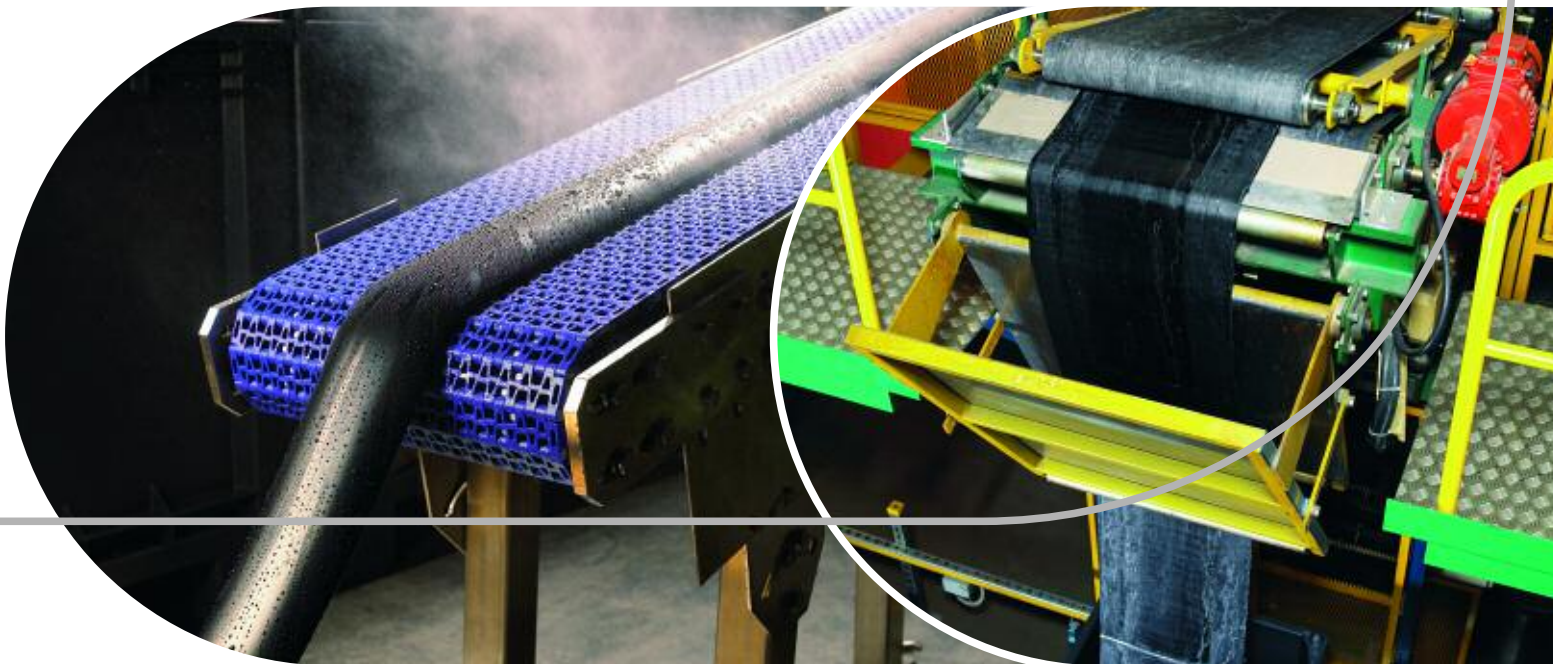


Tire Industry Habasit Conveyor and Processing Belts for Rubber Handling and Tire Manufacturing

Habasit – Solutions in motion



Solutions provider for the rubber and tire industry

Habasit is the full range belting supplier and solutions provider for the rubber and tire industry. With our product range you find belting solutions for handling of uncured rubber in the mixing room, in the extrusion section, and on cooling lines. Belting products must provide excellent temperature and chemical resistance, combined with superior release properties and highest abrasion resistance.

For tire building, tire cooling and tire handling we offer a wide range of belts, such as fabric based conveyor and processing belts and HabasitLINK® plastic modular belts.

Innovation is a key word at Habasit

The extensive variety of solutions enables our customers to choose the best product for their application.

Competence and experience

Habasit application engineers, technicians and joining specialists are at your disposal to provide professional consulting, superb customer service and excellent support. Since its foundation in 1946, Habasit has proven this understanding of customer needs for more than 50 years.

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

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Tire industry application table / belt selection guide and technical key data for Plastic modular belts HabasitLINK®	14–15
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The Habasit solution

At Habasit we listen. We innovate.
And we deliver integrated belting solutions –
right first time. To learn more about the world
wide presence of Habasit, refer to last page.



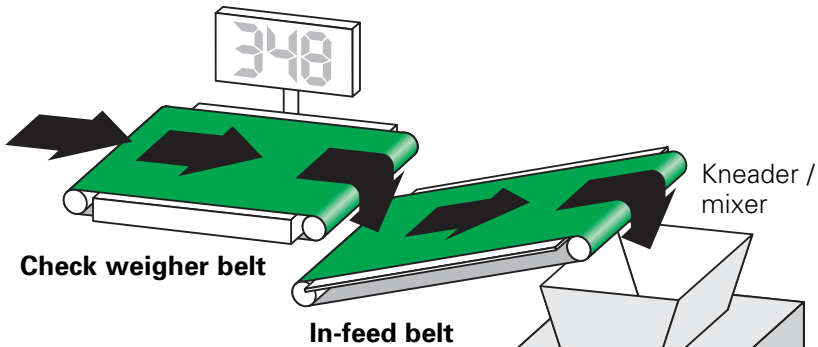
Process / application overview (schematic)

