

# TROUBLE SHOOTING GUIDE: V-BELTS

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Symptom	Probable Cause	Corrective Action
<b>1</b> Cracking	(1) Sheaves too small for belt section. (2) Belt slip. (3) Backside idler diameter too small. (4) Improper belt storage. (5) Excessive hot or cold temperature.	(1) Use larger diameter sheaves. (2) Retension to manufacturer's recommendations. (3) Increase backside idler to acceptable diameter. (4) Don't coil belt too tightly, kink or bend. Avoid heat and direct sunlight. (5) Control drive environment.
<b>2</b> Wear on Sidewalls	(1) Belt slip. (2) Sheave misalignment. (3) Worn sheaves. (4) Incorrect belt.	(1) Retension to manufacturer's recommendations. (2) Realign drive. (3) Replace sheaves. (4) Replace with correct belt size.
<b>3</b> Edge Cord Failure	(1) Sheave misalignment. (2) Damaged tensile member. (3) Worn or incorrect sheaves.	(1) Check alignment and correct. (2) Follow correct installation procedure. (3) Replace sheaves for correct belt/sheave match.
<b>4</b> Wear on Top Corner	(1) Belt-to-sheave fit incorrect. (2) Belt rubbing against guard or drive structure.	(1) Use correct belt/sheave match. (2) Remove obstruction.
<b>5</b> Surface Flaking, Sticky or Swollen	(1) Oil or chemical contamination.	(1) Do NOT use belt dressing; eliminate sources of oil, grease, or chemical contamination.
<b>6</b> Wear on Top Surface	(1) Belt rubbing against guard. (2) Damaged idler.	(1) Repair or replace guard. (2) Repair or replace idler.
<b>7</b> Surface Hard or Stiff	(1) Hot drive environment. (2) Belt slip.	(1) Improve ventilation to drive. (2) Retension to manufacturer's recommendations.
<b>8</b> Unusual Vibration	(1) Incorrect belt. (2) Poor equipment structural design. (3) Excessive sheave eccentricity. (4) Loose drive components.	(1) Use correct belt/sheave match. (2) Check structure for adequate strength and rigidity. (3) Replace defective sheave. (4) Check machine components, guards, motor mounts, motor pads, bushings, brackets and framework for adequate strength, stability and installation.
<b>9</b> High Belt Temperature	(1) Hot drive environment. (2) Slipping.	(1) Improve ventilation to drive. (2) Retension until slipping stops.

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<b>10</b> Wear on Bottom Surface	(1) Belt bottoming against sheave groove bottom. (2) Worn sheaves. (3) Debris in sheaves.	(1) Use correct belt/sheave match. (2) Replace sheaves. (3) Clean sheaves.
<b>11</b> Undercord Cracking	(1) Sheaves too small for belt section. (2) Belt slip. (3) Backside idler diameter too small. (4) Excessive hot or cold temperature. (5) Improper belt storage.	(1) Use larger diameter sheaves. (2) Retension to manufacturer's recommendations. (3) Increase backside idler to acceptable diameter. (4) Control drive environment. (5) Don't coil belt too tightly, kink or bend. Avoid heat and direct sunlight.
<b>12</b> Turns Over or Comes Off Drive	(1) Shock loading or vibration. (2) Foreign material in grooves. (3) Sheave misalignment. (4) Worn sheave grooves. (5) Subminimal diameter sheave.	(1) Check drive design; use PowerBand® (joined) belts. (2) Shield grooves and drive. (3) Realign drive. (4) Replace sheaves. (5) Replace sheave with correct diameter.
<b>13</b> Sidewall Burning or Hardening	(1) Belt slip. (2) Worn sheaves. (3) Under-designed drive. (4) Shaft movement.	(1) Retension to manufacturer's recommendations. (2) Replace sheaves. (3) Redesign to manufacturer's recommendations. (4) Check for center distance changes.
<b>14</b> Wear on Bottom Corner	(1) Belt-to-sheave fit incorrect. (2) Worn sheaves.	(1) Use correct belt/sheave match. (2) Replace sheaves.
<b>15</b> Unusually Loud Drive	(1) Incorrect belt for sheaves. (2) Incorrect tension. (3) Worn sheaves. (4) Debris in sheaves. (5) Sheave misalignment.	(1) Use correct belt size and type. (2) Check belt tension and adjust. (3) Replace sheaves. (4) Clean sheaves; improve shielding; remove rust, paint; or remove dirt from grooves. (5) Realign drive.
<b>16</b> Top of Tie Band Damaged	(1) Interference with guard. (2) Backside idler malfunction. (3) Debris in sheaves.	(1) Check and adjust guard. (2) Replace or repair backside idler. (3) Clean sheaves.
<b>17</b> Tie Band Separation	(1) Improper groove spacing. (2) Worn or incorrect sheaves. (3) Sheave misalignment.	(1) Use sheaves manufactured to industry specifications. (2) Replace sheaves. (3) Realign drive.
<b>18</b> Broken Belt	(1) Under-designed drive. (2) Belt rolled or pried onto sheave. (3) Object falling into drive. (4) Severe shock load.	(1) Redesign to manufacturers recommendations. (2) Use drive center distance adjustment when installing. (3) Provide adequate guard or drive protection. (4) Redesign to accommodate shock load.