Industries
Media No. 2062

habasit

Beverage Industry Belts, Chains and Complementary Products

Habasit–Solutions in motion

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Product liability, application considerations

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

Introduction

Key element belts
The beverage industry includes several segments, the filling of beverages and liquids in PET, glass and cans as well as the packaging 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.

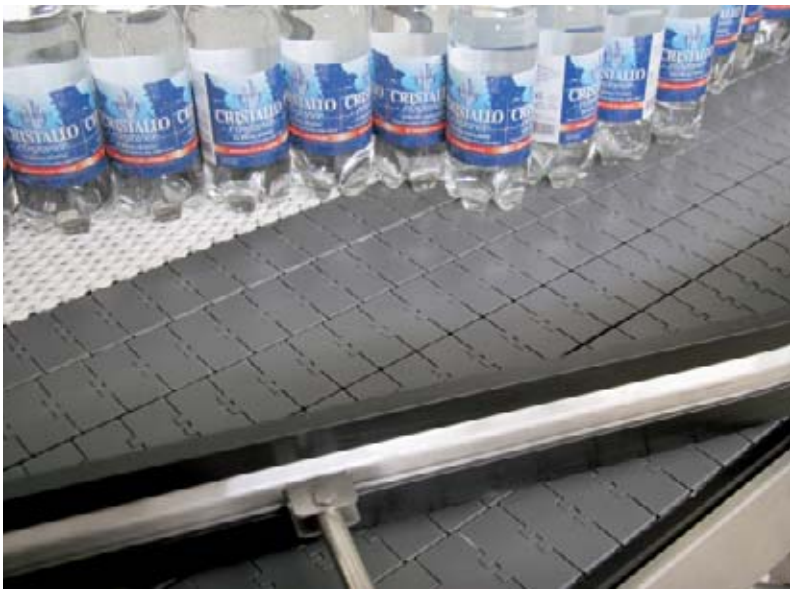
Habasit offers belting solutions for:
- Bottling (returnable and one way glass bottles)
- Liquids production and filling
- Cans filling and handling
- Case, tray and crate handling

The variety of products
Habasit offers the appropriate products for all kinds of applications, including separation or accumulation, capping machines, mass handling, case packing and handling, inclined and declined conveyors, palletizing and straight and radius applications.

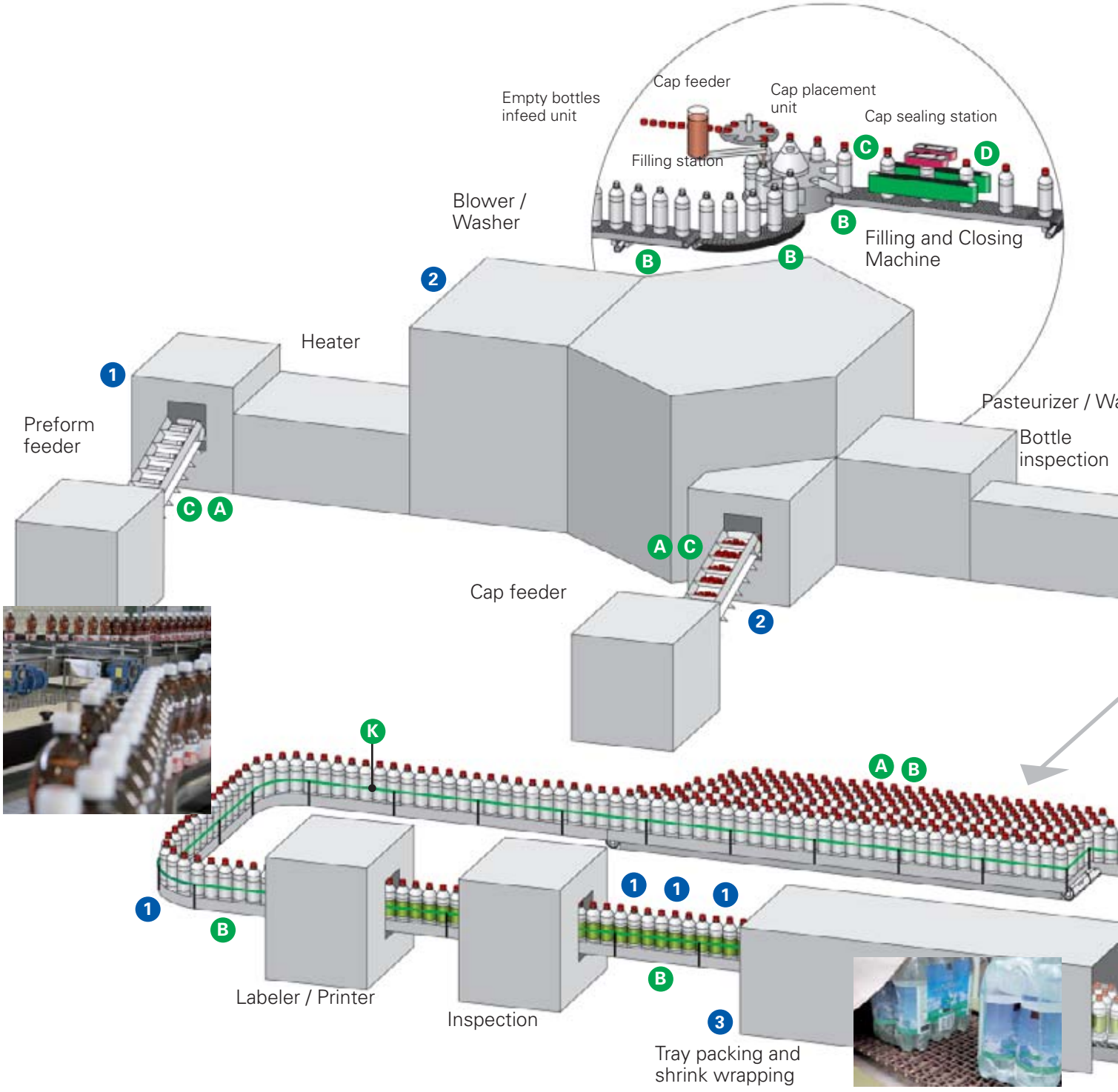
Product ranges for the beverage industry:
HabasitLINK® / KVP® (plastic modular belts)
HabaCHAIN® (slat and conveyor system chains)
HabaFLOW® (fabric based conveyor and processing belts)
HabaDRIVE® (power transmission belts)
HabaSYNC® (timing belts)
HabiPLAST® (profiles, guides, wear strips)
GRABBER® (rubber coated seamless belts)
Rossi Gearmotors (gearmotors, gear reducers)

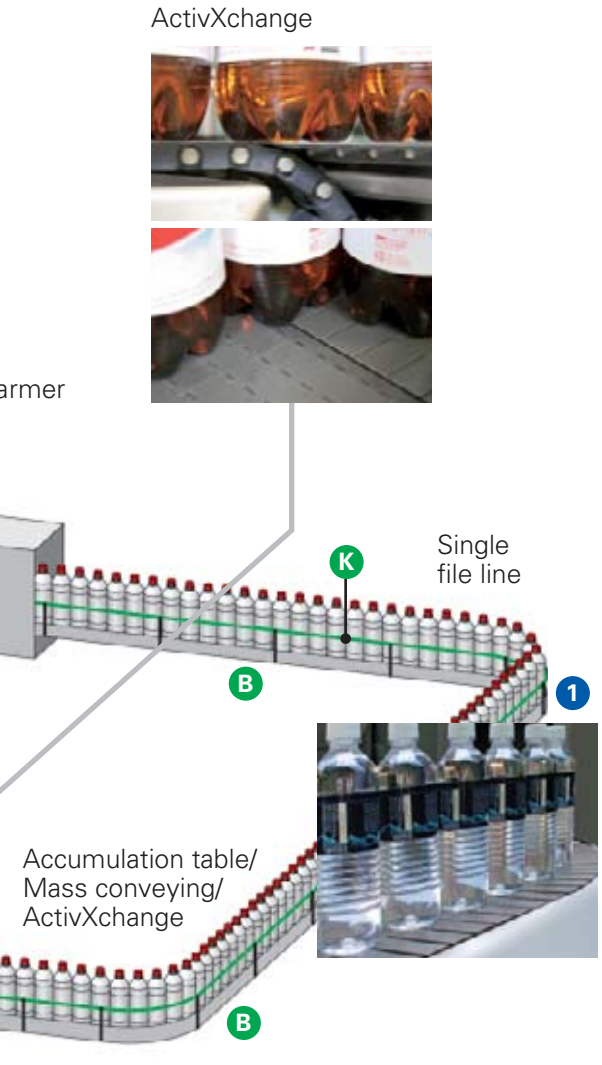
Your solutions partner
Habasit is totally committed to understanding your design parameters and application needs. After reviewing your requirements, our specialists will suggest the best solution for each application.

Global expertise
Over 60 years of experience, the widest and most innovative product range, and an extensive global network – Habasit is the clear No. 1 in belting worldwide. We use all our strengths to meet your needs for high-quality belting tailored to your specific requirements.



Process / Application Overview (Schematic)
Bottle Filling





Belting products:

- A Plastic modular belts – **HabasitLINK® / KVP®**
- B Slat and conveyor chains – **HabaCHAIN®**
- C Fabric based conveyor and processing belts – **HabaFLOW®**
- D Seamless feeder belts – **GRABBER®**

Complementary products:

