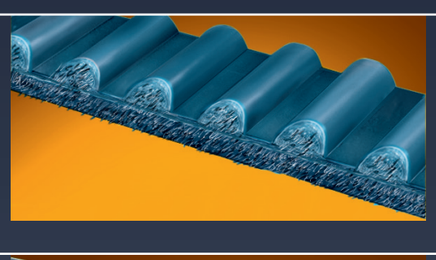
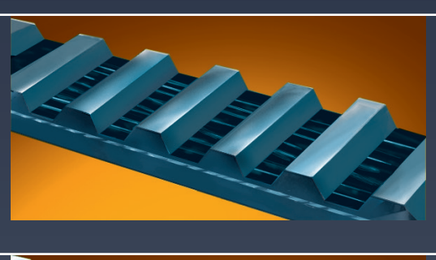
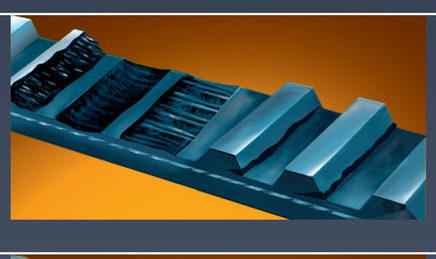
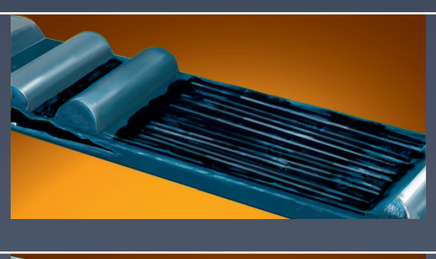
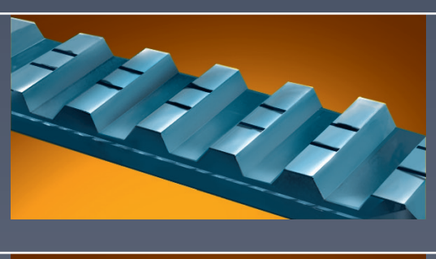
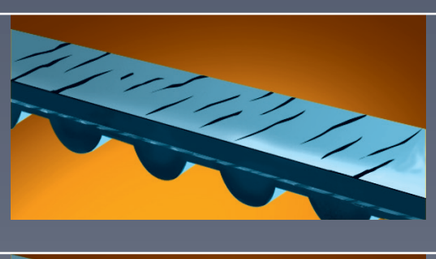
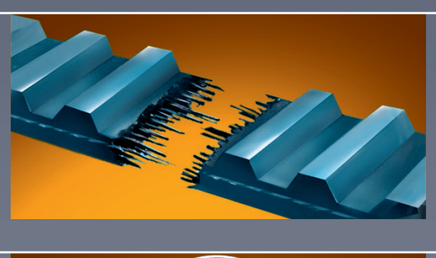
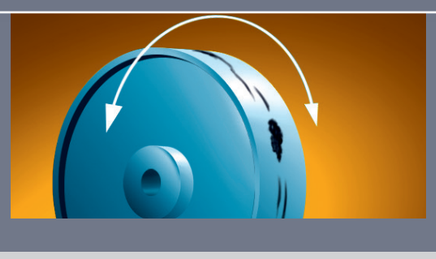
Problem – Diagnosis – Solution

Timing belts

Problem and cause		Solution
Timing belts		
Running noises from belt ① Tension too high: Belt whines, whistles ② Tension too low: Belt knocks against covering		① ② **Adjust tension properly**
Edge wear ① Belt not parallel to axis: Belt runs against flanged pulley ② Wheels axially off-centre: Timing belt cannot be properly aligned ③ Flanged pulley has flaws ④ Bearing play in components		① ② **Check drive, line up or, if necessary, replace any non-aligned pulleys, change the belt** ③ ④ **Replace idler/tensioning pulleys, change the belt**
Fabric wear in the tooth root ① Belt excessively tensioned ② Belt is overheating ③ Timing belt pulley is worn out		① **Change the belt, adjust tension correctly** ② **Find out cause (e.g. check cold performance), take corrective action, change the belt** ③ **Replace timing belt pulley, change the belt**
Unacceptable wear of tooth flanks/ base separating and tooth shearing ① Tension too high/too low ② Trapped foreign matter ③ Jammed timing belt pulley or tensioning pulley		① **Change the belt, adjust tension properly** ② **Remove foreign matter, check covering is seated properly, change the belt** ③ **Find out cause (e.g. defective bearing), take corrective action, change the belt**
Teeth and fabric separating from belt body ① Leaks in the engine or engine compartment (e.g. escape of oil, antifreeze etc.)		① **Repair leak(s), change the belt**
Running marks on teeth side ① Foreign matter in timing belt drive ② Flaws in teeth of timing belt pulley caused by foreign matter or tools during fitting ③ Timing belt damaged before/during fitting		① **Remove foreign matter, change the belt, check the cover is seated properly** ② **Replace timing belt pulley, change the belt, ensuring it is properly fitted** ③ **Change the belt, ensuring it is properly fitted**
Cracks on back of timing belt ① Ambient temperature too high/low ② Contact with foreign media ③ Back idler pulley sluggish ④ Ageing		① **Find out cause (e.g. check cold performance), take corrective action, change the belt** ② **Change the belt, check the covering is seated properly** ③ **Replace pulley, change the belt** ④ **Change the belt**
Timing belt snaps ① Foreign matter in the drive ② Contact with foreign media ③ Excessive tensioning ④ Belt was crimped before/during fitting		① **Remove foreign matter/media, change the belt** ② **Change the belt, check the covering is seated properly** ③ **Change the belt, adjust tension properly** ④ **Change the belt and fit it correctly**
Defective system components ① Bearing play ② Damaged running surface		① ② **Replace the idler, tensioning and/or guide pulley**

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