

# Printing Blankets for Textile Printing



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## **Habasit – the first manufacturer of TPU printing blankets**

Habasit was the first belting manufacturer to provide TPU-based printing blankets to the textile industry over 30 years ago. The clear superiority of the belts' performance, as well as their ease of installation in comparison with previous solutions, made Habasit printing blankets the first choice for OEMs and textile printing end users.

## **Habasit – the first to provide high-strength aramid printing blankets**

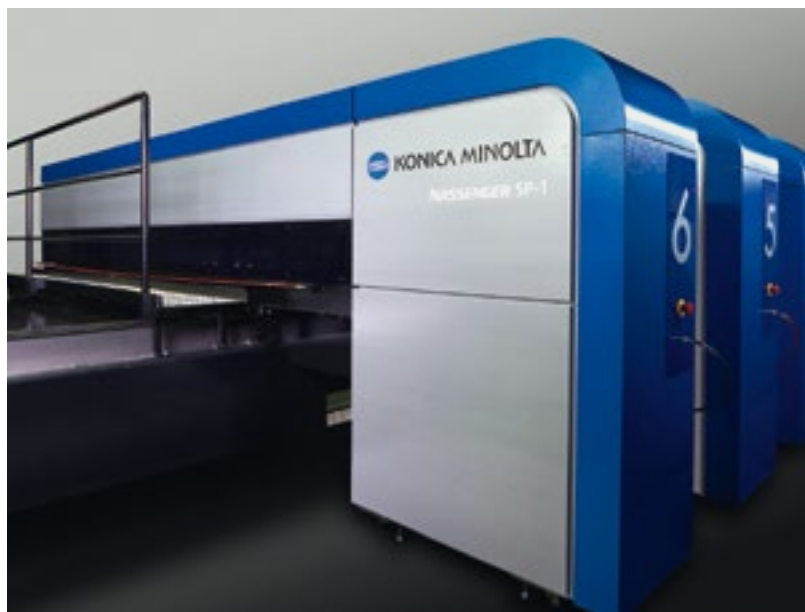
As new fashions called for more colorful designs, the number of printing colors and the length of the printing area increased, leading to a demand for greater printing accuracy. Habasit's aramid printing blankets continue to deliver exceptional performance in such applications, and have become key for further developments in textile printing.

## **Habasit – the first to develop specialized printing blankets for digital textile printing**

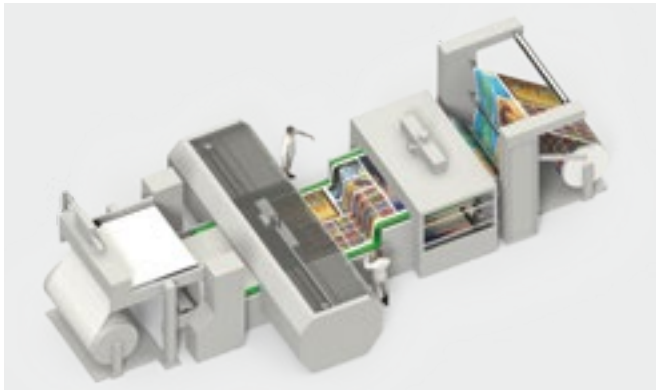
The digital revolution in textile printing has led to additional requirements for printing blankets. The new options offered by digital printing in terms of variety and depth of colors can only be realized through the reliable and absolutely precise positioning of every drop of ink. Habasit's expert knowledge of textile printing and close collaboration with OEMs has resulted in a new generation of printing blankets.

### **Companies we work with:**

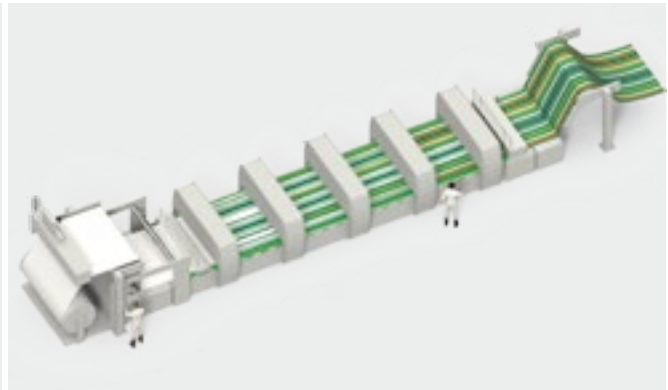
- Atexco – Honghua
- Colorjet
- EPSON Robustelli
- Huisheng
- Konica Minolta
- Mimaki
- MS
- EFI-Reggiani
- SPGPrints
- Toshin Ichinose
- Zimmer



Digital textile printing requires extremely high printing blanket accuracy, since the ink drops must be placed on the textile with a precision of one hundredth of a millimeter. Habasit offers a full range of printing blankets optimized for every kind of digital textile printing machine, from plotter types to high-productivity and high-precision multi- or single-pass printing machines. The correct selection of the printing blanket type not only ensures the best printing results, but also delivers the most economical solution for the machine design.