- K Profiles, guides, wear strips – **HabiPLAST®**

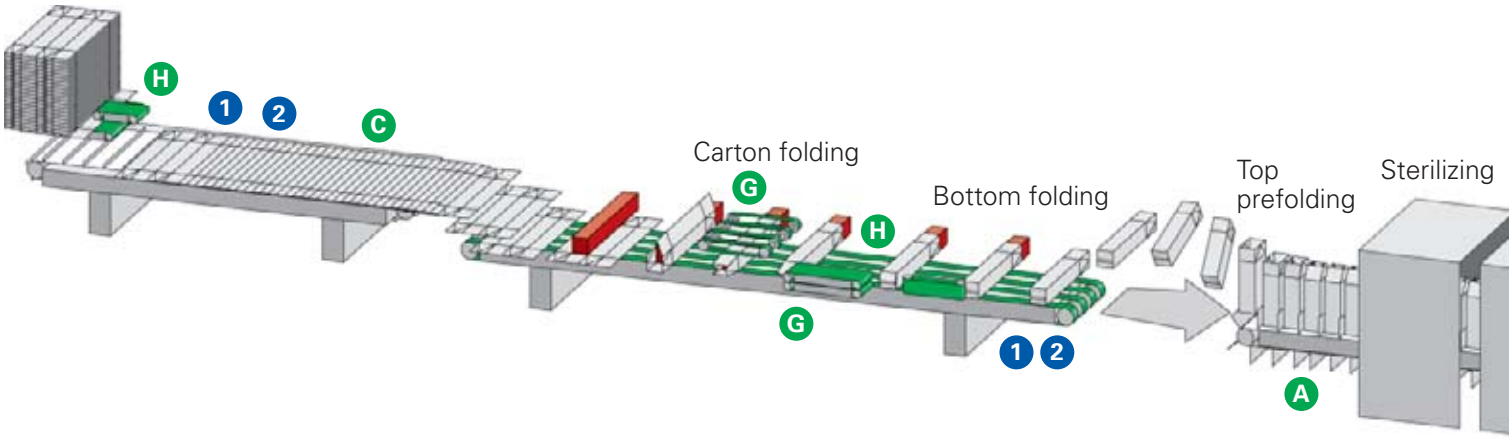
Rossi Gearmotors

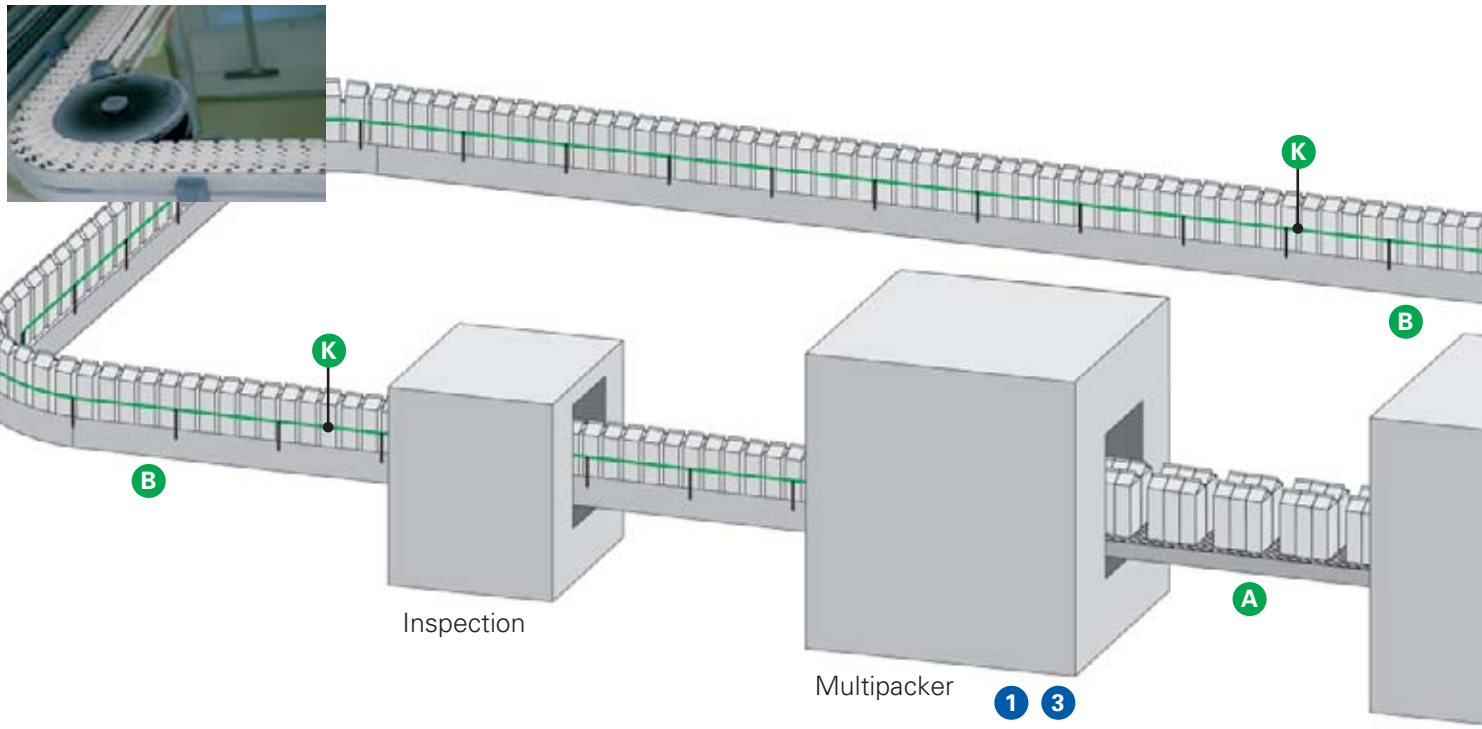
● = Possible gearmotor positions

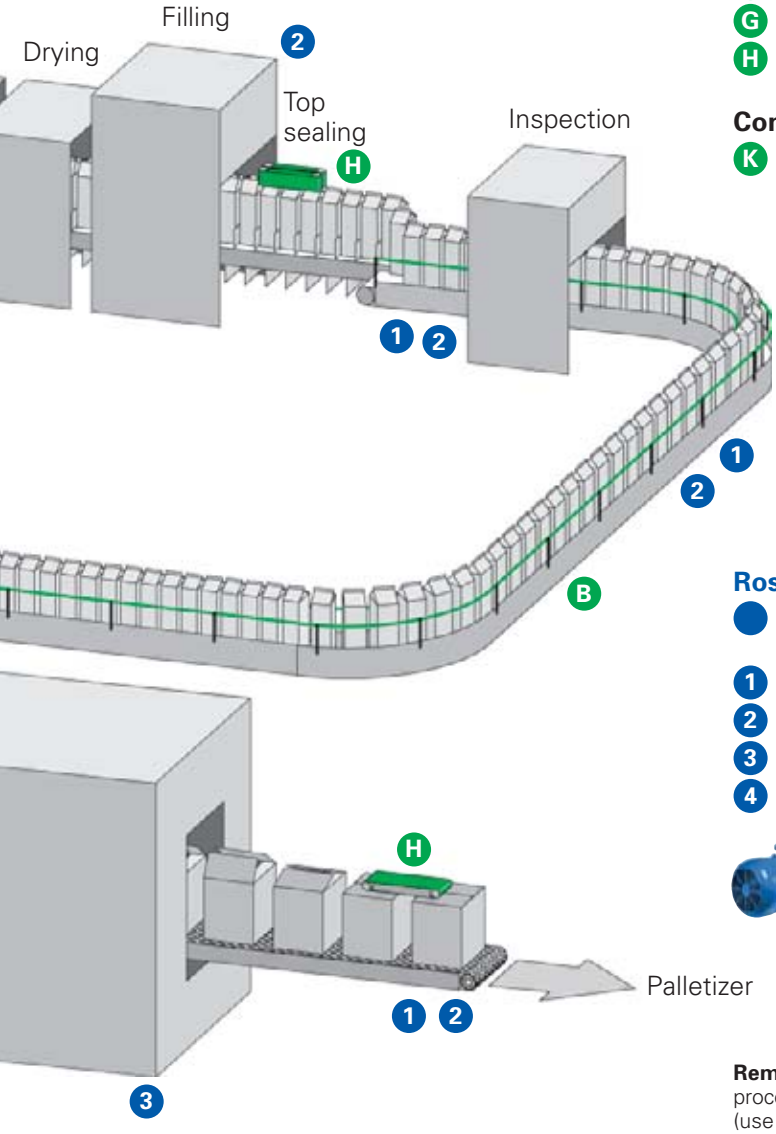
1. Right angle shaft gearmotors
2. Worm gearmotors
3. Coaxial gearmotors
4. Planetary servogearmotors

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







Belting products:

- A Plastic modular belts – **HabasitLINK® / KVP®**
- B Slat and conveyor chains – **HabaCHAIN®**
- C Fabric based conveyor and processing belts – **HabaFLOW®**
- G Folder-gluer-belts
- H Machine tapes

Complementary products:

- K Profiles, guides, wear strips – **HabiPLAST®**

Rossi Gearmotors

- ● = Possible gearmotor positions

- 1 Right angle shaft gearmotors
- 2 Worm gearmotors
- 3 Coaxial gearmotors
- 4 Planetary servogearmotors

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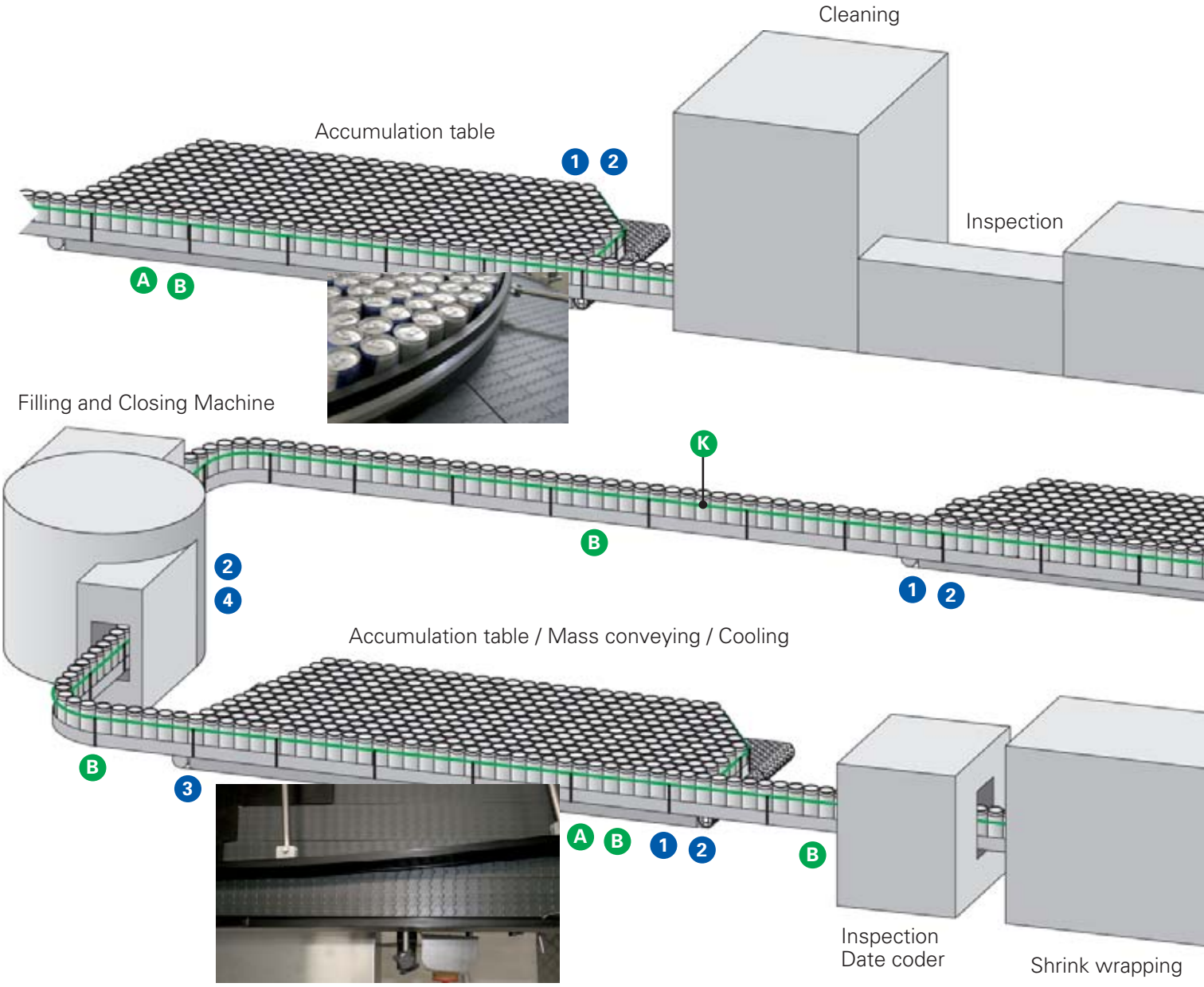
Process / Application Overview (Schematic)
Can Filling

