Nonwoven materials are used in a wide range of industries, including medical care, filtering, construction, and automotive.

In many production lines for nonwoven materials, the crosslapper is key not only to the design of the typical 90° shape of the production line, but also to its productivity and the quality of the nonwoven product.

Habasit’s crosslapper belt design is optimized for high production speeds and dynamic loads, thus, enabling our customers to improve the reliability, quality and productivity of their equipment and processes in line with Habasit’s mission.

Our crosslapper belts combine a low belt weight, high flexibility in the running direction, a good lateral stiffness, and a wear resistant belt surface, delivering optimal production performance with a long service life.

The belt’s excellent electrical conductive properties prevent fibers from sticking to the belt due to static charges.

Habasit’s extensive service network, with a strong presence in all the major international markets, is ready to support wherever you are located around the world.
## Performance summary

### Key features

<table>
<thead>
<tr>
<th>Key features</th>
<th>Your benefits</th>
</tr>
</thead>
</table>
| High-grade TPU combined with a chemical-resistant polymer surface coating | No brittling, ageing, or micro cracking of the belt surface  
No hooking of fibers on the belt surface  
Long belt service life |
| Highly electrically conductive properties | No accumulation of fibers due to static charges  
Safe belt condition even at high belt speeds |
| Low belt weight  
Good longitudinal flexibility  
High lateral stiffness | Optimized for high belt speeds and dynamic running conditions  
Less tensioning required  
Reduced operating costs |
| Homogenous Flexproof (finger) joining | Non-marking belt joint  
Strong and reliable belt joint  
Joining area as flexible as the rest of the belt |
| Excellent release properties | Suitable for all man-made fibers  
No sticking of fibers to the belt surface |
## Technical Key Data

<table>
<thead>
<tr>
<th>Product Code</th>
<th>ENB-6EE</th>
<th>ENT-6EE</th>
<th>ENB-9EE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross-section</td>
<td><img src="image1.png" alt="Cross-section" /></td>
<td><img src="image2.png" alt="Cross-section" /></td>
<td><img src="image3.png" alt="Cross-section" /></td>
</tr>
<tr>
<td>Surface Structure</td>
<td>Smooth (matt)</td>
<td>Impregnated fabric</td>
<td>Smooth (matt)</td>
</tr>
<tr>
<td>Surface Material</td>
<td>PUR cross-linked</td>
<td>PUR cross-linked</td>
<td>PUR cross-linked</td>
</tr>
<tr>
<td>Belt Thickness [mm]</td>
<td>1.0</td>
<td>0.8</td>
<td>1.2</td>
</tr>
<tr>
<td>Belt Weight [kg/m²]</td>
<td>1.0</td>
<td>0.7</td>
<td>1.3</td>
</tr>
<tr>
<td>Tensile Force for 1% Elongation (relaxed) [N/mm]</td>
<td>4.0</td>
<td>4.0</td>
<td>6.0</td>
</tr>
<tr>
<td>Seamless Production Width [mm]</td>
<td>4000</td>
<td>4000</td>
<td>4000</td>
</tr>
<tr>
<td>Minimum Pulley Diameter with Counter Flection [mm]</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>
| Specific Properties | • Well-proven on many demanding applications  
• Smooth/matt surface and non-marking joint  
• Optimal for fast-running crosslappers | • Light-weight belt with structured top surface  
• Optimal for fast-running crosslappers | • High strength in transversal direction  
• Suitable for single driven applications and robust application conditions |
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 levels 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. We now also provide the free online tool ‘SeleCalc’ that makes it easy to make selections and calculations yourself. Simply register online at 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. These include 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 customer 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.