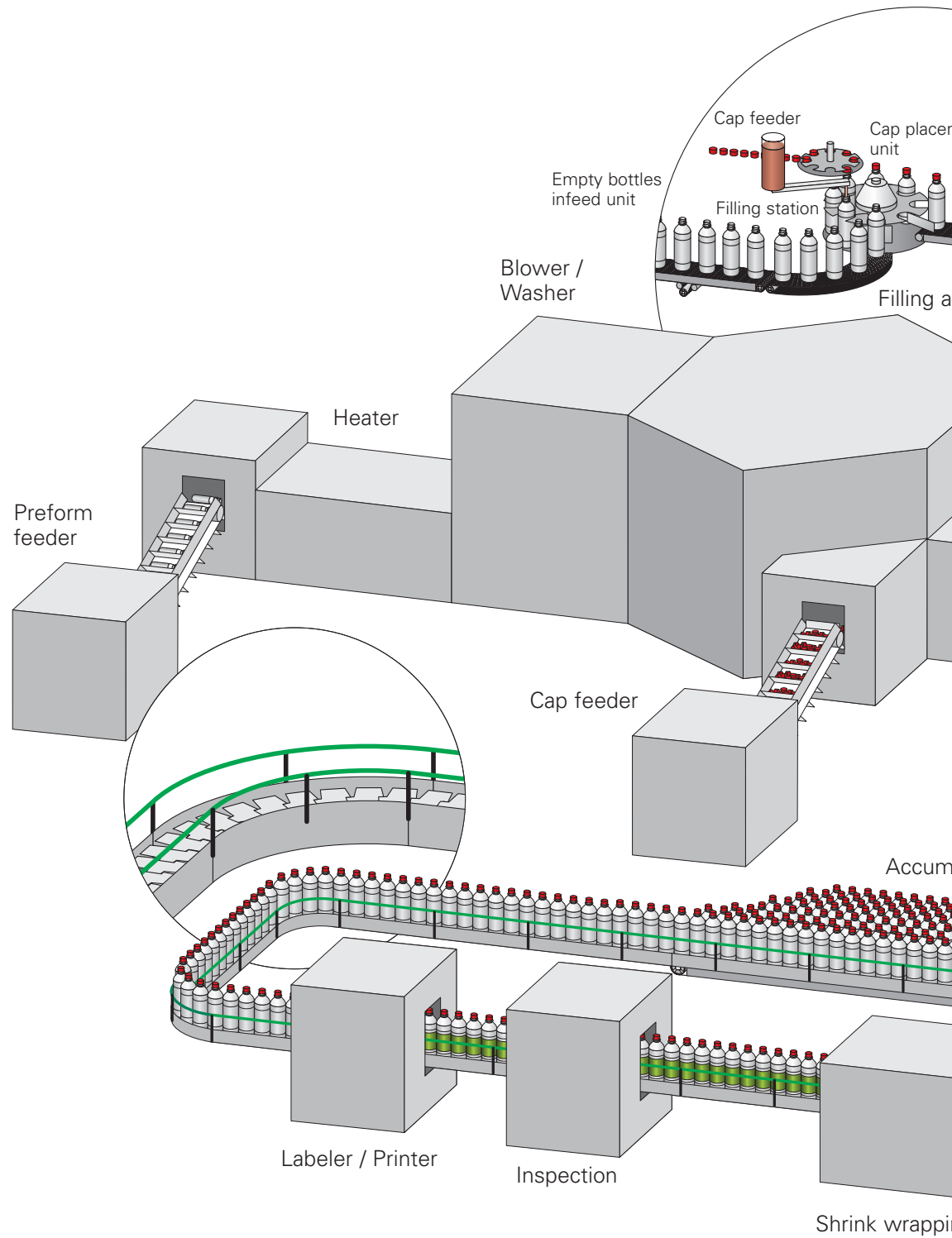
More than 60 years of experience

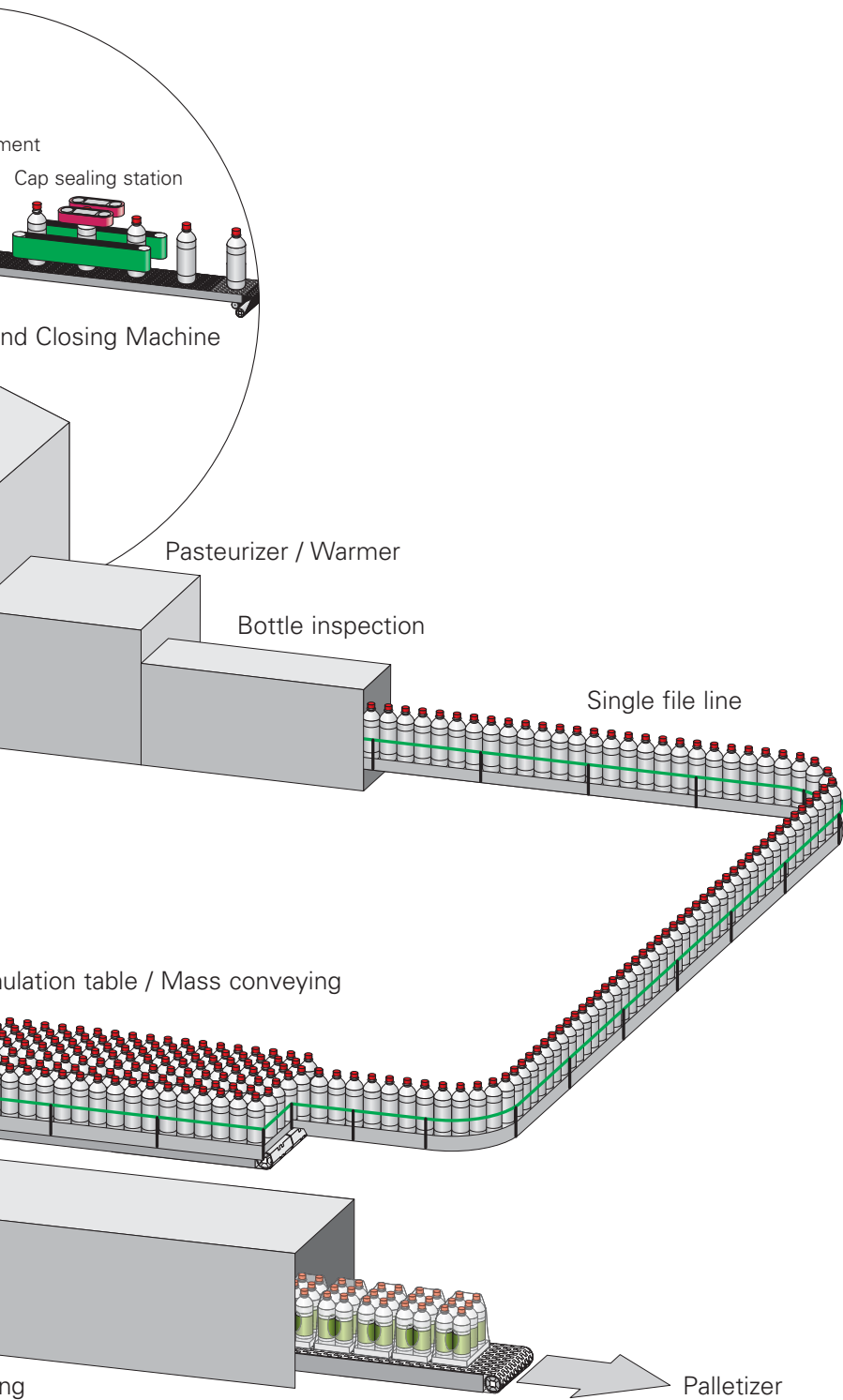
Due to a comprehensive global network, Habasit is able to respond to any request that you may have with nothing less than an outstanding belting solution of highest quality, tailored to your specific needs.