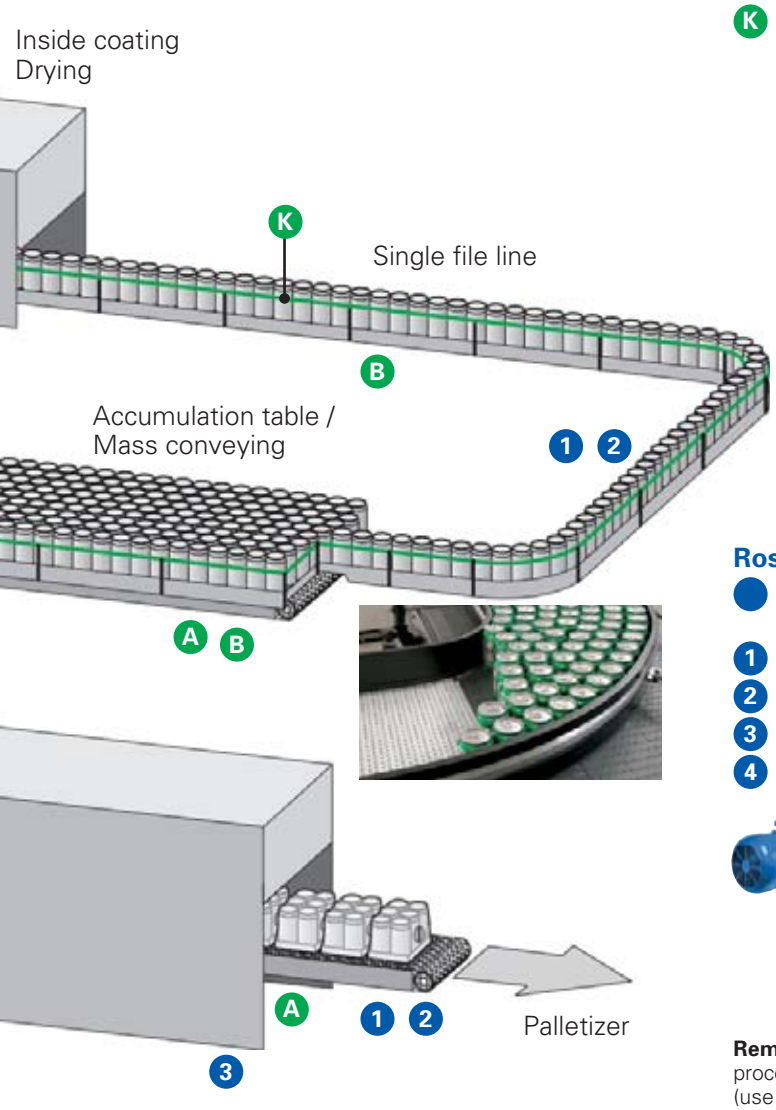


Belting products:

- A Plastic modular belts – **HabasitLINK® / KVP®**
- B Slat and conveyor chains – **HabaCHAIN®**

Complementary products:

- K Profiles, guides, wear strips – **HabiPLAST®**



Rossi Gearmotors

- ● = Possible gearmotor positions

1. Right angle shaft gearmotors
2. Worm gearmotors
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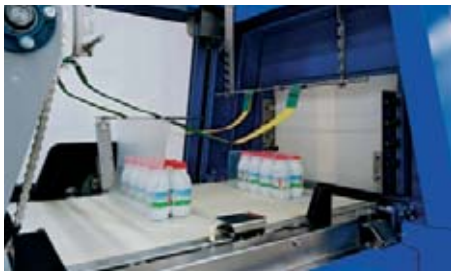
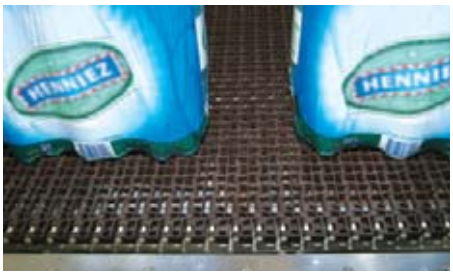
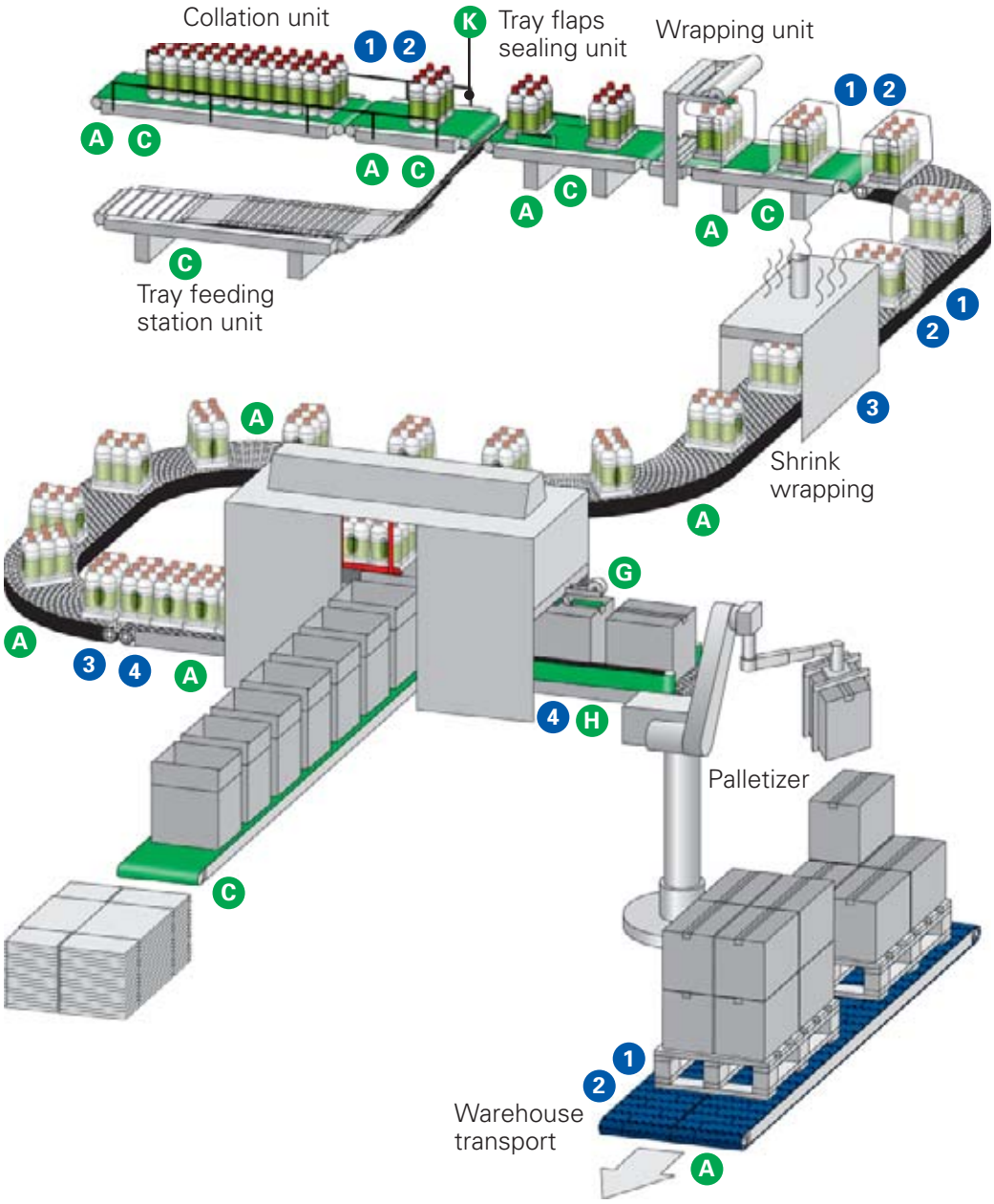
Process / Application Overview (Schematic)
Case, Crate and Tray Packaging and Handling







Belting products:

- A Plastic modular belts – **Habasit-LINK® / KVP®**
- C Fabric based conveyor and processing belts – **HabaFLOW®**
- G Folder-gluer-belts
- H Machine tapes

Complementary products:

- K Profiles, guides, wear strips – **HabiPLAST®**

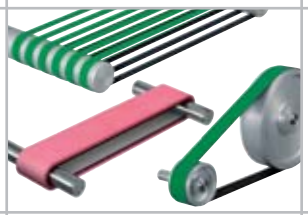
Rossi Gearmotors

- ● = Possible gear-motor positions
- 1 Right angle shaft gearmotors
- 2 Worm gearmotors
- 3 Coaxial gearmotors
- 4 Planetary servogearmotors

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.

Variety of Product Ranges for the Beverage Industry

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 of belting, conveying, processing and complementary products in the industry.

Product range		Material variations / remarks	Product brochures media number
HabasitLINK®/ KVP® Plastic modular belts		• PA (Polyamide) • POM/AC (Polyoxy-methylene/Acetal) • PP (Polypropylene) • High temperature materials	4000 6002
HabaCHAIN® Slat and conveyor chains		• POM standard, low-friction, extra-low-friction, self-lubricating • Wear-resistant/wet/dry (PT) • PA heat-stabilized (NY)	4122 6017
HabaFLOW® Fabric based conveyor and processing belts		• PVC coated • TPU coated • Rubber coated • Silicone coated • Nonwoven	4063 / 4101 6000
HabaDRIVE® Power transmission belts		• Polyester with NBR cover • Polyamide with Habidur Rubber cover • Rubber coated seamless belts (GRABBER®)	4132 6026
HabaSYNC® Timing belts		Polyurethane • Steel cord tensile member • Aramide tensile member	4107 6018

Complementary products		
HabiPLAST® Profiles, guides, wear strips		See a more detailed description on page 28
Rossi Gearmotors Gear reducers, gearmotors, motion control, electric motors		See a more detailed description on page 29

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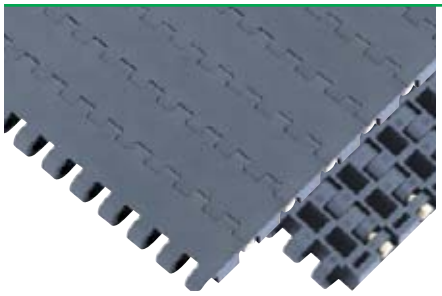
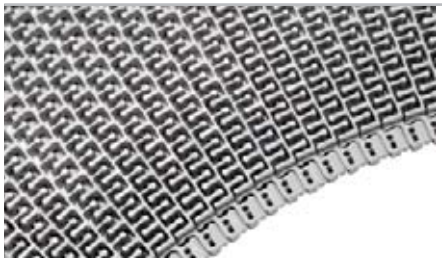
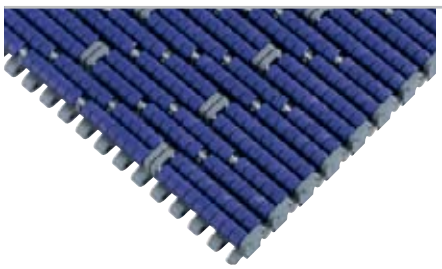
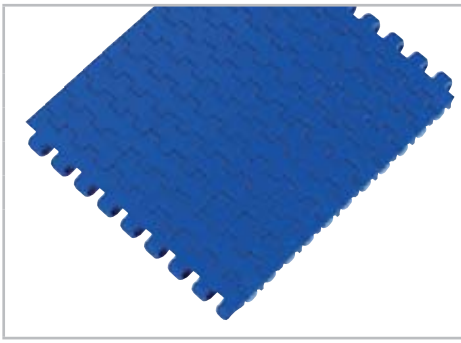
Because of PDF technical and poster size
reasons the poster is at the end of this PDF.

