

# Wood Industry

Belts for wood-based panel production



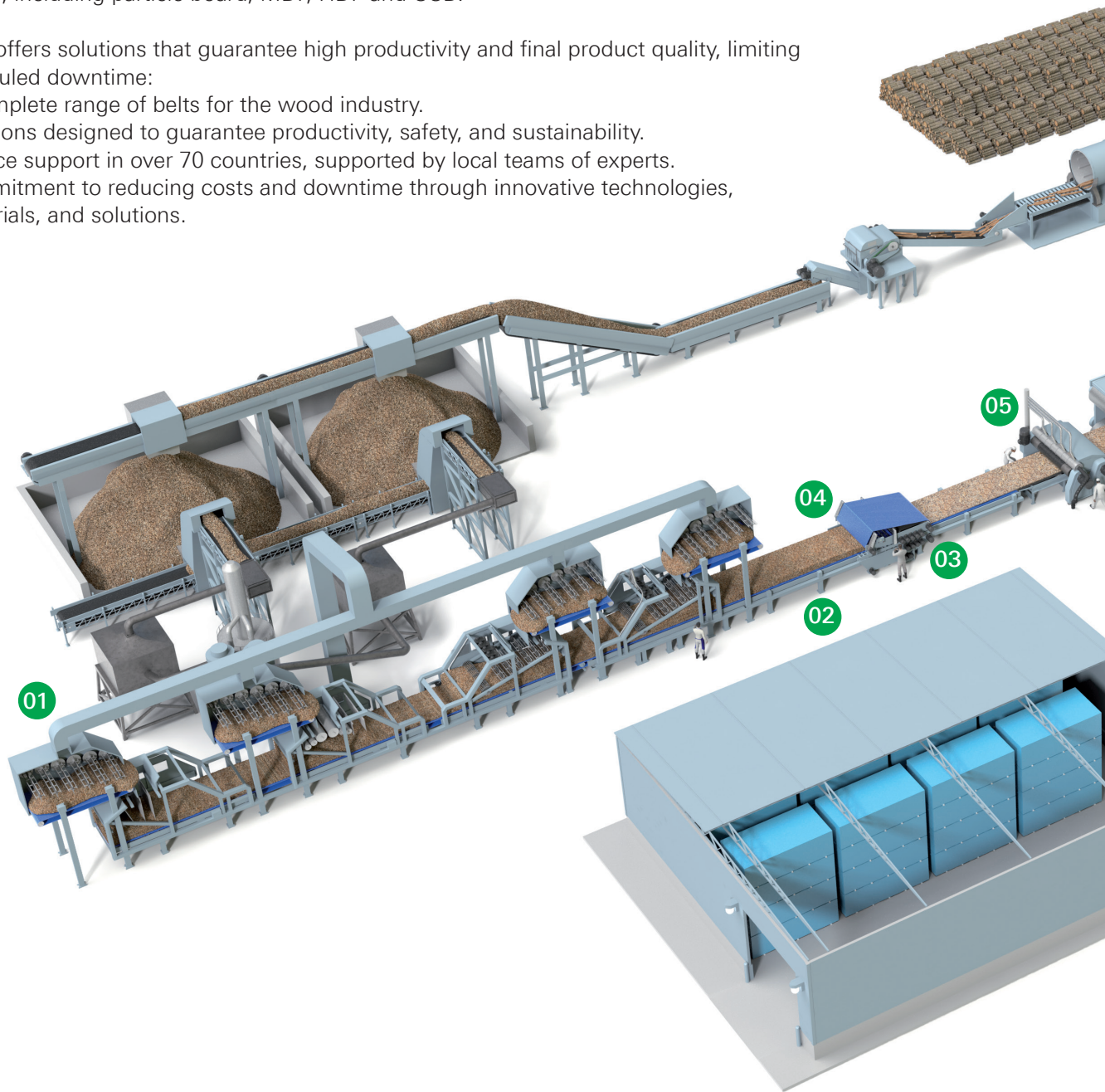
# Industry process

## Belts for the wood industry

Wood processing machines require a wide range of robust and precise industrial belting. Habasit's customized range of power transmission, conveyor and processing belts offers the most suitable products for wood industry applications at every stage, from solid wood processing to industrial furniture manufacturing and production lines for engineered wood products, including particle board, MDF, HDF and OSB.

Habasit offers solutions that guarantee high productivity and final product quality, limiting unscheduled downtime:

- A complete range of belts for the wood industry.
- Solutions designed to guarantee productivity, safety, and sustainability.
- Service support in over 70 countries, supported by local teams of experts.
- Commitment to reducing costs and downtime through innovative technologies, materials, and solutions.



- 01 Bunker
- 02 Forming
- 03 Pre-press
- 04 Deaeration
- 05 Transfer
- 06 Pre-heater



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### The key challenges:



**Improving line performance:** The wood industry aims to increase efficiency and lower operational costs. Frequent line stoppages and belt replacements impact profitability, necessitating innovative and durable solutions.



**Withstanding harsh conditions:** Belts must resist abrasion, high temperatures, and chemicals like resins and release agents to maintain performance and prevent premature aging.



