

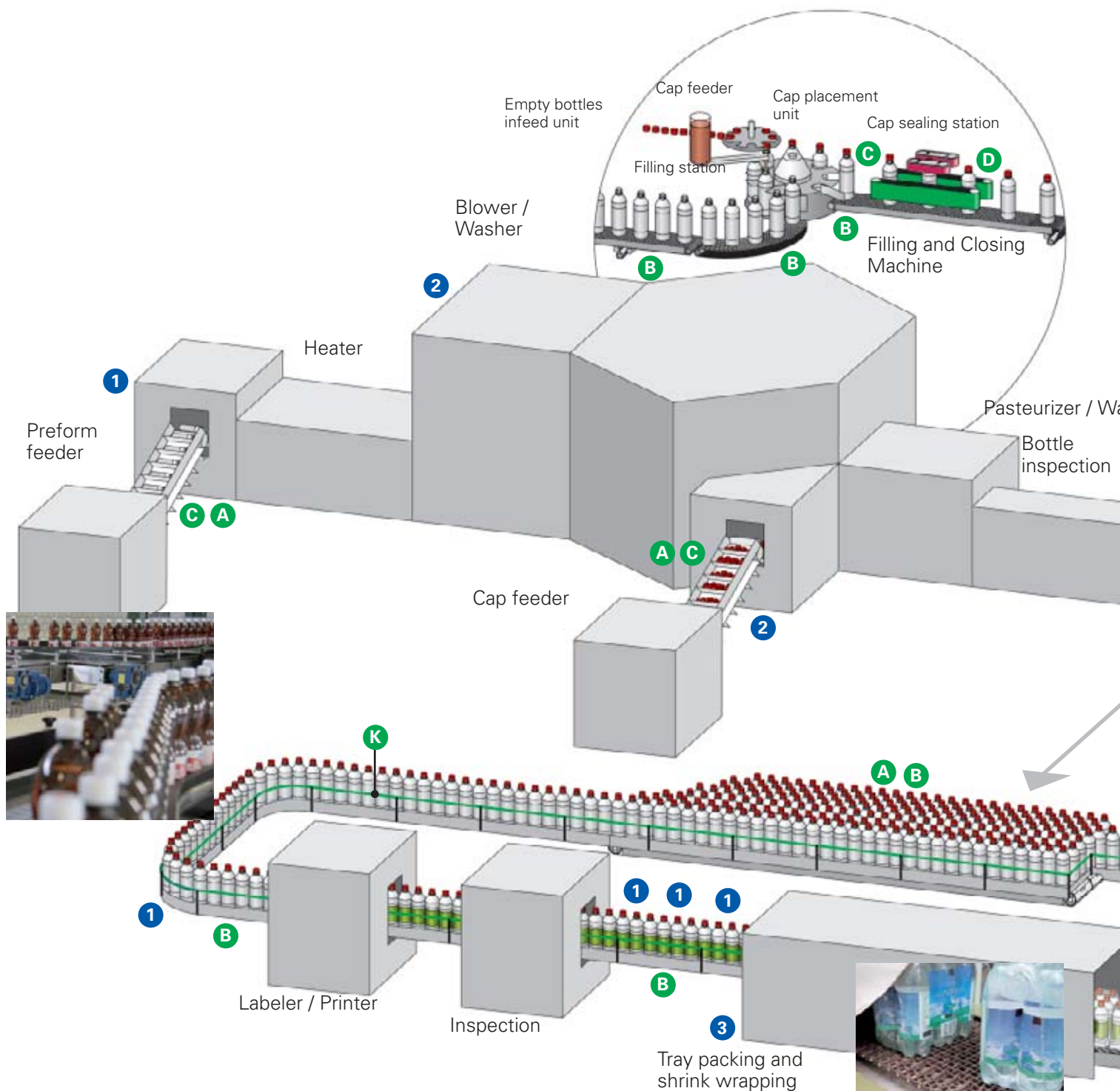
Beverage Industry Belts, Chains and Complementary Products