Process / Application Overview (schematic)

Bottle Filling

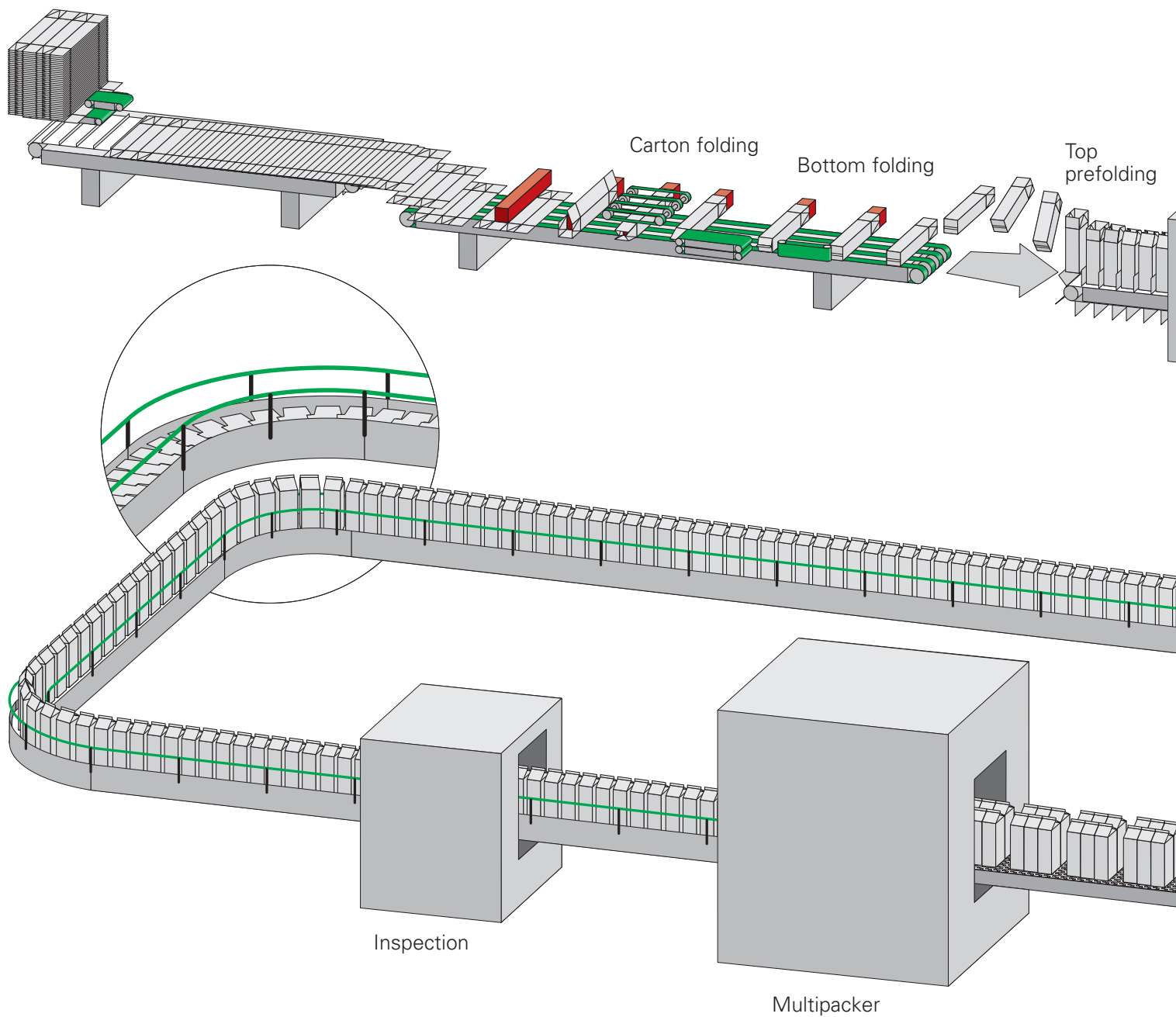


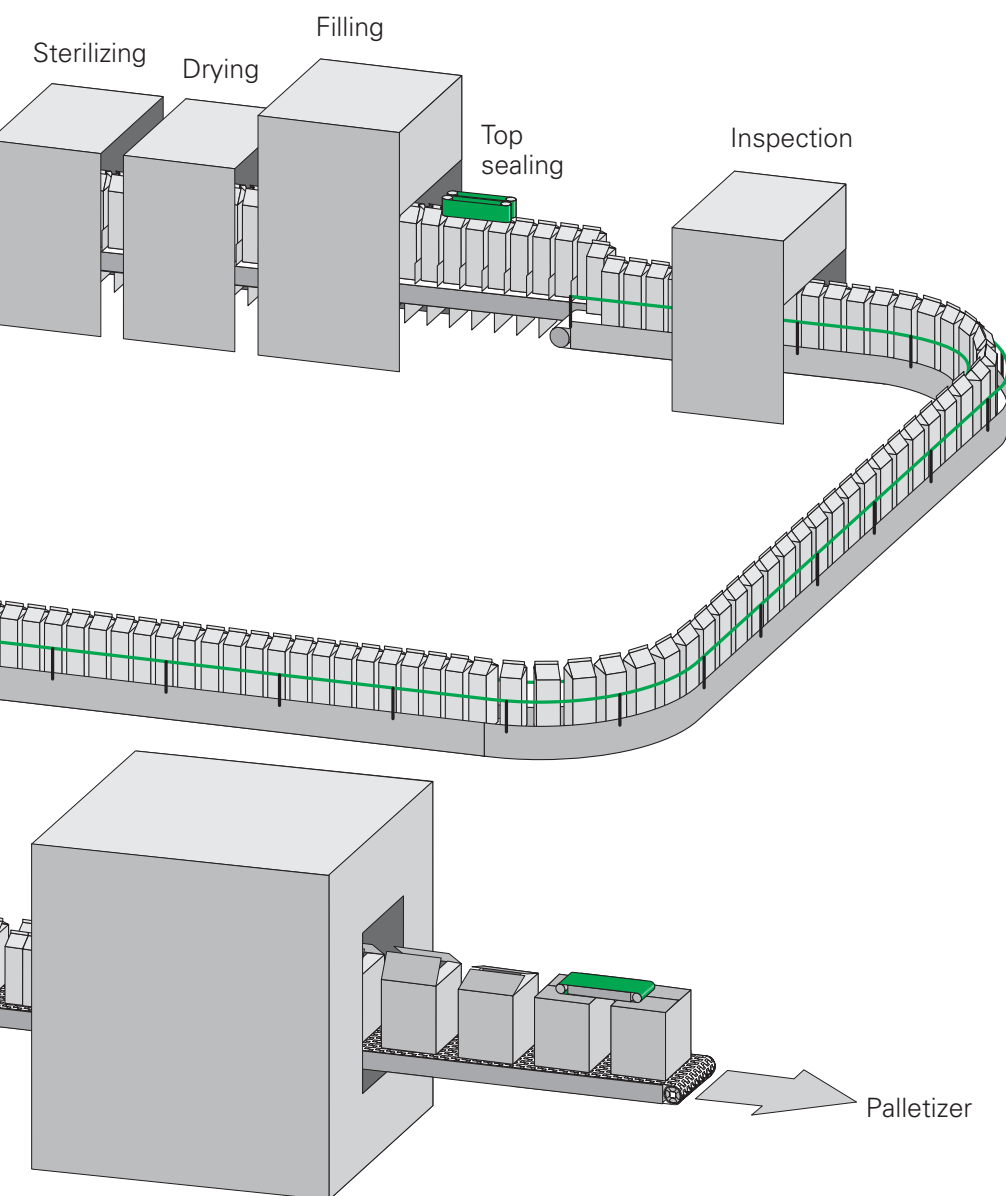


Remark: The drawings are schematic examples of selected applications / processes. The drawings do not claim completeness. The belt recommendations (use / application / layout) are only general suggestions. Due to the complexity of various processes, technical requirements and decisive external influences (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.