**Ensuring product quality:** Consistent belt performance is crucial for producing high-quality boards and panels. Issues like belt tracking, surface contamination, delamination or excessive elongation can lead to defects and material waste.

# Process details

## 01 Bunker

### Pain points:

- Uneven distribution of wood particles or fibers.
- Belt slippage affecting production output.

### Solution:

The ENQ-15EHBT belt features a specialized surface for consistent material distribution and a durable TPU cover for exceptional abrasion resistance. It ensures reliable performance, extended service life, and withstands high tension for torque transmission without excessive elongation.

### Benefits for customers:

- Homogeneous material distribution
- Enhanced reliability and stable line speed



Find out more on our website:



ENQ-15EHBT  
Product Data Sheet

### Recommended solutions:

Belt type	Conveying Side	Pulley Side	Number of Fabrics	Thickness (mm)	Max Belt Width (m)	Tensile Strength (k1% relaxed) (N/mm)
ENQ-15EHBT	TPU	PET	2	4.2	4.0	11
XVT-2348	TPU	PET	2	2.1	4.0	10
ENB-15EHBT	TPU	PET	2	4.1	4.0	12
SNB-18E07	PVC	PET	3	3.3	3.2	12
NAB-14EEDV	PVC	PET	3	4.2	3.1	10
NAB-18EEAV	PVC	PET	3	4.8	3.0	10

## 02 Forming line

### Pain points:

- Sticky wooden fibers/particles combined with adhesive systems.
- Degradation of the belt's top surface due to chemical exposure.
- Maintaining a clean belt surface.
- Belt mistracking.

### Solution:

TPO-covered belts like XVT-2755 offer excellent release properties and superior chemical resistance, significantly reducing cleaning needs and surface wear. They also support formaldehyde-free adhesive systems.



**Benefits for customers:**

- No sticking or wooden fiber/particle build-up
- Extended belt lifespan
- No stains or marks on the wooden mat
- Compatible with all adhesive systems

Find out more on our website:



**XVT-2755**  
Product Data Sheet

**Recommended solutions:**

Belt type	Conveying Side	Pulley Side	Number of Fabrics	Thickness (mm)	Pulley diameter (mm)	Max Belt Width (mm)	Tensile Strength (k1% relaxed) (N/mm)
XVT-2755	TPO	PET	2	1.7	24.0	4000	10.0
EMB-12EMCH	TPU	PET	2	1.7	15.0	4000	9.0
ENB-12ERCH	TPU	PET	2	1.7	15.0	4000	8.5
EMB-11EMWH	TPU	PET	2	1.7	15.0	4000	8.5
EMM-20ERCH-W2	TPU	PET	2	1.7	15.0	4000	10.0

**Customer story: Improving forming belt performance**

**Product:** Competitor's TPU forming belt

**Application:** MDF forming line in Poland.

**Case:** The competitor's belt had a service life of only nine months. It required replacement due to two primary issues: the accumulation of wood fiber deposits on the belt's surface and joining rupture during the summer months. These problems compromised production efficiency and product quality.

**Proposed solution:** Habasit XVT-2755 TPO belt

**Results:** The customer installed the Habasit XVT-2755 TPO belt and experienced a significant improvement in performance. The TPO belt's superior release properties prevented wood fibers from sticking to the surface, and its robust construction resisted the stress that caused the previous belt's joint to fail.

The Habasit solution delivered a service life of 16 months, nearly doubling the operational time and demonstrating exceptional durability and value.

**03 Pre-press**

**Pain points:**

- Belt delamination.
- Stains on the wood mat.
- Belt breakage or mistracking due to heavy loads.

**Solution:**

The XVT-2759 unique design eliminates potential belt's delamination issues and ensures a clean, even wooden mat. It delivers stable, accurate operation, while the stronger, advanced bonding system enhances robustness and joining strength.

**Benefits for customers:**

- Consistent panel quality
- Smooth operation with improved belt reliability
- Easy installation thanks to its symmetric design

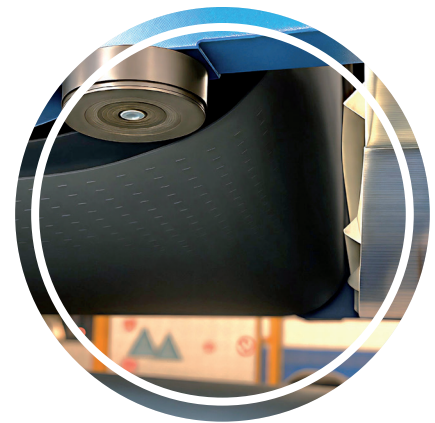
Find out more on our website:



**XVT-2759**  
Product Data Sheet

**Recommended solutions:**

Belt type	Conveying Side	Pulley Side	Number of Fabrics	Thickness (mm)	Pulley diameter (mm)	Max Belt Width (mm)	Tensile Strength (k1% relaxed) (N/mm)
XVT-2759	PET	PET	3	3.7	250	3800	32.0
ENA-151AEBH	PUR	PET	3	3.8	250	3800	25.0



## 04 Deaeration

### Pain points:

- Clogging reduces air permeability.
- Insufficient air permeability lowers production speed (improper belt choice).
- Excessive abrasion causes frequent replacement.