Bottle Filling

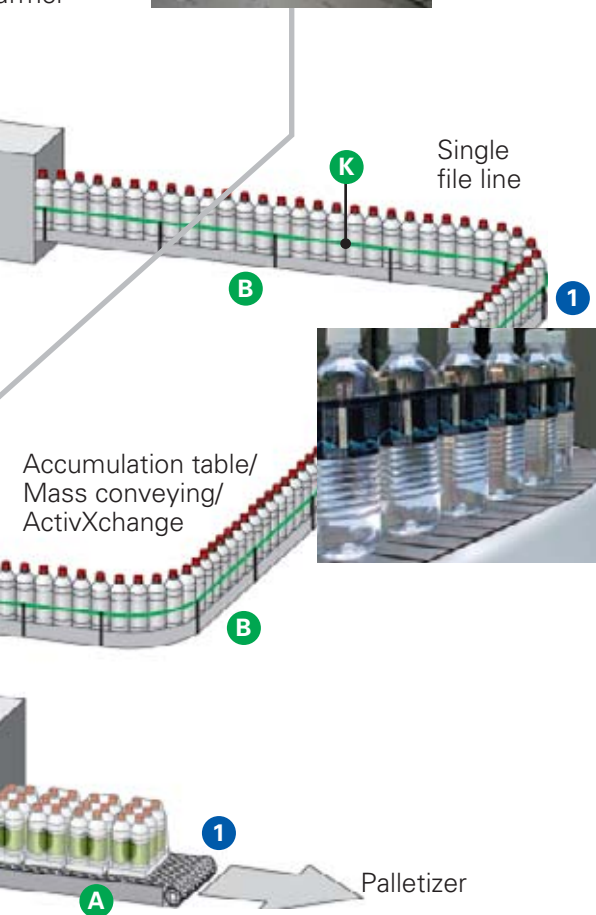




ActivXchange



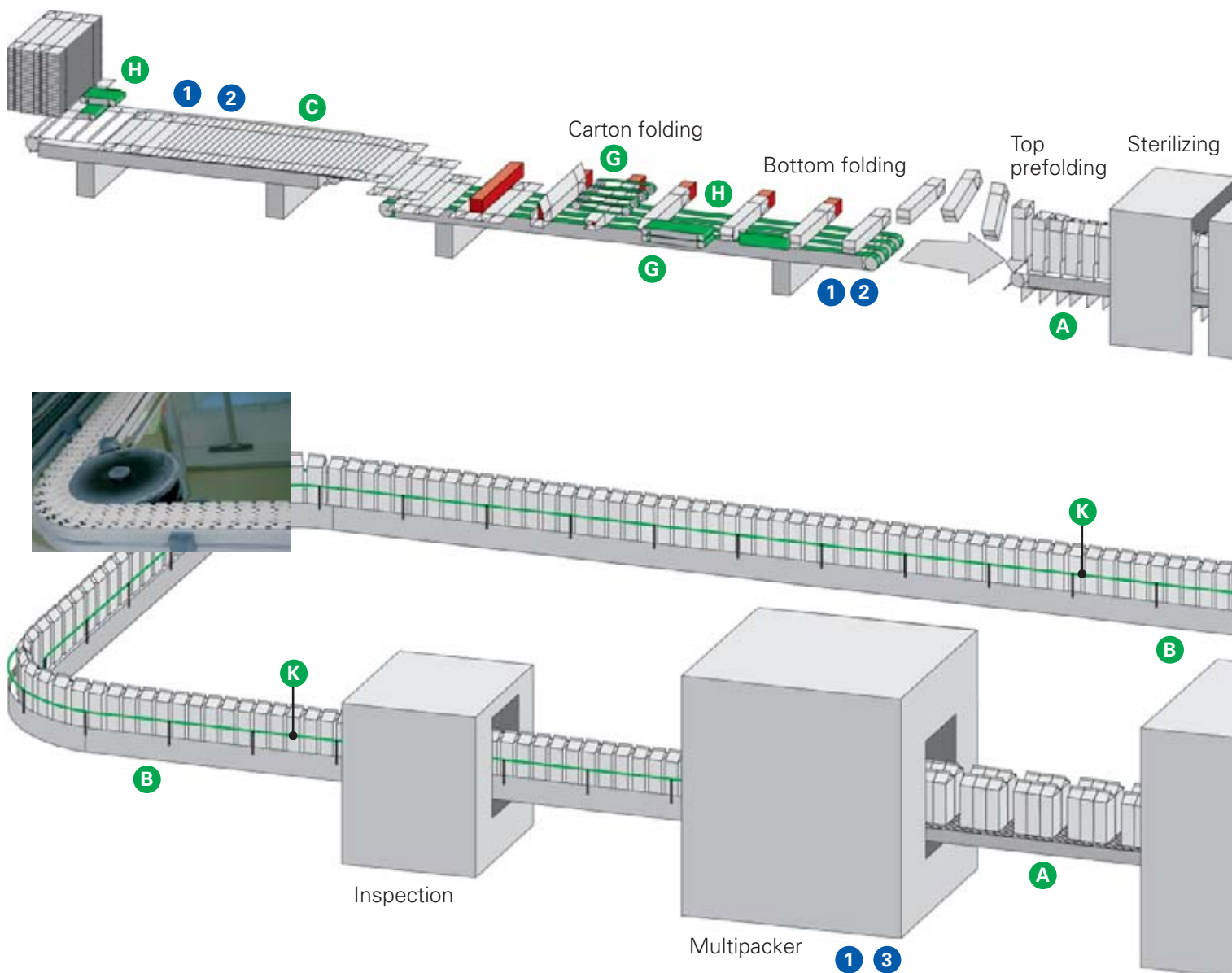
