

**NEW**

# Habidur<sup>®</sup> polyester belts: HC-range perfect for folder-gluer applications

Adhesive-free  
joining

- Adhesive-free joining allows easy on-site installation
- Excellent resistance of rubber to cut propagation
- Excellent reverse bending properties
- Good abrasion resistance
- High and constant grip over lifetime, no glazing out
- Optimized traction layer combining flexibility and robustness

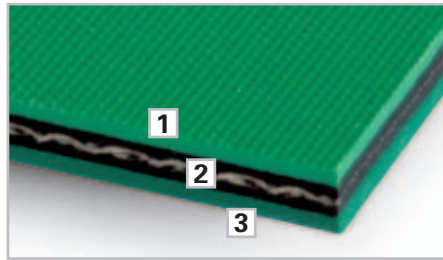
- **Long belt life**
- **High machine performance and output**



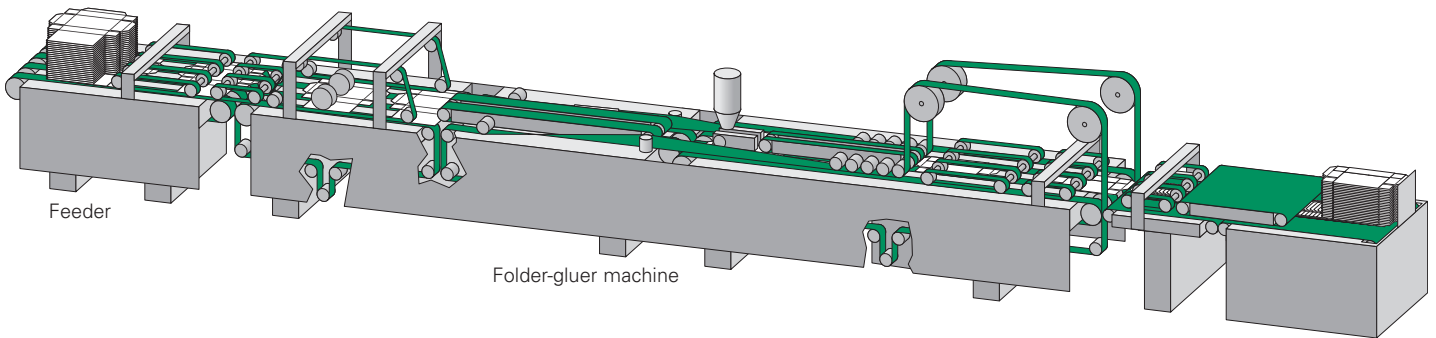
**\*Habidur®** ("dur" stands for durability), the new rubber compound offers high flex fatigue strength, resistance to cut propagation and improved tear resistance.

The range:

**HC-14/30D, HC-14/40D,  
HC-14/50D, HC-18/60D**



- 1** Green, rubber (Habidur®), rough textile structure
- 2** Traction layer: PET-fabric embedded between two thermoplastic foils
- 3** Dark green, rubber (Habidur®), rough structure



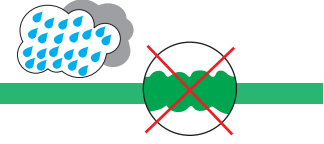
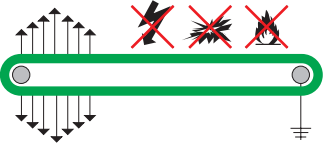
## Features and benefits of Habidur® polyester folder-gluer belts

The Habidur® rubber covers provide high durability, good positive grip and the ability to cope with very high operational speeds (~ 600m/min), reversed bendings and small pulley diameters.

