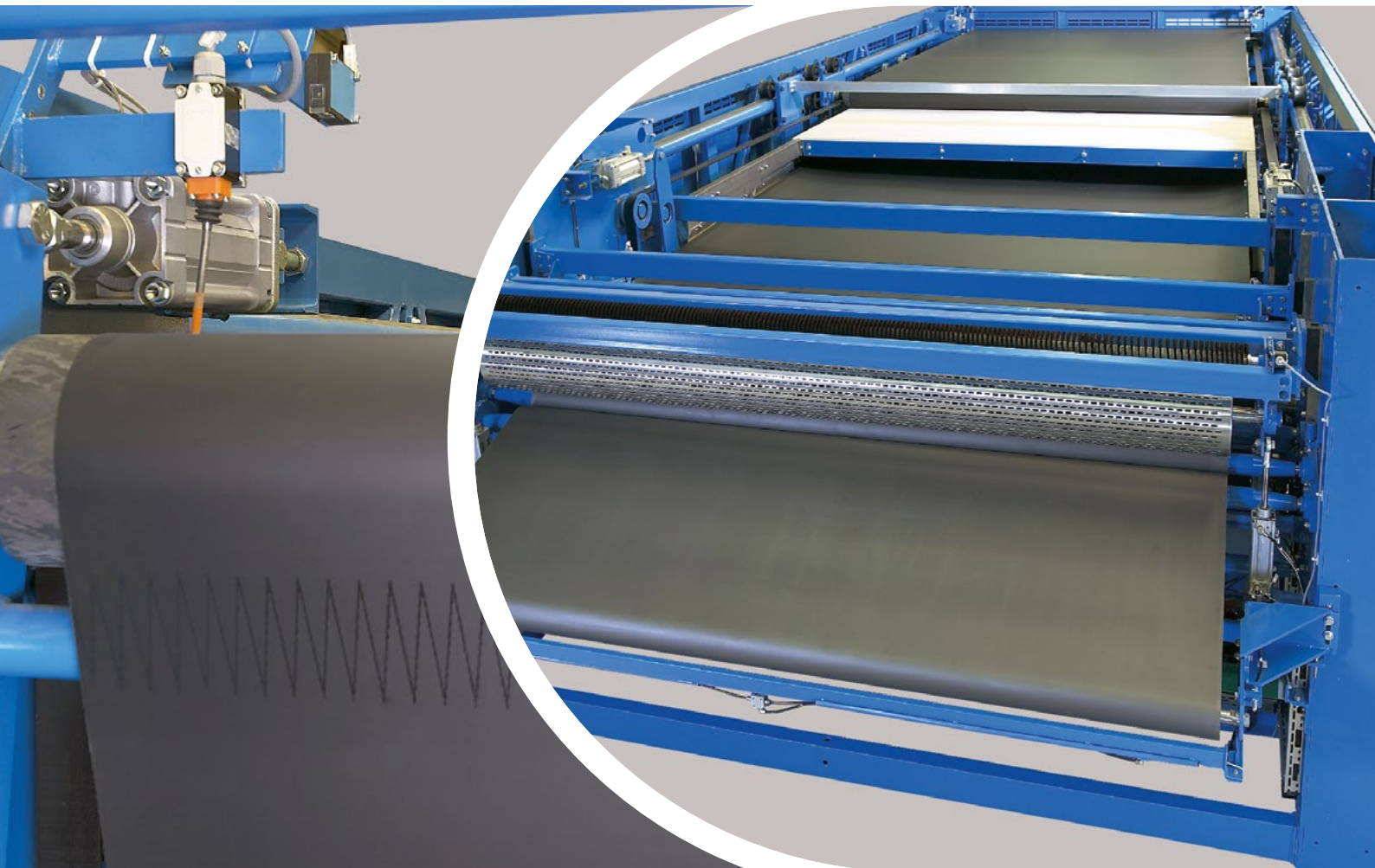


Nonwovens Industry

Conveyor and Processing Belts



Solutions for the nonwovens industry

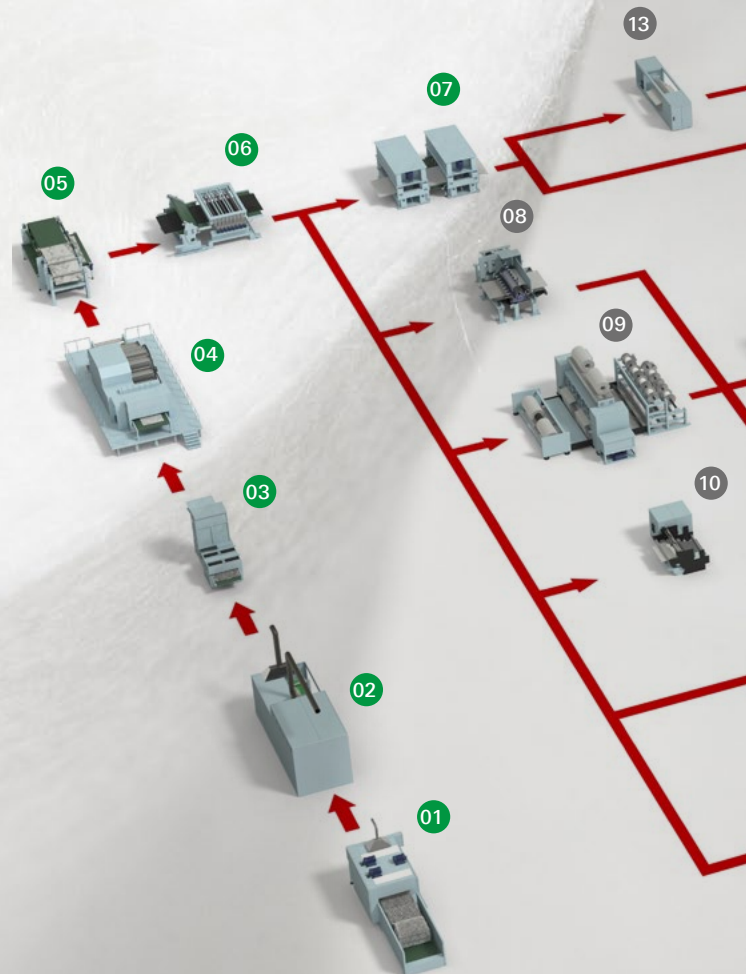
As the world's leading manufacturer of conveying and processing belts, Habasit has developed a specific product range to meet the special requirements of the nonwovens industry.

Satisfied customers

Numerous leading international nonwovens machine manufacturers rely on Habasit conveying and processing belts and choose Habasit belts for their original equipment, including:

