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V-Belt Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	SOLUTIONS
Belts slip (sidewalls glazed)	Not enough tension.	Replace belts. Apply proper tension.
Drive squeals	Shock load.	Apply proper tension.
	Not enough arc of contact.	Increase center distance.
	Heavy starting load.	Increase belt tension.
Belts(s) turned over	Broken cord caused by prying on sheave.	Replace set of belts and install correctly.
	Overloaded drive.	Redesign drive.
	Impulse loads.	Apply proper tension.
	Misalignment of sheave and shaft.	Re-align drive.
	Worn sheave grooves.	Replace sheaves.
	Excessive belt vibration.	Check drive design. Check equipment for solid mounting. Consider use of banded belts.
Mismatched belts	New belts installed with old belts.	Replace belts in matched sets only.
Breakage of belt(s)	Shock loads.	Apply proper tension. Recheck drive.
	Heavy starting loads.	Apply proper tension. Recheck drive. Use compensator starting.
	Belt pried over sheaves.	Replace set of belts correctly.
	Foreign objects in drives.	Provide drive guard.
Rapid belt wear	Sheave grooves worn.	Replace sheaves.
	Sheave diameter too small.	Redesign drive.
	Mismatched belts.	Replace with matched belts.
	Drive overloaded.	Redesign drive.
	Belt slips.	Increase tension.
	Sheaves misaligned.	Align sheaves.
	Oil or heat condition.	Eliminate oil. Ventilate drive.