Rubber mixing and batch-off



Rubber mixing

Weighing of raw materials

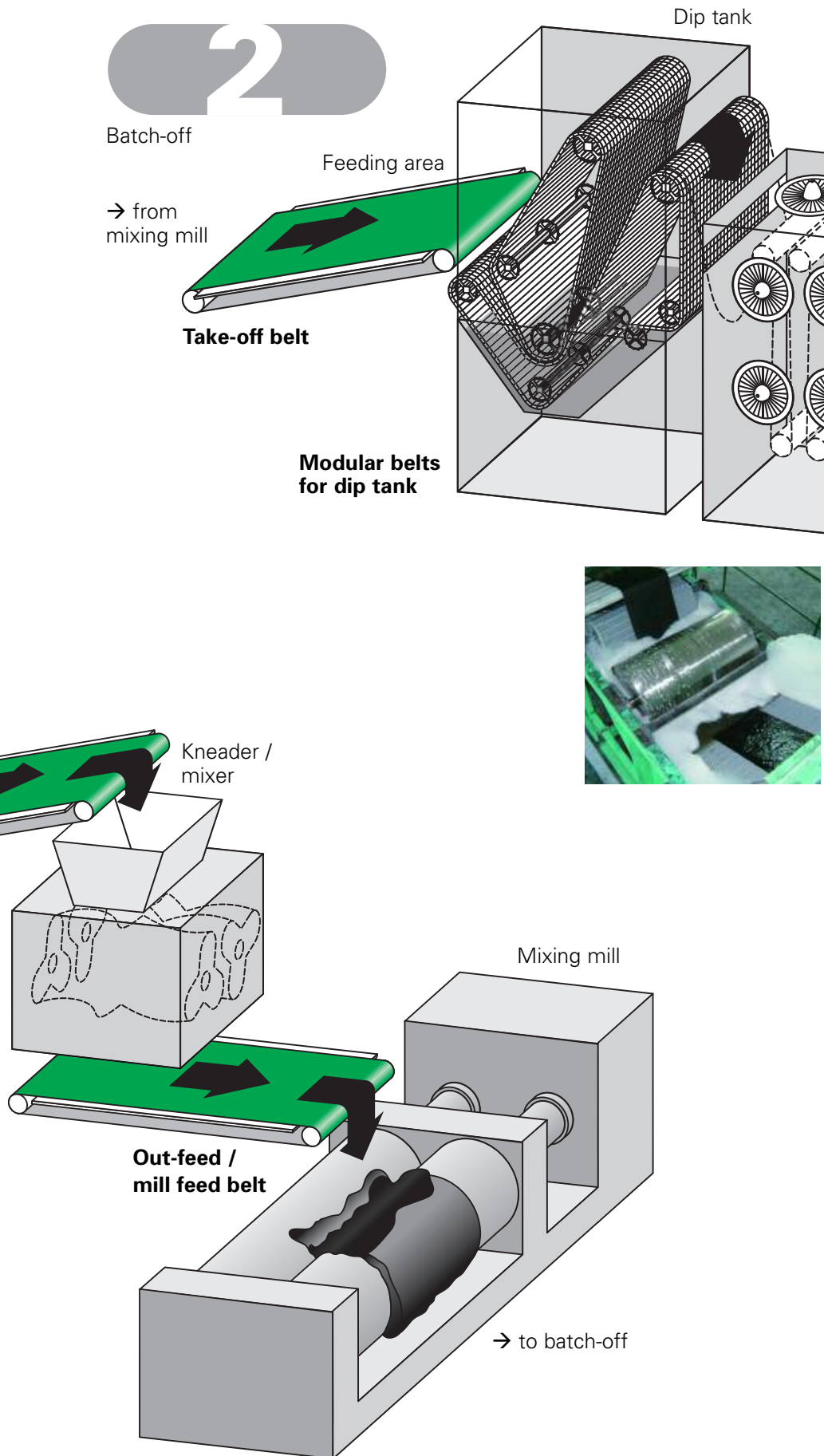


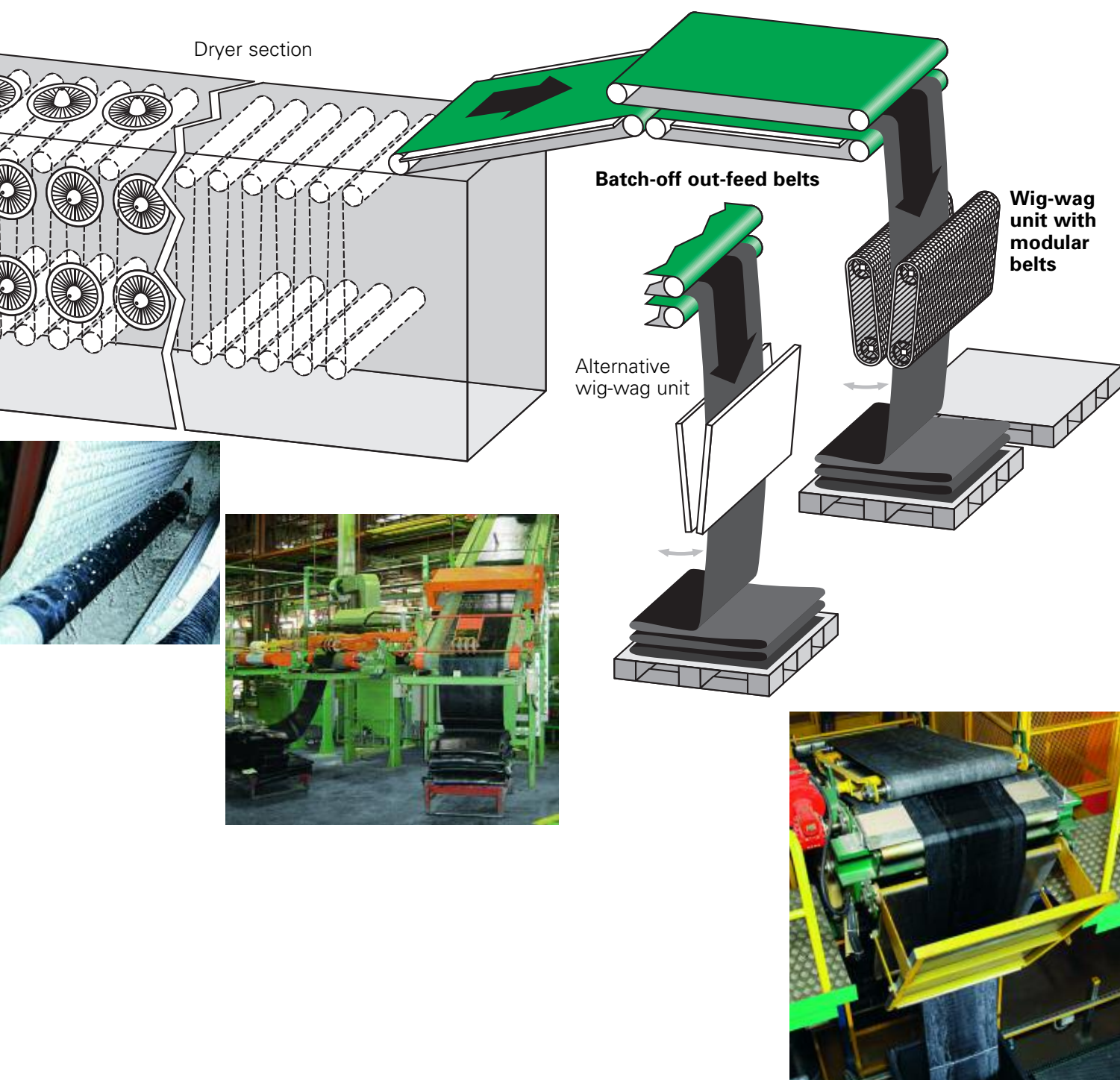
Batch-off

→ from mixing mill

Take-off belt

Modular belts for dip tank

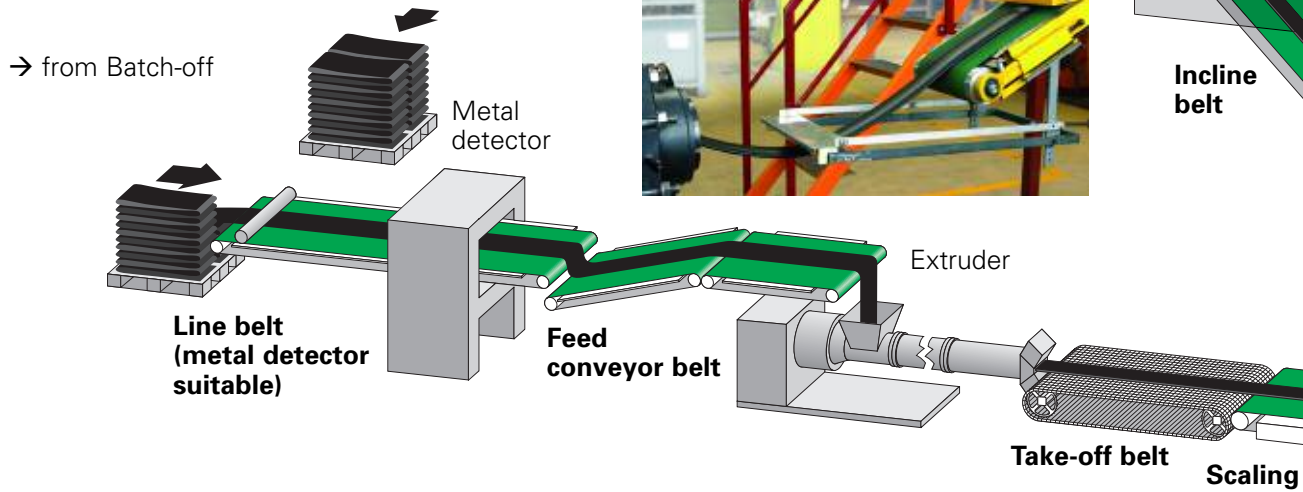




Rubber extrusion and cooling – Calendering and tire cord cutting

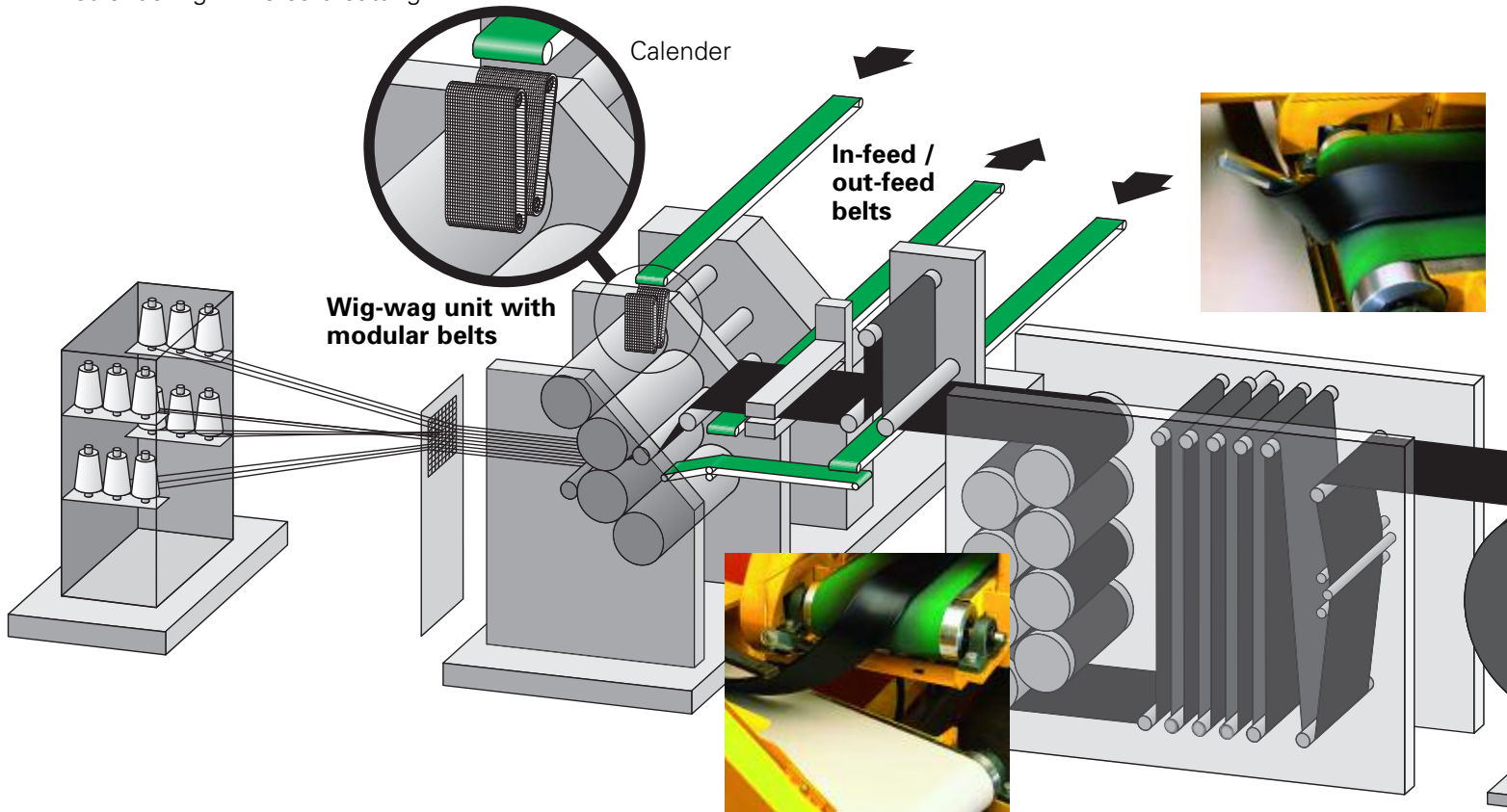
3a

Rubber extrusion and cooling

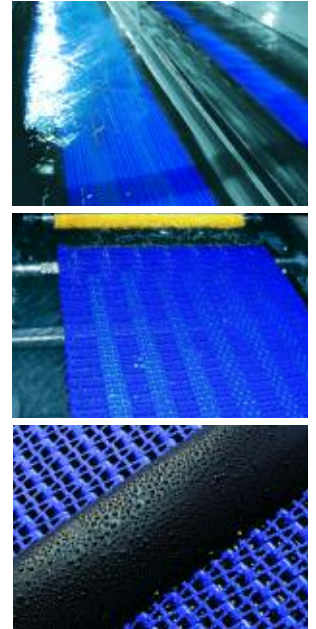
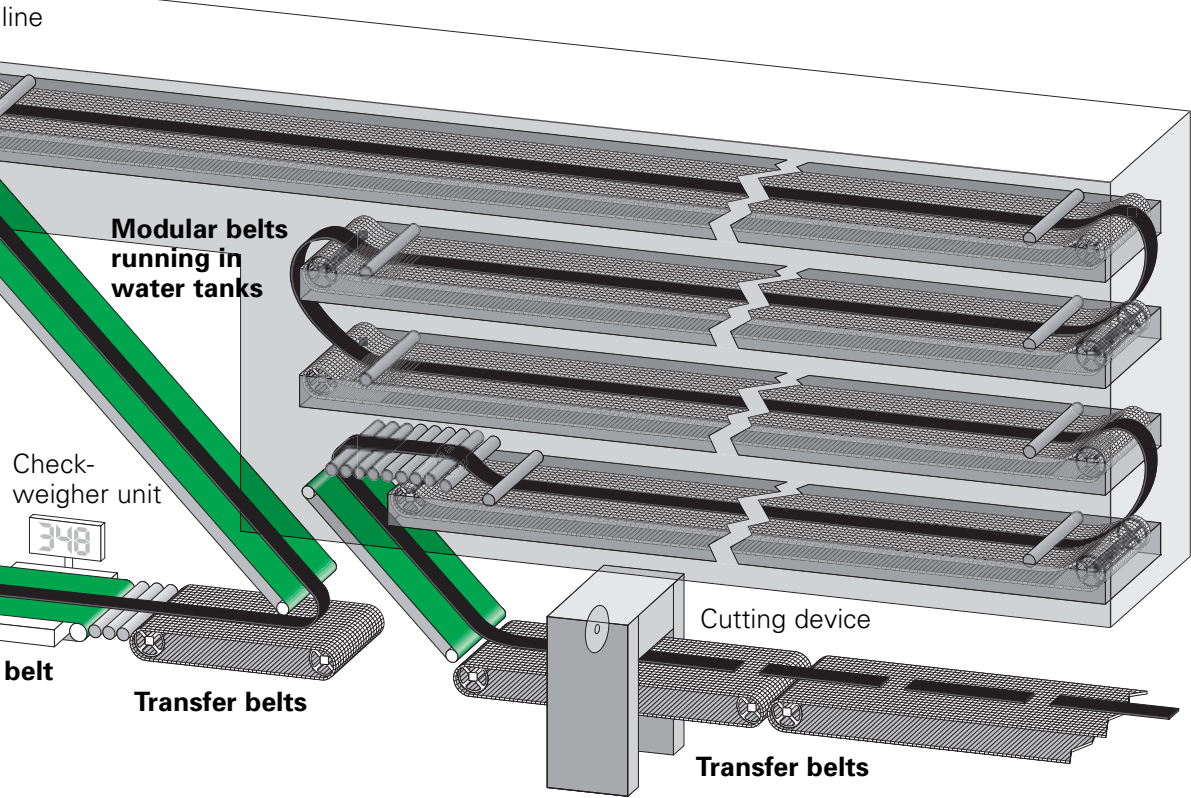