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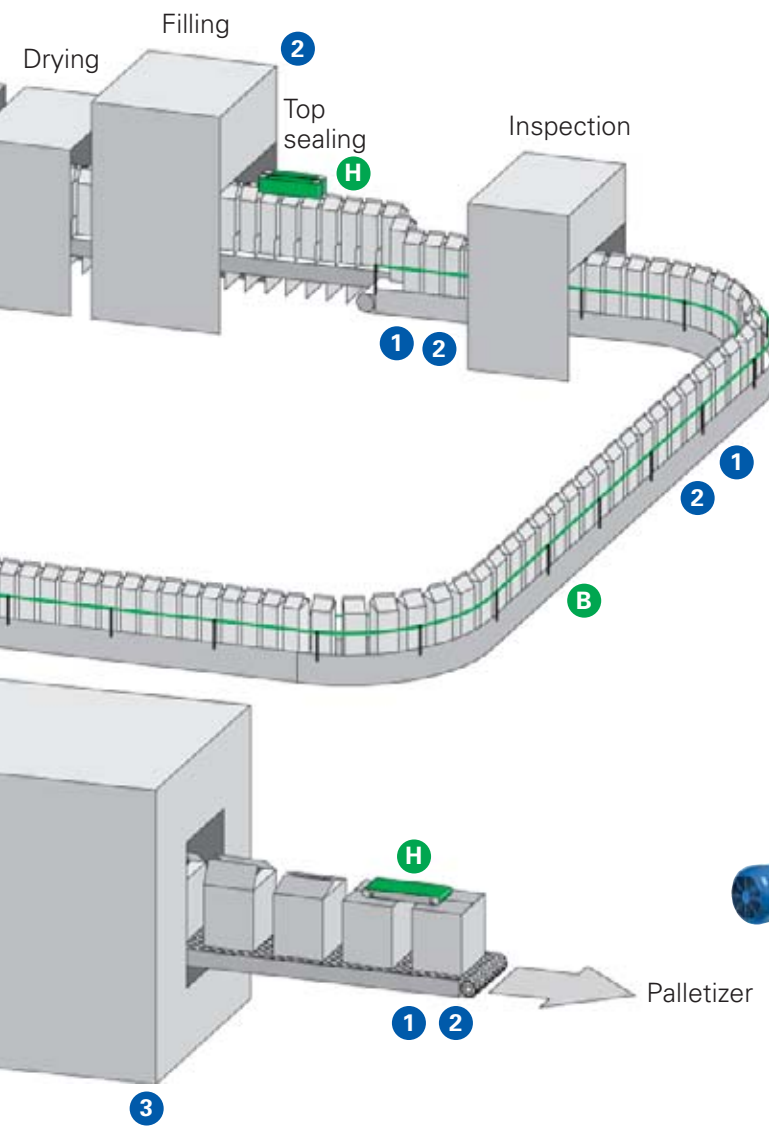