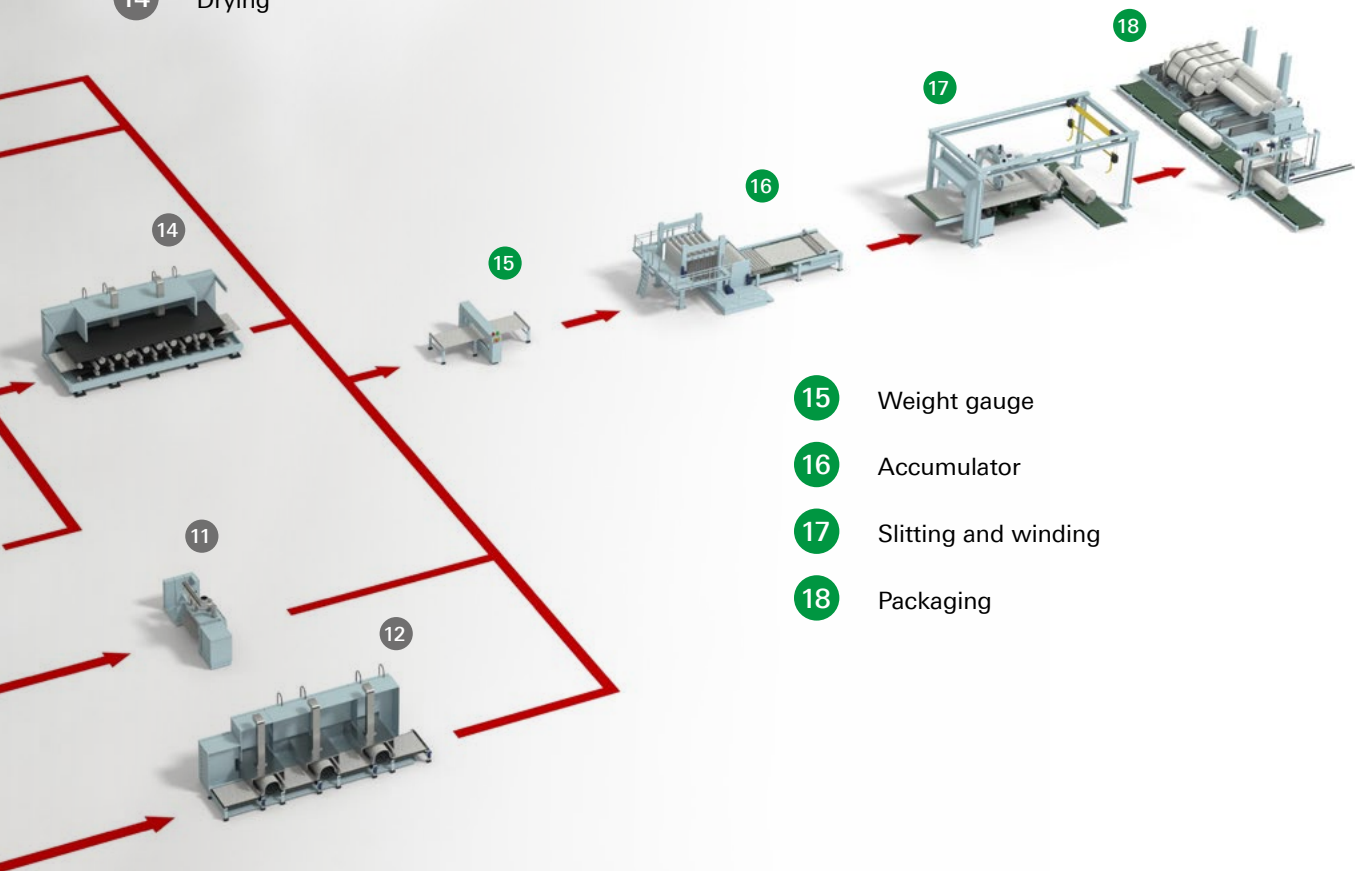
- Andritz Asselin-Thibeau S.A.S.
- Autefa Solutions GmbH
- Oskar Dilo Machines GmbH
- Trützschler GmbH & Co. KG
- Oerlikon Neumag
- Technoplants s.r.l.
- Qingdao Guanghui Textile Machinery co. Ltd.
- R&S Textile Machinery Inc.
- Zhengzhou Textile Machinery co. Ltd.

- 01 Bale opening and weighing
- 02 Blending machine
- 03 Fiber chute feeder
- 04 Card
- 05 Crosslapper
- 06 Web drafter
- 07 Needle punching



Drylaid nonwoven manufacturing process

- 08 Hydro-entanglement
- 09 Stitch-bonding
- 10 Chemical bonding
- 11 Thermobonding by calendering
- 12 Thermobonding through-air
- 13 Calendering
- 14 Drying



- 15 Weight gauge
- 16 Accumulator
- 17 Slitting and winding
- 18 Packaging

HabaFLOW® fabric-based conveyor belts

Habasit conveyor and processing belts are generally made of different layers, with tensile strength provided by synthetic fabric plies. These fabrics are connected with layers of thermoplastic materials. The material, thickness, and texture of the conveying side depend on the function of the belt.

Belts for every application

Cover coatings for the nonwoven industry are mainly made of thermoplastic materials like TPU (thermoplastic polyurethane), TPO (thermoplastic polyolefin) and PVC (polyvinyl chloride). The running side is usually a fabric, often impregnated with a thermoplastic material, or with special wear-resistant PUR that provides a low and constant coefficient of friction.

Surface structures

Various surface structures and embossings are available as well as several thicknesses, suitable for every kind of bale opener, blending opener, automatic blending machine, feeder, and regular conveyor application in the bonding and finishing operation of the nonwoven.

A combination of these attributes makes it possible to customize the mechanical, chemical, and electrostatic properties of each belt type.

Profiles

For machines without belt tracking systems and with short center distances, longitudinal profiles are often used. Profiles made of PVC and polyurethane are available in various sizes and shapes.