3b

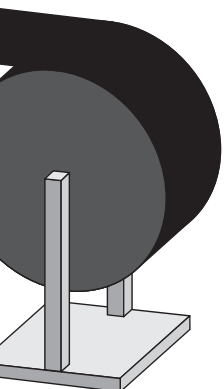
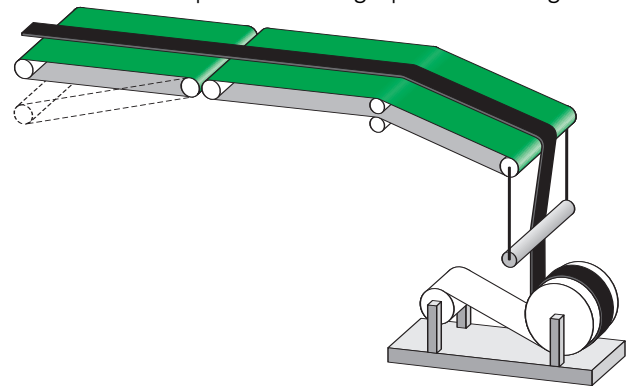
Calendering – Tire cord cutting



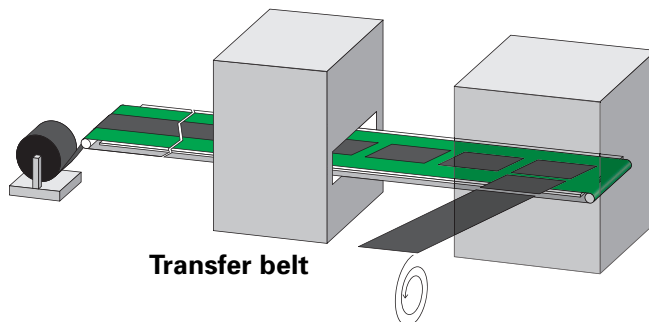
Cutting



Option: Winding up after cooling line



Tire cord cutting unit (cutting to specific angles)

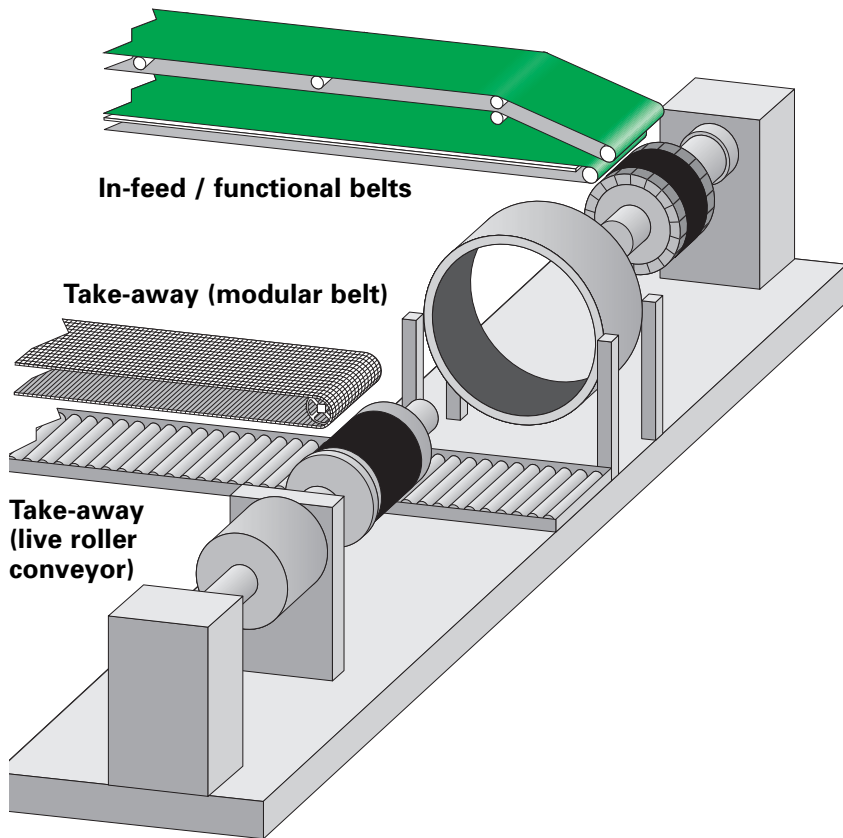


Remark: The drawings show schematic examples of selected applications / processes. The drawings don't lay claim to completeness. The belt recommendations (use / application / layout) should be considered as a general example only. Due to the complexity of the various processes and technical requirements as well as other 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 is a large variety of solutions possible.