Features and Benefits
HabasitLINK® / KVP® Plastic Modular Belts

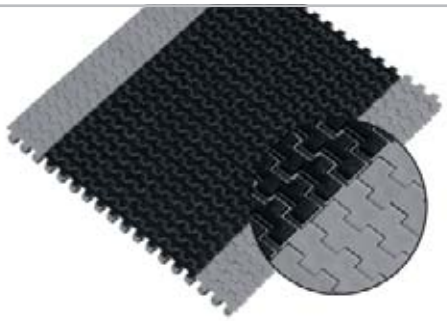
Based on our comprehensive experience and our leadership position in fabric belting, Habasit has developed the HabasitLINK® / KVP® modular belt ranges. Completely ejector mark free surfaces, rounded edges, smooth designs stand for state-of-the-art hygienic modular belting. Where lubrication and downtime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

	Features	Benefits
	• **Excellent flat surface structure** • **Rounded edges** • **Strong link design** • **High strength** • **Small opening on reverse side**	→ **Smooth running at high speed** → **Virtually no container tipping** → **Virtually no belt damage, even with broken glass (M2620 / M2670)** → **Downtime reduction** → **No space for broken glass to disengage sprocket**
	• **Radius and straight transport with one single belt**	→ **Longer runs without transfers, smaller number of drives and motors** → **Reduced cost for entire system**
	• **Active transfer**	→ **Smoother 90° transfers "ActivXchange"** → **No container tipping** → **Self clearing even for smallest container sizes** → **No catwalk** → **No mixed batches**
	• **Double teeth sprocket design** • **Split sprocket**	→ **Double lug teeth sprocket suitable for heavy loads (M2620 / M2670)** → **Abrasion resistant PA material** → **Reverse side with small openings, no space for broken glass to disengage sprocket** → **For easy installation**
	• **Accumulation of products with reduced back pressure** • **Noise and vibration absorbent materials**	→ **Less damage on bottom of package** → **No damage of shrinked plastic or cardboard** → **Smooth running, low noise**

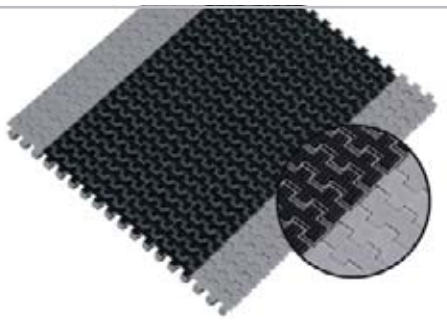
Bottling specific HabasitLINK® Plastic Modular Belts Series M1200



M1220 Flat Top 0.5“ + ActivXchange							
Open area	0 %						
Open hinge	yes						
Belt material		PP	PE	POM			
Rod material		PP	PE	PP	PA		
Nominal tensile strength	N/m	11000	6000	16000	18000		
F'_N straight run	*lb/ft*	*754*	*411*	*1096*	*1233*		



M1220 GripTop 0.5“							
Open area	0 %						
Open hinge	yes						
Belt material		PP					
GripTop material		TPE					
Rod material		PP	POM				
Nominal tensile strength	N/m	9000	9000				
F'_N straight run	*lb/ft*	*617*	*617*				



M1220 HighGrip-L 0.5“							
Open area	0 %						
Open hinge	yes						
Belt material		PP					
GripTop material		TPE					
Rod material		PP	POM				
Nominal tensile strength	N/m	9000	9000				
F'_N straight run	*lb/ft*	*617*	*617*				

M1230 Flush Grid 0.5“							
Open area	18 %						
Open hinge	yes						
Belt material		PP	PE	POM			
Rod material		PP	PE	PP	PA		
Nominal tensile strength	N/m	11000	7000	16000	18000		
F'_N straight run	*lb/ft*	*753*	*480*	*1096*	*1233*		

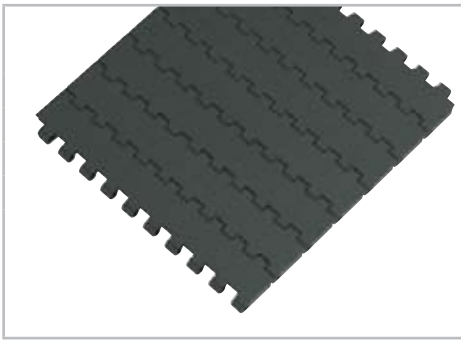
Sprocket one-piece („open window“) (S)

Split sprocket (Z)

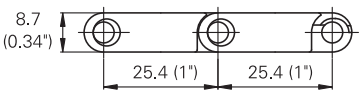
Type	Number of teeth	Diameter of pitch Ø d_p	
		mm	*inch*
S	10	41.2	*1.6*
S	15	62.4	*2.5*
S	19	78.8	*3.1*
S	24	99.2	*3.9*
S	28	116.5	*4.6*
S	36	149.8	*5.9*
Z	24	99.2	*3.9*

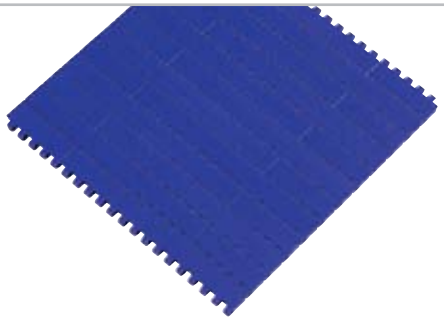
Remark: Split sprocket as **multihub** sprocket in preparation.

HabasitLINK® Plastic Modular Belts
Series M2400

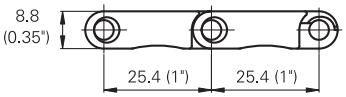


M2420 Flat Top 1“							
Open area	0 %						
Open hinge	no						
Belt material		PP		POM			
Rod material		PP	POM	PBT	PA		
Nominal tensile strength	N/m	13200	16900	20100	28800		
F'_N straight run	*lb/ft*	*904*	*1158*	*1370*	*1973*		





M2470 Flat Top 1“ + ActivXchange							
Open area	0 %						
Open hinge	no						
Belt material		POM					
Rod material		PA					
Nominal tensile strength	N/m	30000					
F'_N straight run	*lb/ft*	*2055*					

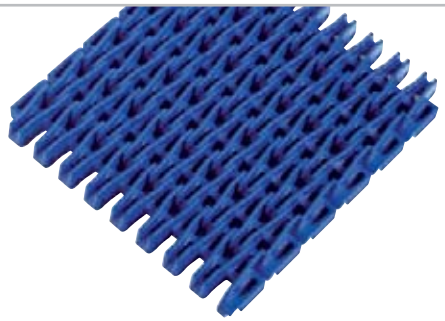


Sprocket one-piece (solid) (S)

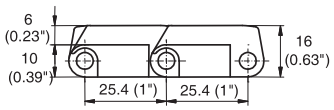
Type	Number of teeth	Diameter of pitch Ø d_p	
		mm	*inch*
S	12	99.5	*3.9*
S	18	148.3	*5.8*
S	12	99.5	*3.9*
S	15	123.9	*4.9*
S	18	148.3	*5.8*
S	20	164.6	*6.4*

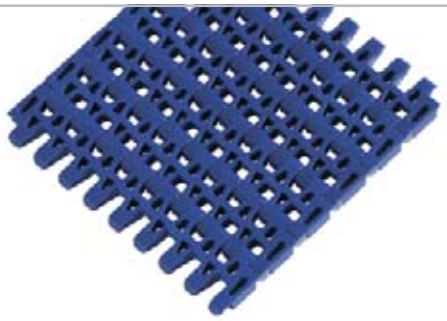
Remark: Split sprocket as **multihub** sprocket in preparation.

HabasitLINK® Plastic Modular Belts
Series M2500

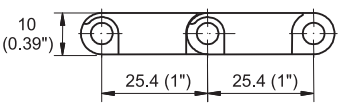


M2531 Raised Rib 1“							
Open area	35 %						
Open hinge	yes						
Belt material		PP	POM				
Rod material		PP		PA			
Nominal tensile strength F'_N straight run	N/m *lb/ft*	16000 *1096*	19000 *1300*	27000 *1850*			

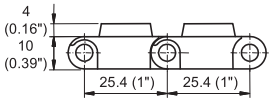


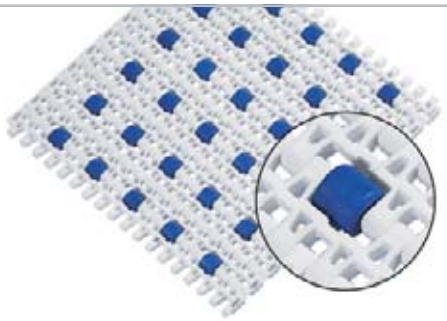


M2533 Flush Grid 1“							
Open area	35 %						
Open hinge	yes						
Belt material		PP	PE	POM		PA +US	PA
Rod material		PP	PE	PP	PA		
Nominal tensile strength F'_N straight run	N/m *lb/ft*	14000 *959*	8000 *548*	18000 *1233*	24700 *1692*	20000 *1370*	20000 *1370*

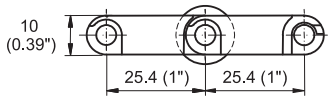


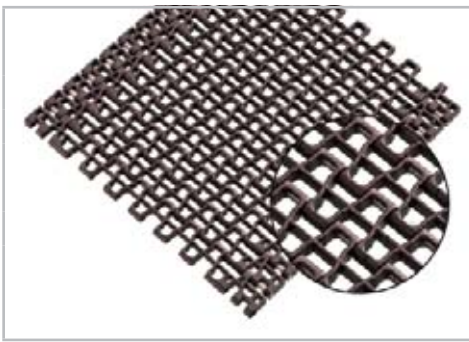
M2533 GripTop 1“							
Open area depends on pattern							
Open hinge	yes						
Belt material		PP				POM	
GripTop material		TPE					
Rod material		PP	POM	PP	POM	PP	PA
Nominal tensile strength F'_N straight run	N/m *lb/ft*	14000 *959*	14000 *959*	14000 *959*	14000 *959*	18000 *1233*	22000 *1507*



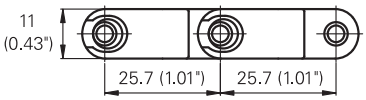


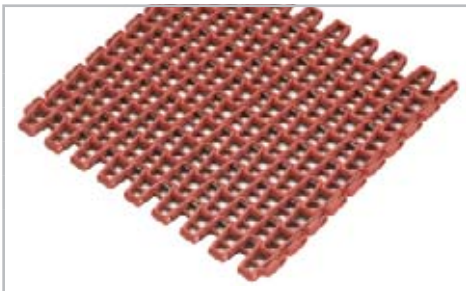
M2533 Roller Top 1“							
Open area	35 %						
Open hinge	yes						
Belt material		POM					
Rod material		PA					
Roller material		POM					
Roller lateral spacing per row	mm *inch*	66 *2.6*	50 *2*	50 *2*			
Roller offset next row	mm *inch*	33 *1.3*	0 *0*	0 *0*			
Roller dimension diameter / width	mm *inch*	Ø 15 / 5 *Ø 0.59 / 0.2*		Ø 18 / 16 *Ø 0.71 / 0.63*			
Nominal tensile strength F'_N straight run	N/m *lb/ft*	18500 *1267*	20500 *1404*	16400 *1123*			



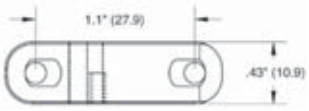


M2585-S0 Flush Grid 1“							
Open area	54 %						
Open hinge	yes						
Belt material		PA +GF	PA +HT	ST			
Rod material		ST / Steel					
Nominal tensile strength F'_N straight run	N/m	20000	22000	10000			
	lb/ft	*1370*	*1507*	*685*			

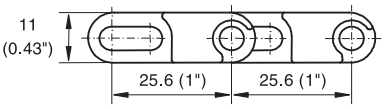




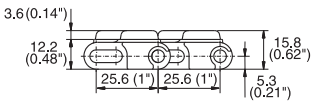
F52 Straight 1.1“ (1/2“ x 1/2“ Flat Wire)						
Open area	65 %					
Open hinge	yes					
Belt material		PP	PE	POM	PA+GF	PA+HN
Rod material		PP			Stainless Steel	
Nominal tensile strength F'_N straight run	N/m	300	240	600	600	600
	lb/ft	*4378*	*3502*	*8756*	*8756*	*8756*