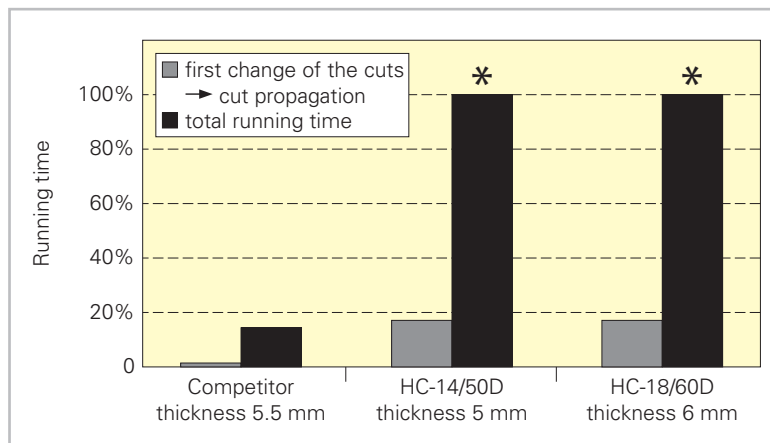


	Features	Benefits
	<ul style="list-style-type: none"> <li>• Habidur® rubber cover</li> <li>• Excellent resistance to cut propagation</li> <li>• Constant coefficient of friction</li> <li>• No glazing out</li> <li>• Thickest rubber cover in its belt class</li> </ul>	<ul style="list-style-type: none"> <li>→ Gentle treatment of goods</li> <li>→ Good and precise acceleration of cardboard</li> <li>→ No marking</li> <li>→ High and constant grip over lifetime</li> <li>→ Precise folding process</li> <li>→ Long belt life</li> </ul>
	<ul style="list-style-type: none"> <li>• Stable modulus of elasticity after running-in</li> </ul>	<ul style="list-style-type: none"> <li>→ Dimensional stability</li> <li>→ No re-tensioning</li> <li>→ No downtimes</li> </ul>
	<ul style="list-style-type: none"> <li>• Excellent reverse bending properties</li> <li>• Optimized traction layer combining flexibility and robustness</li> <li>• Uniform longitudinal flexibility due to adhesive-free joining system</li> <li>• Excellent aging properties</li> </ul>	<ul style="list-style-type: none"> <li>→ Outstanding properties against flex-fatigue</li> <li>→ Good belt tracking</li> <li>→ Less machine downtimes</li> <li>→ Low maintenance cost</li> <li>→ Long belt life</li> <li>→ Longer shelf life</li> </ul>

\*Habidur® = Trademark of Habasit AG

	Features	Benefits
	<ul style="list-style-type: none"> <li>• Low sensitivity to humidity due to traction layer made of PET-fabric and thermoplastic foil</li> </ul>	<ul style="list-style-type: none"> <li>→ High dimensional stability</li> <li>→ No re-tensioning</li> <li>→ No downtimes</li> </ul>
	<ul style="list-style-type: none"> <li>• Permanently antistatic</li> </ul>	<ul style="list-style-type: none"> <li>→ Less dust and dirt attraction</li> <li>→ Process reliability</li> <li>→ Low maintenance cost</li> </ul>

## Wear and tear test, cut propagation



### Test parameters, lab test (cut propagation)

At the beginning of the test all samples were cut manually on both surfaces.

	Competitor	Habasit	Habasit
<b>Thickness [mm]</b>	<b>5.5</b>	<b>5</b>	<b>6</b>
Pulley diameter [mm]	48	40	48
Belt speed [m/sec.]	10	10	10
Shaft load [N]	112	112	112

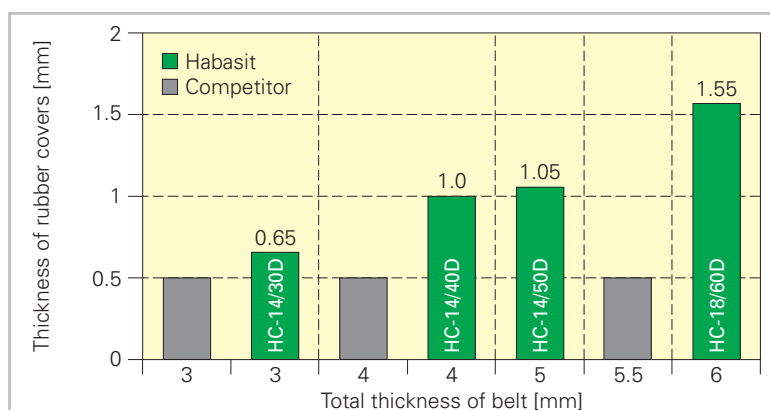
\* Test stopped after lifetime limit of 100% was exceeded. Belt still in good condition.

## Field test results

- Belts tested at sites of leading customers in Europe
- Expected service life fulfilled or exceeded
- No belt cracks, no rubber cracks, no joining failures detected
- Constant and high grip over lifetime assures precise transportation properties, faster acceleration of machine and better machine performance / output.

## Thickness of rubber covers

- 30–210% thicker rubber covers than competition
- Customers can benefit of outstanding belt life and durability



### Habasit products offer thickest rubber covers in their class

Thickness of belt		Thickness of rubber covers
3 mm	Competitor	0.5 mm
3 mm	Habasit	0.65 mm
4 mm	Competitor	0.5 mm
4 mm	Habasit	1.0 mm
5 mm	Habasit	1.05 mm
5.5 mm	Competitor	0.5 mm
6 mm	Habasit	1.55 mm

