

Wood Industry Belts for Board and Panel Manufacturing

Habasit-Solutions in motion





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Solutions for the wood industry

Solution provider for the wood industry

Wood processing machines require a wide range of industrial belting. Habasit has developed an adapted range of solutions in power transmission, conveyor and processing belts.

This is why Habasit is able to offer the most suitable belt for every application, from solid wood processing to industrial furniture manufacturing up to production lines of all kinds for engineered wood products such as particle board, MDF/HDF, OSB, plywood and LVL.

Thanks to close co-operation with leading machine manufacturers, suppliers and industry specialists, Habasit has developed and provides a specialized, customer-oriented application range of products and fabrication technology. These are backed by skilled consulting in all areas of wood-based panel manufacturing.

Are you looking for reliable and long-lasting belts with an excellent price-to-value ratio for your wood composite board production line? Habasit products are renowned in the market for their excellent quality and high reliability. They are recommended by leading manufacturers worldwide.

Without any doubt, this fact has a lot to do with the confidence these companies have in Habasit's ability to deliver high quality and competitively priced replacement belts on time anywhere in the world. Habasit fully meets their expectations, and this is confirmed by our outstanding market position in the OEM (Original Equipment Manufacturer) and EU (End User) business.

Innovation is a key word at Habasit

Continuous development has led to an extensive variety of solutions, from fabric-based conveyor and processing belts to HabasitLINK® plastic modular belts and HabaSYNC® timing belts, enabling our customers to choose the best possible product for their application.

Competence and experience

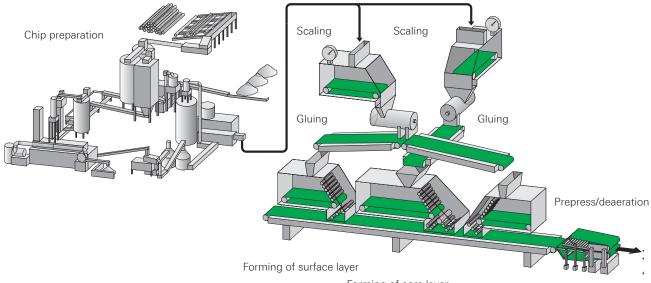
Habasit application engineers, technicians and joining specialists are at your disposal to provide you with professional consulting, superb customer service and excellent support. With decades of experience, since its foundation in 1946, Habasit has proved that it understands customers' needs. Thanks to its comprehensive global network, Habasit is able to respond to any request that you may have, with nothing less than an outstanding belting solution of top quality tailored to your specific needs.







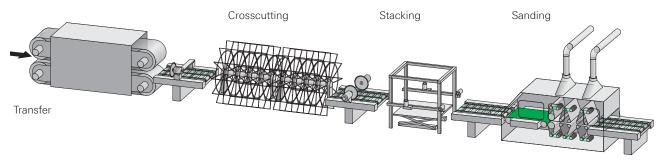




Forming of core layer

Forming of surface layer

Continuous press also single opening and multi-opening



Edge trimming

The drawing shows schematic examples of selected applications and processes, and are neither complete nor comprehensive. The belt recommendations (use/application/layout) can only be considered as a general suggestion. Due to the complexity of the various processes and technical requirements, and external influences such as the nature or properties of the transported goods, process speeds, stages of treatment/handling, environmental or process temperatures, humidity, chemicals, additives, ingredients, and recipes, etc. there are many possible solutions.







HabaFLOW® fabric-based conveyor belts

The right belt for every application

Habasit's conveyor belt selection includes hundreds of different belts to satisfy application requirements that range from straight-inclined or declined operations, to accumulation and diverters, to swan neck (Z) conveyors, and numerous others. We offer a wide variety of tension members and cover materials, as well as structural conveying- and running-side patterns to optimize your system's performance.

Belt materials

The materials and designs are selected to cope with a broad range of application requirements, including resistance to wear or chemical agents, and to high or low temperatures. Furthermore, our belts maintain excellent stress-strain behavior through the use of carefully selected tension members.

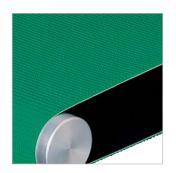
Belt design

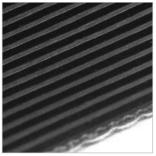
Habasit conveyor and processing belts are generally made of different layers, with tensile strength provided by synthetic fabric plies. These fabrics are connected by layers of thermoplastic materials. The material, thickness and texture of the conveying side depend on the function of the belt.