Tire building – Vulcanization (curing) – Finished tire handling

4

Tire building



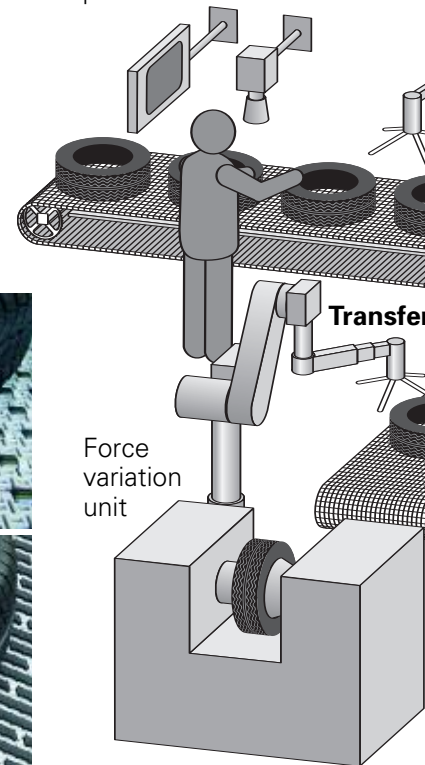
5

Vulcanization (curing) unit

6

Finished tire handling

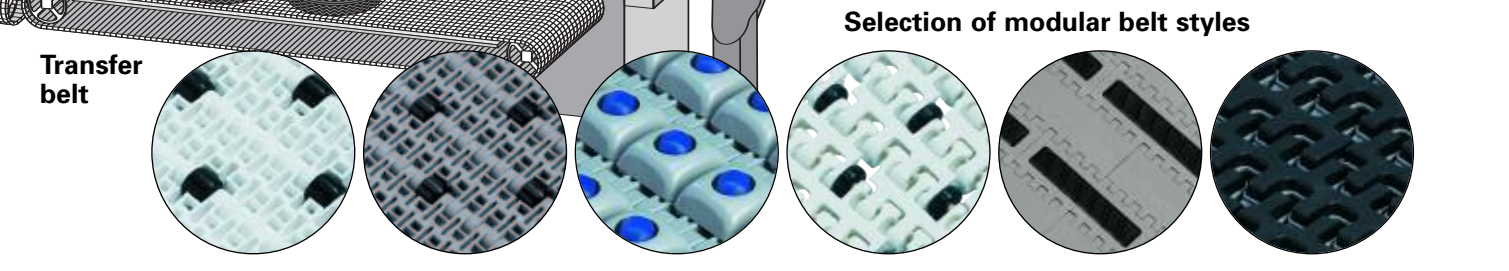
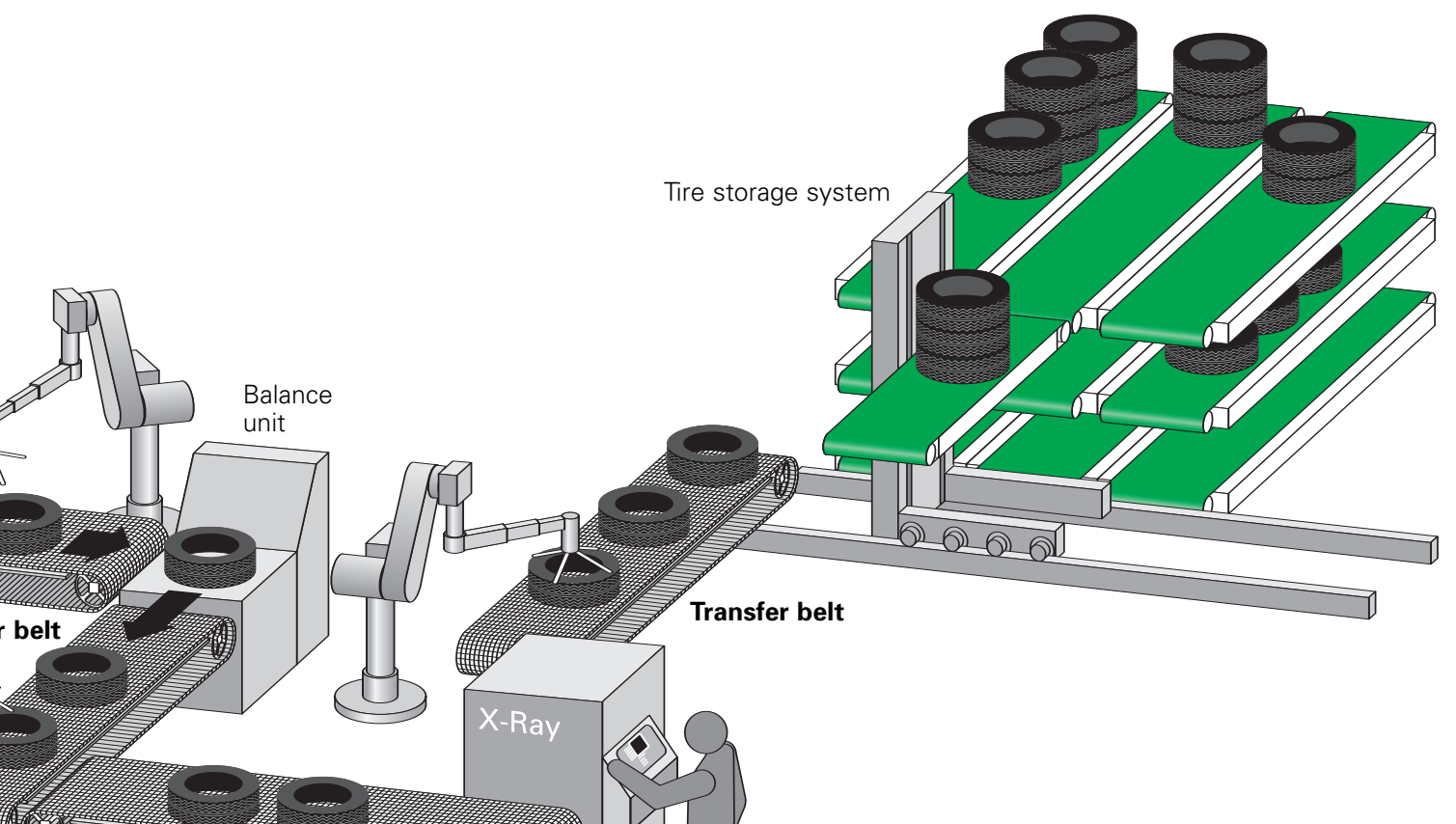
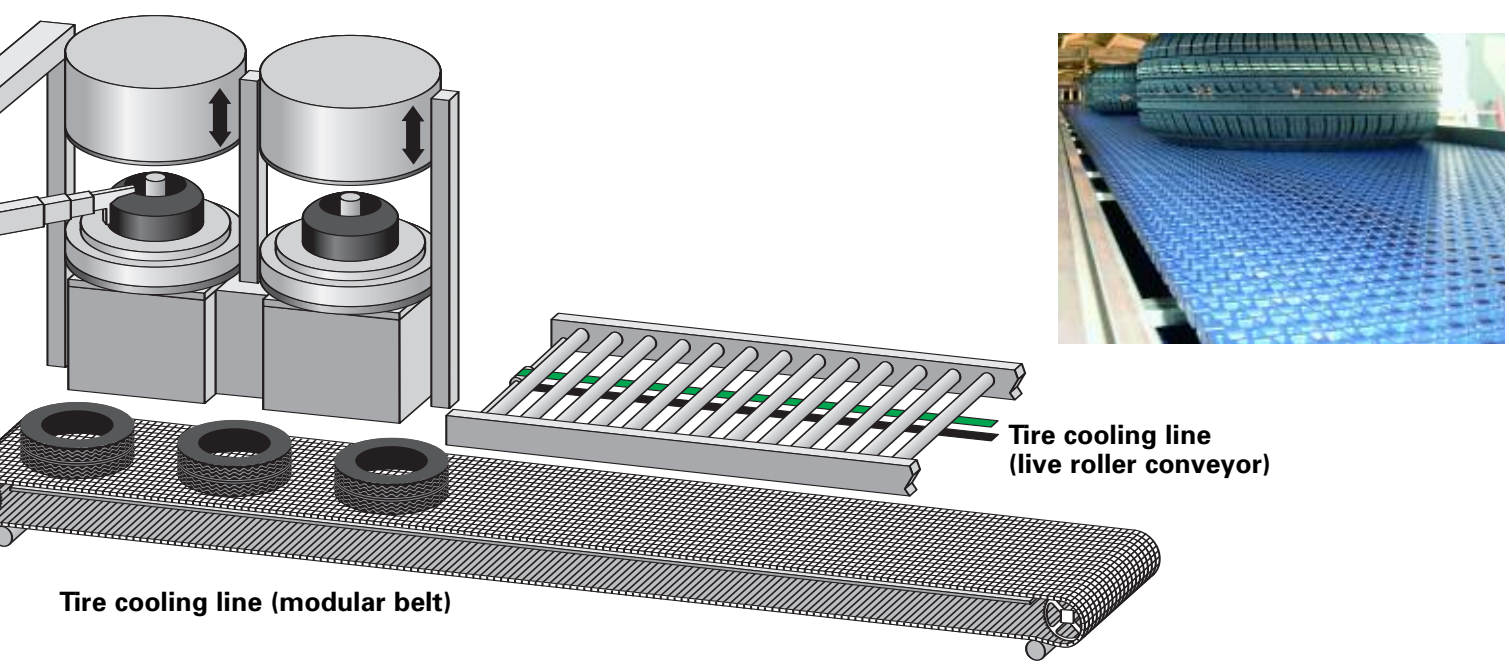
Visual inspection



Remark: The drawings show schematic examples of selected applications / processes. The drawings don't lay claim to completeness. The belt recommendations (use / application / layout) should be considered as a general example only. Due to the complexity of the various processes and technical requirements as well as other 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 is a large variety of solutions possible.



ng



Transfer belt

Balance unit

Tire storage system

Transfer belt

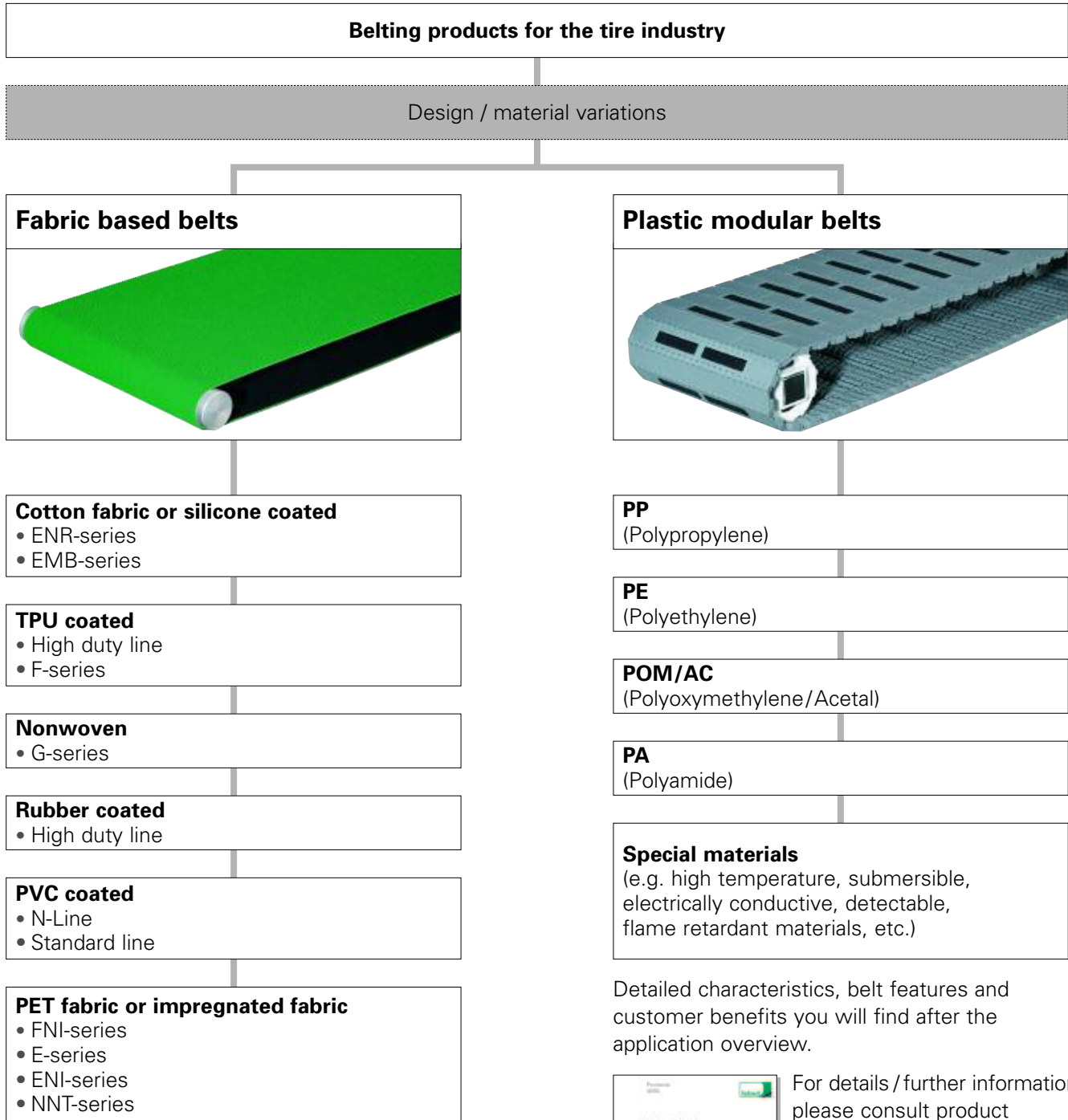
Tire cooling line (live roller conveyor)

Tire cooling line (modular belt)

Selection of modular belt styles

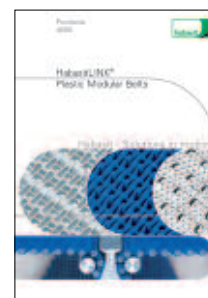
The right choice

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 fabric based belts and plastic modular belts.



Detailed characteristics, belt features and customer benefits you will find after the application overview.

Detailed characteristics, belt features and customer benefits you will find after the application overview.



For details / further information please consult product brochure 4000 HabasitLINK® plastic modular belts or website www.HabasitLINK.com

Belt surface and function

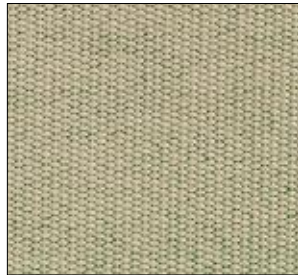
To fulfill the requirements for a specific application or a defined process, the belt surface or the material inherent properties play a key role. See following overview of various surfaces, styles and properties.

Illustrations: Product view from top (running direction from left to right).