Process / Application Overview (Schematic)

Liquid Carton Production and Filling

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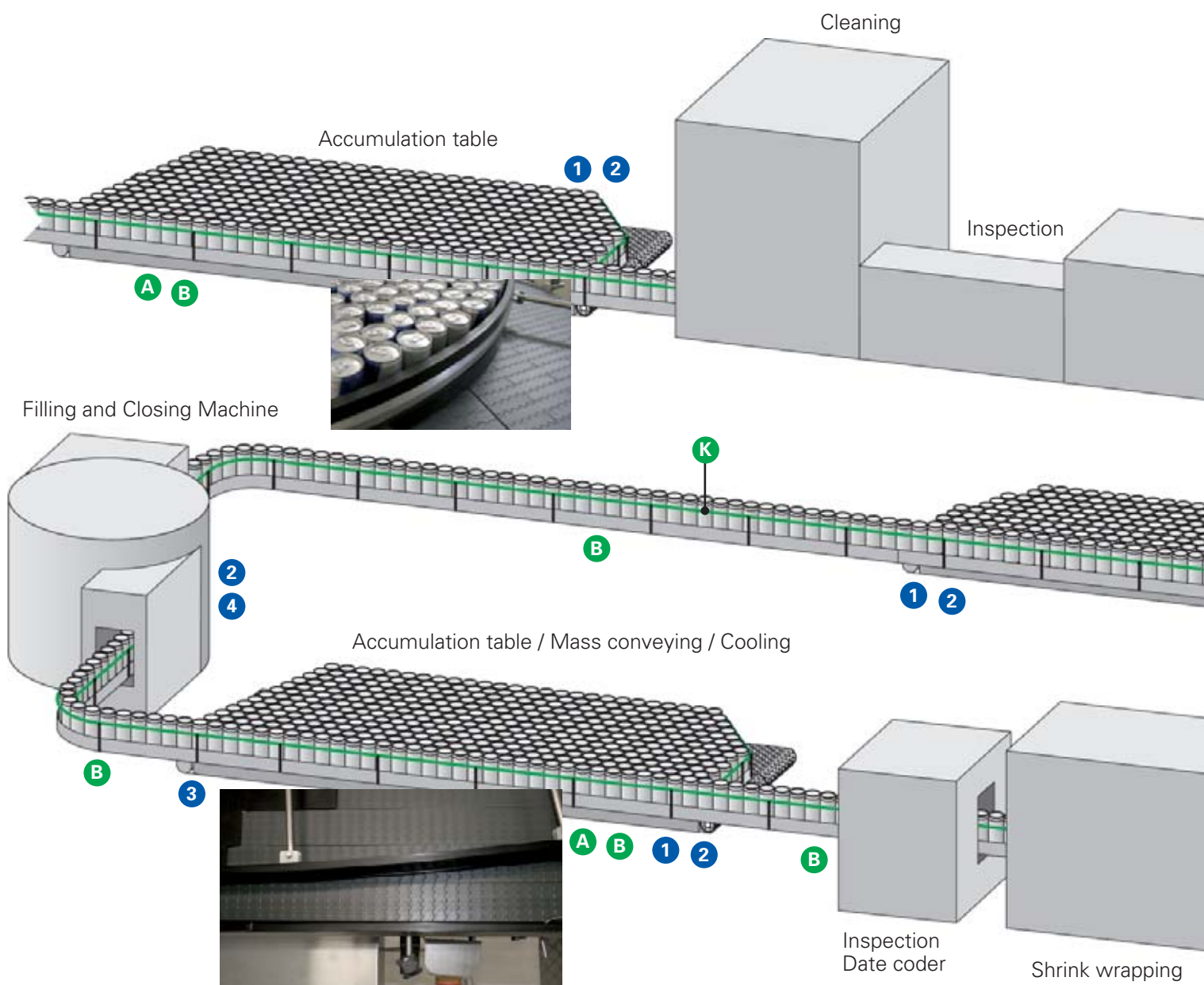




Process / Application Overview (Schematic)