Process / Application Overview (schematic)

Liquid Carton Production and Filling

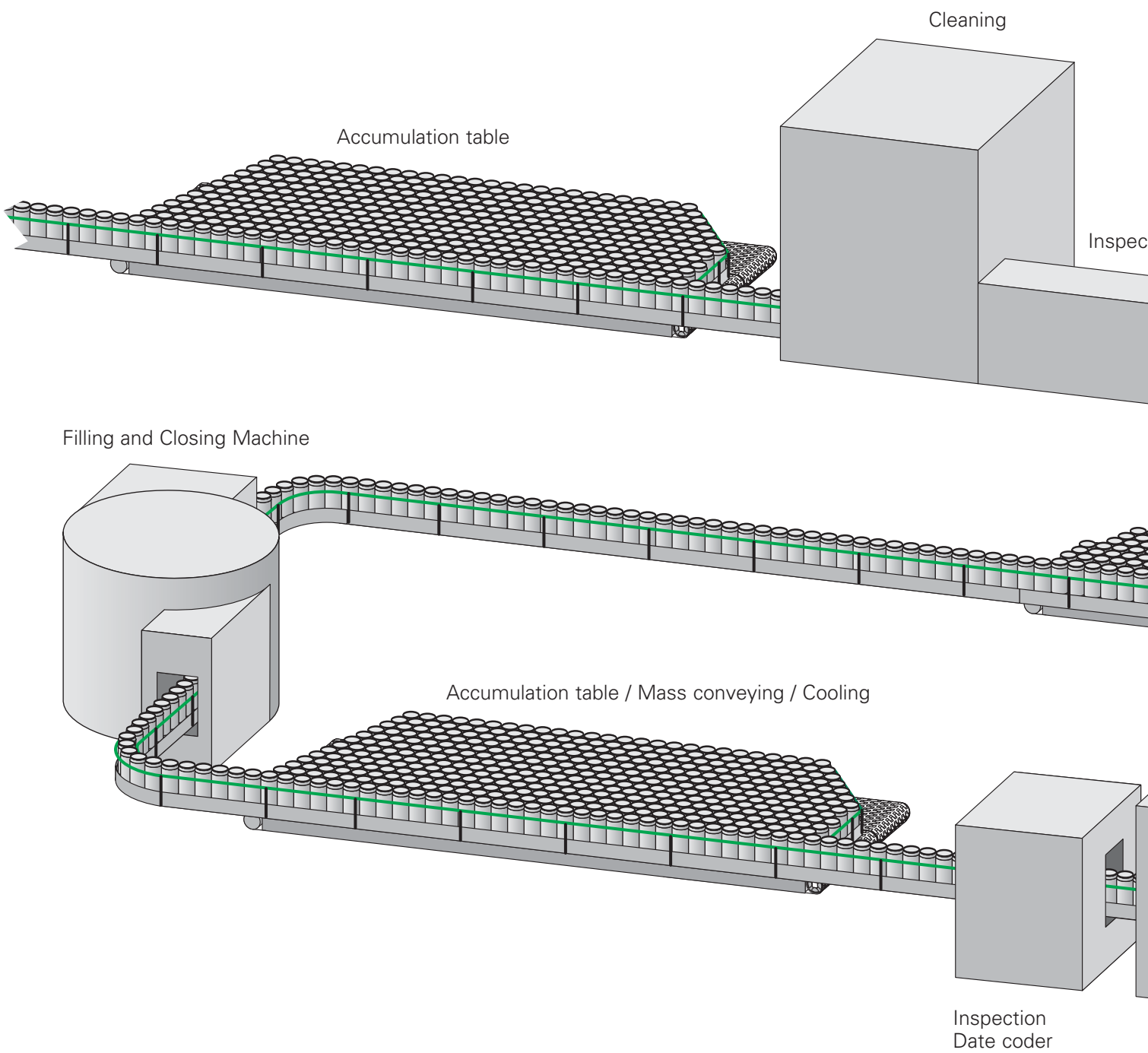


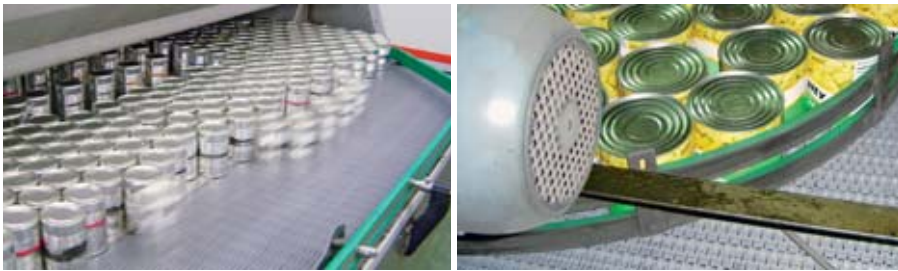


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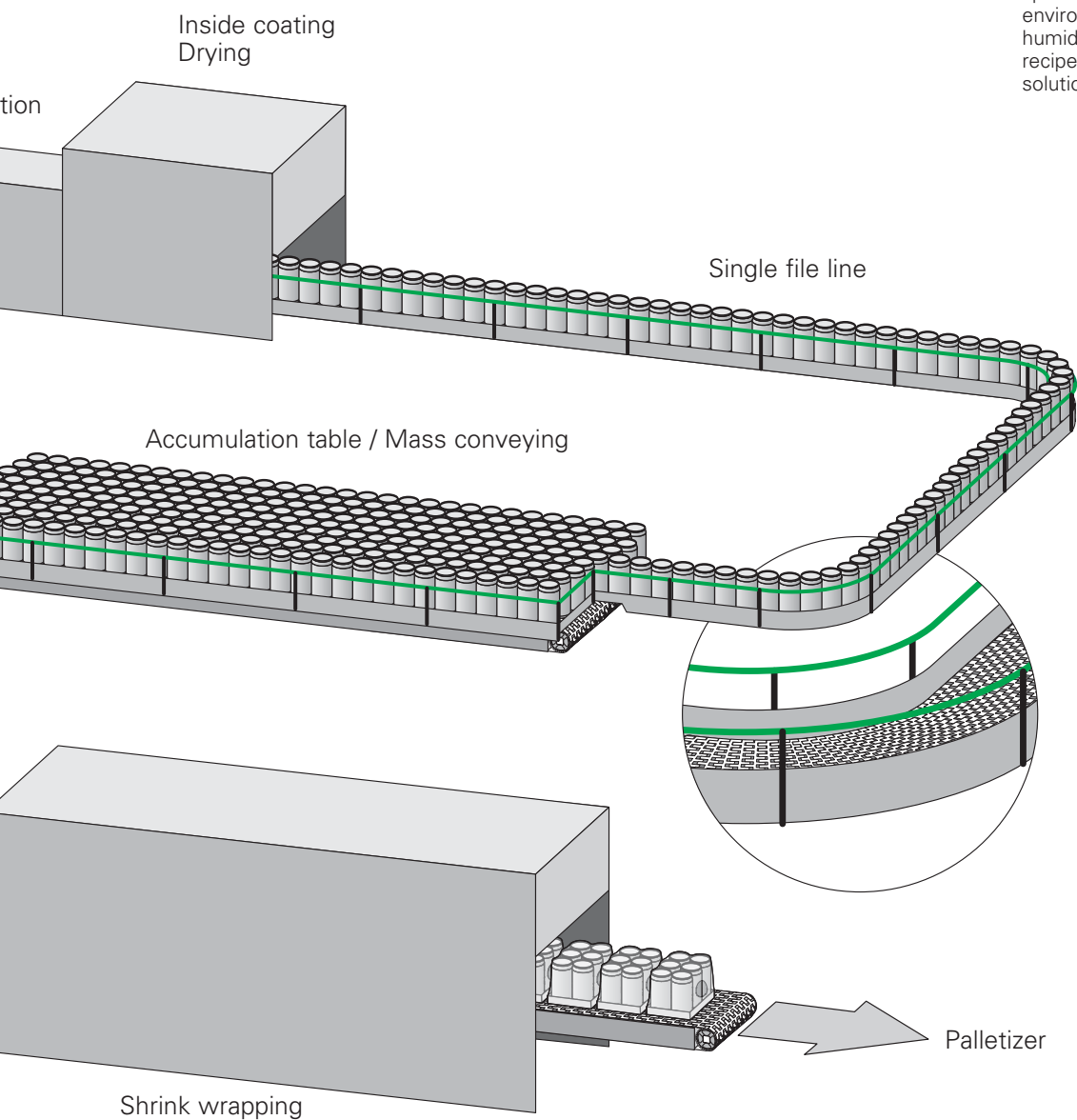