Fabric based belts



Blank smooth (adhesive or non-adhesive)



Cotton fabric (non-adhesive)



Silicon coated (non-adhesive)



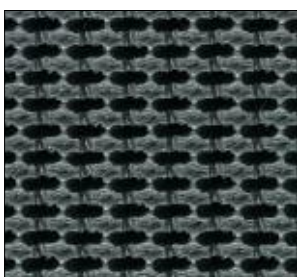
Impregnated fabric (non-adhesive)



Nonwoven (non-adhesive)



Rubber with textile impression (adhesive)

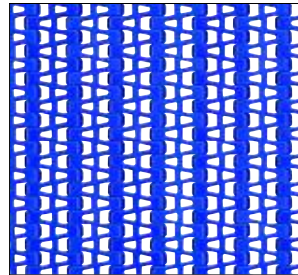


Grip structure (adhesive)

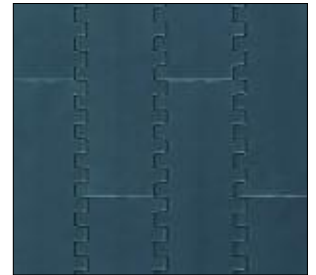


Quadrillé structure (adhesive)

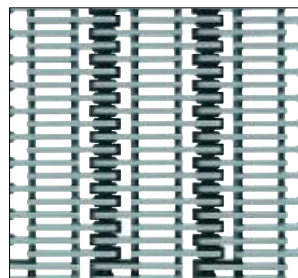
Plastic modular belts



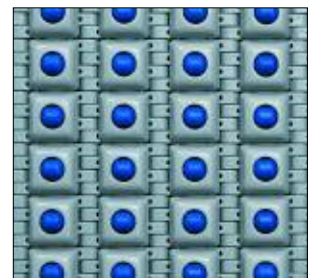
Flush Grid



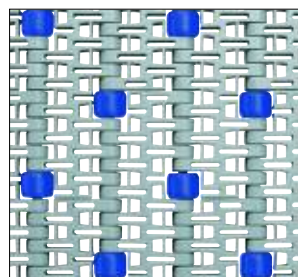
Flat Top



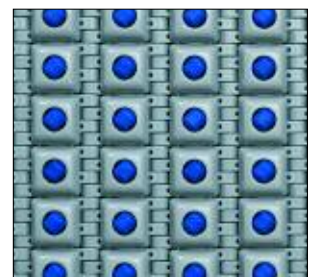
Raised Rib



Roller Top 90°



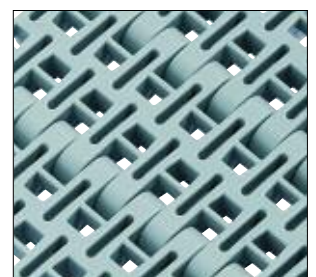
Roller Top



Roller Top 45°



GripTop



Flush Grid Heavy

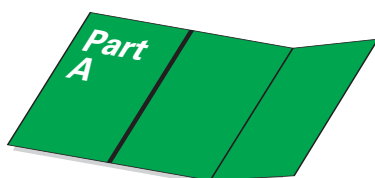
Tire industry application table / belt selection guide and technical key data (selection only)

Part A: Fabric based belts

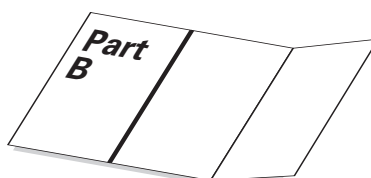
	Product Code					
	Conveyor belts and processing belts					
	Cotton		Silicone coated			TPU coated
	ENR-15ERNRNC	ENR-20ERNRNC	ENR-15ERRS	ENR-20ERRS	EMB-20ERRS	F-2EXWT
Applications						
Rubber mixing						
Kneader / mixer infeed conveyor						
Kneader / mixer outfeed conveyor	•	•	•	•	•	
Mixing mill feed conveyors	•	•	•	•	•	
Mill to mill conveyors	•	•	•	•	•	
Batch-off						
Take-off conveyor						
Dip tank						
Batch-off outfeed						
Wig wag belts						
Rubber extrusion and cooling						
Feed conveyor						
Take-off conveyor						
Scaling, marking						
Cooling line incline / decline						
Cooling line horizontal						
Water blow-off						
Cutting						
Wind-up station						
Calendering – Tire cord cutting						
Calender infeed						
Calender outfeed						
Rubber sheet transfer						
Cutting of reinforced rubber sheets						
Tire building – Vulcanization – Finished tire handling						
Tire cooling line						
Tire transfer horizontal						
Tire transfer inclined / declined						
Tire storage						•
Tire transfer transversal						
Tire accumulation						
Product construction / design						
Conveying side (Material)	Cotton (CO)	Cotton (CO)	Silicone (SI)	Silicone (SI)	Silicone (SI)	TPU
Conveying side (Surface)	Fabric	Fabric	Impregnated fabric	Impregnated fabric	Sand finish	Blank/smooth
Conveying side (Property)	Non-adhesive	Non-adhesive	Non-adhesive	Non-adhesive	Non-adhesive	Medium-adhesive
Conveying side (Color)	Beige	Beige	Red	Red	Red	White
Number of fabrics (Plies)	3	4	3	4	3	1
Product characteristics						
Permanently antistatic	No	No	No	No	No	Yes
Technical key data						
Thickness [mm]	4.70	5.60	4.70	6.30	3.60	0.70
[in]	0.19	0.22	0.19	0.25	0.14	0.03
Pulley diameter minimum with counter flexion [mm]	150	200	150	200	150	15
[in]	5.9	7.9	5.9	7.9	5.9	0.6
Tensile force for 1% elongation (k1% static) [k2% static] [N/mm]	15	20	15	20	20	3
[lbs/in]	86	114	86	114	114	17
Joining system						
Flexproof	•	•	•	•	•	•
Thermofix						
Mechanical fastener	•	•	•	•	•	
Alternative joining method						

Legend/remarks

See folding page (flap)



Fabric based belts



Plastic modular belts HabasitLINK®

Remarks

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554), and are based on the Habasit Master Joining Method.

Legend

EPDM	=	Ethylenpropyleneterpolymer (also called EPT)
NBR	=	Acrylonitrile-Butadiene-Rubber
Nonwoven	=	Web/fleece
Nonwoven/NBR impr.	=	Nonwoven impregnated/saturated with Acrylonitrile-Butadiene-Rubber
PET/NBR	=	Polyester fleece saturated with Acrylonitrile-Butadiene-Rubber
PET/PUR impr.	=	Polyester fabric impregnated with cross-linked Polyurethane
PET/PVC impr.	=	Polyester fabric impregnated with Polyvinylchloride
PET/TPU impr.	=	Polyester fabric impregnated with thermoplastic Polyurethane
TPU	=	Polyurethane thermoplastic
•	=	applicable
-	=	not applicable

Product key data overview

You will find the key data for most Habasit products on the Habasit Website:

www.habasit.com

Select an affiliated company

- e.g. United Kingdom

Products

- e.g. Conveyor belts

Product data

- Overview

Detailed technical data for each product / belt type

With one more click on the respective belt type, you will obtain a technical data overview, showing details such as:

- Product designation / features
- Product design / built-up
- Product characteristics
- Technical data etc.

The screenshot displays the technical data page for a Habasit product. It includes a table with columns for 'Product Designation', 'Product Design / Design', and 'Product Characteristics'. The table lists various features such as 'Conveyor Belt Material', 'Conveyor Belt Surface', and 'Conveyor Belt Structure'. A legend at the bottom explains the symbols used in the table, such as '•' for applicable and '-' for not applicable. The page also includes a disclaimer and contact information for Habasit.

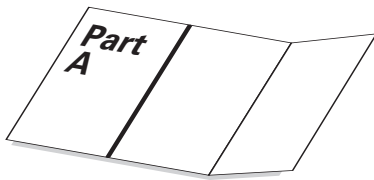
Part B: Plastic modular belts HabasitLINK®

		Product Code							
		Conveyor belts and processing belts							
		Modular belts							
		M1233 Flush Grid	M2520 Flat Top	M2531 Raised Rib	M2533 Flush Grid	M2533 Grip Top	M2533 Roller Top	M2620 Flat Top Heavy	M2540 Radius Flush Grid
Applications									
Rubber mixing									
Kneader / mixer infeed conveyor			•					•	
Kneader / mixer outfeed conveyor			•					•	
Mixing mill feed conveyors			•					•	
Mill to mill conveyors			•					•	
Batch-off									
Take-off conveyor			•			•		•	
Dip tank				•					
Batch-off outfeed			•					•	
Wig wag belts		•							
Rubber extrusion and cooling									
Feed conveyor						•			
Take-off conveyor			•						
Scaling, marking									
Cooling line incline / decline					•				
Cooling line horizontal				•	•				
Water blow-off			•					•	
Cutting									
Wind-up station									
Calendering – Tire cord cutting									
Calender infeed									
Calender outfeed								•	
Rubber sheet transfer									
Cutting of reinforced rubber sheets									
Tire building – Vulcanization – Finished tire handling									
Tire cooling line					•				•
Tire transfer horizontal			•		•			•	•
Tire transfer inclined / declined						•			
Tire storage									
Tire transfer transversal							•		
Tire accumulation									
Product construction / design									
Belt materials available		The following belt materials can be selected, depending on the application: PP=Polypropylene, PE=Polyethylene							
Open area		25%	0%	35%	35%	~ 20%	35%	0%	35%
Available standard colors		White/Gray Natural/Blue	White/Gray Blue	Gray/Dark Gray/Blue	White/Gray Natural/Blue	White/Gray Blue	Blue	Dark gray	White/Gray Blue
Antistatic material available		•	•	•	•	•	•	•	•
Temperature-resistant material available (up to 240°C/464°F)						•			
Technical key data									
Pitch	[in]	0.5"	1"	1"	1"	1"	1"	1"	1"
Maximum nominal tensile strength	[N/m] [lbs/ft]	18'000 1'233	26'000 1'782	27'000 1'850	22'000 1'507	22'000 1'507	18'000 1'233	42'000 2'877	27'000 1'850
Available accessories									
Flights		•	•	-	•	-	-	-	•
Side guards		•	•	-	•	-	-	-	•
Hold down device / tab		-	•	-	•	•	-	•	•
Combs (finger transfer plates)		-	-	•	-	-	-	-	-

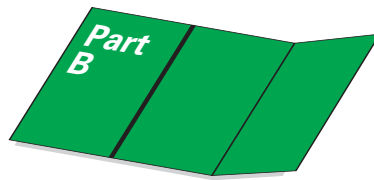
Legend/remarks

See folding page (flap)