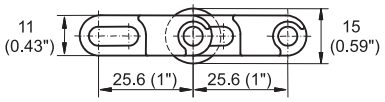
M2540 Radius Flush Grid 1“						
Open area	35 %					
Open hinge	yes					
Belt material		PP		POM	PA +US	PA
Rod material		POM	PA			
Nominal tensile strength F'_N straight run	N/m	19000	19000	27000	25000	25000
	lb/ft	*1300*	*1300*	*1850*	*1713*	*1713*
Nominal tensile strength F_N in curve	N	1000	1000	1500	1300	1300
	lb	*225*	*225*	*338*	*293*	*293*

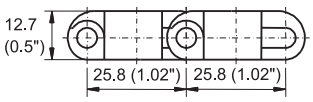


M2540 Radius GripTop 1“							
Open area	20 %						
Open hinge	yes						
Belt material		PP					
GripTop material		TPE					
Rod material		POM	PA				
Nominal tensile strength F'_N straight run	N/m	19000	19000				
	lb/ft	*1300*	*1300*				
Nominal tensile strength F_N in curve	N	1000	1000				
	lb	*225*	*225*				



HabasitLINK® Plastic Modular Belts
Series M2500 and M2600

M2540 Roller Top 1“						
Open area	35 %					
Open hinge	yes					
Belt material		POM				
Rod material		PA				
Roller material		POM				
Roller lateral spacing per row	mm *inch*	50 *2*				
Roller dimension diameter / width	mm *inch*	Ø 15 / 5 *Ø 0.59 / 0.2*				
Nominal tensile strength F'_N straight run	N/m *lb/ft*	22000 *1507*				
Nominal tensile strength F_N in curve	N *lb*	1200 *270*				

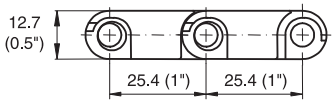
M2544 Tight Radius 1“					
Open area	38 %				
Open hinge	yes				
Belt material		PP		POM	POM+JM
Rod material		POM	PA		
Nominal tensile strength F'_N straight run	N/m *lb/ft*	14000 *959*	14000 *959*	20000 *1370*	20000 *1370*
Nominal tensile strength F_N in curve	N *lb*	600 *135*	600 *135*	1100 *247*	1100 *247*

Sprocket one-piece („open window“) (S)

Split sprocket (Z)

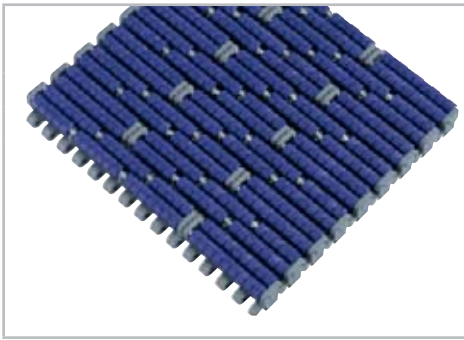
Type	Number of teeth	Diameter of pitch Ø d_p	
		mm	*inch*
S	7	59.4	*2.3*
S	8	66.7	*2.6*
S	10	82.5	*3.3*
S	12	98.6	*3.9*
S	15	122.7	*4.8*
S	16	130.8	*5.2*
S	18	146.9	*5.8*
S	20	163.0	*6.4*
Z	12	98.6	*3.9*
Z	18	146.9	*5.8*
Z	20	163.0	*6.4*

Series M2600

M2620 Flat Top Heavy Duty 1“ + ActivXchange							
Open area	0 %						
Open hinge	no						
Belt material		PP		POM		PA	PBT +FR
Rod material		PP	PA		PBT	PA	
Nominal tensile strength F'_N straight run	N/m *lb/ft*	24000 *1644*	26500 *1815*	45000 *3083*	35000 *2397*	45000 *3083*	23000 *1575*

HabasitLINK® Plastic Modular Belts
Series M2600 and M3800

M2620 GripTop 1“								
Open area	0 %							
Open hinge	no							
Belt material		PP		POM				
GripTop material		TPE						
Rod material		PP	POM	PA				
Nominal tensile strength	N/m	23000	24000	33000				
F'_N straight run	*lb/ft*	*1575*	*1644*	*2260*				



M2620 Roller Top - LBP 1“								
Open area	0 %							
Open hinge	no							
Belt material		POM						
Rod material		PBT	PA					
Nominal tensile strength	N/m	35000	45000					
F'_N straight run	*lb/ft*	*2397*	*3082*					

Sprocket one-piece (solid) (S)

Split sprocket (Z)

Type	Number of teeth	Diameter of pitch Ø d_p	
		mm	*inch*
S	18	147.7	*5.8*
S	12	99.1	*3.9*
S	16	131.5	*5.2*
S	18	147.7	*5.8*
S	21	172.1	*6.8*
Z	12	99.1	*3.9*
Z	16	131.5	*5.2*
Z	18	147.7	*5.8*
Z	21	172.1	*6.8*

For the series M2600 the split sprocket is as **multihub** sprocket available.The robust patented design is consisting of 2 rim halves and 2 hub halves connected with 4 bolts with nuts.

Series M3800

M3840 Radius Flush Grid 1.5“								
Open area	31 %							
Open hinge	yes							
Belt material		PP		POM				
Rod material		POM	PA					
Nominal tensile strength	N/m	23000	23000	32000				
F'_N straight run	*lb/ft*	*1575*	*1575*	*2192*				
Nominal tensile strength	N	2000	2000	2400				
F_N in curve	*lb*	*450*	*450*	*540*				

HabasitLINK® Plastic Modular Belts
Series M3800 and M5100

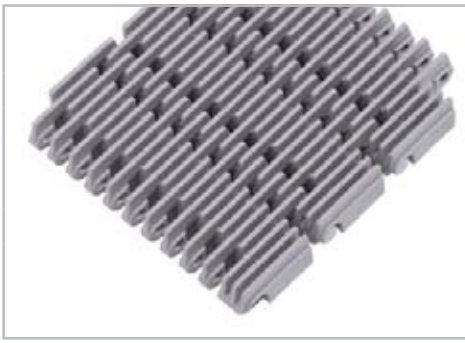
M3843 Tight Radius 1.5“							
Open area	37 %						
Open hinge	yes						
Belt material		PP		POM			
Rod material		POM	PA				
Nominal tensile strength F'_N straight run	N/m	20000	20000	29000			
	lb/ft	*1370*	*1370*	*1986*			
Nominal tensile strength F_N in curve	N	1800	1800	2250			
	lb	*405*	*405*	*506*			

M3843 Tight Radius GripTop 1.5“						
Open area depends on pattern						
Open hinge	yes					
Belt material		PP		POM		
GripTop material		TPE				
Rod material		POM / Steel	PA / Steel			
Nominal tensile strength F'_N straight run	N/m	20000	20000	29000		
	lb/ft	*1370*	*1370*	*1986*		
Nominal tensile strength F_N in curve	N	1800	1800	2250		
	lb	*405*	*405*	*506*		

Type	Number of teeth	Diameter of pitch Ø d_p	
		mm	*inch*
S	8	101.9	*4.0*
S	12	150.0	*5.9*
S	6	198.2	*7.8*

Sprocket one-piece („open window“) (S)

Series M5100



M5131 Raised Rib 2“							
Open area	36 %						
Open hinge	no						
Belt material		PP	PP +GR				
Rod material		PP					
Nominal tensile strength F'_N straight run	N/m	32000	20000				
	lb/ft	*2192*	*1370*				

Sprocket one-piece („open window“) (S)

Sprocket one-piece (solid) (S)

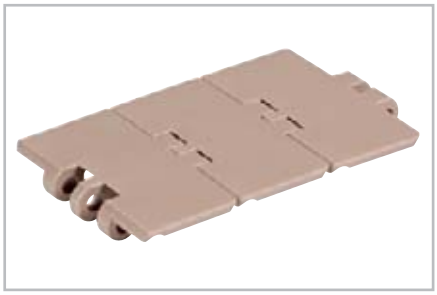
Type	Number of teeth	Diameter of pitch Ø d_p	
		mm	*inch*
S	16	261.5	*10.3*
S	10	165.2	*6.5*
S	12	197.2	*7.8*
S	13	213.2	*8.4*
S	16	261.5	*10.3*

Features and Benefits
HabaCHAIN® Slat and Conveyor Chains

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

	Features	Benefits
	• **High quality molding** • **Precision of molds** • **Superior quality materials**	→ **Excellent flat surface** → **High speed applications** → **Wear resistance** → **Less noise generation**
	• **Radius and straight transport** • **Robust design** • **Precision of molds**	→ **Flexible conveyor layouts** → **Wear resistance** → **Less noise generation**
	• **Suitable for linear and curve conveying** • **Grooved GripTop type**	→ **Flexible conveyor layouts, also 3Dimensional** → **Tight radius** → **No glazing effect** → **No slippage** → **Excellent rubber adhesion**
	• **Reduced back pressure (LBP)** • **Accumulation of products** (LBP = Low Back Pressure)	→ **Less product damage** → **Less power consumption** → **Less noise generation**
	• **Interchangeable hubs** • **Also low noise gears available**	→ **Less stock positions / reduced stock** → **Allows a greater flexibility** → **5 to 10 db less noise** → **Wear resistant**

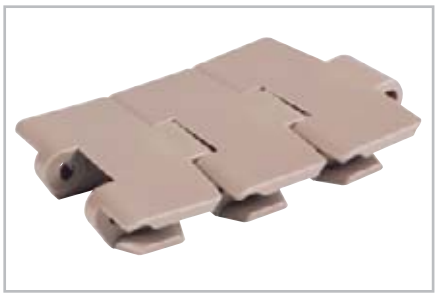
Bottling specific HabaCHAIN®
Slat and Conveyor Chains



Slat Top 820 (Straight)
820 is a standard duty straight running slat top chain.
Applications include packaging and bottling lines.
Use 820 chain for side transfer with 880 series radius chain.

Slat Top 821 (Straight)
821 is a heavy duty straight running slat top chain.
Applications include packaging and bottling lines.
Use 821 series for side transfer with 882 series radius chain.

Slat Top 831 (Straight)
831 is a standard duty straight running slat top chain.
Applications include packaging and bottling lines.
Use 831 chain for side transfer with 879 series radius chain.



Slat Top 879T (Radius)
879T is a tabbed standard duty radius and straight running chain.
Applications include general conveyance, packaging and empty container handling.
Use 879T series for side transfer with 831 series straight chain.

Slat Top 770T (Radius)
Suitable for radius and straight conveying of various products and containers, for general light duty and bottling conveyors, with tight radius.
Ideal for use with 820 series.

Slat Top 880T (Radius)
880T is a tabbed standard duty radius and straight running chain.
Applications include general conveyance, packaging, and empty container handling.
Use 880T series for side transfer with 820 series straight chain.

Slat Top 882T (Radius)
882T is a tabbed heavy duty radius and straight running chain.
Applications include general conveyance, packaging and bottling.
Use 882T series for side transfer with 821 series straight chain.

Slat Top 1061M (Radius)
Suitable for radius and straight conveying on magnetic systems with the modular belt type M2420 and M2470 Flat Top or in abrasive conditions especially glass applications. Thickness 8.7 mm.

GripTop chain
Slat Top 882TG (Radius) a tabbed heavy duty radius and straight running chain. Applications include general conveyance, packaging and bottling. The surface has rubber top inserts to allow for incline applications.

Bottling Specific HabaCHAIN®
Slat and Conveyor Chains

LBP 821 (Straight)
LBP 821 is a heavy duty straight running low-back-pressure chain.
Applications include packaging lines in the accumulation areas especially around the palletizers.

LBP 882T (Radius)
LBP 882T is a tabbed heavy duty radius and straight running low-back-pressure chain.
Applications include packaging lines in the accumulation areas especially around the palletizers.