Process / Application Overview (schematic)

Can Filling



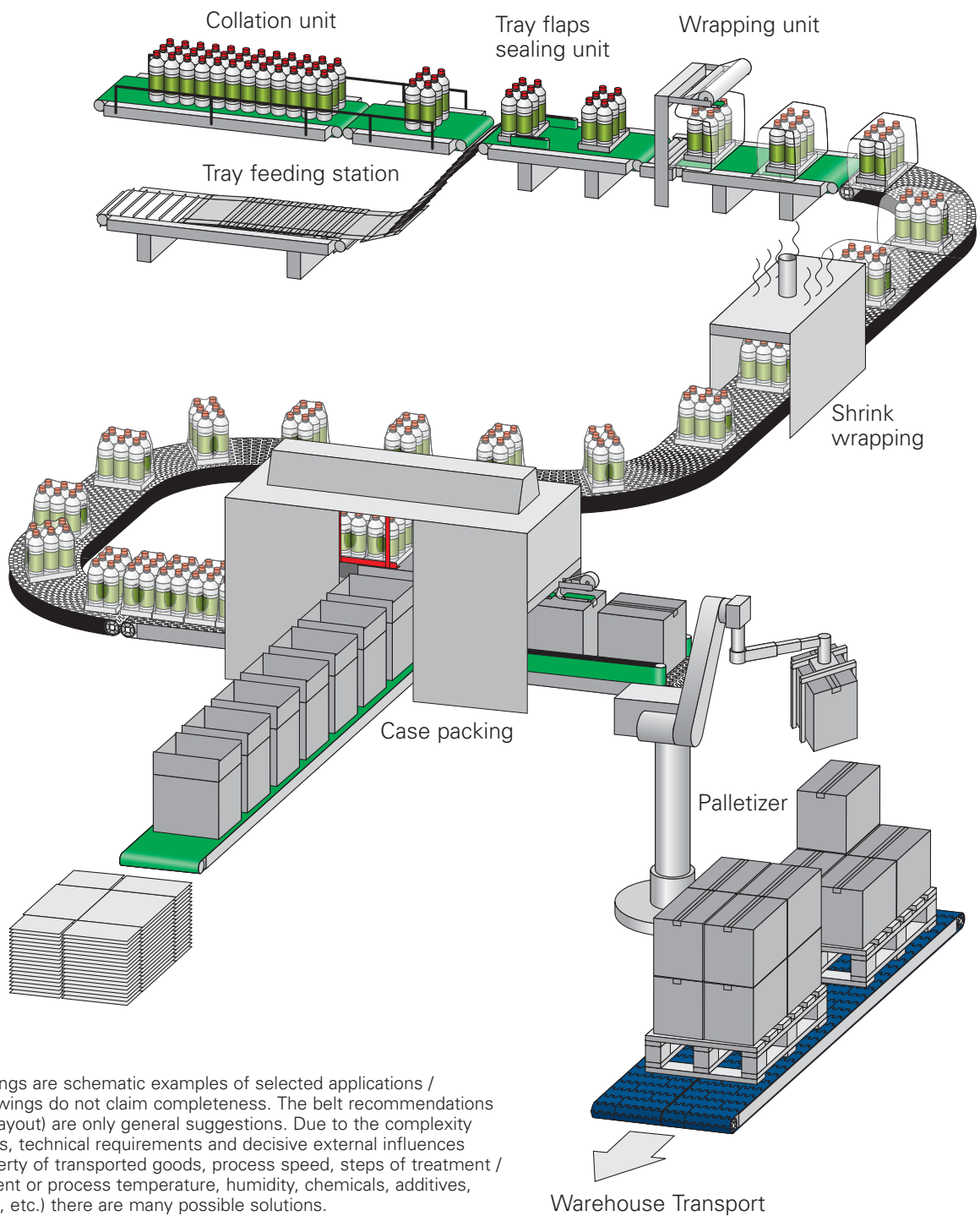


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Process / Application Overview (schematic)

