
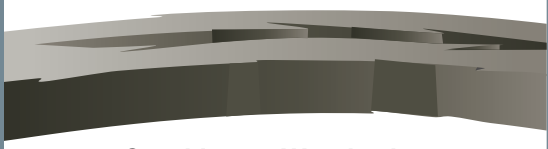
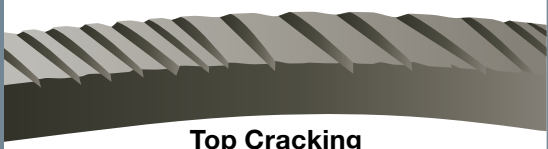
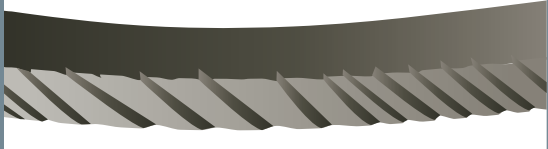



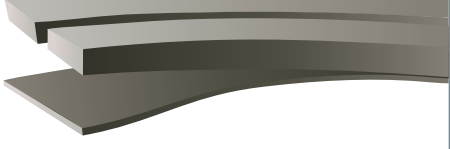


Belt Failure Analysis


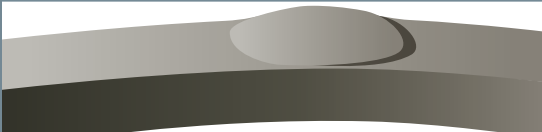
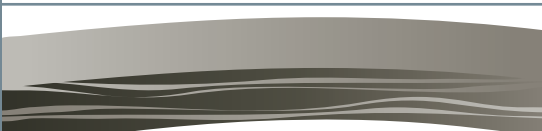
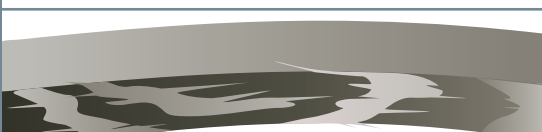
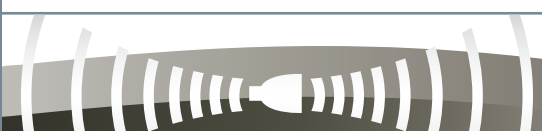



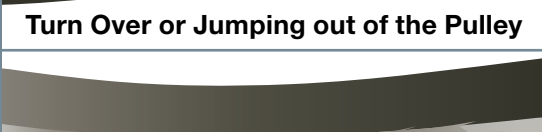
Symptom	Possible Cause(s)	Possible Solution(s)
 <p>Broken Belt</p>	<ul style="list-style-type: none"> • Pried onto pulleys • Extreme shock load • Foreign object damage 	<ul style="list-style-type: none"> • Ensure proper installation • Confirm you have the proper belt • Shield drive if possible
 <p>Cracking or Weathering</p>	<ul style="list-style-type: none"> • Exposure to sun and heat 	<ul style="list-style-type: none"> • Replace belts • Shield drive if possible
 <p>Top Cracking</p>	<ul style="list-style-type: none"> • Incorrect backside idler • Pulleys too small • Excessive temperature • Wrong belt for drive 	<ul style="list-style-type: none"> • Replace idler and/or pulleys based on the manufacturer's recommendation • Protect drive from the environment • Confirm you have the proper belt
 <p>Underside Cracking</p>	<ul style="list-style-type: none"> • Excessive heat • Sheaves too small • Undersized backside idler • Improperly positioned backside idler • Sheaves misaligned • Improper or prolonged storage 	<ul style="list-style-type: none"> • Replace idler and/or pulleys based on the manufacturer's recommendation • Protect drive from the environment • Confirm you have the proper belt
 <p>Cuts or Gouges</p>	<ul style="list-style-type: none"> • Contact with an obstruction • Pried onto pulleys 	<ul style="list-style-type: none"> • Remove obstruction • Ensure proper installation • Confirm you have the proper belt
 <p>Edge Cord Failure</p>	<ul style="list-style-type: none"> • Misaligned pulleys • Damaged tensile members • Worn or incorrect pulleys 	<ul style="list-style-type: none"> • Check alignment • Ensure proper installation • Verify belt and pulleys are compatible • Replace pulleys
 <p>Excessive Vibration</p>	<ul style="list-style-type: none"> • Improper tension • Damaged or broken power transmission cords 	<ul style="list-style-type: none"> • Properly tension • Replace belts • Ensure proper installation
 <p>Joined Belt Band Separation</p>	<ul style="list-style-type: none"> • Improper groove spacing • Worn or incorrect pulleys • Misaligned pulleys 	<ul style="list-style-type: none"> • Verify belt and pulleys are compatible • Replace pulleys if necessary • Realign drive

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Belt Failure Analysis

Symptom	Possible Cause(s)	Possible Solution(s)
 <p>Localized Wear, Sidewall Burn</p>	<ul style="list-style-type: none"> • Stalled pulleys • Under tensioned • Plugged drive 	<ul style="list-style-type: none"> • Ensure pulleys move freely • Properly lubricate pulleys • Ensure proper tension
 <p>Loose Cover or Swelling</p>	<ul style="list-style-type: none"> • Excessive oil in contact with the belt 	<ul style="list-style-type: none"> • Properly lubricate • Clean pulleys and belt • Replace belt after issue is resolved
 <p>Ply Separation, Side Splitting</p>	<ul style="list-style-type: none"> • Over tensioned • Foreign object • Worn or incorrect pulleys 	<ul style="list-style-type: none"> • Ensure proper tension • Inspect pulleys • Replace pulleys if necessary
 <p>Sidewall Wear</p>	<ul style="list-style-type: none"> • Slippage • Excessive dust 	<ul style="list-style-type: none"> • Ensure proper tension • Provide protection if possible • Realign drive
 <p>Squeal</p>	<ul style="list-style-type: none"> • Insufficient tension • Shock load 	<ul style="list-style-type: none"> • Ensure proper tension • Confirm you have the proper belt
 <p>Stretch</p>	<ul style="list-style-type: none"> • Wrong belt for drive • Mixing old and new belts • Mixing different manufacturers belts • Misalignment • Belt and pulleys incompatible 	<ul style="list-style-type: none"> • Confirm you have the proper belt • Replace belt sets at same time • Use same belts when replacing sets • Realign drive • Verify belt and pulleys are compatible
 <p>Top Wear</p>	<ul style="list-style-type: none"> • Rubbing against guard • Damaged idler 	<ul style="list-style-type: none"> • Repair and/or replace guard • Replace idler
 <p>Turn Over or Jumping out of the Pulley</p>	<ul style="list-style-type: none"> • Drive misalignment • Worn pulleys • Excessive vibration • Shock load 	<ul style="list-style-type: none"> • Realign drive • Replace pulleys if necessary • Ensure proper tension
 <p>Bottom Side Wearing</p>	<ul style="list-style-type: none"> • Belt bottoming out in pulley • Belt and pulley are not compatible • Debris in pulleys • Worn pulleys 	<ul style="list-style-type: none"> • Ensure you have correct pulley for the belt being used • Clean pulleys • Replace belt and/or pulleys

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