	M2543 Tight Radius	M3840 Radius Flush Grid	M3840 Roller Top	M3843 Tight Radius	M5010 Flat Top	M5020 Flat Top Heavy	M5020 Grip Top	M5131 Raised Rib	M5032 Flush Grid Heavy	M5032 Roller Top Heavy	M5032 Roller Top 90°	M5032 Roller Top 0°
					•	•						
					•	•						
					•	•						
					•	•						
					•	•	•					
					•	•		•	•			
					•	•		•	•			
							•					
					•	•						
	•	•		•	•	•	•		•			
	•	•		•	•	•			•			
			•							•		
											•	
												•
ne, POM/AC=Polyoxymethylene/Acetal, PA=Polyamide and other special materials												
ay	35% White/Gray	31% White/Gray	31% White	37% White	0% White/Gray Natural/Blue	0% Gray/Natural Dark gray	0% Gray/ Dark gray	37% Gray	34% Gray/Natural Blue	33% Gray	- Gray/Blue	- Gray/Blue
	•	•	•	•	•	•	•	•	•	•	•	•
	1" 20'000 1'370	1.5" 32'000 2'193	1.5" 25'000 1'713	1.5" 29'000 1'986	2" 30'000 2'056	2" 45'000 3'083	2" 45'000 3'083	2" 36'000 2'467	2" 40'000 2'741	2" 30'000 2'056	2" 38'000 2'603	2" 38'000 2'603
	-	•	-	-	•	•	-	-	•	-	-	-
	-	•	-	•	•	•	-	-	•	-	-	-
	-	•	-	•	•	•	•	-	•	-	-	-
	-	-	-	-	-	-	-	•	-	-	-	-



Fabric based belts



Plastic modular belts HabasitLINK®

Remarks

All data are approximate values under standard climatic conditions: 23°C/73°F, 50% relative humidity (DIN 50005/ISO 554).

Legend

●	=	applicable
◐	=	conditionally applicable
–	=	not applicable

Product key data overview

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www.habasit.com

or

www.HabasitLINK.com

Select an affiliated company

- e.g. United Kingdom

Products

- e.g. Conveyor belts

Product data

- Overview

Detailed technical data for each product / belt type

With one more click on the respective belt type, you will obtain a technical data overview, showing details such as:


- Product designation / features
- Product design / built-up
- Product characteristics
- Technical data etc.

Product Data Series M5000
M5032 Roller Top Heavy 2"

Non-removable top cover
• Reinforcing Mesh Overlay (Designing For processing/Technology, Safety, Fuel and Hygiene)
• Non-removable Top Cover For Manufacturing, Servicing, Safety, Packaging, Cost Reduction

For applications
• Applications for HabasitLINK roller belts: <http://www.habasit.com/Products/HabasitLINK>

Description
• Strong design
• 30° to 90° and 180° top opening (M5032 only)
• 28/30/32/35"
• Rollers for printing (M5032)
• For low load products, wear strips are placed between rollers
• For product where application wear strips are used
• 30/32/35" rollers
• 30/32/35" rollers (M5032)
• Closed design
• Product weight (M5032)
• Roll diameter (M5032)
• "Thin webbed" sprockets



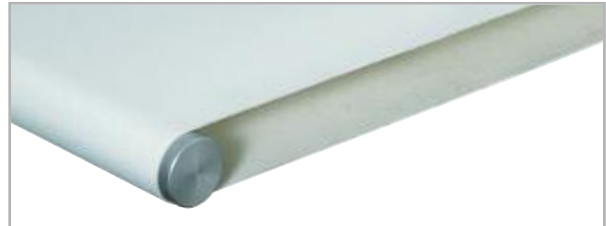
Roller data

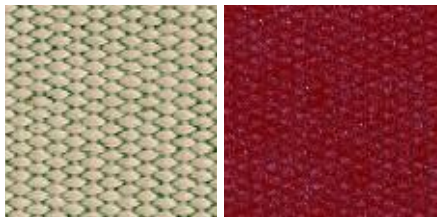
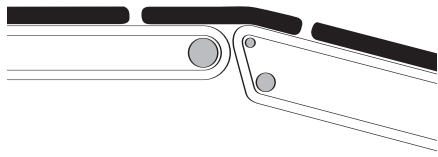

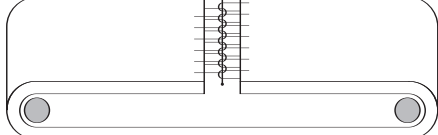
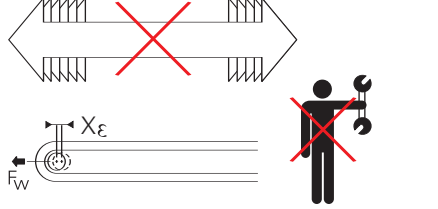

	M5032	M5032	M5032	M5032	M5032	M5032
Roller diameter	30"	32"	32"	32"	32"	35"
Roller width	30"	32"	32"	32"	32"	35"
Roller weight	1.5	1.5	1.5	1.5	1.5	1.5
Roller length	1.5	1.5	1.5	1.5	1.5	1.5
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
Roller type	304	304	304	304	304	304
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
Roller type	304	304	304	304	304	304
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
Roller type	304	304	304	304	304	304
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
Roller type	304	304	304	304	304	304
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
Roller type	304	304	304	304	304	304
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
Roller type	304	304	304	304	304	304
Roller material	304	304	304	304	304	304
Roller finish	304	304	304	304	304	304
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Cotton fabric and silicone coated belts

Cotton fabric and silicone coated belts

Purpose-built for the handling of sticky, hot rubber in the tire and rubber industries.



	Features	Benefits
 	<ul style="list-style-type: none"> • Excellent rubber release 	<ul style="list-style-type: none"> → No sticking of rubber → Process reliability → Extended belt life
	<ul style="list-style-type: none"> • High temperature resistance 	<ul style="list-style-type: none"> → Long belt life → No downtimes → Lower cost
	<ul style="list-style-type: none"> • Good fastener retention 	<ul style="list-style-type: none"> → Highly appropriate for mechanical joining / lacing
	<ul style="list-style-type: none"> • Stable modulus of elasticity after running-in 	<ul style="list-style-type: none"> → No re-tensioning → No downtimes → No maintenance
	<ul style="list-style-type: none"> • Special folded edge version available 	<ul style="list-style-type: none"> → Improved edge wear properties → No contamination of rubber → Less rejects, lower cost

Features and benefits

TPU coated belts

TPU coated belts

Solution for high demanding applications, e.g. small pulleys and narrow transfer points, extreme temperatures, applications which ask for cut and abrasion resistant surfaces.



	Features	Benefits
	<ul style="list-style-type: none"> • Longitudinal flexibility 	<ul style="list-style-type: none"> → Belts can cope with small pulley diameters, compact design → Smooth and trouble-free product transfer → Low energy consumption
	<ul style="list-style-type: none"> • Excellent abrasion resistance • Constant coefficient of friction 	<ul style="list-style-type: none"> → Reduced belt wear → No marking of goods → Long belt life
	<ul style="list-style-type: none"> • Stable modulus of elasticity after running-in 	<ul style="list-style-type: none"> → No re-tensioning → No downtimes → No maintenance
	<ul style="list-style-type: none"> • Permanently antistatic 	<ul style="list-style-type: none"> → No interference with electronic devices → Less dust and dirt attraction → Process reliability
	<ul style="list-style-type: none"> • Simple and fast joining method 	<ul style="list-style-type: none"> → Easy handling → Adhesive-free joint → Minimum equipment needed → Short machine downtimes

Features and benefits

Nonwoven belts

Nonwoven belts

The nonwoven construction (polyester web/fleece PET) is perfectly suitable for conveying of finished tires under rough and rugged conditions.



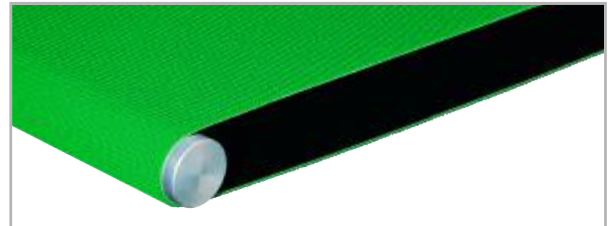
	Features	Benefits
	<ul style="list-style-type: none"> • Impact- and wear-resistant nonwoven design • Damping capability of belt 	<ul style="list-style-type: none"> → Durable and forgiving belt surface thanks to nonwoven construction → Gentle, soft and safe handling of conveyed goods → Extended belt service life → Less rejects, reduced cost
	<ul style="list-style-type: none"> • Excellent flexibility in spite of greater thickness 	<ul style="list-style-type: none"> → Can handle small pulley diameters → Lower power consumption
	<ul style="list-style-type: none"> • Excellent abrasion resistance 	<ul style="list-style-type: none"> → Reliable conveying properties → Long belt life
	<ul style="list-style-type: none"> • Superior edge fray resistance 	<ul style="list-style-type: none"> → No stringing or fraying of belt running against side of conveyor → Extended belt service life
	<ul style="list-style-type: none"> • Good fastener retention 	<ul style="list-style-type: none"> → Highly appropriate for mechanical joining / lacing
	<ul style="list-style-type: none"> • PES traction layer 	<ul style="list-style-type: none"> → Stable modulus of elasticity after running-in → No re-tensioning required, no downtimes
	<ul style="list-style-type: none"> • Permanently antistatic belts available 	<ul style="list-style-type: none"> → No interference with electronic devices → Less dust and dirt attraction → Process reliability

Features and benefits

Rubber coated belts

Rubber coated belts

Belts with NBR rubber cover are the preferred solutions for handling uncured rubber like tire components, rubber profiles and other rubber goods.



