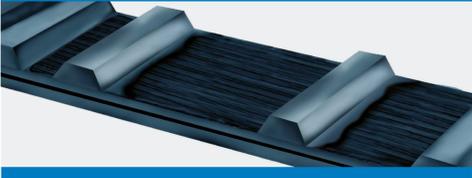
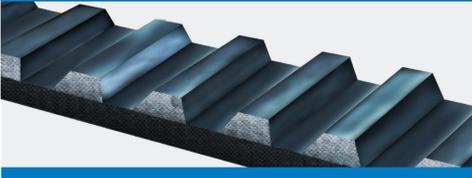
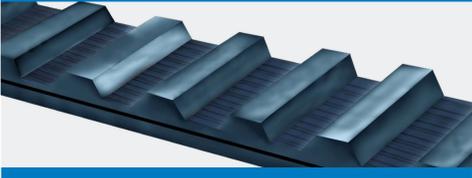




**Service and repair tips:  
Timing belts**

Damage pattern	Cause	Solution	🔄
<p>Ruptured belt</p> 	<ul style="list-style-type: none"> <li>■ Particles in main drive</li> <li>■ Too high timing belt tension</li> <li>■ Creasing/crimping of belt before or during installation</li> </ul>	<ul style="list-style-type: none"> <li>■ Remove particles, check timing belt cover and install it correctly</li> <li>■ Ensure proper installation and correct tension adjustment</li> <li>■ Ensure proper belt handling</li> </ul>	🔄
<p>Tooth wear</p> 	<ul style="list-style-type: none"> <li>■ Too low/high timing belt tension</li> <li>■ Particles in main drive</li> <li>■ Worn-out or damaged timing belt pulley</li> <li>■ Seized timing belt pulley, tensioner or idler pulley</li> </ul>	<ul style="list-style-type: none"> <li>■ Ensure proper installation and correct tension adjustment</li> <li>■ Remove particles, check timing belt cover and install it correctly</li> <li>■ Replace worn-out/damaged timing belt pulley</li> <li>■ Check seized pulleys and bearings and replace if necessary</li> </ul>	🔄
<p>Tooth loss</p> 	<ul style="list-style-type: none"> <li>■ Contamination by engine fluids, for example oil, anti-freeze, brake fluid</li> <li>■ Too low timing belt tension</li> </ul>	<ul style="list-style-type: none"> <li>■ Repair fluid leaks, for example engine leak</li> <li>■ Ensure proper installation and correct tension adjustment</li> </ul>	🔄
<p>Edge wear</p> 	<ul style="list-style-type: none"> <li>■ Alignment error</li> <li>■ Damages on flanks of the pulley</li> <li>■ Improper installation of timing belt cover</li> </ul>	<ul style="list-style-type: none"> <li>■ Replace or adjust non-aligning components</li> <li>■ Replace damaged pulleys</li> <li>■ Check timing belt cover and install it correctly</li> </ul>	🔄
<p>Worn-out fabric</p> 	<ul style="list-style-type: none"> <li>■ Too high timing belt tension</li> <li>■ Worn-out or damaged timing belt pulley</li> <li>■ Overheating of the timing belt material</li> </ul>	<ul style="list-style-type: none"> <li>■ Ensure proper installation and correct tension adjustment</li> <li>■ Replace worn-out/damaged timing belt pulley</li> <li>■ Check timing belt environment regarding heat sources</li> </ul>	🔄
<p>Wear marks on surface</p> 	<ul style="list-style-type: none"> <li>■ Particles in main drive</li> <li>■ Pulleys surfaces were damaged during installation process</li> </ul>	<ul style="list-style-type: none"> <li>■ Remove particles, check timing belt cover and install it correctly</li> <li>■ Replace damaged pulleys</li> </ul>	🔄
<p>Backside cracks</p> 	<ul style="list-style-type: none"> <li>■ Overheating of the timing belt material</li> <li>■ Tensioner or idler pulley worn out or stiff</li> <li>■ Exceeding the service interval</li> </ul>	<ul style="list-style-type: none"> <li>■ Check timing belt environment regarding heat sources</li> <li>■ Check pulleys and replace if necessary</li> <li>■ Replace timing belt</li> </ul>	🔄