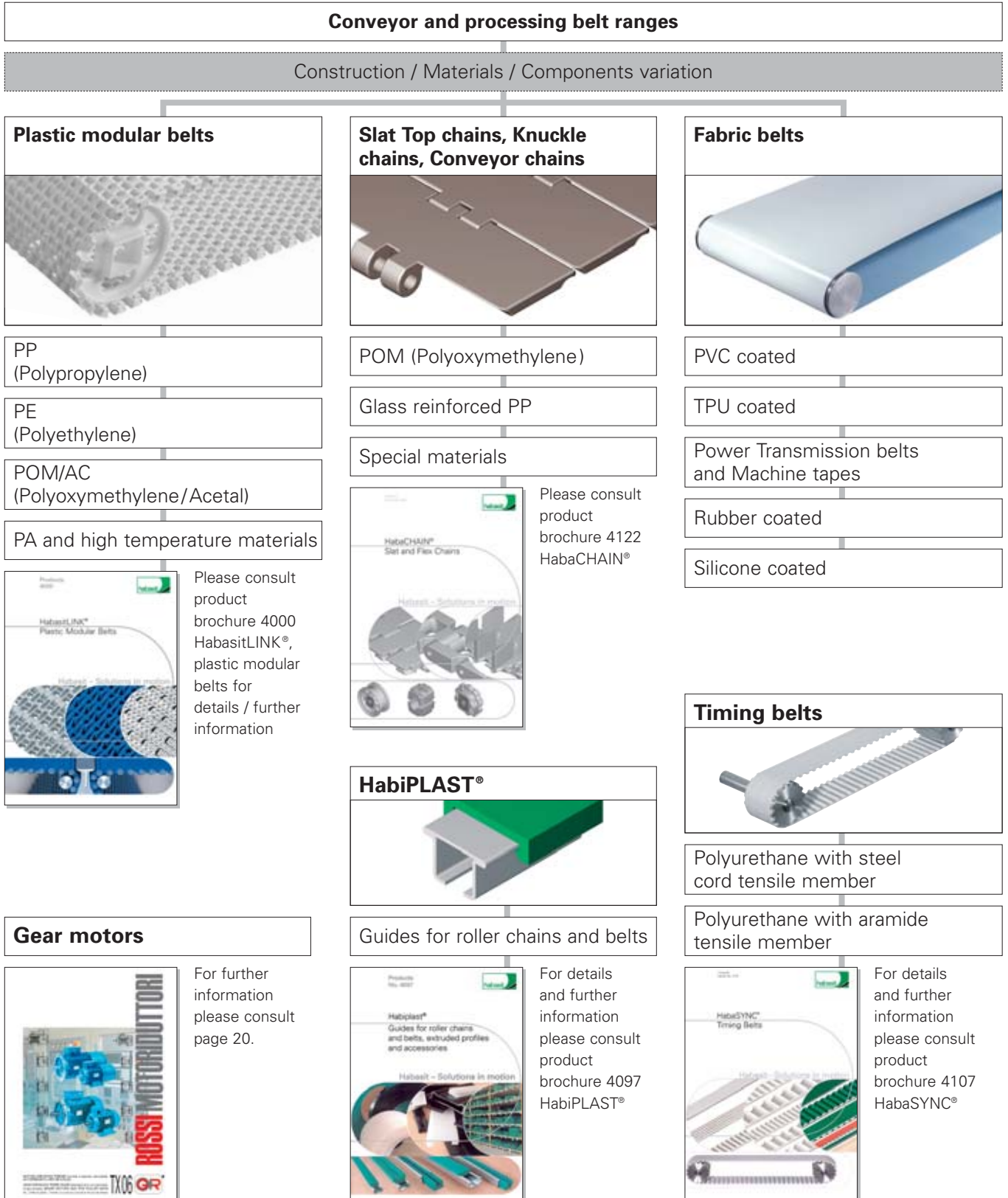
Case Packaging and Handling



Remark: The drawings are schematic examples of selected applications / processes. The drawings do not claim completeness. The belt recommendations (use / application / layout) are only general suggestions. 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

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



Beverage Applications and Possible Belt Types (selected Types only)

Belt Type	Bottling										Liquid Carton filling				Can filling				Case packing and handling						
	General conveying	Accumulation tables	Mass conveying	Cap feeding	Capper	Single file lines	Pasteurizer / Warmer	Labeller / Printer	Shrink wrapping	Check weighing	Accumulation box	Palletizing / Depalletizing	Carton making and folding	General conveying	Palletizer	Mass conveying	Vacuum applications	Washer	Accumulation tables	Palletizing / Depalletizing	General conveying	Box packing/coding	Shrink wrapping	Packing	Palletizing
Plastic modular belts																									
M1220 Flat Top	•	•	•						•				•	•	•			•	•					•	
M1220 GripTop																							•		
M1230 Flush Grid	•	•	•						•				•	•	•	•			•	•			•	•	•
M2420 Flat Top	•	•	•						•				•	•	•		•	•	•				•	•	•
M2470 Flat Top	•	•	•						•				•	•	•		•	•	•				•	•	•
M2520 Flat Top	•	•	•						•				•	•	•		•	•	•				•	•	•
M2520 GripTop																							•		
M2520 Roller Top																							•		
M2531 Raised Rib		•							•									•	•				•		
M2533 Flush Grid			•						•				•			•	•	•					•	•	•
M2533 GripTop																							•		
M2533 Roller Top																							•		
M2540 Radius Flush Grid																							•		
M2540 Radius Grip Top																							•		
M2540 Roller Top																	•						•		
M2543 Tight Radius																							•		
M2585-S Flush Grid																							•		
M2585-P Flush Grid																	•						•		
M2620 Flat Top Heavy Duty	•	•	•						•				•	•	•		•	•					•	•	•
M2620 GripTop																							•		
M2670 Flat Top Heavy Duty	•	•	•						•				•	•	•		•	•					•	•	•
M3840 Radius Flush Grid																							•		
M3840 Roller Top																		•					•		
M3843 Tight Radius																							•		
M3843 Tight Radius GripTop																							•		
M5020 Flat Top Heavy Duty			•																				•		
M5032 Flush Grid Heavy Duty																							•		
M5032 Roller Top Heavy Duty																							•		
M5131 Raised Rib		•							•								•						•		
Plastic Chains																									
Slat Top 820 (straight)	•	•	•						•				•	•	•		•	•					•	•	•
Slat Top 821 (straight)	•	•	•						•				•	•	•		•	•					•	•	•
Slat Top 831 (straight)	•	•	•						•				•	•	•		•	•					•	•	•
Slat Top 879 Tab (radius)	•	•	•						•				•	•	•		•	•					•	•	•
Slat Top 880 Tab (radius)	•	•	•						•				•	•	•		•	•					•	•	•
Slat Top 882 Tab (radius)	•	•	•						•				•	•	•		•	•					•	•	•
Roller Top 821 (straight)	•								•				•	•	•		•	•					•	•	•
Roller Top 882 (radius)	•								•				•	•	•		•	•					•	•	•
High thickness 1060 (radius)	•												•	•	•		•	•					•	•	•
Knuckle Chain 3200 (straight)	•												•	•	•		•	•					•	•	•
Knuckle Chain 3210 (radius)	•												•	•	•		•	•					•	•	•
Conveyor 7100	•												•	•	•		•	•					•	•	•
Grip Top Chains	•												•	•	•		•	•					•	•	•
Impregnated / coated fabric belts																									
FNI-5E		•																							
FNB-5E	•																								
FAB-5E	•																								
FAW-5E	•																								
F-5EXWT	•																								
TT12/AS Matt White Frayless	•																								
TT140/AS	•																								
HAR-12E																									
HAL-12E	•																								
SAG-12E	•																								
NAB-8EXDV	•																								
NAB-12EXDV	•																								
NAB-18EXDV	•																								
NAG-8EXDV	•																								
NVT-158																									
SNB-8E	•																								
SAB-8E	•																								
Grabber belts				•																					
Power transmission belts																									
CM-14/40F												•													
TC-20EF												•													
S-14/40D												•													
S-10/40												•													

The application / belt matrix do not claim completeness and serves as a possible solution. For details / further information please contact your local Habasit partner.