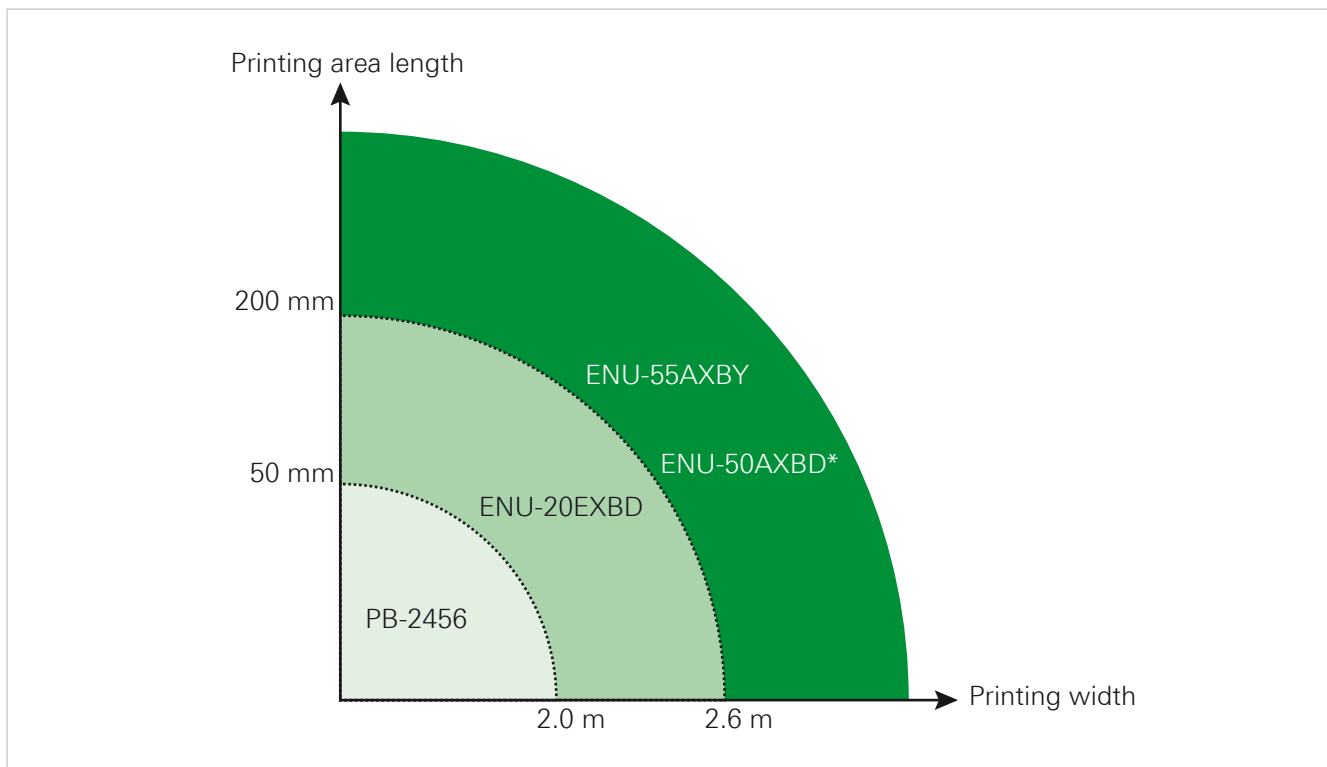


Scanning printing machine



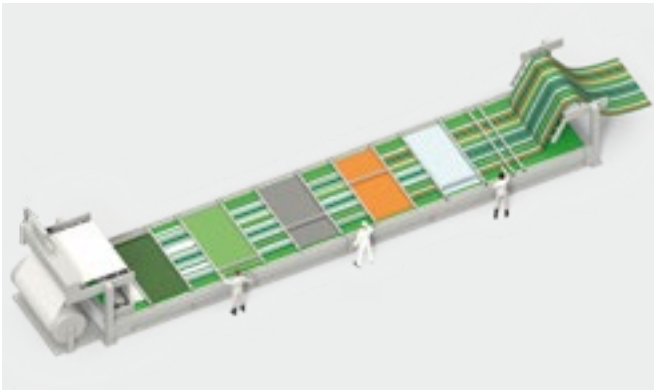
Single-pass printing machine

## Selection graph for printing blankets

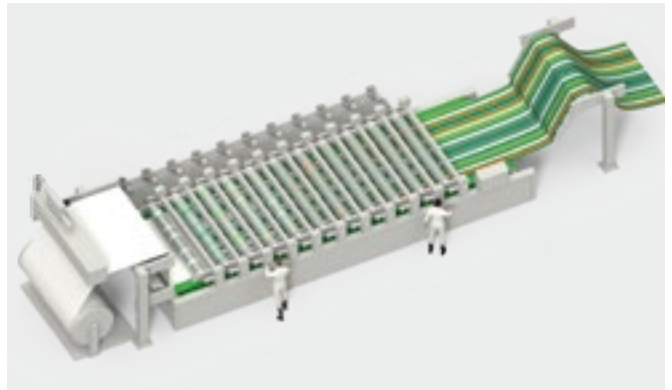


\*For applications of more than 2.6 m width

The printing blanket is the heart of every screen printing machine. The textile must be moved accurately through all the color screens. Habasit printing blankets have proven their exceptional performance in demanding screen printing applications all around the world, and are the first choice in the market today for both original equipment and replacements.



Flat-bed printing machine



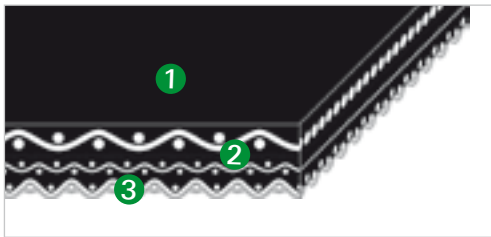
Rotary printing machine

	Premium Line			Performance Line	
	ENU-50 AXBD	ENU-20EXBD	PB-2460	PB-2449	PB-2461
<b>Flat-bed printing machines</b>					
Twin drive up to 28 m printing table	○	●		○	
Twin drive >28 m printing table	●			○	
Single drive up to 20 m	○	●		○	
Clamping drive any length			●		●
<b>Rotary printing machines</b>					
Squeegee blades	○	○	○	○	○
Magnetic system up to 10 colors	○	●	○	○	○
Magnetic system >10 colors	●			●	

● Recommended choice    ○ Possible alternative