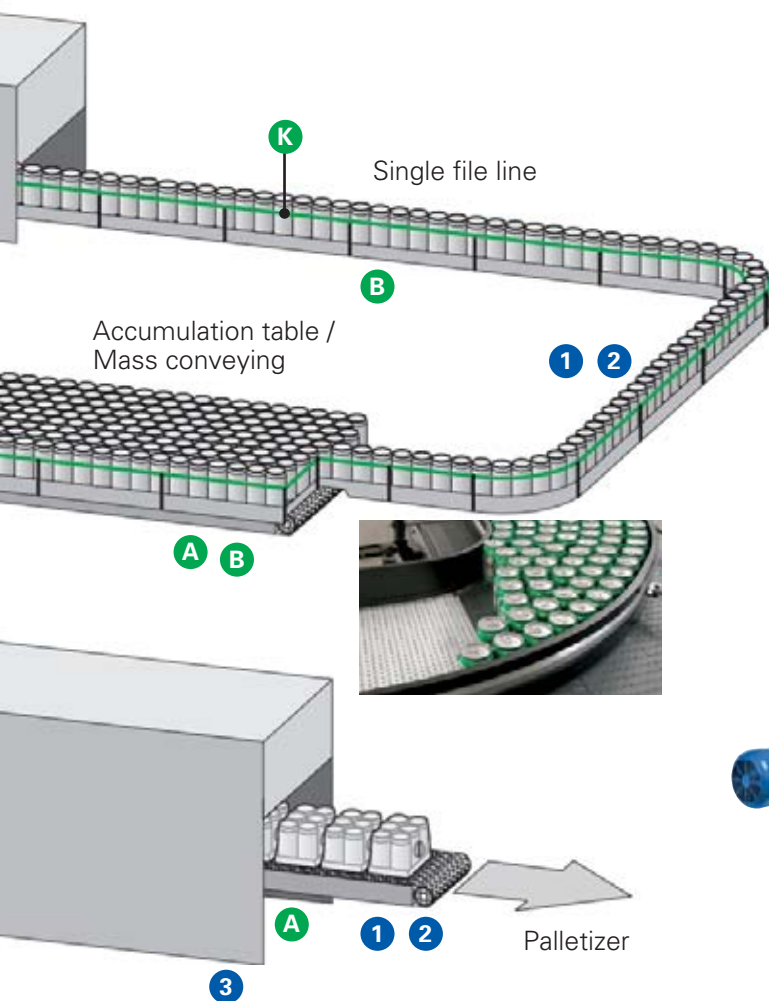
Can Filling

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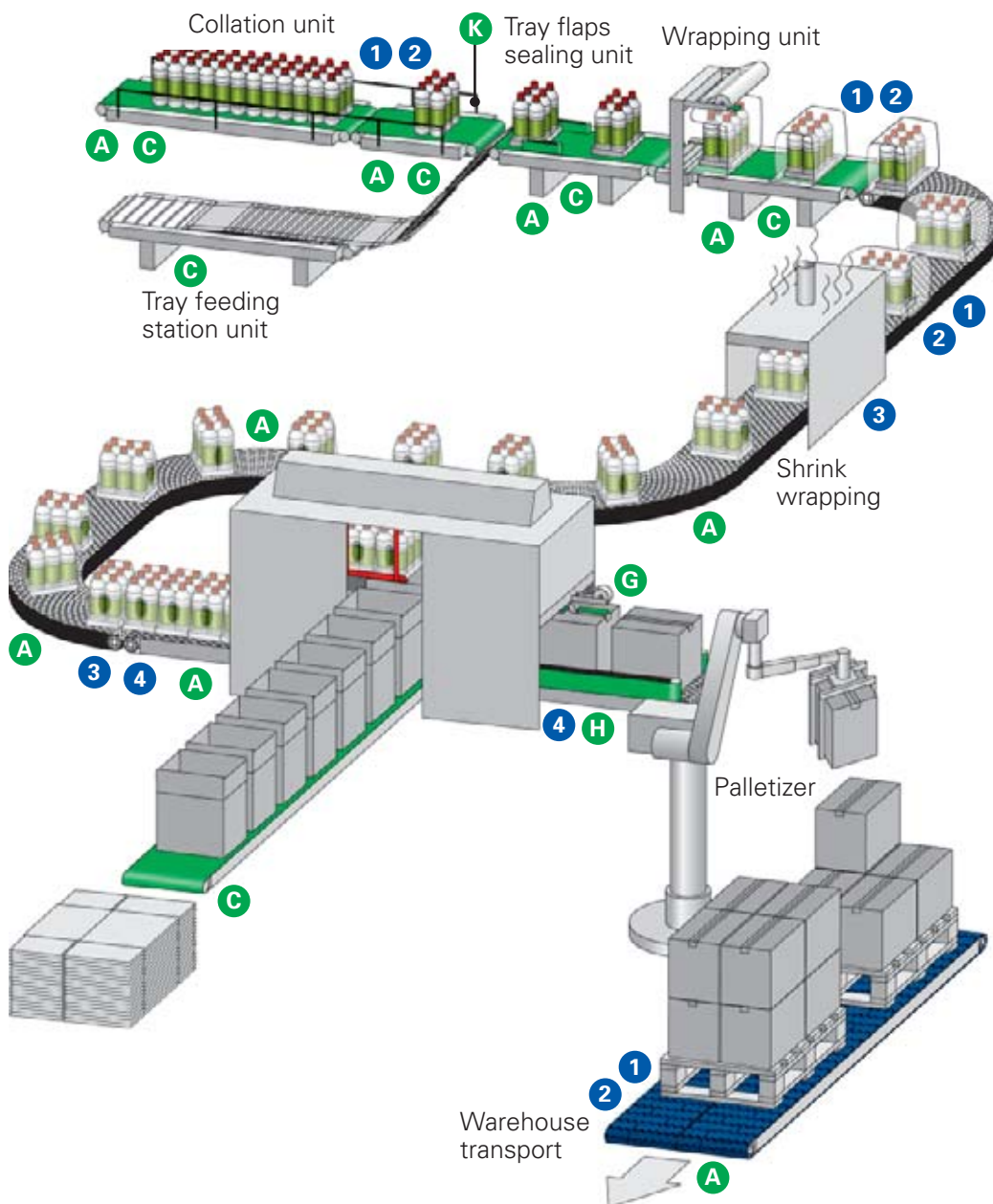
Inside coating
Drying



Process / Application Overview (Schematic)

Case, Crate and Tray Packaging and Handling

10



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	
KVP® Plastic modular belts		• PA (Polyamide) • POM/AC (Polyoxymethylene/Acetal) • PP (Polypropylene) • High temperature materials	4000	 
Slat and conveyor chains		• POM standard, low-friction, extra-low-friction, self-lubricating • Wear-resistant/wet/dry (PT) • PA heat-stabilized (NY)	4122	 
Fabric based conveyor and processing belts		• PVC coated • TPU coated • Rubber coated • Silicone coated • Nonwoven	4063 / 4101	 
Power transmission belts		• Polyester with NBR cover • Polyamide with Habidur Rubber cover • Rubber coated seamless belts (GRABBER®)	4132	 
Timing belts		• Polyurethane • Steel cord tensile member • Aramide tensile member	4107	 

Complementary products

Profiles, guides, wear strips		See a more detailed description on page 28
Gear reducers, gearmotors, motion control, electric motors		See a more detailed description on page 29