Further Product Information The Habasit Website

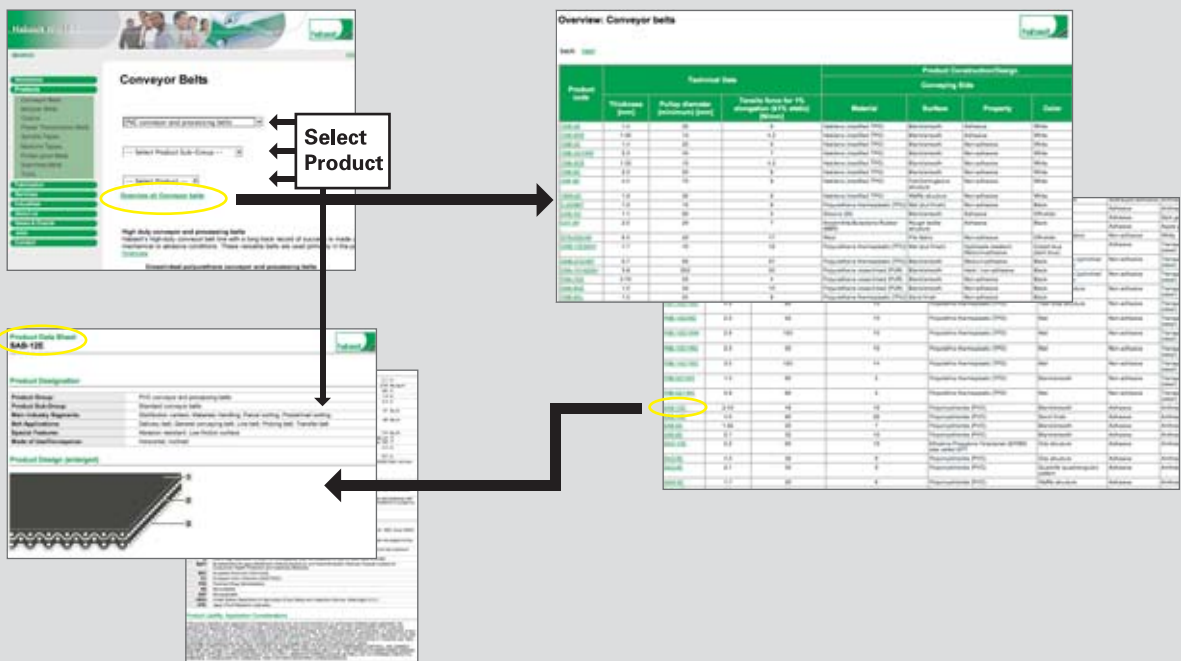
Product / use / application description, key data, detailed technical data, engineering hints you find on:

www.habasit.com or **www.HabasitLINK.com**

Main page:
Select for
example
**CONVEYOR
BELTS**



Product
overview /
series



Food conveyor belt surfaces

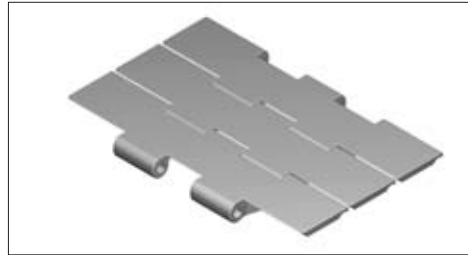
To fulfill a specific process step or a defined function the belt surface plays a key role. Based on surface structure and material inherent properties a multitude of function possibilities are given. See below some examples of the large variety of surface structures and properties.

Illustrations: Product view from top

Plastic chains



Slat Top 820 (straight)



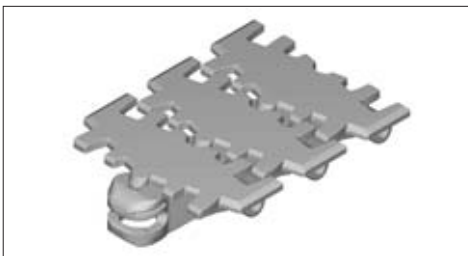
Slat Top 821 (straight)



Slat Top Tab (radius)



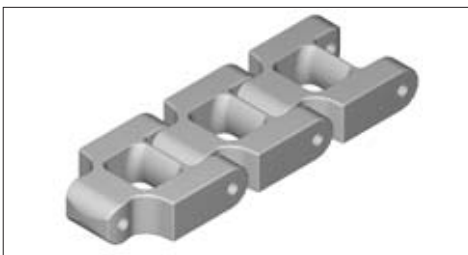
Slat Top (radius)



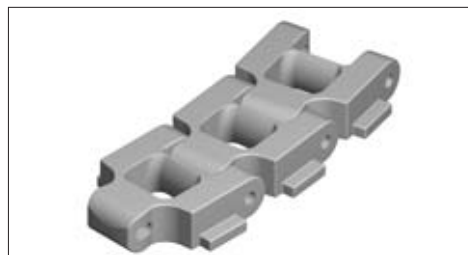
Conveyor Chain



Conveyor Chains (Grip Top)



Knuckle Chain (straight)



Knuckle Chain (radius)



Straight Low Backline Pressure Chain

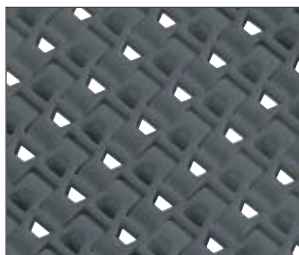


Radius Low Backline Pressure Chain

Plastic modular belts



Flat Top 0.5"



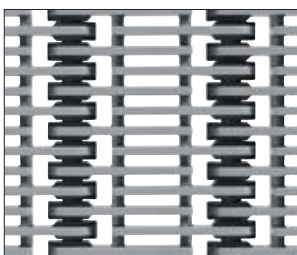
Flush Grid 0.5"



Flat Top 0.5"
Heavy Duty



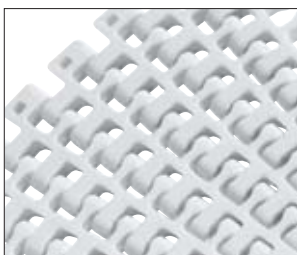
Flush Grid 1"



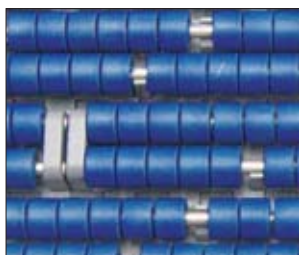
Raised Rib



GripTop 1"



Radius Flush Grid 1"



Low Backline Pressure

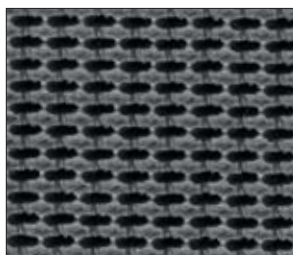
Fabric based belts



Blank surface
(absolutely smooth)



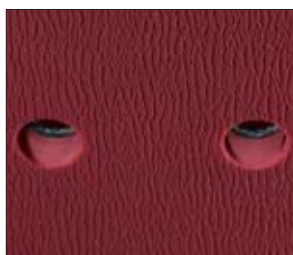
Blue surface
(absolutely smooth)



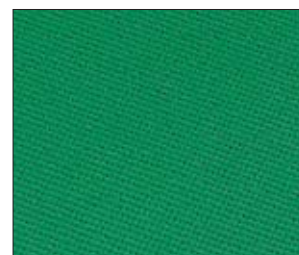
GripTop



GripTop



Rubber coated
Grabber®



Rubber coated

HabaCHAIN® Plastic Slat and Flex Chains

Plastic chains

HabaCHAIN® is a high-quality range of new slat- and flat chain products from Habasit. HabaCHAIN® products are suitable for a wide range of applications in beverage, bakeries, packaging and many other industries.