PVC conveyor belts

- Two-ply belts
- Non-sticky, hard surface
- Antistatic (electrostatic)
- Grip or blank, smooth surface
- Good release properties

TPU conveyor belts

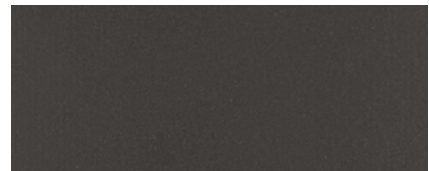
- One- or two-ply belts
- Non-sticky, hard surface
- Antistatic (electrostatic)
- Grip or blank, smooth surface
- Needed width >3 m to match card width size



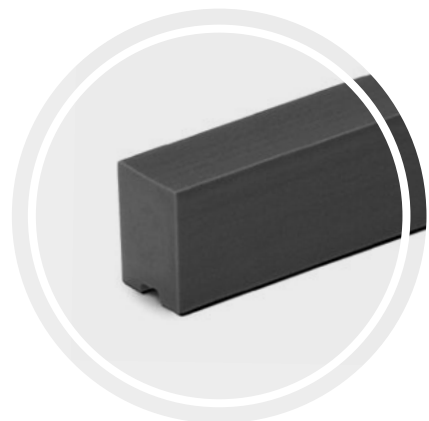
Quadrille surface structure
(Type Q)



Inverted pyramid surface structure (Type W)



Smooth structure



Quadrangular-shaped profile



V-shaped profile

HabaSYNC®

timing belts

HabaSYNC® timing belts for synchronization and positioning

HabaSYNC® timing belts support conveying and linear movement applications where optimum performance requires precise product placement and component positioning. High-quality materials coupled with our state-of-the-art manufacturing process and years of experience ensure innovative solutions tailored to your needs.

Timing belts in the nonwovens industry:

- Crosslapper carriage motion control and positioning: AT20,14M (AT10 for short and narrow machines)
- End line slitting, cutting, sewing, winding lines: T10, AT10
- Card driving, synchronization: Flex belts F AT10 or special fabricated belts