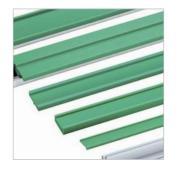
Cover coatings are mainly made of thermoplastic materials like TPU, TPO, PVC, etc., and elastomer-like rubbers, PUR, etc. – or feature a fabric cover. The running side is usually a fabric, often impregnated with a thermoplastic material, or with special wear-resistant PUR that provides a low and constant coefficient of friction. There are also pulley-side fabrics that feature special low-noise running capabilities.

Attachments and profiles

Guides, cleats and side walls are the most common modifications applied to conveyor and processing belts. While V-shaped profiles are mostly attached to the running side as guides, various cleat designs can be welded or bonded to the conveying side to ensure proper transport either horizontally or on an incline. Side walls positioned close to the edges of the belt stop loose goods falling off.



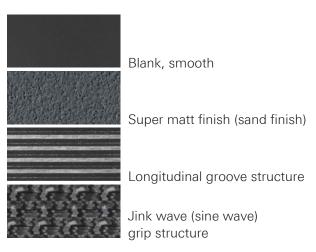


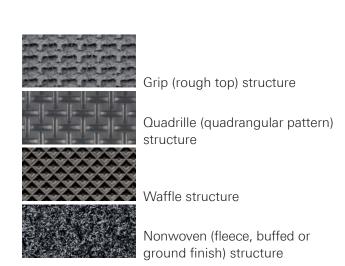


Surface structure

A well-designed belt surface supports both the secure transport of the goods conveyed as well as the process where the belt is employed. Careful selection is essential in order to find the right belt for each conveying or processing application. The belt surface plays a key role in meeting each specific process step or function.

Selection of surface structures





HabaFLOW® fabric-based conveyor belts Processing belts

TPU forming belts

The Habasit Extraline forming, transfer or accelerator belts have been specifically developed to cope with the requirements of all the belt applications of the forming process. These processing belts are designed to run over live nosebars with high loads and long conveying distances. Their excellent stability and thickness precision over length and width enable manufacturing of every kind of boards as well as very thin boards. The suitability for the use with highly sensitive metal detectors allows to protect the very expensive production equipment.

and the second	Key features	Your benefits
	Longitudinal flexibilityTransversal rigidity	 → Suitable for live nosebars at high tensile force → Constant running speed with high load over very long distances → Excellent tracking properties → High production reliability
	High chemical and abrasion resistanceHigh hydrolysis resistance	 → No alteration of belt surface → Maintenance-free = long belt life → No sticking/accumulating on the belt
	Permanently antistatic	 → No generation of sparks → No interference with electronic controls → No dust or dirt attraction

TPU prepress belts

The perfect prepressing of the mat is made possible thanks to the high modulus of elasticity, obtained with the use of both aramide and polyester fabrics, combined with the excellent pressure resistance and compression distribution of the Habasit Extraline prepress belts.

A STATE OF THE STATE OF	Key features	Υοι	ur benefits
	High chemical and abrasion resistanceHomogeneous belt surface	\rightarrow	No alteration of belt surface Maintenance-free Long belt life
200	Essential pressure resistance		Regular pressing of the chip cake High quality processing and productivity
	High modulus of elasticity		No retensioning Maintenance-free operation

PET deaeration belts

The Habasit Extraline deaeration belts for both MDF and particleboard manufacturing are the key to an increased productivity thanks to their high and controlled air flow rates. Their robust construction based on polyester monofilament provides a high chemical and abrasion resistance for a long and maintenance-free belt life.

Key features	Your benefits							
High airflow rate	→ Excellent deaeration process→ Increased line speed							
Permanently antistatic	 → No generation of sparks → No interference with electronic controls → No dust or dirt attraction 							
Flexproof joining on siteDouble loop seam joining	 → Easy handling and short downtimes → High flexibility and strenght → Keeps air permeability over the joining area 							

Customized solutions every time

Habasit power transmission belts are tailor-made to suit specific industry and application needs or machine designs. We offer three different traction layer materials, used by three different belt concepts, for open drive, tangential drive, multiple pulley drive, live roller drive, and double-sided power transmission.

Polyamide power transmission belts (PA)

Polyamide power transmission belts are resilient. They can cope with rough working conditions and have an extremely long service life during which they guarantee consistently high power transmission.

Asymmetrically built: A-series

Symmetrically built: S- and SP-series

Polyester power transmission belts (PET)

Habasit developed this unique product range through our close contacts with leading machine manufacturers worldwide, and ongoing research. The result is an energy-saving product range with a perfect price/value ratio.

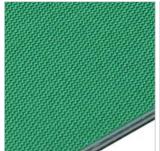
*Asymmetrically built: TCF-series**

Symmetrically built: TC-, and CM-series**

Aramide power transmission belts (AR)

TF tangential/flat belts are used for extremely compact driving configurations and for very long belts with high working speeds. Aramide power transmission belts provide high efficiency, energy-saving features, and high power transmission. They run at a very low initial working tension with little noise and have outstanding dimensional stability.