	Features	Benefits
	<ul style="list-style-type: none"> • Positive drive and tracking • Precision of molds 	<ul style="list-style-type: none"> → Suitable for various food products and packages → Wear resistance → Less noise generation
	<ul style="list-style-type: none"> • Radius and straight transport • Robust design • Precision of molds 	<ul style="list-style-type: none"> → In general for light- and medium-weight transport of goods → Wear resistance → Less noise generation
	<ul style="list-style-type: none"> • Suitable for linear and curve conveying on aluminum modular structure • GripTop types available • Precision of molds 	<ul style="list-style-type: none"> → Retrofit on existing systems possible → Wear resistance → Less noise generation
	<ul style="list-style-type: none"> • Reduced back pressure • Accumulation of products 	<ul style="list-style-type: none"> → Less product damage → Less power consumption → Less noise generation (Also available as Radius Low Backline Pressure Chain)
	<ul style="list-style-type: none"> • Interchangeable hubs 	<ul style="list-style-type: none"> → Reduce the need for stock → Allows a greater flexibility

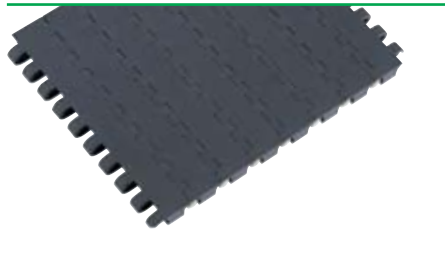



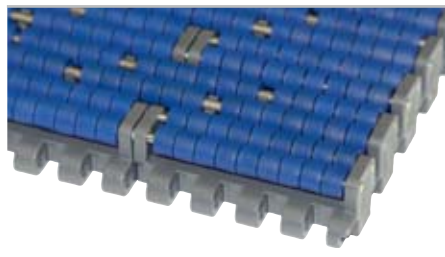
Features and Benefits

HabasitLINK® Modular Belts

Plastic modular belts

Based on our comprehensive experience and our leadership position in fabric belting, Habasit has developed the HabasitLINK® modular belts range. Completely ejector mark free surfaces, rounded edges, smooth designs stand for state-of-the-art hygienic modular belting. Where lubrication and downtime needs to be reduced to a minimum, modular belts are the preferred solution.



	Features	Benefits
	<ul style="list-style-type: none"> • Excellent Flat surface structure • Rounded edges • Strong link design • High strength 	<ul style="list-style-type: none"> → Smooth running at high speed → Virtually no container dipping → Virtually no belt breakage, even with broken glass (M2620 / M2670) → Downtime reduction
	<ul style="list-style-type: none"> • Radius and straight transport with one single belt 	<ul style="list-style-type: none"> → Larger runs without transfers → Smaller number of drives and motors → Reduced cost for entire system
	<ul style="list-style-type: none"> • Active transfer 	<ul style="list-style-type: none"> → Smoother transfers → No container dipping → Self clearing even for smallest containers and 90° turns with either ActiveXchange or magnetic chains (1060)
	<ul style="list-style-type: none"> • Double teeth sprocket design 	<ul style="list-style-type: none"> → Double row lug sprocket suitable for heavy loads (M2620 / M2670) → Abrasion resistant PA material → Reverse side with small openings → Less space for broken glass
	<ul style="list-style-type: none"> • Noise and vibration absorbent materials 	<ul style="list-style-type: none"> → Low noise → Smooth running

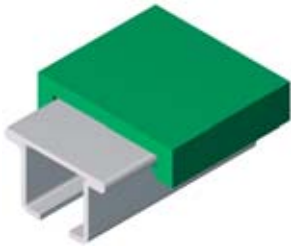
HabiPLAST® Extruded and Machined Profiles

HabiPLAST® extruded and machined profiles are the ideal complement for HabsitLINK® modular belts and HabaCHAIN® plastic chains. These products are widely used in bottling, packaging and many other food industries. In the bottling industry, HabiPLAST® profiles are used as:

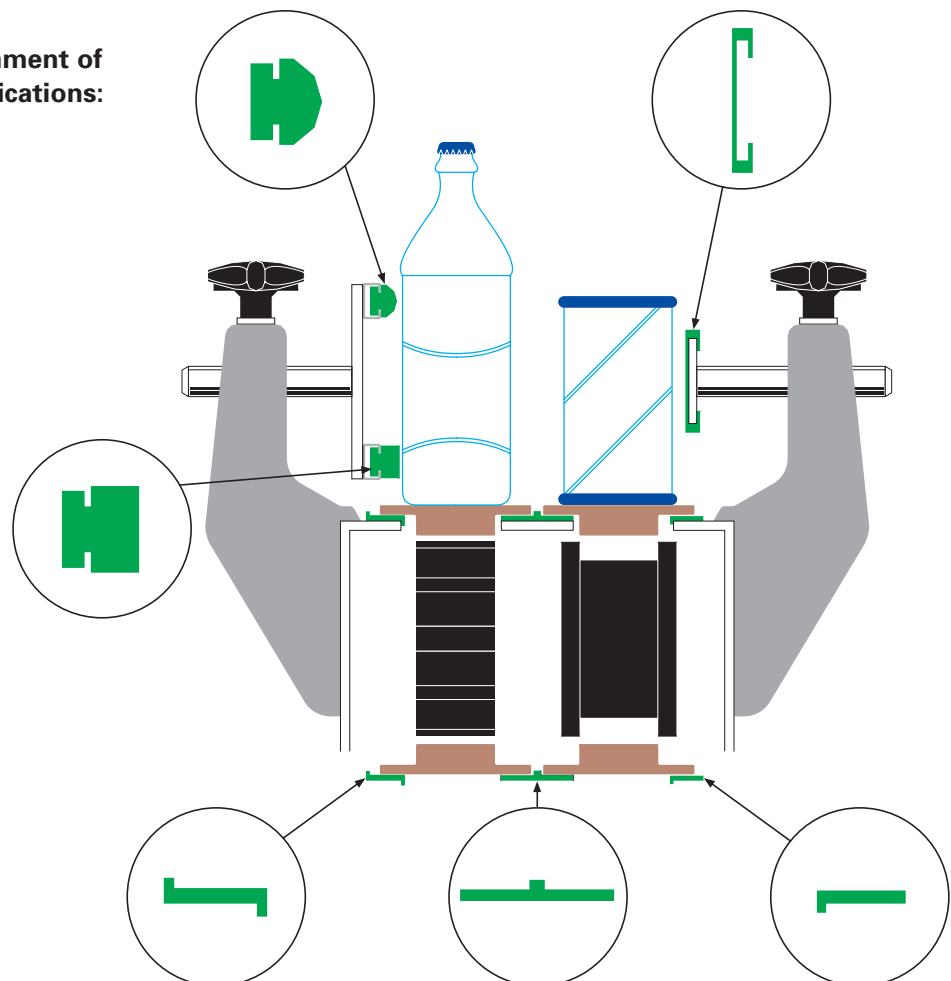
- wearstrips for table top chains
- guide profiles
- corner and straight ways for side HabaCHAIN® plastic chains

Features

- **Great wear resistance**
- **Low coefficient of friction**
- **Low noise**
- **Good impact resistance, even at low temperature**
- **High chemical resistance**
- **Corrosion resistance**
- **Easy and quick assembling**



Examples for shape and alignment of HabiPLAST® in beverage applications:



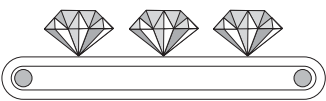


Features and Benefits

TPU Coated Belts

TPU food conveyor belts combine many features that are supporting reliable and hygienic production processes. Habasit offers TPU belts in different constructions, different colors and different surface finishes.