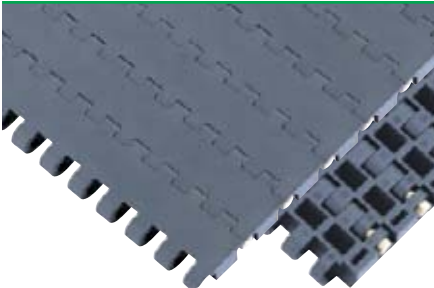
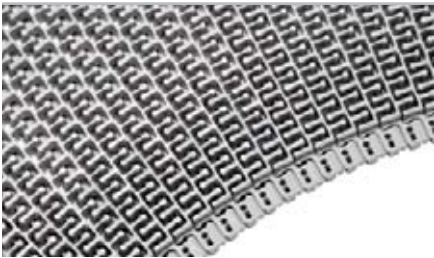
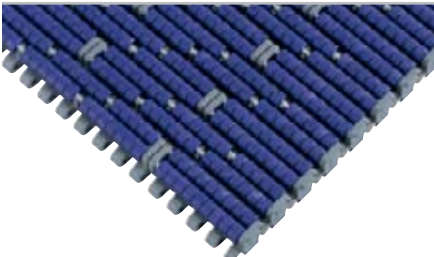
Features and Benefits

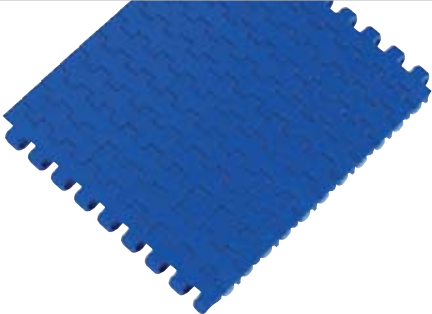
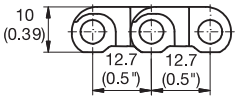
/ KVP® Plastic Modular Belts

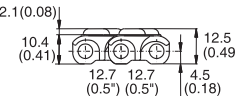
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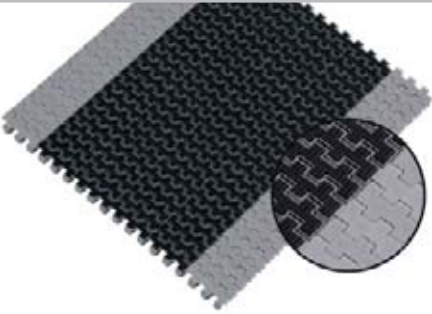
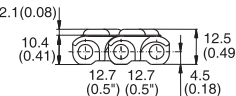
Based on our comprehensive experience and our leadership position in fabric belting, Habasit has developed the / KVP® modular belt ranges. Completely ejector mark free surfaces, rounded edges, smooth designs stand for state-of-the-art hygienic modular belting. Where lubrication and downtime needs to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

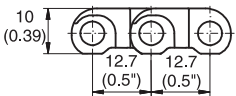


Features		Benefits
	• Excellent flat surface structure • Rounded edges • Strong link design • High strength	→ Smooth running at high speed → Virtually no container tipping → Virtually no belt damage, even with broken glass (M2620 / M2670) → Downtime reduction
	• Small opening on reverse side	→ No space 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 shrunk plastic or cardboard → Smooth running, low noise

	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 F'_N straight run	N/m lb/ft	11000 754	6000 411	16000 1096	18000 1233		

	M1220 GripTop 0.5"							
	Open area	0 %						
	Open hinge	yes						
	Belt material		PP					
	GripTop material		TPE					
	Rod material		PP	POM				
	Nominal tensile strength F'_N straight run	N/m lb/ft	9000 617	9000 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 F'_N straight run	N/m lb/ft	9000 617	9000 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 F'_N straight run	N/m lb/ft	11000 753	7000 480	16000 1096	18000 1233		



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

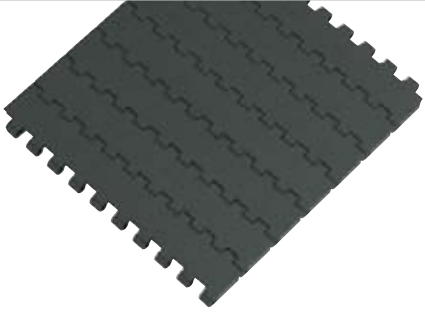
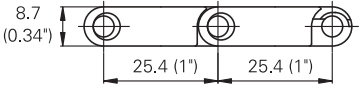


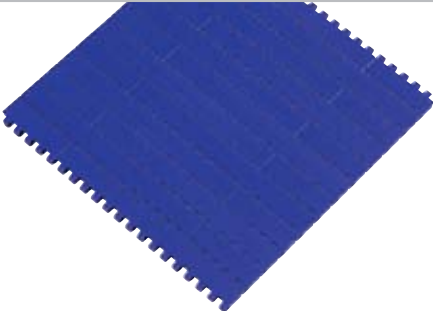
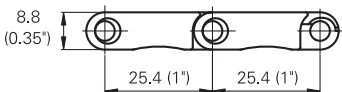
Split sprocket (Z)



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.