Asymmetrically built: TF-series Symmetrically built: TF-series



Key features	PA	PET	AR	Your benefits
Low energy consumption		•	•	 → Energy and cost savings → Energy consumption reduced by 4% to 6% → Efficient production → Good price/value ratio
TC range: high elastic modulus		•		→ High accuracy of machine speed
TF range: top-grade elastic modulus			•	→ Highest accuracy of machine speed→ Suitable for very long belts
Forgiving, can cope with rough working conditions	•			 → Belt can handle intermittent overloads and robust → Process reliability → Long belt life
Very flexible belt		•	•	 → Excellent flex-fatigue properties → Longest service life → Outstanding reliability → Suitable for small pulley diameters
Stable modulus of elasticity after running-inGood dimensional stability	•	•	•	→ No retensioning→ No downtimes→ No maintenance
Adhesive-free joining method		•	•	→ Easy handling→ Short machine downtimes→ Minimum equipment required
Two colors as installation aid	•	•	•	 → Easy insertion, no installation errors → No accidental twisting of the belt → Short machine downtimes

	HabaFLOW® fabric-based conveyor b														or b	elts			
	PVC coated TPU coated													ited			PUR coated		
	NAB-12EEAV	NAB-18EEAV 11	NAB-8EEDV 11	NAB-12EEDV 11	NAB-15EVDV	NAG-8EEDV 11	NAS-8EHDV	SNB-12E 07	SNB-18E 07	EMB-12EMCH*	EMB-20EMCH*	ENB-12ERCH*	F-5EXWT 05	F-8EXWT 05	F-8EQWT 05	FAB-5EIWH	ENA-151AEBH*	HNA-8P	HNA-18P
Wood fiber/flake preparation																			
Flaker/chipper/hammermill drives																			
(Wet/dry) bin belts	•	•	•	•				•											
Transfer line belts	•	•	•	•	•		•	•											
Scale belts				•									•		•				
Shuttle conveyors	•	•	•	•															
Bunker bottom belts		•						•	•		•								
Forming machine	•	•		•					•										
Forming line																			
Forming belts										•	•	•		•	•				
Prepress belts																	•		
Deaeration belts																			
Saw table belts	•			•				•											
Accelerator belts	•			•			•	•											
Transfer belts																•			
Tipple belts	•			•		•	•	•											
Preloader belts	•			•		•	•	•											
Tray loader belts																		•	•
Screen return belts							•												
Trash conveyor belts	•	•		•		•		•											
Board handling																			
Trimming	•	•	•	•				•											
Cross-cutting	•	•	•	•				•											
Sanding/calibrating																			
Board handling (live roller lines)																			

^{*} Habasit declares those products as components which are intended for incorporation into **ATEX-compliant** equipment or assemblies. This components fulfil the classification: $(E \times II \ 2 \ G \ IIB \ D \ c \ Ta \le +80 \ C$, qualified for equipment in potential explosive areas of zones 20, 21 and 22 as well as zone 1 and 2 with substance of explosion group IIA and/or IIB (typically mists of lacquering spraying cabinets, wood dust, sugar dust, etc.); protection achieved by constructional safety; for maximum ambient temperature $<= +80 \ C$.

													Haba	iDRI\	/E ° p	owe	r tran	smis	sion	belts		
Woven mesh Fabric Nonwoven Rubber co							coat	ed			nsmi ie sid		Power transmission on both sides									
ENR-12E	ENR-12EGSH-L1	ENT-12E	ENI-10E 14	FNI-5E	HNI-5P	UM155SC-B	UM220SC-B	UM220-G	HAG-12E	HAT-8P	HAT-12P	SAG-12E	A-4	A-5	TCF-55EL	TF-75TE	S-140H	S-250Н	S-250HR	TC-20EF	TC-35ER	TF-50
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Remark: This application/belt matrix is neither complete nor comprehensive and serves only as a guide to potential solutions. For detailed material and belt selection, please contact your local Habasit partner: www.habasit.com

Services

Comprehensive services are central to Habasit's belting solution approach.

As committed partners to our customers, we are dedicated to sharing our knowledge and to providing full support.



Comprehensive 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 is proud to provide the highest levels of support, together with topquality products that have been leaders on the global market for decades.



Assistance with belt selection and calculation

We will select and calculate the most suitable belt for your specific application. You can 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 over 30 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.



Tools for on-site fabrication

Because we understand your processes, we can support you with cost-effective, high-quality tools that keep your equipment up and running. In case of emergency our tools will help to minimize breakdown time and support the joining process.