	Features	Benefits
	<ul style="list-style-type: none"> • Longitudinal flexibility 	<ul style="list-style-type: none"> → Belts can cope with small pulley diameters → Smooth and trouble-free product transfer
	<ul style="list-style-type: none"> • Calendered belt surface 	<ul style="list-style-type: none"> → Closed, most homogeneous surface → Easy to clean
	<ul style="list-style-type: none"> • Wear resistant • Good temperature resistance 	<ul style="list-style-type: none"> → Abrasion resistant → Long service life → Wide temperature range suitable

Rubber coated processing belts

Ensure excellent performance and reliable feeding, predominantly in wrapping and packaging applications.



	Features	Benefits
 	<ul style="list-style-type: none"> • Different shore hardness and surface 	<ul style="list-style-type: none"> → Gentle, reliable treatment of packages → Different coefficient of friction → No marking on conveyed goods → Wear resistant → High grip

Gear reducers, electronic speed variation & brake motors

Our partner Rossi Motoriduttori is one of Europe's largest groups for the production of gear reducers, gearmotors, electronic speed variation and brake motors.

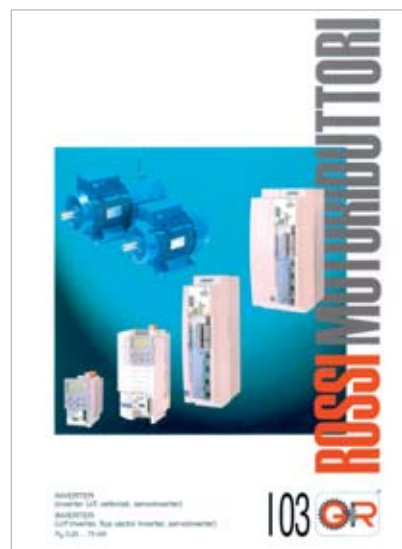
Beverage processes use worm and right angle shaft gearmotors with double seals, reduced backlash and other accessories. Rossi Motoriduttori products are used in:

Rinser-Filler-Capper machines, equipped with:

- Worm Gear Reducers (Catalogue A04)
- Right Angle Shaft (Catalogue L99)
- Asynchronous three-phase motors (Catalogue TX 06)
- Inverter (Catalogue I03)

Washing Machines, equipped with:

- Worm Gear Reducers (Catalogue A04)
- Right Angle Shaft Gear motors (Catalogue G05)
- Inverter (Catalogue I03)



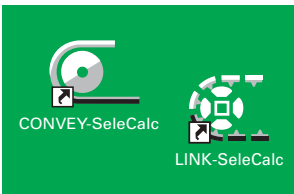
For further product information see www.rossi-group.com

Part of Habasit's belting solutions approach is to offer a comprehensive range of services. We are committed to our customers; Partners who share knowledge and provide support. And this is what we offer:



Consulting and technical support

Founded on more than 60 years of experience and competence, Habasit offers the best consulting and technical support in the fabric-based and plastic modular belts market.



Belt selection and calculation

We select the most suitable belt and calculate for our customers according to a specific application. However, customers may use "SeleCalc" on their own, which is a state-of-the-art Habasit selection and calculation program. To order free of charge, simply call your nearest Habasit partner or contact: info@habasit.com

CONVEY-SeleCalc = Fabric conveyor belt selection and calculation

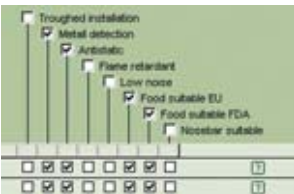
LINK-SeleCalc = Plastic modular belt selection and calculation

POWER-SeleCalc = Power transmission belt selection and calculation



Fabrication or assembly

We join fabric-based belts or assemble plastic modular belts at our locations or on-site, directly on the machine or system.



Shortest lead times and installation services on hand

Habasit owns 33 affiliated companies located in North America, Europe, Japan and Asia, each with its own inventory, fabrication, assembling and service facilities. On an international scale we are in a position to react quickly, competently and reliably to our customers' demands, together with our country managers, representative offices and a large number of qualified distributors.



Installing service at hand

We are where the customers are, and our committed staff is always available for their specific needs. We offer on-site installation on an international scale.



Testing at the customer's site

If desired we test process functionality, alternative products, and variations of fabric-based or plastic modular belts at each customer's site.



Legal and conformity check

We support our customers with respect to declaration issues, conformity issues or conformance with national laws and/or authorities such as the FDA, USDA, EU, or safety data sheets, flame-retardant conformities, etc.



Process optimization proposals

We analyze processes together with the customer and submit proposals for process optimizations, e.g. added value for the machinery / process output and output increase.

Belt repairs

We have developed sophisticated repair methods and equipment with proven effectiveness.

Special belt fabrications

We offer special fabrications, such as longitudinal joining, edge sealing, profile welding, guide profiles welding, hole punching, side skirt installations, curve conveyor layout / cutting preparation, and more.



Joining tools and auxiliaries equipment

We develop and offer a broad range of tools and devices designed to meet the needs of our customers and distribution / service partners to ensure an effective and efficient fabrication of our belts. This range covers the requirements of in-house fabrications (series and specialties) as well as on-site installations of conveyor and power transmission belts and tapes.

For example slitters, skiving tools, Flexproof (zig / zag) finger cutting tools, hot-presses and auxiliaries like coiling and welding devices.

For the plastic modular belts HabasitLINK® we are well equipped with our own designed and manufactured semi-automated assembling machines.

Training

Habasit organizes training programs and provides support tools to help ensure optimal use of our products and prolong their life cycle. Fabrication, installing, assembling, maintenance and belt repair training is carried out through at the Habasit or customer's site.

Specific application knowledge transfer

Habasit provides application-specific knowledge transfer for process specific issues, allowing optimized use of the products, machinery, and processes.



Designing the future "Partners in Design"

Habasit believes in partnerships. For joint design developments our engineering team cooperates strongly with the customer's engineering team, preferably at a very early stage. We offer such cooperations to our large customers.

Co-design – We work together for success.



Testing offered to customers

R&D expertise, laboratory and test equipment are offered to test the customer's specific process needs such as mechanical endurance testing; influence on customer's processes; used chemicals and ingredients or thermal influence on belt behavior.



Belt monitoring

A customized Habasit service includes maintenance, regular belt monitoring reports, and regular review meetings with the responsible person for process / production at the customer's site.

Customized service agreements

According to the specific needs of our customers we offer customized services for example inventory management, emergency services, belt exchange services and / or order / re-order management.



Project management

We are experienced partners for belting project coordination on an international level for customers operating globally.

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

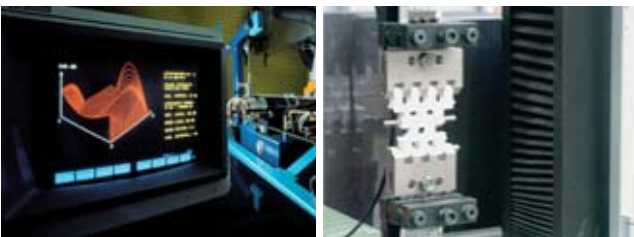
Customers come first

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, tailor-made 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 Motoriduttori 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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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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