Habasit Premium Line printing blankets are made in Switzerland to the highest production standards, thus ensuring that they deliver optimal product performance. Habasit Premium Line printing blankets are thoroughly tested for quality, which allows us to offer a warranty on their printing performance.

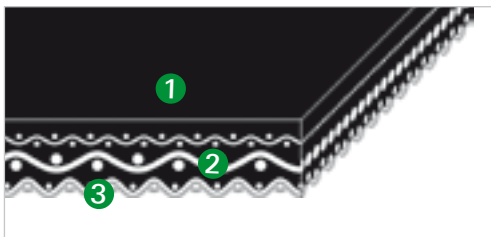
## ENU-55AXBY



- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: aramid fabric
- 3 Running side: impregnated fabric

- Optimized for digital textile printing
- Unique asymmetric 3-ply structure for low positioning of the neutral phase, enabling the highest printing accuracy
- High lateral stiffness

## ENU-50AXBD

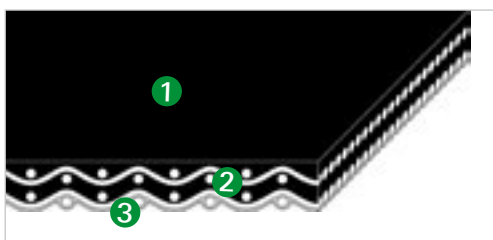


- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: aramid fabric
- 3 Running side: impregnated fabric

- High-strength aramid printing blanket
- Proven track record on various printing machine types
- High lateral stiffness



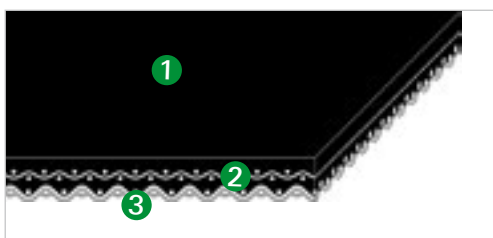
## PB-2460



- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: polyester (PET) fabric
- 3 Running side: impregnated fabric

- Robust polyester printing blanket
- Thick TPU layer on top cover
- Optimized for conventional rotary printing machines with up to ten colors

## ENU-20EXBD



- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: polyester (PET) fabric
- 3 Running side: impregnated fabric