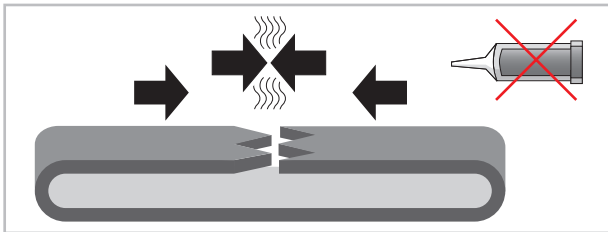
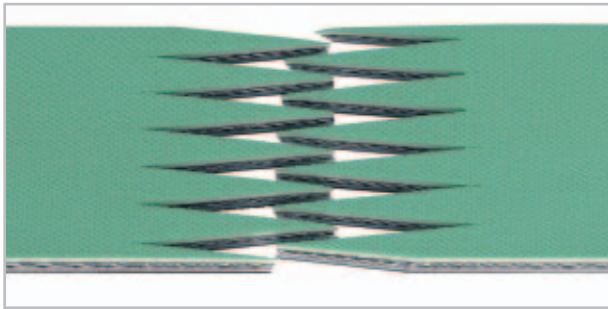
## Technical key data of Habidur® polyester folder-gluer belts

Belt application		Habidur® Polyester folder-gluer belts			
		HC-14/30D	HC-14/40D	HC-14/50D	HC-18/60D
Corrugated cardboard production		•	•	•	•
Folder-gluer machine		•	•	•	•
Tubewinder		•	•	•	•
Paper and cardboard converting, various kinds of applications		•	•	•	•
Cardboard conveying		•	•	•	•
<b>Product construction / design</b>					
Conveying side (Material)		Habidur (Rubber)	Habidur (Rubber)	Habidur (Rubber)	Habidur (Rubber)
Conveying side (Surface)		Rough textile structure	Rough textile structure	Rough textile structure	Rough textile structure
Conveying side (Property)		Adhesive	Adhesive	Adhesive	Adhesive
Conveying side (Color)		Green	Green	Green	Green
Traction layer (Material)		PET	PET	PET	PET
Number of fabrics		1	1	1	1
Running side / pulley side (Material)		Habidur (Rubber)	Habidur (Rubber)	Habidur (Rubber)	Habidur (Rubber)
Running side / pulley side (Surface)		Rough structure	Rough structure	Rough structure	Rough structure
Running side / pulley side (Property)		Adhesive	Adhesive	Adhesive	Adhesive
Running side / pulley side (Color)		Dark green	Dark green	Dark green	Dark green
<b>Product characteristics</b>					
Slider bed suitable		No	No	No	No
Carrying roller suitable		Yes	Yes	Yes	Yes
Permanently antistatic		Yes	Yes	Yes	Yes
<b>Technical key data</b>					
Thickness	[mm]	3	4	5	6
	[in.]	0.12	0.16	0.2	0.24
Pulley diameter (minimum)	[mm]	30	40	50	60
	[in.]	1.2	1.6	2	2.4
Pulley diameter minimum with counterflektion	[mm]	30	40	50	60
	[in.]	1.2	1.6	2	2.4
Tensile force for 1% elongation (k1% after running-in) per unit of width (Habasit standard 320.013)	[N/mm]	9.5	9.5	9.5	17
	[lbs./in.]	54	54	54	97
Operating temperature, admissible (continuous)	[°C]	-20 / 65	-20 / 65	-20 / 65	-20 / 65
	[°F]	-4 / 149	-4 / 149	-4 / 149	-4 / 149
Coefficient of friction on driving pulley of steel	[-]	0.7	0.7	0.7	0.7
Seamless manufacturing width	[mm]	1200	1200	1200	1200
	[in.]	47	47	47	47
<b>Joining system</b>					
Flexproof		•	•	•	•

### Remarks:

This application/belt matrix does not apply to be complete and shall serve as indication of potential solutions. For detailed material and belt selections please contact your local Habasit partner.

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



## Fabrication / joining method

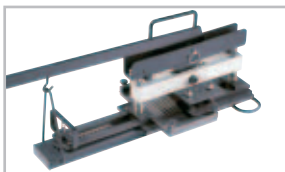
HC-belt types can be joined with the adhesive-free Flexproof method.

### The Flexproof joining method stands for:

- Simple handling steps
- Fast execution / joining

The Flexproof joining benefits are:

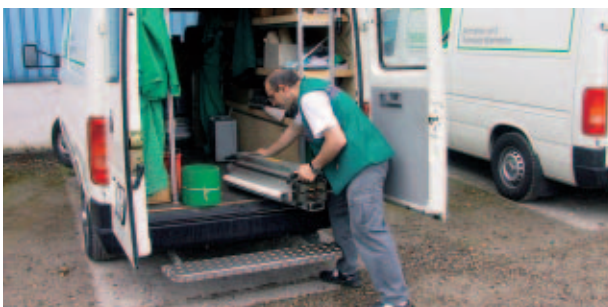
- Easy handling
- Adhesive-free joint = high belt flexibility
- Minimum equipment needed
- Short machine downtimes



## Tools, fabrication tools and auxiliaries

Offering superior fabrication capabilities is a key element of Habasit's service concept. Fabrication can take place either in the facilities of the belt supplier or on-site at the end user. The joining itself can either be made by the customer or by Habasit's on-site-service.