Habasit offers skivers to prepare the belt ends of polyamide power transmission belts and spindle tapes prior to joining. Finger cutting devices to prepare aramide and polyester power transmission belts and TPU spindle tapes are also available. A selection of hot pressing devices to fit your applications and guarantee optimum quality of joining complement the range.



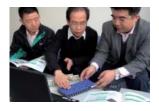
Customer training programs

Habasit offers training programs and provides support tools to ensure optimal use of our products and to prolong their lifetimes. 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, for example, to achieve added value from your 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.



Customers 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.

Learn more at www.habasit.com

Committed to innovation

Because our customers' belting challenges and needs never cease, we consistently dedicate a substantial percentage of our employees and resources to the research and development of new products and solutions.

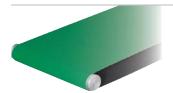
Certified for quality

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 9001:2008.



Worldwide leading product range

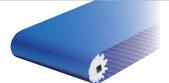
Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is always a specific, tailor-made solution.



Fabric-based conveyor and processing belts HabaFLOW®



Plastic modular belts **HabasitLINK**®



Positive drive conveyor and processing belts

Habasit Cleandrive™



Power transmission belts





Timing belts HabaSYNC®



Chains (slat and conveyor chains)

HabaCHAIN®



Machine tapes



Round belts



Seamless belts



Profiles, Guides, Wear strips **HabiPLAST**®



Fabrication tools (joining tools)



Gearmotors Electric motors Motion control

Australia

Habasit Pty Ltd. Silverwater Phone: +61 1300 945 455 www.habasit.com.au

Austria

Habasit GmbH Wien Phone: +43 1 690 66 www.habasit.at

Belgium

Habasit Belgium N.V. Zaventem Phone: +32 27 250 430 www.habasit.be www.habasit.lu

Canada

Habasit Canada Ltd. Oakville Phone: +1 905 827 41 31 www.habasit.ca

China

Habasit East Asia Ltd. Hong Kong Phone: +85 221 450 150 www.habasit.com.hk

Habasit (Shanghai) Co. Ltd. Shanghai Phone: +8621 5488 1228 Phone: +8621 5488 1218 www.habasit.com.hk

France

Habasit France S.A.S. Mulhouse Phone: +33 389 338 903

www.habasit.fr

Germany

Habasit GmbH Eppertshausen Phone: +49 6071 969 0 www.habasit.de

India

Habasit-lakoka Pvt. Ltd. Coimbatore Phone: +91 422 262 78 79 www.habasitiakoka.com

Italy

Habasit Italiana SpA Customer Care: Phone: 199 199 333 For int. calls: +39 0438 911 444 www habasit it

Japan

Habasit Nippon Co. Ltd. Yokohama Phone: +81 45 476 0371 www.habasit.co.jp

Netherlands

Habasit Netherlands BV Niikerk Phone: +31 332 472 030 www.habasit.nl

New Zealand

Habasit Ltd. Auckland Phone: 0800 000 070 www.habasit.co.nz

Poland

Habasit Polska Sp. z o.o. Dabrowa Górnicza Phone: +48 32 639 02 40 www.habasit.pl

Russia

OOO Habasit Ltd. St. Petersburg Phone: +7 812 600 40 80 www.habasit.ru

Singapore

Habasit Far East Pte. Ltd. Singapore Phone: +65 686 255 66 www.habasit.com.sg

South Africa

Habasit South Africa (Pty) Ltd. Phone: +27 12 664 2630 www.habasit.co.za

Spain

Habasit Hispanica S.A. Barberà del Vallès Phone: +34 937 191 912 www habasit es

Sweden

Habasit AB Hindas Phone: +46 30 122 600 www.habasit.se

Switzerland

Habasit GmbH Reinach Phone: +41 61 577 51 00 www.habasit.ch

Taiwan

Taipei Hsien Phone: +886 2 2267 0538 www.habasit.com.tw

Habasit (Taiwan) Ltd.

Turkey

Habasit Kayis San. Ve Tic. Ltd. Sti. Yenibosna-Bahcelievler-Istanbul Phone: +90 444 70 43 www.habasit.com.tr

Ukraine

Habasit Ukraine LLC. Vinnytsa Phone: +38 0432 58 47 35 www.habasit.ua

United Kingdom and Ireland

Habasit (UK) Ltd. Silsden Phone: +44 844 835 9555 www.habasit.co.uk

USA

Habasit America Suwanee, Georgia Phone: +1 800 458 6431 www.habasitamerica.com

Headquarters Habasit AG Römerstrasse 1 CH-4153 Reinach, Switzerland Phone +41 61 715 15 15 Fax +41 61 715 15 55 E-mail info@habasit.com www.habasit.com



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