HabaDRIVE® power transmission belts

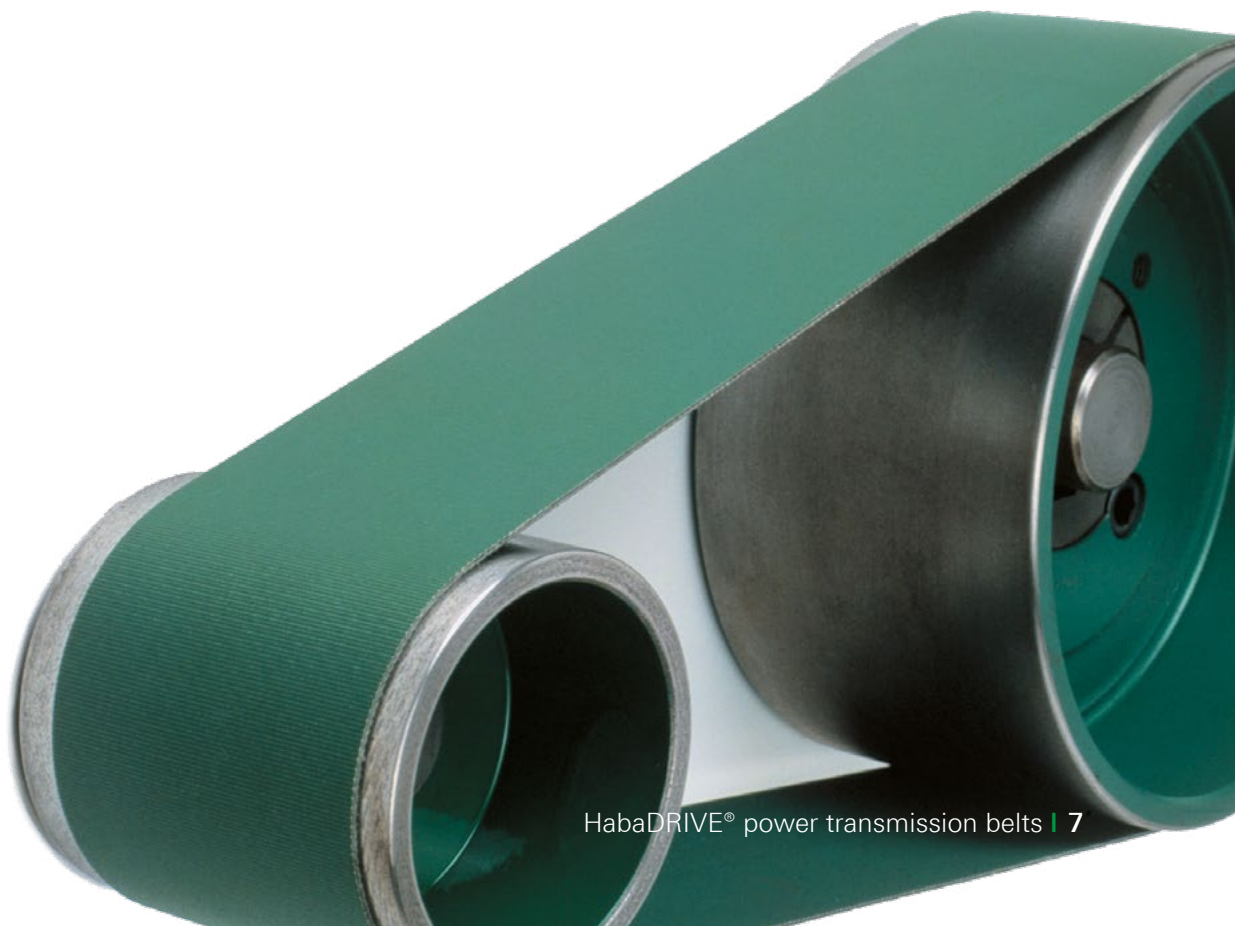
HabaDRIVE® power transmission belts

Habasit power transmission belts are tailor-made to suit specific industry and application needs or machine designs. We offer three different traction layer materials (Polyamide, Polyester, and Aramide) used by the following belt concepts:

- Open drive
- Tangential drive
- Multiple pulley drive
- Live roller drive
- Double-sided power transmission

Power transmission belts in the nonwovens industry:

- Machine drive, especially carding, winder, slitter, needle punching
- Polyamide (A- or S-) type style, Polyester (TC-) or Aramide (TF-)



Crosslapper belt range

The leading crosslapper belt manufacturer worldwide.

Leading machine manufacturers in Germany, France, Italy, Japan,

Korea, and China have chosen Habasit crosslapper belts as original

equipment thanks to their excellent release properties to the fiber web,

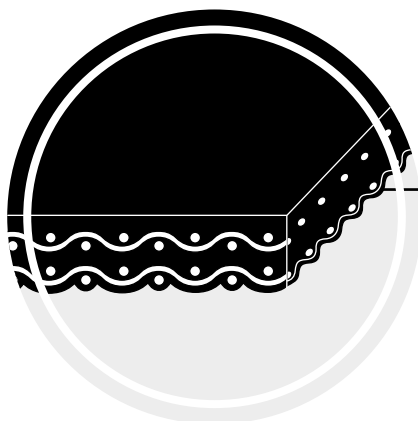
fast installation and going operational times, and excellent

price/value ratio.

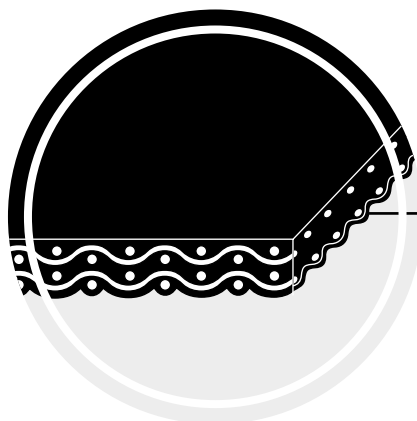
Premium line

Habasit premium crosslapper belts are known in the market for excellent quality and high reliability. The belts are available with widths up to 4,000 mm open prepared or made endless.

They offer an ideal combination of high transversal rigidity, extremely light weight, and excellent high mechanical properties such as lateral stiffness, tracking, scratch- and wear- resistance. Good dimensional stability combined with high conductivity make it possible to lay the nonwoven web perfectly and continuously in order to deliver a high-quality product.