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

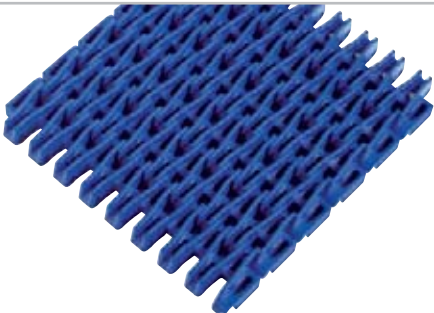
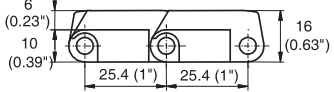
	M2470 Flat Top 1" + ActivXchange							
	Open area	0 %						
	Open hinge	no						
	Belt material		POM					
	Rod material		PA					
	Nominal tensile strength F'_N straight run	N/m lb/ft	30000 2055					

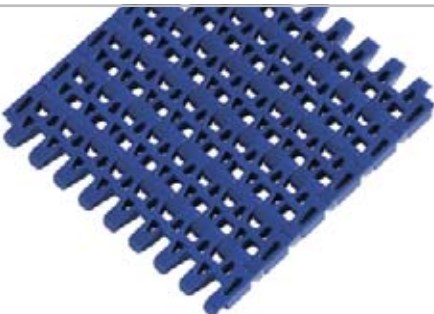
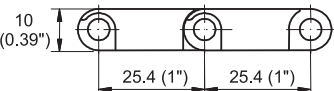


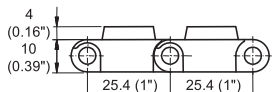
Sprocket one-piece (solid) (S)

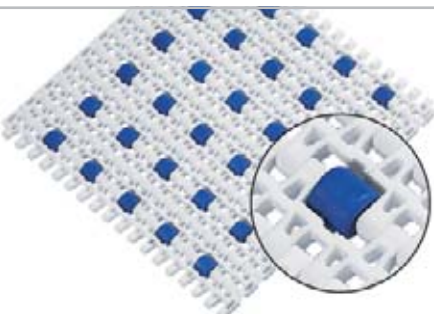
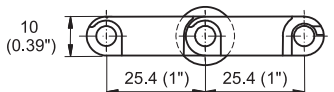
Type	Number of teeth	Diameter of pitch $\varnothing d_p$	
		mm	inch
S	12	99.5	3.9
S	18	148.3	5.8
S	12	99.5	3.9
S	15	123.9	4.9
S	18	148.3	5.8
S	20	164.6	6.4

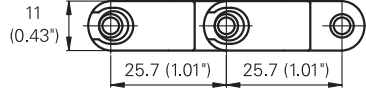
Remark: Split sprocket as **multihub** sprocket in preparation.

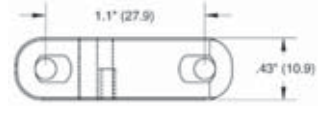
	M2531 Raised Rib 1"							
	Open area	35 %						
	Open hinge	yes						
	Belt material		PP	POM				
	Rod material		PP		PA			
	Nominal tensile strength F'_N straight run	N/m lb/ft	16000 1096	19000 1300	27000 1850			

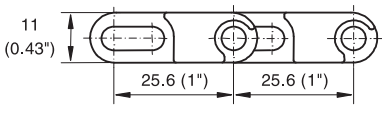
	M2533 Flush Grid 1"							
	Open area	35 %						
	Open hinge	yes						
	Belt material		PP	PE	POM		PA +US	PA
	Rod material		PP	PE	PP	PA		
	Nominal tensile strength F'_N straight run	N/m lb/ft	14000 959	8000 548	18000 1233	24700 1692	20000 1370	20000 1370

	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	N/m	14000	14000	14000	14000	18000	22000
F'N straight run	lb/ft	959	959	959	959	1233	1507	

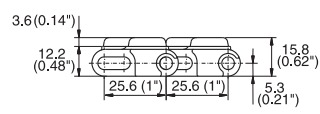
	M2533 Roller Top 1"							
	Open area	35 %						
	Open hinge	yes						
	Belt material		POM					
	Rod material		PA					
	Roller material		POM					
	Roller lateral spacing per row	mm inch	66 2.6	50 2	50 2			
	Roller offset next row	mm inch	33 1.3	0 0	0 0			
	Roller dimension diameter / width	mm inch	Ø 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 lb/ft	20000 1370	22000 1507	10000 685			