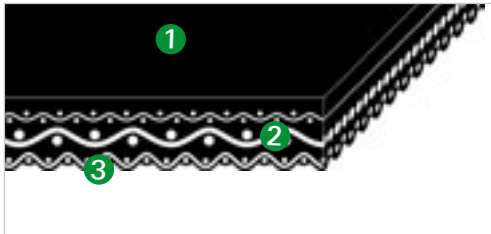
- Versatile polyester printing blanket for use in screen printing or digital printing applications
- Good strength and flexibility

Type	Thickness		Tensile force for 1% elongation (relaxed)		No. of fabrics	Traction layer material	Lateral stiffness		Neutral phase position	
	mm	inch	N/mm	lbf/inch			N*mm	lbf*inch	mm	inch
ENU-55AXBY	2.3	0.09	26	148.5	3	Aramid	750	4282	0.50	0.02
ENU-50AXBD	2.3	0.09	28	160	3	Aramid	700	3997	0.90	0.04
PB-2460	2.6	0.10	12	68.5	2	PET	425	2430	1.30	0.05
ENU-20EXBD	2.1	0.08	12	68.5	2	PET	225	1286	0.80	0.03



Habasit Performance Line printing blankets offer an unmatched price/performance ratio, making them an excellent choice as replacement belts or as original equipment for many different machine types. Habasit Performance Line printing blankets are available for all common textile printing applications.

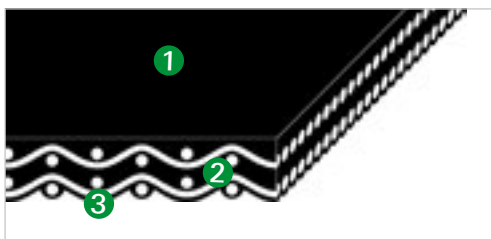
## PB-2449



- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: aramid fabric
- 3 Running side: impregnated fabric

- High-strength aramid printing blanket
- High lateral stiffness

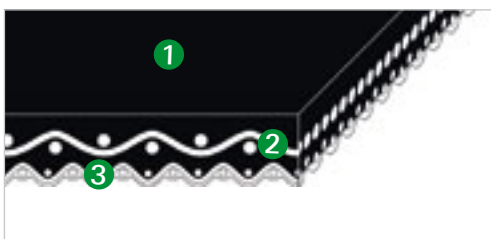
## PB-2461



- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: polyester (PET) fabric
- 3 Running side: impregnated fabric

- Robust polyester printing blanket
- Thick TPU layer on top cover
- Good lateral stiffness

## PB-2456



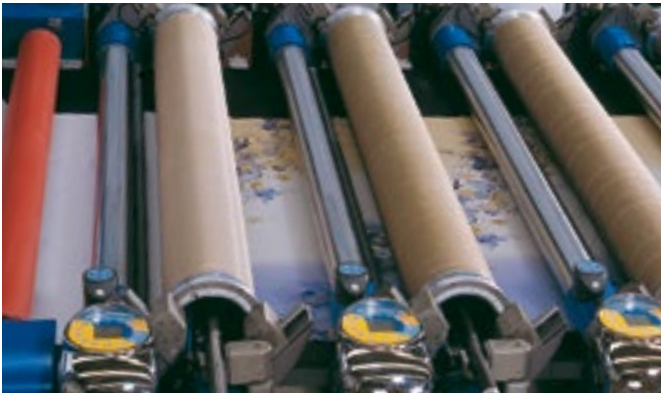
- 1 Conveying side: thermoplastic polyurethane (TPU)
- 2 Traction layer: polyester (PET) fabric
- 3 Running side: impregnated fabric

- Optimized for short digital scanning printing machines
- Low tensile force for elongation minimizes the belt load and saves costs on cylinders and bearings

Type	Thickness		Tensile force for 1% elongation (relaxed)		No. of fabrics	Traction layer material	Lateral stiffness		Neutral phase position	
	mm	inch	N/mm	lbf/inch			N*mm	lbf*inch	mm	inch
PB-2449	2.1	0.08	28	160	3	Aramid	500	2855	0.85	0.03
PB-2461	2.6	0.10	12	68.5	2	PET	425	2430	1.30	0.05
PB-2456	1.6	0.06	5	27	2	PET	150	856	0.55	0.02



Key features	Your benefits
<ul style="list-style-type: none"> <li>• Homogeneous and even surface</li> <li>• Uniform thickness profile</li> </ul>	<ul style="list-style-type: none"> <li>• High print quality</li> <li>• No marking on the print area</li> </ul>
<ul style="list-style-type: none"> <li>• High-grade TPU surface coating</li> </ul>	<ul style="list-style-type: none"> <li>• High wear resistance</li> <li>• High chemical resistance</li> <li>• Easy to clean</li> </ul>
<ul style="list-style-type: none"> <li>• High chemical resistance</li> <li>• High thermal stability</li> </ul>	<ul style="list-style-type: none"> <li>• Long service life</li> </ul>
<ul style="list-style-type: none"> <li>• Flexproof (finger) joints</li> </ul>	<ul style="list-style-type: none"> <li>• Quick on-site joining</li> <li>• No marking on the print area</li> </ul>



## A global network at your service

Habasit has an extensive service network with a strong presence in all major international markets. A dedicated global technical support team of highly trained and experienced textile printing specialists and local experts is available to support you wherever you are in the world.