ENB-6EE



ENT-6EE



Premium belts: ENB-6EE and ENT-6EE key features and benefits



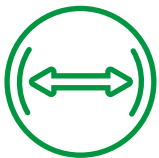
High-grade TPU combined with chemical-resistant polymer special crosslinked surface coating

- Chemically resistant
- No brittling, ageing, or micro cracking of belt surface
- No tow formation of fibres
- Long belt life
- No hooking of fibers on belt surface
- Uniform production of lightweight web (< 100 g/m²) possible



High lateral stiffness

- No folding of crosslapper belt
- No damaging of the nonwoven web
- No folding or over-throwing of nonwoven web
- Perfect tracking
- Trouble-free and reliable production
- Reduced operating costs



High longitudinal flexibility

- Improved operating conditions for high-speed machines
- Less tensioning required
- Less energy consumption



Highly conductive belt surface, excellent release properties

- Suitable for all man-made fibers
- No sticking of fibers, no fiber fly
- No blushing of web

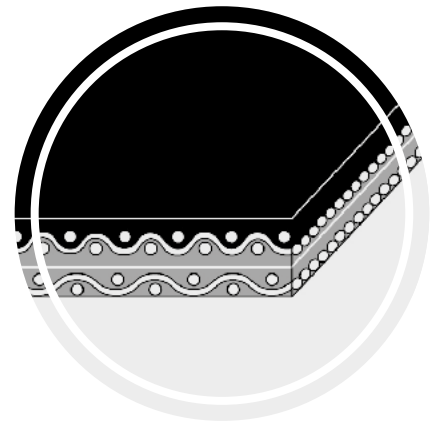


Homogenous Flexproof joining, various types of joining possible

- Identical properties, as flexible as the rest of the belt
- Short downtimes

Performance line

Habasit has developed performance crosslapper belts for general applications and as replacement belts on existing machines. The robust new crosslapper belt has been specially designed for a single motor drive crosslapper layout requiring a stiffer, thicker, and stronger belt.



ENB-9EE

Performance belt: ENB-9EE – key features and benefits



High-grade TPU combined with chemical-resistant polymer surface coating

- Good chemical resistance
- No brittling, ageing, or micro cracking of belt surface
- Long service life
- No hooking of fibres on belt surface



High lateral stiffness, thick two-ply belt construction

- No folding of crosslapper belt
- No damaging or over-throwing of conveyed nonwoven web
- Perfect tracking
- Trouble-free and reliable production
- Reduced operating costs



Conductive belt surface, excellent release properties

- Suitable for all man-made fibers
- No sticking of fibers to belt surface



Homogenous Flexproof joining, various types of joining possible

- Identical properties, as flexible as the rest of the belt
- Short downtimes

Installation

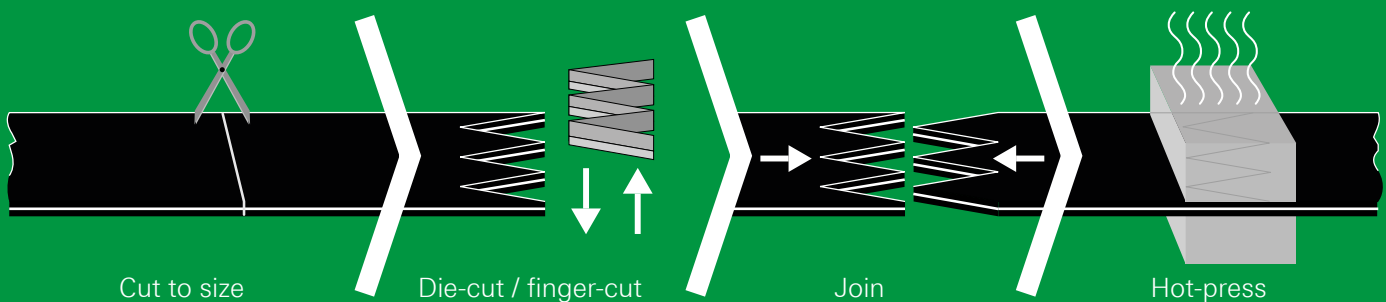
Habasit provides tailor-made belts all around the world. They are either prepared for hot-pressing on site, or are already joined endless to the required dimensions.