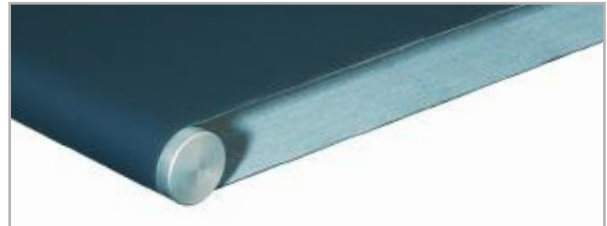
	Features	Benefits
	<ul style="list-style-type: none"> • Excellent rubber release properties 	<ul style="list-style-type: none"> → No sticking of rubber → Process reliability → Low maintenance cost
	<ul style="list-style-type: none"> • Longitudinal flexibility 	<ul style="list-style-type: none"> → Belt can cope with small pulley diameters, compact design → Smooth and trouble-free product transfer → Long belt life
	<ul style="list-style-type: none"> • Stable modulus of elasticity after running-in 	<ul style="list-style-type: none"> → No re-tensioning → No downtimes → No maintenance
	<ul style="list-style-type: none"> • Permanently antistatic 	<ul style="list-style-type: none"> → No interference with electronic devices → Less dust and dirt attraction → Process reliability
	<ul style="list-style-type: none"> • High grip rubber surface available 	<ul style="list-style-type: none"> → Constant coefficient of friction during entire lifetime of belt → Durable and abrasion resistant rubber belt surface → Reliable product flow in acceleration sections or within inclines / declines → Long service live

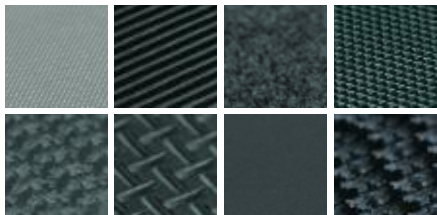

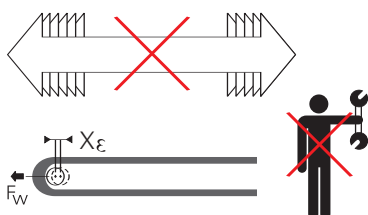
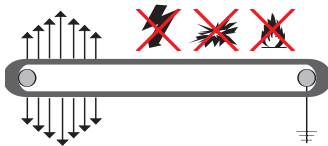
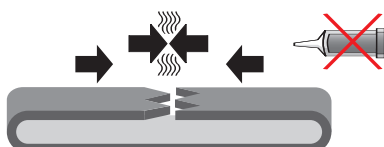
Features and benefits

PVC coated belts

PVC coated belts

The solution for materials handling / general conveying with excellent cost / value ratio.



	Benefits
 <ul style="list-style-type: none"> • A wide range of surface types, structures and belt strengths available 	<ul style="list-style-type: none"> → Selection possibility of the appropriate conveyor belt for a specific application → Cost "friendly" solutions
 <ul style="list-style-type: none"> • Longitudinal flexibility 	<ul style="list-style-type: none"> → Belt can cope with small pulley diameters, compact design → Long belt life
 <ul style="list-style-type: none"> • Stable modulus of elasticity after running-in 	<ul style="list-style-type: none"> → No re-tensioning → No downtimes → No maintenance
 <ul style="list-style-type: none"> • Permanently antistatic belts available 	<ul style="list-style-type: none"> → No interference with electronic devices → Less dust and dirt attraction → Process reliability
 <ul style="list-style-type: none"> • Simple and fast joining method (Flexproof) 	<ul style="list-style-type: none"> → Easy handling → Adhesive-free joint → Minimum equipment needed → Short machine downtimes

PET fabric or impregnated fabric belts

PET fabric or impregnated fabric belts

Fabric surfaces or impregnated surfaces are well suited for rubber infeed, take-off, cutting, etc.



	Benefits
<div data-bbox="146 607 584 840" data-label="Image"> </div> <div data-bbox="146 875 584 1025" data-label="Image"> </div> <ul data-bbox="619 622 877 694" style="list-style-type: none"> • Excellent rubber release properties 	<ul data-bbox="922 622 1420 761" style="list-style-type: none"> → No sticking of rubber → Constant coefficient of friction over entire belt life → Process reliability
<div data-bbox="146 1093 481 1191" data-label="Image"> </div> <ul data-bbox="619 1064 877 1135" style="list-style-type: none"> • Excellent abrasion resistance 	<ul data-bbox="922 1064 1420 1176" style="list-style-type: none"> → Reduced belt wear → Reliable conveying and process flow → Long belt life
<div data-bbox="146 1288 534 1482" data-label="Image"> </div> <ul data-bbox="619 1265 829 1337" style="list-style-type: none"> • Impregnated fabric surfaces 	<ul data-bbox="922 1265 1404 1377" style="list-style-type: none"> → Less soiling and therefore less maintenance → Constant low coefficient of friction
<div data-bbox="146 1556 481 1706" data-label="Image"> </div> <ul data-bbox="619 1541 821 1680" style="list-style-type: none"> • Permanently antistatic (one exception NNT-8EFWE) 	<ul data-bbox="922 1541 1460 1653" style="list-style-type: none"> → No interference with electronic devices → Less dust and dirt attraction → Process reliability
<div data-bbox="146 1796 534 1946" data-label="Image"> </div> <ul data-bbox="619 1780 845 1892" style="list-style-type: none"> • Simple and fast joining method (Flexproof) 	<ul data-bbox="922 1780 1332 1915" style="list-style-type: none"> → Easy handling → Adhesive-free joint → Minimum equipment needed → Short machine downtimes

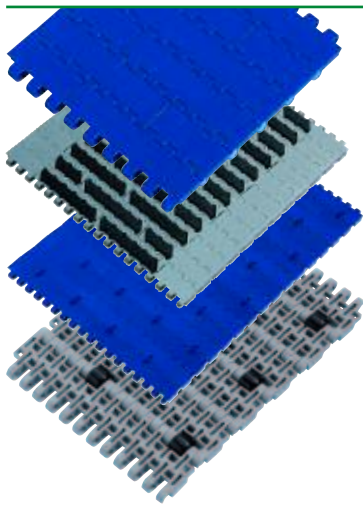
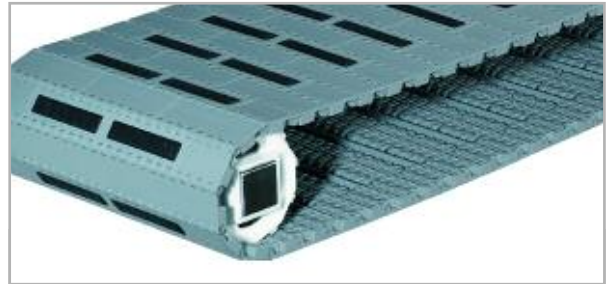
Features and benefits

Plastic modular belts

Plastic modular belts (HabasitLINK®)

Based on our comprehensive experience and our leadership position in traditional fabric-based belting, Habasit has developed the HabasitLINK® modular belt range. This state-of-the-art product line completes our offer as a single source supplier and partner for your success.

Plastic modular belts are used successfully in a wide range of applications in tire manufacturing like hot rubber handling, dip-tanks, cooling lines straight and / or combined radius transport of green and finished tires, inclines, accumulation / separation, pusher sorter with 90° transfer and many more.

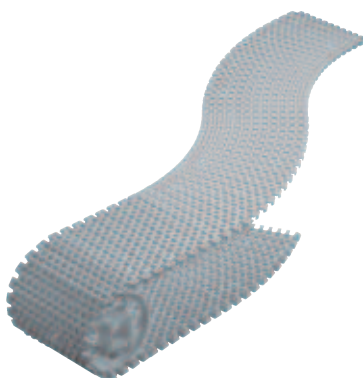


Features

- Large variety of plastic materials and colors available
 PP = Polypropylene
 PE = Polyethylene
 POM/AC = Polyoxymethylene/ Acetal
 PA = Polyamide and special materials
- Different module styles, sizes and module strengths available

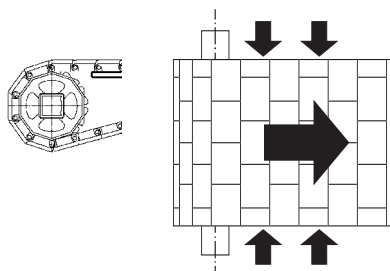
Benefits

- Optimum adaptation to needs of an application
- Tailor-made solutions
- The best solution for each application
- Rough and rugged application suitable (heavy duty rod and belt materials available)
- High lateral stiffness design



- Radius and straight transport with one single belt

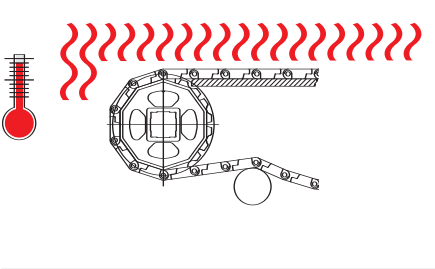
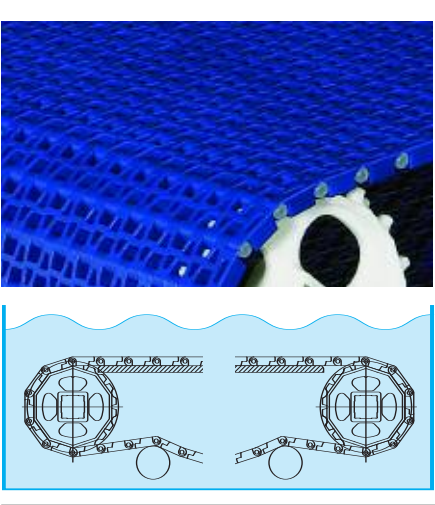
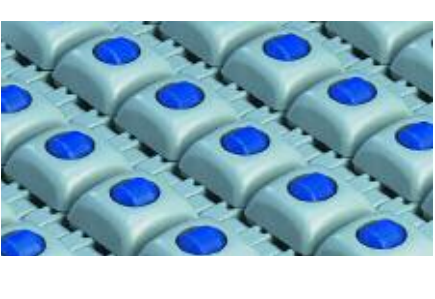
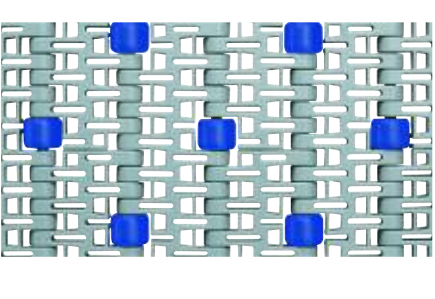
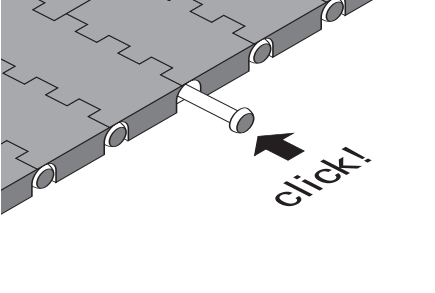
- Larger runs without transfers
- Smaller number of drives and motors
- Reduced cost for entire system



- Positive drive and tracking by belt engaged with sprocket
- Guided belt alignment

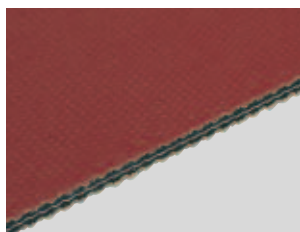
- Straight running, even under influence of transversal forces
- Exact positioning of goods
- No need for tensioning devices
- No re-adjustments, no downtimes
- Reliable tracking
- Elimination of belt edge damages
- Simple system design

Plastic modular belts (contd.)