Whether assisting with the right choice of Habasit printing blanket, or aiding with machine design, the team is always ready to help you find the best solution for your application.

Our local fabrication teams are equipped with the latest know-how in terms of service, maintenance and joining for all on-site requirements or in-house fabrication, helping you to achieve outstanding printing accuracy and quality, long belt service life, and minimal downtimes.

For more information, please contact your local Habasit representative.

## Customers first

Your success is our goal. That is why we don't just offer products; we provide solutions. As committed partners to our customers, we are dedicated to sharing our knowledge and providing full support.

Since our founding in 1946, Habasit has been finding ways to meet customer-specific needs in every application. This is what differentiates us as the #1 worldwide belting provider in the industry today.



## Comprehensive consulting and technical support

Profit from the best consulting and technical support in the lightweight belting industry. Local experts are always available to assist you with your belting needs. The Habasit team is proud to provide the highest level of support, together with top-quality products that have led the global market for decades.



## Belt selection and calculation assistance

We are always glad to help you select the most suitable belt for any application. For your convenience, we now also provide the free online tool 'SeleCalc' which allows you to easily make selections and calculations yourself. Simply register online at [selecalc.habasit.com](http://selecalc.habasit.com).



## Fabrication, assembly and local installation services

As a full-service belting provider, we offer joining and assembly services either at our own locations or directly on your equipment.

Habasit has over 30 affiliates worldwide, each with its own inventory, fabrication, assembly and service facilities.



Together with representative offices and numerous qualified distributors, we can react quickly and efficiently to meet all your needs.



## Customer training programs

To ensure the optimal performance and maximum lifespan of all our products, we offer training programs and various support tools. This includes proper procedures for fabrication, installation, assembly, maintenance and belt repair, all of which take place at a Habasit site or at your location.



## Belt monitoring, inspections, analyses and process optimization proposals

We organize and handle belt maintenance, inspections, analyses and surveys at customers' sites. Upon request, we are ready to develop optimization proposals to ensure you're getting maximum value from your machinery and process output.



## Design assistance for customized solutions

Habasit believes in building partnerships with our customers. Our engineering team will work closely with your engineers on joint design developments from initial design to final implementation. This expert service can be invaluable for projects involving new technologies or large-scale modifications and adaptations.



**Committed to innovation**

Because our customers' belting challenges and needs are always changing, we consistently invest a substantial amount of labor and resources into the research and development of new products and solutions.

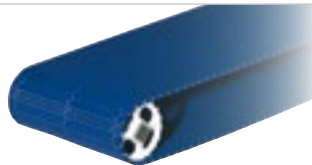
**Certified for quality**

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.

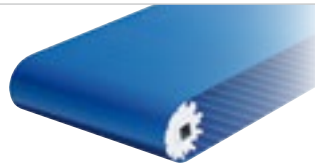


**Worldwide leading product range**

Habasit offers the largest selection of belting, conveying, processing and complementary products in the industry. Our response to any request is nothing less than a specific, tailor-made solution.

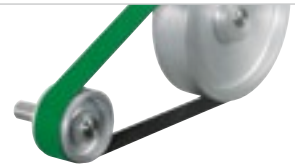


**HabaFLOW®**  
Fabric-based conveyor and processing belts

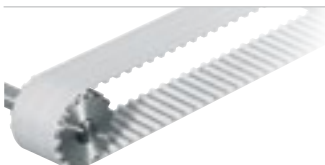


**HabasitLINK®**  
Plastic modular belts

**Habasit Cleandrive™**  
Monolithic reinforced conveyor belts



**HabaDRIVE®**  
Power transmission belts



**HabaSYNC®**  
Timing belts



**HabaCHAIN®**  
Chains (slat and conveyor chains)



Machine tapes



Round belts



Seamless belts



**HabiPLAST™**  
Profiles, guides, wear strips



**Accessories**  
(sprockets, flights, welding profiles, etc.)



**Fabrication tools**  
(joining, cutting & preparing devices)

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