Our simple and rapid Flexproof joining method uses up-to-date fitting equipment and allows on-site splicing to achieve reliable, high-quality belt joints. State-of-the-art fabrication tools support the preparation and splicing of the belt on every type of machine anywhere in the world.


Belt selection by application

	Product name	Thickness		Mass of belt (belt weight)		Tensile force for 1% elongation N/mm after relaxation ($k_{1\% \text{ relaxed}}$) per unit of width		Pulley diameter minimum without counter flexion		Machinery for preparing fibers	Blending and opening machines	General cards and web conveying	Crosslapper	Needle machines	Coating, drying machines	Slitting and cutting machines
		mm	inch	kg/m ²	lbs./sq.ft	N/mm	lbs./in.	mm	inch							
TPU belts	ENB-6EE	1.0	0.04	1.0	0.21	4	23	50	1.97				•			
	ENB-9EE	1.2	0.05	1.3	0.27	6	34	50	1.97				•			
	ENT-6EE	0.8	0.03	0.7	0.14	4	23	50	1.97				•			
	FAB-5E	1.3	0.05	1.4	0.29	4.6	26	15	0.59			•		•		
	XVT-2346	1.5	0.06	1.7	0.35	6.5	37	20	0.79			•		•	•	
	XVT-2347	1.6	0.06	1.6	0.33	6.5	37	20	0.79			•		•		•
PVC belts	SAQ-8EI 07	2.1	0.08	2.3	0.47	6.5	37	40	1.57		•	•				
	NAB-8EEDV 11	2.1	0.08	2.4	0.49	6	34	30	1.18	•	•			•	•	•
	NAB-12EEDV 11	2.8	0.11	3.2	0.66	7.5	43	50	1.97	•	•					•
	NSL-10ELBV 11	2.6	0.10	2.7	0.55	6.5	37	30	1.18		•					
	NAQ-8ELBV	2.4	0.09	2.5	0.51	6.5	37	40	1.57		•	•				
	NHM-10EKBV 11	2.1	0.08	2.4	0.49	7	40	40	1.57		•	•				
	SNB-5E 07	1.7	0.07	1.9	0.39	5.5	31	20	0.79	•	•	•				
	NSL-7EEBV	2.5	0.10	2.7	0.55	6.5	37	20	0.79		•					
SNB-8E 07	2.1	0.08	2.4	0.49	6.5	37	40	1.57	•	•	•					
HabaSYNC® timing belts	AT-10											•	•		•	•
	AT-20												•			
	T-10															•
	14M											•	•		•	•

Flexproof



Our services

A man with a dark beard and hair, wearing a green jacket over a light blue shirt, is focused on working on a large, polished metal component. In the background, another man in a grey shirt and white gloves is also working on a similar component. The scene is set in a bright, clean environment, likely a workshop or laboratory.

Our commitment to our customers' success is what drives our continuous innovation and product and service improvements. We combine engineering expertise with dedication to reliability, to create lasting value for our customers.

Global leadership, local service

Habasit is your local partner with global reach. With 30 affiliated companies, each with its own inventory, fabrication, assembly, and service facilities, plus our worldwide network of partners, we react quickly and expertly to meet your most complex installation challenges.

Comprehensive technical support

From belt selection to design assistance. Extensive knowledge of our customers' processes lets us guide you from application analysis to selecting the optimal solution. We offer online calculation and belt selection tools, as well as on-site engineering assistance and equipment design, to make sure you get the best solution.

Process optimization and everyday efficiency

Innovation comes from understanding our customers' daily challenges. Habasit is more than a belting company. Our experts can provide belt condition monitoring, regular inspections, analysis and surveys at your sites, to keep your lines running smoothly and fully optimize your equipment and production processes.

Sharing knowledge and making business easy

Habasit offers training programs and support tools to ensure optimal use of our products, with training on fabrication, installation, assembly, maintenance and belt repair either at a Habasit site or your own location. Orders, shipping and tracking can be managed via our Customer Care team, or directly online.

Committed to innovation beyond the obvious

Because our customers' challenges and needs are always changing, we are constantly investing in the research and development of new products and solutions not only for today, but also for tomorrow.



Contact us

Habasit has subsidiaries, affiliated companies, representatives, and service partners all around the world, dedicated to supporting you whenever and wherever you need us.



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