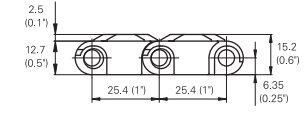
	F52 Straight 1.1" (1/2" x 1/2" Flat Wire)						
	Open area	65 %					
	Open hinge	yes					
	Belt material		PP	PE	POM	PA+GF	PA+HN
	Rod material		PP		Stainless Steel		
	Nominal tensile strength F'_N straight run	N/m lb/ft	300 4378	240 3502	600 8756	600 8756	600 8756

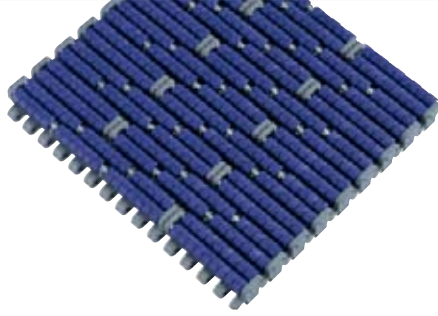
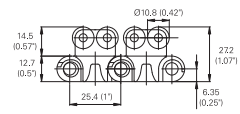
	M2540 Radius Flush Grid 1"						
	Open area	35 %					
	Open hinge	yes					
	Belt material		PP		POM	PA +US	PA
	Rod material		POM	PA			
	Nominal tensile strength F'_N straight run	N/m lb/ft	19000 1300	19000 1300	27000 1850	25000 1713	25000 1713
	Nominal tensile strength F'_N in curve	N lb	1000 225	1000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

		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	50				
		inch	2				
Roller dimension diameter / width		mm	Ø 15 / 5				
		inch	Ø 0.59 / 0.2				
Nominal tensile strength F _N straight run		N/m	22000				
		lb/ft	1507				
Nominal tensile strength F _N in curve		N	1200				
		lb	270				

	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)

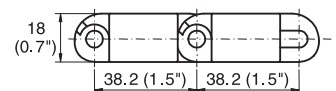
Type	Number of teeth	Diameter of pitch Ø d _p	
		mm	inch
S	18	147.7	5.8
S	12	99.1	3.9
S	16	131.5	5.2
S	18	147.7	5.8
S	21	172.1	6.8
Z	12	99.1	3.9
Z	16	131.5	5.2
Z	18	147.7	5.8
Z	21	172.1	6.8



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				

	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 lb/ft	20000 1370	20000 1370	29000 1986			
	Nominal tensile strength F_N in curve	N lb	1800 405	1800 405	2250 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 lb/ft	20000 1370	20000 1370	29000 1986			
	Nominal tensile strength F_N in curve	N lb	1800 405	1800 405	2250 506			



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

Type	Number of teeth	Diameter of pitch $\varnothing d_p$	
		mm	inch
S	8	101.9	4.0
S	12	150.0	5.9
S	6	198.2	7.8

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 lb/ft	32000 2192	20000 1370				



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

Sprocket one-piece (solid) (S)

Type	Number of teeth	Diameter of pitch $\varnothing d_p$	
		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

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



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.



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.



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.



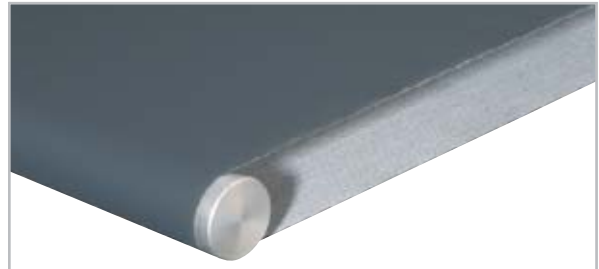
Straight Track

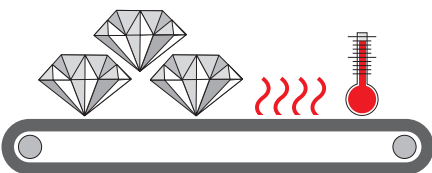
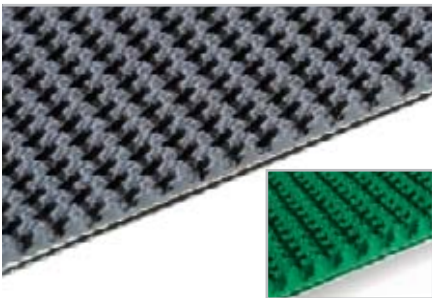
Corner Track

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.

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 <table border="1"><thead><tr><th colspan="2">Belt surface structures (selection only)</th></tr></thead><tbody><tr><td>Blank / smooth</td><td>Rough textile impression</td></tr><tr><td>Waffle structure</td><td>Elliptical structure</td></tr><tr><td>Grip structure (rough top)</td><td>Fish / herringbone structure</td></tr><tr><td>Jink wave grip structure</td><td>Quadrillé (quadrangular pattern)</td></tr></tbody></table>	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)	→ Appropriate selection for a specific application → Optimum adaptation to needs of the process (tailor-made solutions)
Belt surface structures (selection only)												
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	• 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										