



E. James & Company V-Belt Guide

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SYMPTOMS	TG1	TG2	TG3	TG4	TG5	TG6	TG7	TG8	TG9	TG10	TG11	TG12	TG13	TG14	TG15	TG16	TG17	TG18	TG19	TG20	TG21	TG22	TG23	TG24	TG25
Rapid sidewall wear		X	X	*			X				X			X	X	X	X	X		X					
Worn cover on back		*																							X
Belt turns over or jumps off sheave	X						X				X		*						X						
Belt soft, swollen																*	X								
Belt slips, squeals (spin burn)				*			*				X					X				X	X			X	
Belt cover split	*																		X						
Underside cracked				X											X	*							*		*
Tie-band damaged		X	X	*															*						
Repeated breakage	X							X					X						X		*				
Belts ride too high											*						X								
Belts bottoming				*						X	X														
Repeated take-up necessary				X			X				X										*				
Belts vibrate excessively or appear mismatched			X	X			X	X				X	*									X			
Bearings are hot				X	X	X		*								X						X	X		
Shafts whip or bend				X	X	X		*														X	X		
Cracked bushing				X					*																
Sheave wobbles				X		X			*																

*** - Indicated most common causes**

X - Indicates other possible causes

Index of Causes

- TG1: Belts pried on or misplaced slack
- TG2: Belts rubbing guard
- TG3: Sheaves misaligned
- TG4: Worn or damaged sheaves
- TG5: Sheaves too far from bearing
- TG6: Poor bearing or shaft condition
- TG7: Insufficient tension
- TG8: Excessive tension
- TG9: Improper sheave installation
- TG10: Belts worn (Normal service life)
- TG11: Worn belt cross-section or type
- TG12: Mismatched belts or mixed brands
- TG13: Machine-induced impulse or shock
- TG14: Improper or prolonged storage
- TG15: Excessive heat
- TG16: Excessive oil or grease
- TG17: Use of belt dressing
- TG18: Abrasive environment
- TG19: Foreign objects in grooves
- TG20: Excessive moisture
- TG21: Overload drive-under belting
- TG22: Drive seriously over belted
- TG23: Sheaves too small
- TG24: Insufficient wrap on small sheave
- TG25: Backside idler