Case chain 600 (Radius)
600 is a heavy duty 2.5" (63.50 mm) pitch radius and straight running closed top case conveyor chain.
Applications include crate washers, empty keg lines and case conveyors.

Case chain 1400 (Radius)
1400 is a heavy duty 3.5" (82.5 mm) pitch radius and straight running open top case conveyor chain.
Applications include crate washers, full keg lines and case conveyors.

Case chain 3200 (Straight)
3200 is a heavy duty 2" (50.8 mm) pitch straight running case conveyor chain.
Applications include poultry conveyance and case conveyors.

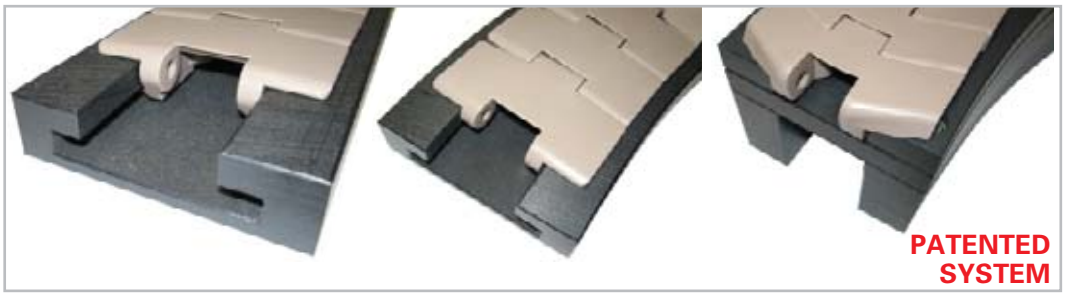
Case chain 3210T (Radius)
3210T is a tabbed heavy duty 2" (50.8 mm) pitch radius and straight running case conveyor chain.
Applications include poultry conveyance and case conveyors.

Bottling Specific HabaCHAIN®
Slat and Conveyor Chains

Conveyor system chain 7100L (Plastic Pin)
7100L is a radius and straight running chain for light applications. Applications are in end-line on aluminum modular structure, including various packaging lines. The patented retaining system makes it simple to disassemble and join the chain with only a screwdriver.

Snap-on 1873+L4 (Radius)
1873+L4 tabbed is a heavy duty radius and straight running 4 finger style gripper chain. It is a two piece system that has a metallic 3/4" pitch 1873 roller chain with snap-on plastic top plates with a gripper. Applications include rinsers, elevators and lowerators.

Snap-on 1873+D1 (Radius)
1873+D1 is a tabbed heavy duty radius and straight running D style gripper chain. It is a two piece system that has a metallic 3/4" pitch 1873 roller chain with snap-on plastic top plates with a gripper. Applications include rinsers, elevators and lowerators.

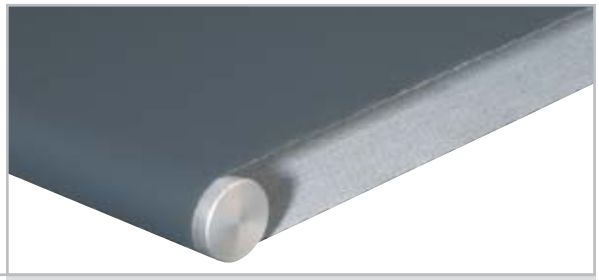


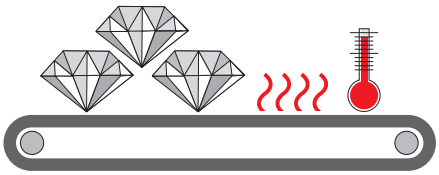
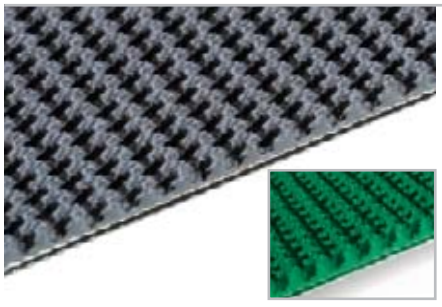
Straight Track **Corner Track** **Magnetic Track**

Habasit offers a complete range of tracks for all chains with a large choice of materials to meet all your conveying applications.
Our specialists will be pleased to analyze your requirements and propose the best solution for your needs.

Features and Benefits
HabaFLOW® Fabric Coated Belts

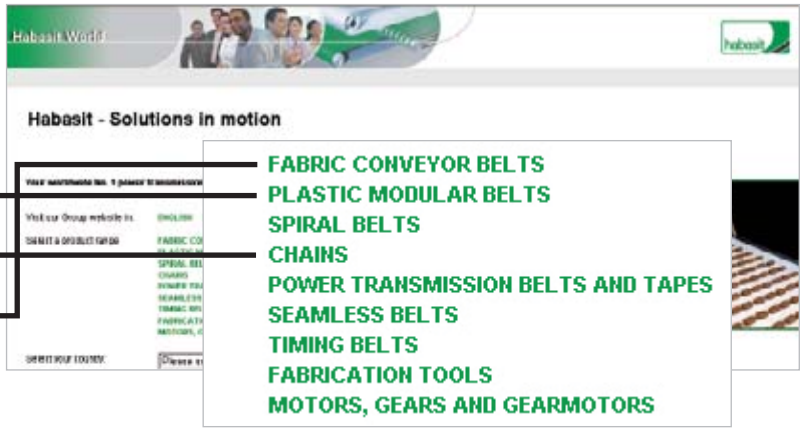
HabaFLOW® fabric coated TPU conveyor and processing belts combine many features that are supporting reliable and hygienic production processes. In the wrapping and packaging applications rubber coated belts ensure excellent performance and reliable feeding.



	Features	Benefits
	• **A wide range of different surface types and belt strengths available**	→ **Appropriate selection for a specific application** → **Optimum adaptation to needs of the process (tailor-made solutions)**
	• **Longitudinal flexibility** • **High precision coating process**	→ **Belts can cope with small pulley diameters** → **Smooth and trouble-free product transfer** → **Closed, most homogeneous belt surface** → **Easy to clean**
	• **Wear resistant** • **Good temperature resistance**	→ **Abrasion resistant** → **Long service life** → **Suitable for wide temperature range**
	• **Rubber coated belts** • **Different rubber hardness and surface**	→ **Gentle, reliable treatment of packages** → **Different coefficient of friction** → **No marking on conveyed goods** → **Wear resistant** → **High grip, reliable feeding**

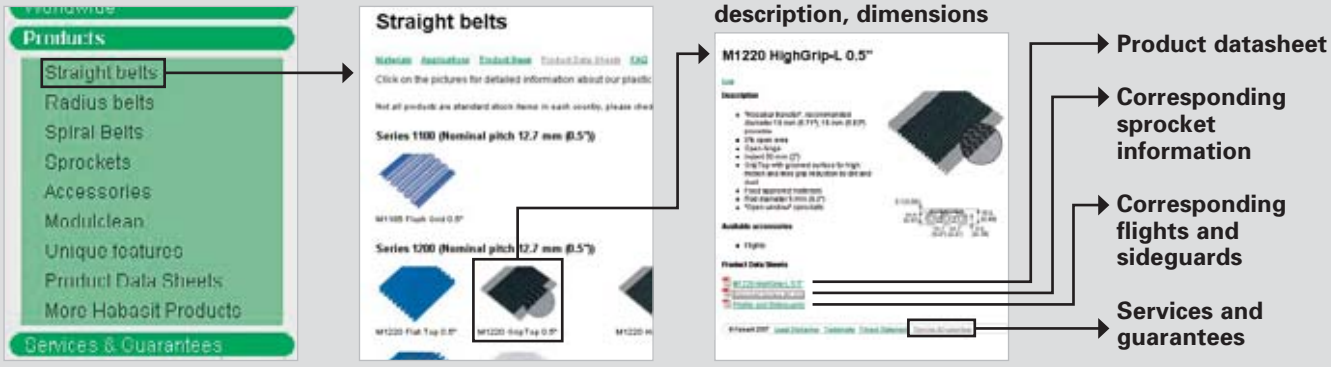
Belt surface structures (selection only)	
Blank / smooth	Rough textile impression
Waffle structure	Elliptical structure
Grip structure (rough top)	Fish / herringbone structure
Jink wave grip structure	Quadrillé (quadrangular pattern)

www.habasit.com for in-depth information on products and applications as well as for detailed technical data and engineering tips.



www.habasitlink.com
www.kvp-inc.com
www.habachain.com
www.habaflow.com

www.habasitlink.com

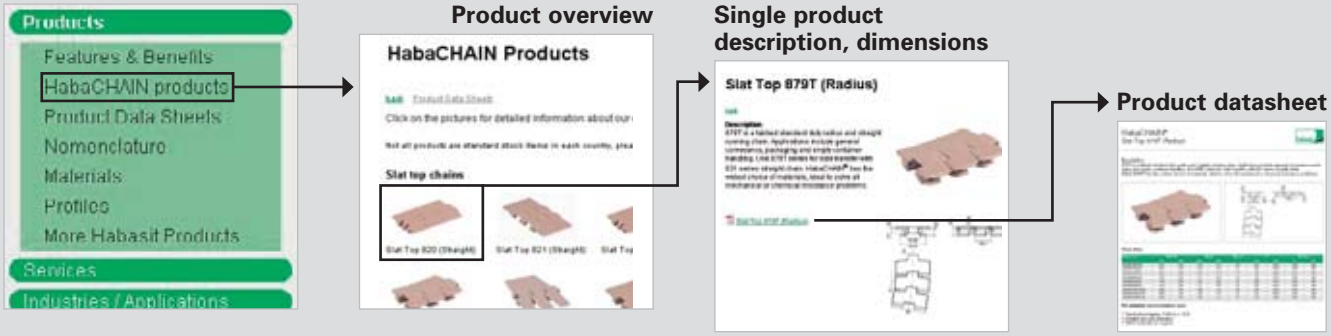


Product overview

Single product description, dimensions

- Product datasheet
- Corresponding sprocket information
- Corresponding flights and sideguards
- Services and guarantees