These two approaches need different philosophies. Habasit has solutions for both cases: A well adapted range of joining tools / systems and an extensive service network.



## Installing services

### Tools for on-site fabrication

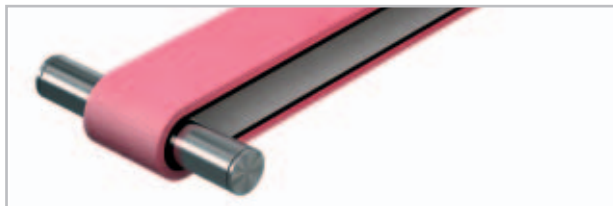
Because we understand your processes, we can support you with cost-effective high quality tools that keep your equipment up and running. In case of emergency, our tools will help to minimize downtime and support efficiently the joining process. Habasit offers zig-zag cutting devices to prepare polyester folder-gluer and power transmission belts. A selection of hot pressing devices to fit your applications and to guarantee optimum quality complement the tool package.

### On-site installation service

In cases where having the tools ready on-site is not economical, you can be sure to have a Habasit affiliate or service partner nearby who can offer and bring in the necessary equipment for the required fabrication and installing service.

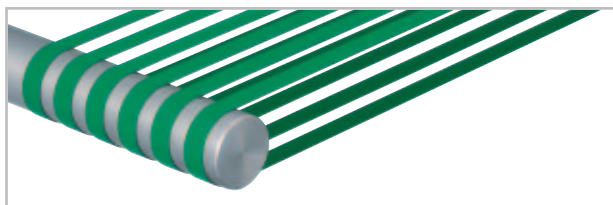
# Further Habasit belting solutions

Habasit provides a comprehensive product range and offers solutions with outstanding customer benefits for your folder-gluer machines and a wide scope of other applications.



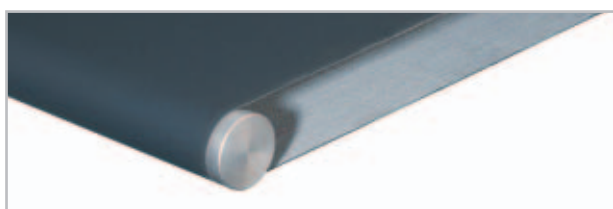
## For the feeder section: **Grabber® feeder belts**

Rubber coated seamless belts with their numerous substrates and tailor-made durable covers ensure excellent performance and a reliable feeding process.



## For the folder section: **Polyamide and polyester belts**

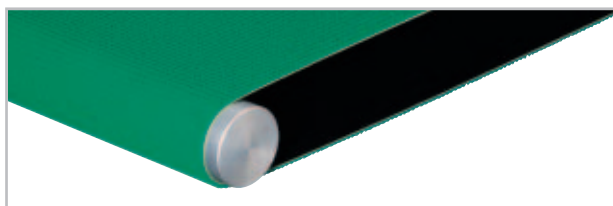
A comprehensive range of polyamide and polyester folder-gluer belts provides best in-class solutions for all customer requirements.



## Conveyor belts for the delivery section

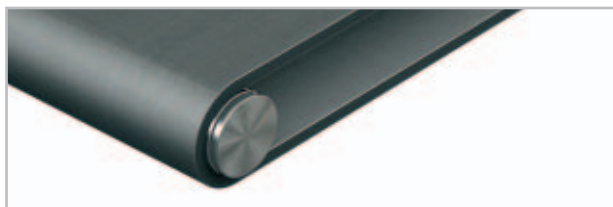
### **PVC coated conveyor belts**

The PVC range of different combinations of surface characteristics, structures, traction layers, and classes of strength ensures an excellent performance, is highly reliable and an economic solution for all transportation requirements.



### **TPU coated conveyor belts**

A comprehensive range of conveyor belts with different surface materials, structures and strength classes. Extremely reliable, optimized levels of grip and a long service life.



### **Nonwoven conveyor belts**

They are particularly suitable for applications in corrugated cardboard manufacturing where such belts are used as bridge elevator and bridge transfer belts. Nonwoven conveyor belts are also perfectly suitable for many conveying applications, e.g. on stackers.



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Printed in Switzerland

Publication data:  
4106FLY.FGB-en0805HQR