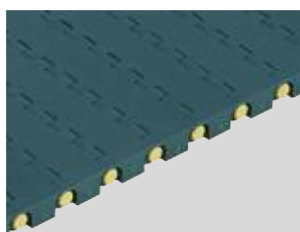
	Features	Benefits
	<ul style="list-style-type: none"> • High temperature resistant material available (ST) 	<ul style="list-style-type: none"> → Suitable for warm / hot conditions without changing its features → Suitable up to 240°C / 464°F
	<ul style="list-style-type: none"> • Submersible materials (non-floating) 	<ul style="list-style-type: none"> → High density, which allows the belt to submerge in water, e.g. in cooling lines → No dimensional change due to water absorption → Resistant against hydrolysis processes / degradation → Insensitive to humidity and temperature fluctuations (up to 97°C) → Good chemical resistance
	<ul style="list-style-type: none"> • Reduced tire damage with Roller Top 90° 	<ul style="list-style-type: none"> → Tire rolls smoothly over the rollers without touching belt surface → High admissible vertical load (approx 4500N) → Rollers can be assembled in various patterns according to requirements → Rollers can be repaired by simple exchange of the clipped-on roller
	<ul style="list-style-type: none"> • Accumulation and separation lines with Roller Top 0° 	<ul style="list-style-type: none"> → Tire rolls smoothly over the rollers → Reduced bad pressure → maintenance free accumulation and separation lines
	<ul style="list-style-type: none"> • Easy installation • Simple and fast assembling 	<ul style="list-style-type: none"> → Snap-in assembling method → Replacement of single belt modules → Easy repair

Customer value

Each of our employees is a specialist who is at your service to provide you with belting solutions that will best suit your needs. Following some examples of currently successful applications which are giving added value to the customer are listed below:



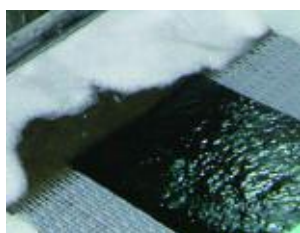
Application	Handling of hot rubber after kneader / mixer
Challenge	<ul style="list-style-type: none"> • Hot rubber sticking to the belt surface • Involved temperatures reduce belt service life
Solution and result	Installation of ENR-15ERRS (Silicone coated belt) <ul style="list-style-type: none"> • No sticking of rubber and excellent belt performance • Excellent resistance to chemicals and elevated temperature • Extended belt service life



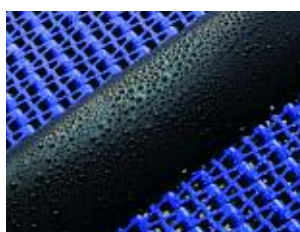
Application	Inclined feed belt for mixing mill
Challenge	<ul style="list-style-type: none"> • Difficult and time consuming maintenance of steel mesh belt • High power consumption due to heavy steel construction
Solution and result	Installation of M5010 Flat Top (Modular belt) <ul style="list-style-type: none"> • Energy savings thanks to light belt design • Simple maintenance • Easy release of hot rubber, no sticking of rubber



Application	Batch-off infeed belt
Challenge	<ul style="list-style-type: none"> • Cut and wear resistance of belt surface • Belt which can handle rough environment of rubber processing
Solution and result	Installation of HAT-12P (Rubber coated belt) <ul style="list-style-type: none"> • Superior cut and wear resistance of rubber surface • Excellent resistance to chemicals and elevated temperature • Extentend lifetime in rough environment of rubber processing



Application	Dip Tank
Challenge	<ul style="list-style-type: none"> • Rough running conditions leading to reduced belt life • Intensive belt maintenance
Solution and result	Installation of M5031 Raised Rib (Modular belt) <ul style="list-style-type: none"> • Improved chemical resistance of high quality belt product • Extended belt service life • No belt maintenance



Application	Cooling line for extruded rubber
Challenge	<ul style="list-style-type: none"> • Steel meshes on cooling lines require high level of maintenance • Sticking of rubber in steel meshes • Steel mesh belts are difficult and time consuming to repair
Solution and result	Installation of M 2533 Flush Grid (Modular belt) <ul style="list-style-type: none"> • No sticking of rubber on belt • No maintenance – possibility for easy and quick repair



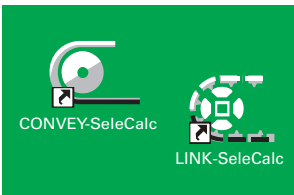
Application	Tire cooling line for finished tires
Challenge	<ul style="list-style-type: none"> • High level of maintenance required with chain driven life roller conveyors
Solution and result	Installation of M2533 Flush Grid (Modular belt) <ul style="list-style-type: none"> • The line can be operated maintenance free • Long service life • Smooth running of plastic modular belt

Offering a comprehensive range of services is part of Habasit's belting solutions approach. We are committed partners of our customers, and we consider the sharing of knowledge and providing of support as an essential task. And this we offer:



Consulting and technical support

Habasit offers the best consulting and technical support on the belting market for fabric based belts and plastic modular belts founded on the experience and competence acquired in more than 50 years.

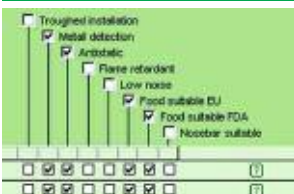


Belt selection and calculation

For our customers we select and calculate the most suitable belt for a specific application. However, customers may do it themselves thanks to the state-of-the-art Habasit selection and calculation programs "SeleCalc". For ordering these programs free of charge simply call the nearest Habasit partner or contact: info@habasit.com

CONVEY-SeleCalc = Fabric conveyor belt selection and calculation

LINK-SeleCalc = Plastic modular belt selection and calculation



Fabrication or assembling

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



Shortest lead times and installing service at hand

Habasit owns 26 Affiliated Companies located in North America, Europe and Asia, each with own inventory, fabrication, assembling and service facilities.

Together with our country managers, representative offices and a large number of qualified distributors we are in a position to react quickly, competently and reliably to customers' demands on an international scale.



Testing at customer's site

We are testing process functionality, alternative products and variations of fabric based belts or plastic modular belts at the customer's site.

Legal and conformity check

We are supporting our customers with respect to declaration issues, conformity issues or conformance with national laws/authorities like Safety data sheets, Flame-retardant conformity, etc.



Belt inspection and analyses

We organize / handle belt inspections, analyses, surveys per location and work out the necessary reports.



Belt repair

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

Process optimization proposals

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



Special belt fabrication

We offer special fabrication, such as longitudinal joining, edge sealing, profile welding, guide profiles welding, hole punching, side skirt installations, power turn belt cutting, etc.



Joining tools and auxiliaries

To support an effective and efficient fabrication of our belts, we develop and offer a broad range of tools and devices designed to meet the needs of our customers and distribution/service partners. This range covers the requirements of inhouse fabrication (series and specialties) as well as those of on-site installations of conveyor belts, power transmission belts and tapes such as slitters, skiving tools, finger cutting tools, hot-presses and auxiliaries like coiling and welding devices. For plastic modular belts HabasitLINK® we are well equipped with semi-automated assembling machines designed and manufactured by Habasit.



Training

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



Specific application knowledge transfer

Habasit provides application specific knowledge transfer for process specific issues to allow for optimal use of our products and to optimize machinery and processes.



Guaranteed performance

Our faith in our products is such that if one of our sales specialists has recommended a belt for a specific application, we will guarantee its performance. Should for any reason that belt not perform optimally, your money will be refunded unconditionally.

Customized Services



Designing the future "Partner in Design"

Habasit believes in partnership. For joint design developments our engineering team is looking for strong cooperation with the customer's engineering team, preferably at a very early stage. We offer this cooperation to large customers. Co-design: We work together for success.



Testing offer for customer

R&D expertise, laboratory and test equipment are offered for the customer's specific process needs like mechanical endurance testing, influence of customer/process used chemicals/ingredients or thermal influence behavior on belts.



Belt monitoring

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

Customized service agreements

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

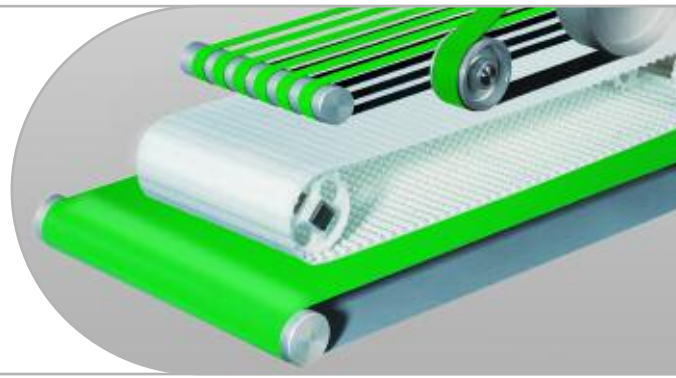


Project management

We are an experienced partner for belting project co-ordination on an international scale for globally operating customers.

The Habasit Solution

**At Habasit, we listen. We innovate.
And we deliver integrated belting
solutions – right first time.**



Customer first

Habasit understands that our success depends on the success of our customers. That's why we offer solutions, not just products; partnership, not just sales. Our innovative belting solutions are tailored exactly to specific needs. We guarantee best value for money in every application. Since its foundation in 1946, Habasit has proven this understanding of customer needs for more than 50 years. That's why we are the no. 1 in belting. Worldwide.



Product range

Habasit offers the largest selection of fabric and plastic modular belts in the industry. Our answer to any request is nothing less than a specific, tailor-made solution.

Fabric conveyor & processing belts
Plastic modular belts
Power transmission belts
Machine tapes
Seamless belts
Round belts
Timing belts
Auxiliaries (e.g. profiles, tools)



Innovation / R&D

Habasit is strongly committed to the continuous development of innovative, value-added solutions. More than 3% of our staff is dedicated exclusively to R&D; the annual investment in this area exceeds 8% of the turnover.



Global network

Facts & figures

Founded	1946
Turnover 2003	CHF 418 million
Sales to market	4.2 million m ²
Employees	more than 2200
Production plants	12
Affiliated companies	26
Representatives	in over 50 countries
Service centers	over 250 globally

Services & guarantees

Our extensive organization is prepared 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.

Quality

Highest quality standards are found not only in products, but also in our employees' daily work process. Based on a worldwide TQM approach, Habasit started very early to implement a quality system and was certified already in 1987 according to ISO 9001 / EN 29001. In 1996 Habasit was certified according to ISO 9001:1994. Since then we undergo periodically quality audits performed by an independent certification body. In the year 2002 we achieved certification according to the revised standard ISO 9001:2000.



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Product liability, application considerations**Product liability, application considerations**

If the proper selection and application of Habasisit products are not recommended by an authorized Habasisit sales specialist, the selection and application of Habasisit 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.

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