www.habachain.com

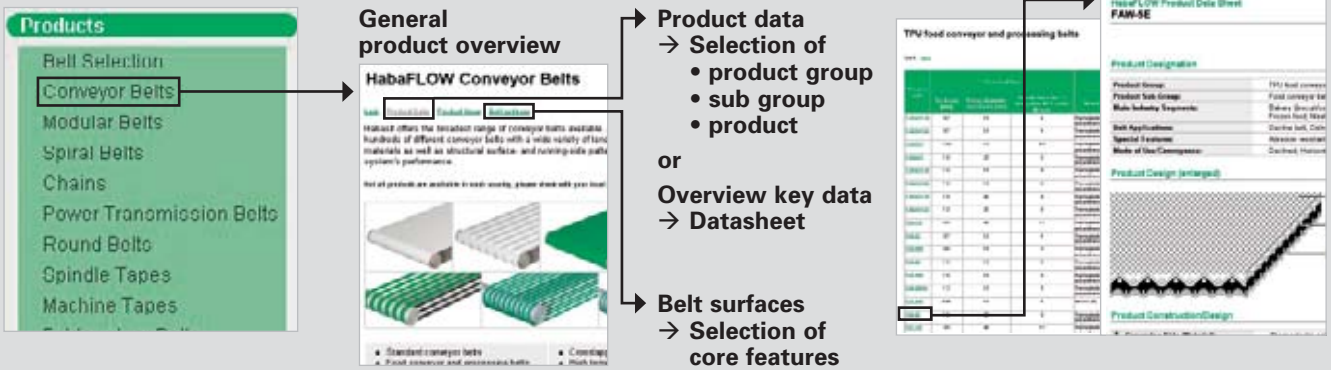


Product overview

Single product description, dimensions

- Product datasheet

www.habaflow.com



General product overview

- Product data
  → Selection of
  - product group
  - sub group
  - product

  or

  Overview key data
  → Datasheet
- Belt surfaces
  → Selection of core features

Complementary Products: HabiPLAST® Profiles, Guides, Wear Strips

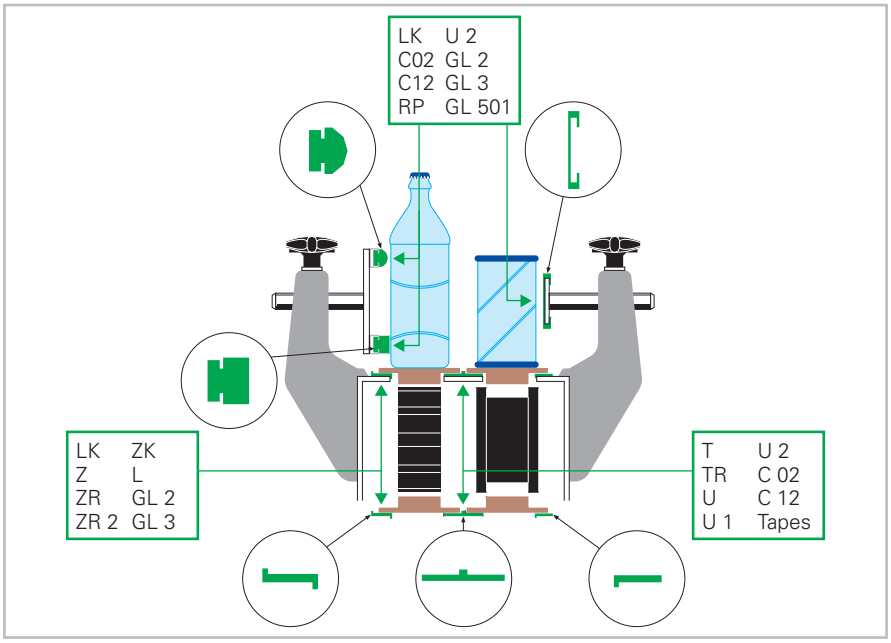
HabiPLAST® extruded profiles are the optimal and ideal complement for HabaCHAIN® and HabasitLINK® products.

HabiPLAST® extruded profiles are widely used in bottling and packaging as:

- Wear strips for table top chains
- Guide profiles
- Corner and straight ways for side HabaCHAIN® plastic chains

Habasit offers a full range of extruded guides and will assist you to develop the best solution for your application.

Examples for shape and alignment of HabiPLAST® profiles, guides and wear strips in beverage applications:



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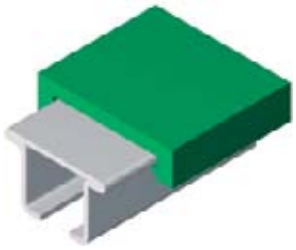
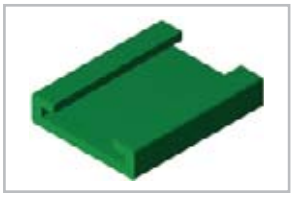


- **Great wear resistance**
- **Low coefficient of friction**
- **Low noise**
- **Good impact resistance, even at low temperature**
- **High chemical resistance**
- **Corrosion resistance**
- **Easy and quick assembling**

Extruded profiles (selection only)
For detailed information please consult the HabiPLAST® brochure (Media No. 4097) or visit website www.habasit.com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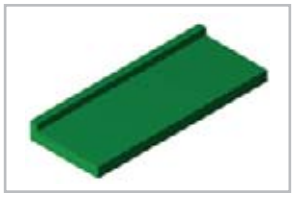
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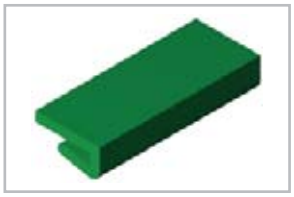
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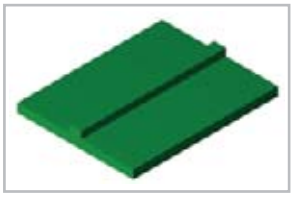
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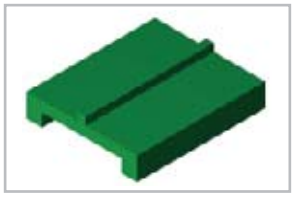
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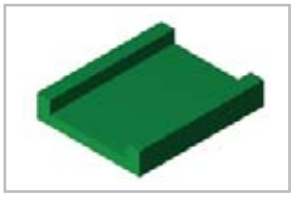
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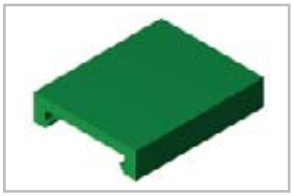
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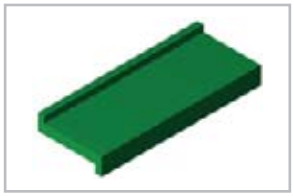
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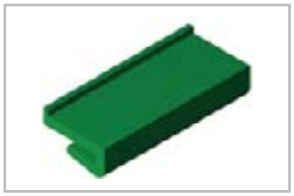

Profile ZK

Complementary Products: Motors, Gears, Gearmotors

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 gear reducers (catalogue **L99**)
- Asynchronous three-phase motors (catalogue **TX 06**)
- Inverter (catalogue **I03**)

Washing Machines, equipped with:

- Worm gear reducers (catalogue **A04**)
- Right angle shaft gearmotors (catalogue **G05**)
- Inverter (catalogue **I03**)

Conveyors group, equipped with:

- Worm gearmotors (catalogue **AS07 STANDARDFIT**)
- Coaxial gearmotors (catalogue **ES07 STANDARDFIT**)
- Integrated low backlash planetary servogearmotors (coaxial and right angle shafts), synchronous and asynchronous servomotors (catalogue **SM03**)
- Synchronous and asynchronous servogearmotors (with worm gear, coaxial, parallel and right angle shafts) (catalogue **SR04**)

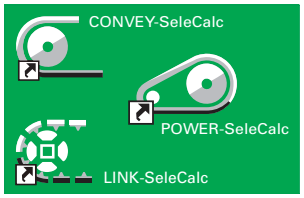
For further product information see www.rossi-group.com

**Comprehensive services are central to Habasit's solution approach.
As committed partners to our customers, we are dedicated to sharing our knowledge and to providing full support.**

Modular belt innovation center – Bottling test loop
The new modular belt innovation center with a bottling test loop (capacity 30,000 bph) allows verifying the modular belts and chains performance under application conditions. All typical bottles and containers e.g. aluminum cans, glass bottles, PET and steel containers can be tested in combination with HabasitLINK® modular belts and HabaCHAIN® products. Tests like:

- Functionality of accumulation, combiner / decombiner and 90° transfer
- Friction and abrasion tests
- Energy consumption
- Installation and maintenance
- Customer specific tests

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 proudly provides the highest levels of support and top-quality products enjoyed by the global market for over 60 years.



Assistance with belt selection and calculation
We will select and calculate the most suitable belt for your specific application. You may 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.

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 33 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 support tools to ensure optimal use of our products and to prolong their lifecycles. 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, e.g. 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.

The Habasit Solution

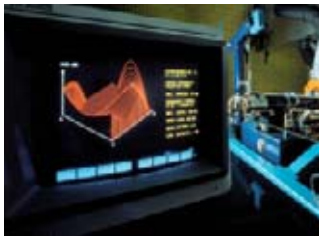
At Habasit, we listen to our customers, innovate continuously and deliver reliable solutions to meet your every need.

Customers come first

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

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

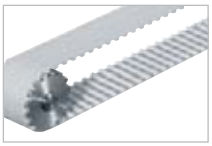
Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is nothing less than a specific, tailor-made solution.

A selection of our product ranges:

HabaFLOW®
Fabric based conveyor and processing belts

HabasitLINK®/ KVP
Plastic modular belts

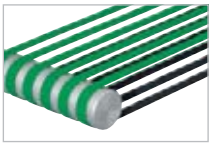
HabaDRIVE®
Power transmission belts



HabaSYNC®
Timing belts

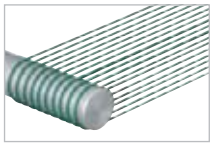
HabaCHAIN®
Chains (slat and conveyor chains)

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 sale of gear reducers, gearmotors, inverters, standard and brake motors.

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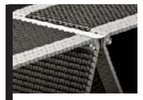
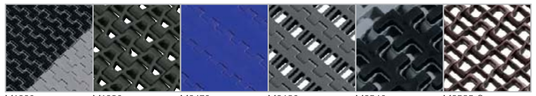
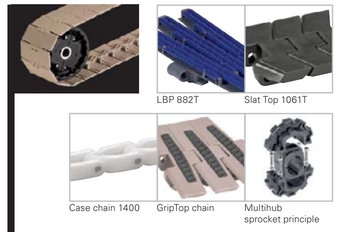
Belt Selection Table for Beverage Applications (Selection only)

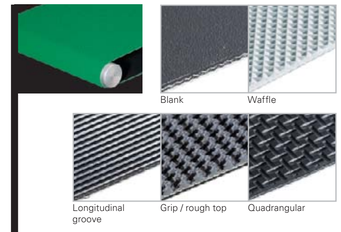
HabasitLINK® plastic modular belts

Belt code and style	M1220 Flat Top	M1220 GripTop	M1220 HighGrip-L	M1230 Flush Grid / SM605 (Smooth Mesh)	M2420 Flat Top	M2470 Flat Top	M2480 Flush Grid	M2531 Raised Rib	M2533 Flush Grid	M2520 / M2533 GripTop	M2540 Radius Flush Grid / IS610-R (All-In-One)	M2540 Radius GripTop	M2585-S0 Flush Grid / F52 (1/2"×1/2" Flat Wire)	M2620 Flat Top Heavy Duty	M2620 GripTop	M2620 Roller Top - LBP	M2670 Flat Top Heavy Duty	M2670 GripTop	M3843 Tight Radius	M3843 Tight Radius GripTop	IS615-R (All-In-One)	M5131 Raised Rib	M6420 Flat Top Heavy Duty
	0.5" pitch				1" pitch			1" pitch						1" pitch					1.5" pitch			2"	2.5"
Beverage processes																							
Can filling (soft drinks / beer)																							
Can depalletizing				POM+EC			POM+EC	POM+EC PP+EC	POM+EC														
Mass conveyance cans				POM			POM		POM														
Single file lines							POM		POM														
Grip elevator																							
Cap sealing				POM			POM		POM														
Decombiner				POM			POM		POM														
Accumulation tables				POM			POM PP	POM PP	POM							POM						PP	
Pasteurizers / Warmers / Coolers							PP	PP	PP													PP	
Combiner				POM			POM		POM														
Shrink wrapping													PA+GF ST										
Accumulation packed cans																POM							
Wide turns 180° / 90°											POM	POM							POM	POM	POM		
Incline / Decline conveyors		POM PP	POM PP							POM		POM PP			POM PP			POM PP					
Tray palletizing	POM PP			POM PP	POM PP	POM PP	POM PP	POM PP	POM PP					POM PP			POM PP						
Pallet conveyance																							POM
Glass bottles (soft drinks / beer / mineral water)																							
Decaser														POM									
Case / Crate handling					POM	POM	POM		POM	POM PP				POM	POM PP		POM	POM PP					
Mass conveyance returnable glass					POM	POM	POM							POM			POM						
Glass depalletizing one way glass					POM	POM		POM						POM			POM					PP	
Mass conveyance one way glass					POM	POM								POM			POM						
Combiner					POM									POM			POM						
Single file lines					POM		POM							POM			POM						
Grip elevator																							
Cap feeding	POM PP	POM PP	POM PP	POM PP			POM PP		POM PP	POM PP													
Cap sealing																							
Labeller																							
Decombiner					POM									POM			POM						
Pasteurizers / Warmers / Coolers							PP	POM PP	PP													PP	
Accumulation tables	POM			POM	POM	POM	POM	POM	POM					POM			POM					PP	
Incline / Decline conveyors										POM		POM PP			POM PP			POM PP					
Pallet conveyance														POM									POM
PET (soft drinks / mineral water)																							
PET depalletizing	POM PP			POM	POM PP	POM PP	POM																
Mass conveyance PET plastic	POM PP				POM	POM	POM																
Single file lines					POM	POM	POM																
Grip elevator																							
Cap feeding	POM PP	POM PP	POM PP	POM PP			POM PP		POM PP	POM PP													
Cap sealing																							
Shrink wrapping													PA+GF ST										
Accumulation packed bottles																POM							
Wide turns 180° / 90°											POM	POM									POM		
Incline / Decline conveyors		POM PP	POM PP									POM PP			POM PP			POM PP					
PET palletizing	POM PP			POM	POM PP	POM PP		POM PP						POM			POM						
Pallet conveyance														POM									POM
Liquid carton filling																							
Carton making and folding																							
General conveying																							
Single file lowerator / elevator																							
Palletizer	POM PP			POM	POM PP	POM PP		POM PP						POM			POM						
Keg filling																							
Empty keg conveyance														POM			POM						POM
Full keg conveyance														POM			POM						POM
Full keg accumulation																							POM