### Solution:

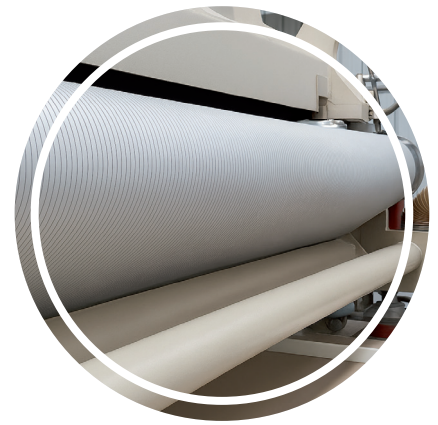
The XVT-2860 belt offers excellent air permeability and abrasion resistance, ensuring reliable joining, effective deaeration, and extended operating intervals. It features a flat double-loop seam with wear level matching the belt itself.

### Benefits for customers:

- Fewer replacements due to longer belt lifespan
- Optimal balance of release properties and abrasion resistance
- Easy installation with a symmetric design

### Recommended solutions:

Belt type	Conveying Side	Pulley Side	Air permeability (m <sup>3</sup> /m <sup>2</sup> /h)	Thickness (mm)	Pulley diameter (mm)	Max Belt Width (mm)	Tensile Strength (k1% relaxed) (N/mm)
XVT-2860	PET	PET	14500	2.2	60	5000	13
ENR-12E	PET	PET	9000	1.8	60	3600	7
ENR-12EGSH-L1	PET	PET	8500	1.7	60	3600	14
ENT-12E	PET	PET	12500	0.85	50	2850	7



Find out more on our website:



XVT-2860  
Product Data Sheet

## 05 Transfer

### Pain points:

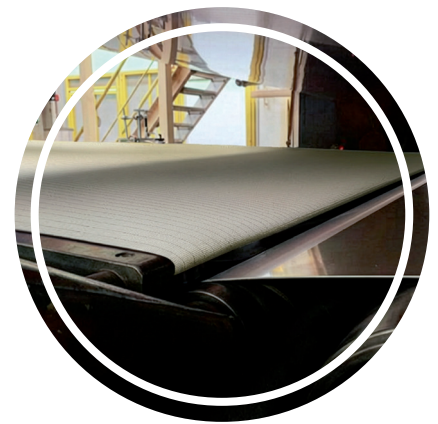
- Belt damage caused by high temperatures.
- Belt shrinkage and stretching.

### Solution:

The XVT-2846 wire mesh stands out with excellent abrasion and hydrolysis resistance, along with anti-adhesive properties. It withstands heat and mechanical stress, featuring a new, redesigned spiral seam for quick installation and stable operation. What's more, the belt is compatible with small pulleys.

### Benefits for customers:

- Reduced downtime thanks to an extended belt lifespan
- Minimized maintenance requirements
- Reliable, undisturbed performance in harsh conditions



Find out more on our website:



XVT-2846  
Product Data Sheet

**Recommended solutions:**

Belt type	Conveying Side	Pulley Side	Number of Fabrics	Thickness (mm)	Pulley diameter (mm)	Max Belt Width (mm)	Tensile Strength (k1% relaxed) (N/mm)
XVT-2846	WHI*	WHI*	1	1.5	12	5000	4
FAB-5EIWH	TPU	PET	2	1.3	15.0	4000	4.2
ENT-12EEWL	PET	PET	1	1.35	12	5000	10

WHI – Wear, Hydrolysis and Impact-resistant polymer

**06 Pre-heater**

**Pain points:**

- Belt stretching at high temperatures.
- Resin and fiber clogging.
- Belt breakage or mistracking.
- Premature aging due to hydrolysis.

**Solution:**

As with transfer applications, the XVT-2846 wire mesh belt is the best choice for pre-heaters. Featuring a redesigned spiral joining, the belt delivers excellent stability and resists both heat and clogging, optimizing pre-heater performance. The high-quality heat setting ensures longitudinal stability, effectively preventing stretching issues.

**Benefits for customers:**

- Enhanced performance with consistent steam flow
- Reliable, uninterrupted operation
- Minimized maintenance requirement



**Find out more on our website:**



**XVT-2846**  
Product Data Sheet


**Recommended solutions:**


Belt type	Conveying Side	Pulley Side	Number of Fabrics	Thickness (mm)	Pulley diameter (mm)	Max Belt Width (mm)	Tensile Strength (k1% relaxed) (N/mm)
XVT-2846	WHI*	WHI*	1	1.5	12	5000	4
ENR-15EGW	PET	PET	Spiral	2.4	70	5000	16
ENT-12EEWL	PET	PET	1	1.35	12	5000	10
XVT-2755*	TPO	PET	2	1.7	24	4000	12

XVT-2755 – suitable for pre-heaters which use microwave radiation (non-steam application)

WHI – Wear, Hydrolysis and Impact-resistant polymer

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