HabaCHAIN® slat and conveyor chains (plastic and steel chains)

Beverage processes	Slat Top 820 (Straight)	Slat Top 821 (Straight)	Slat Top 831 (Straight)	Slat Top 879T (Radius)	Slat Top 770T (Radius)	Slat Top 880T (Radius)	Slat Top 882T (Radius)	LBP 821 (Straight)	LBP 882T (Radius)	Slat Top 1061T for M2420 / M2470	Case chain 600 (Radius) 2.5"	Case chain 1400 (Radius) 3.25"	Case chain 3200 (Straight)	Case chain 3210 (Radius)	Conveyor System Chain 7100	Gripper chains 1873 +L4 / +D1	GripTop chains
Can filling (soft drinks / beer)																	
Can depalletizing																	
Mass conveyance cans																	
Single file lines																	
Grip elevator																	
Cap sealing																	
Decombiner																	
Accumulation tables																	
Pasteurizers / Warmers / Coolers																	
Combiner																	
Shrink wrapping																	
Accumulation packed cans																	
Wide turns 180° / 90°																	
Incline / Decline conveyors																	
Tray palletizing																	
Pallet conveyance																	
Glass bottles (soft drinks / beer / mineral water)																	
Decaser																	
Case / Crate handling																	
Mass conveyance returnable glass																	
Glass depalletizing one way glass																	
Mass conveyance one way glass																	
Combiner																	
Single file lines																	
Grip elevator																	
Cap feeding																	
Cap sealing																	
Labeller																	
Decombiner																	
Pasteurizers / Warmers / Coolers																	
Accumulation tables																	
Incline / Decline conveyors																	
Pallet conveyance																	
PET (soft drinks / mineral water)																	
PET depalletizing																	
Mass conveyance PET plastic																	
Single file lines																	
Grip elevator																	
Cap feeding																	
Cap sealing																	
Shrink wrapping																	
Accumulation packed bottles																	
Wide turns 180° / 90°																	
Incline / Decline conveyors																	
PET palletizing																	
Pallet conveyance																	
Liquid carton filling																	
Carton making and folding																	
General conveying																	
Single file lowerator / elevator																	
Palletizer																	
Keg filling																	
Empty keg conveyance																	
Full keg conveyance																	
Full keg accumulation																	



HabaFLOW® fabric based conveyor and processing belts

Beverage processes	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
Can filling (soft drinks / beer)																	
Can depalletizing																	
Mass conveyance cans																	
Single file lines																	
Grip elevator																	
Cap sealing																POM PP	POM PP
Decombiner																	
Accumulation tables																	
Pasteurizers / Warmers / Coolers																	
Combiner																	
Shrink wrapping		POM PP	POM PP					POM PP	POM PP	POM PP							
Accumulation packed cans																	
Wide turns 180° / 90°																	
Incline / Decline conveyors			POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP
Glass bottles (soft drinks / beer / mineral water)																	
Decaser																	
Case / Crate handling																	
Mass conveyance returnable glass																	
Glass depalletizing one way glass																	
Mass conveyance one way glass																	
Combiner																	
Single file lines																	
Grip elevator																	
Cap feeding																	
Cap sealing																POM PP	POM PP
Labeller		POM PP															
Decombiner																	
Pasteurizers / Warmers / Coolers																	
Accumulation tables																	
Incline / Decline conveyors			POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP
Pallet conveyance		POM PP										POM PP					
PET (soft drinks / mineral water)																	
PET depalletizing																	
Mass conveyance PET plastic																	
Single file lines																	
Grip elevator																	
Cap feeding																	
Cap sealing																POM PP	POM PP
Shrink wrapping		POM PP						POM PP	POM PP	POM PP							
Accumulation packed bottles																	
Wide turns 180° / 90°																	
Incline / Decline conveyors			POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP
PET palletizing		POM PP															
Pallet conveyance												POM PP					
Liquid carton filling																	
Carton making and folding								POM PP									
General conveying		POM PP		POM PP	POM PP	POM PP	POM PP	POM PP		POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP	POM PP
Single file lowerator / elevator																	
Palletizer		POM PP										POM PP					
Keg filling																	
Empty keg conveyance																	
Full keg conveyance																	
Full keg accumulation																	

HabaDRIVE® power transmission belts

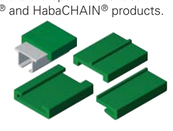
Beverage processes	Grabber belts	CM-14/40F	TC-20EF	S-14/40D	S-10/40
Can filling (soft drinks / beer)					
Can depalletizing					
Mass conveyance cans					
Single file lines					
Grip elevator					
Cap sealing					
Decombiner					
Accumulation tables					
Pasteurizers / Warmers / Coolers					
Combiner					
Shrink wrapping					
Accumulation packed cans					
Wide turns 180° / 90°					
Incline / Decline conveyors					
Tray palletizing					
Pallet conveyance					
Glass bottles (soft drinks / beer / mineral water)					
Decaser					
Case / Crate handling					
Mass conveyance returnable glass					
Glass depalletizing one way glass					
Mass conveyance one way glass					
Combiner					
Single file lines					
Grip elevator					
Cap feeding					
Cap sealing					
Labeller					
Decombiner					
Pasteurizers / Warmers / Coolers					
Accumulation tables					
Incline / Decline conveyors					
Pallet conveyance					
PET (soft drinks / mineral water)					
PET depalletizing					
Mass conveyance PET plastic					
Single file lines					
Grip elevator					
Cap feeding					
Cap sealing					
Shrink wrapping					
Accumulation packed bottles					
Wide turns 180° / 90°					
Incline / Decline conveyors					
PET palletizing					
Pallet conveyance					
Liquid carton filling					
Carton making and folding					
General conveying					
Single file lowerator / elevator					
Palletizer					
Keg filling					
Empty keg conveyance					
Full keg conveyance					
Full keg accumulation					

Legend

- Imperial width
- POM PP — applicable and code of available standard belt material (material description – see inner fold)
- applicable
- not applicable

Complementary Product: Profiles, Guides, Wear Strips

HabiPLAST® extruded profiles are the optimal and ideal complement for HabasitLINK® and HabaCHAIN® products. For detailed information please consult the HabiPLAST® brochure 4097 Guides for Roller Chains and Belts, Extruded Profiles and Accessories or visit website www.habasit.com



Complementary Product: Motors, Gears, Gearmotors

The Habasit partner Rossi Motoriduttori is one of Europe's largest groups for the production of gear reducers, gearmotors, electronic speed variation and brake motors. For detailed information please visit website www.rossi-group.com

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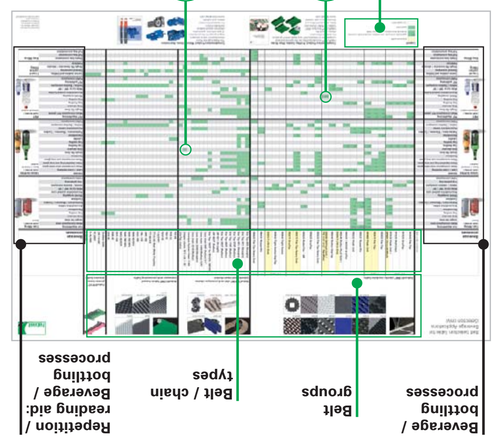
Modular belt material description

Material	**Code**	Property	Food approval[1)]	Density g/cm³	Temperature range	Habasit colors
Polypropylene	**PP**	Thermoplastic material with good cost/performance relation (material for most of the common conveying applications). Excellent chemical resistance to acids and alkalines. High impacts below 10 °C *(50 °F)* must be avoided.	EU FDA	0.9	+5 °C to +105 °C *+40 °F to +220 °F*	white gray blue
Polyoxymethylene (Acetal)	**POM** (AC)	Thermoplastic material with high strength and low coefficient of friction. Impact and cut resistant surface. Suitable for heavy conveying applications and low temperatures. Good chemical resistance to oil and alkalines, but not suitable for long-term contact with high concentration of acids and chlorine. For HabaCHAIN® slat and conveyor chains various types are available like LF (Low-Friction POM) and PT (Extra Low-Friction POM).	EU FDA	1.42	wet conditions: -40 °C to +60 °C *-40 °F to +140 °F* dry conditions: -40 °C to +90 °C *-40 °F to +195 °F*	blue white dark gray
Electrically conductive Polyoxymethylene (Acetal)	**POM** (AC) Code addition **+EC**	Thermoplastic material with a low electrical surface and volume resistance. Electrical surface resistivity ρs below 50'000 Ohm/sq (DIN/EN 1637). Material has a high strength and low coefficient of friction. Suitable for heavy conveying applications and low temperatures. Technical data like standard POM.		1.42	dry conditions: -40 °C to +90 °C *-40 °F to +195 °F*	black
Polyamide reinforced	**PA** Code addition **+GF**	Reinforced thermoplastic material with high strength. Suitable for heavy conveying applications at dry conditions and elevated temperatures. Material is specially modified to keep its good properties stable over a long time at elevated temperatures. Flammability UL94 HB.	EU FDA	1.41	wet conditions: not recommended dry conditions: 0 °C to +145 °C (short-term +175°C) *+32 °F to +293 °F* (short-term *+347 °F*)	dark brown
Super High Temperature	**ST**	Reinforced thermoplastic material with very good heat and hydrolysis resistance. Suitable for light conveying applications at elevated temperatures. Material is specially modified to keep its good properties stable over a long time at elevated temperatures. Flammability UL94 V0, ISO-340.	EU FDA	1.65	wet conditions: on request dry conditions: 0 °C to +200 °C (short-term +240 °C) *+32 °F to +392 °F* (short-term *+464 °F*)	beige or dark brown

[1)] For detailed food approval, please contact Habasit

Recommendations
The listed selection tables contain standard materials and **are recommendations only**. Due to the complexity of various processes, technical requirements and decisive external influences (e.g. shape and size of transported goods, process speed, steps of treatment / handling, environment or process temperature, humidity, chemicals, etc.) other belt types or materials may be used as well. For details or further information please contact your local Habasit partner.

Belt Selection Table for
Beverage Applications (Selection only)

Fold up poster contents