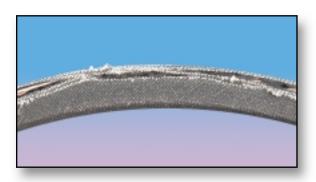


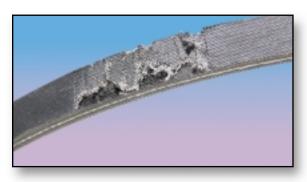
Listed here are some of the more common V-Belt symptoms and causes of belt failure. This is intended to help you troubleshoot so you can address the problem and correct it.

For more information on proper V-Belt maintenance, request Carlisle publication 102163 from your local Carlisle distributor.

SYMPTOMS



Rapid Sidewall Wear



Worn Cover on Back

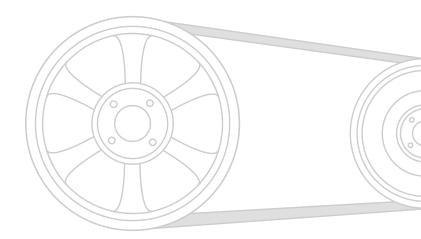
CAUSES

* Worn or Damaged Sheaves

- Belts Rubbing Guard
- Sheaves Misaligned
- Insufficient Tension
- Wrong Belt Cross-Section or Type
- Improper or Prolonged Storage
- Excessive Heat
- Excessive Oil or Grease
- Use of Belt Dressing
- Abrasive Environment
- Excessive Moisture
- Inappropriate Sheave Material
- Improper Tensioned Idler

* Belts Pried On or Misplaced Slack

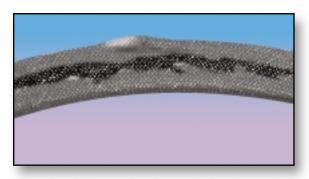
• Defective or Worn Backside Idler



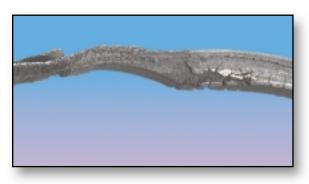
^{*} Indicates most common causes



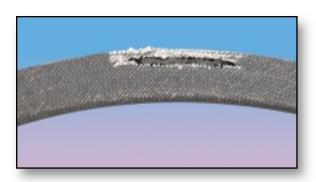
SYMPTOMS



Belt Soft, Swollen



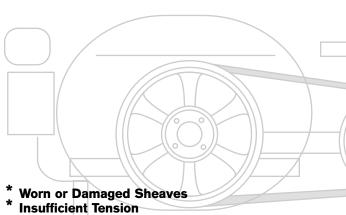
Belt Slips, Squeals (Spin Burn)



Belt Cover Split

CAUSES

- * Excessive Exposure to Oil or Grease
- Use of Belt Dressing



- Wrong Belt Cross-Section or Type
- Excessive Oil or Grease
- Excessive Moisture
- Overload Drive-Underbelting
- Insufficient Wrap on Small Sheave
- * Belts Pried On or Misplaced Slack
- Foreign Objects In Grooves

^{*} Indicates most common causes

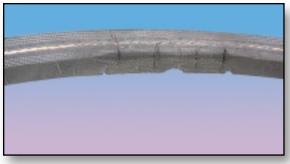


SYMPTOMS

CAUSES

* Undersized Backside Idler
* Improperly Positioned Backside Idler

• Improper Or Prolonged Storage



Underside Cracked



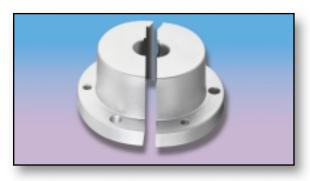
* Excessive Heat * Sheaves Too Small

• Sheaves Misaligned

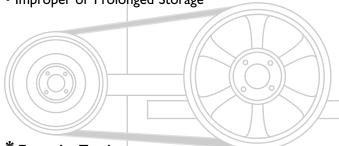
- * Excessive Heat * Sheaves Too Small
- Sheaves Misaligned
- Improper or Prolonged Storage



Missing Cogs



Cracked Bushings



- * Excessive Tension
- Worn or Damaged Sheaves
- Prying open The Split With a Screwdriver



^{*} Indicates most common causes



Rapid Sidewall Wear		
Worn Cover On Back *		•
Belt Turns Over Or Jumps Off Pulley		
Belt Soft, Swollen * •		
Belt Slips, Squeals (Spin Burn)	•	•
Belt Cover Split		
Underside Cracked • *	*	*
Tie-Band Damaged		
Repeated Breakage		
Belts Ride Too High *		
Belts Bottoming * • • • *		
Repeated Take-Up Necessary	•	
Belts Vibrate Excessively Or Appear Mismatched	• •	
Bearings Are Hot	• •	
Shafts Whip Or Bend • • • * *		
Cracked Bushings * *		
Pulley Wobble		

^{*} Indicates Most Common Causes.

[•] Indicates Other Possible Causes.



V-Belt Selection Guide

Dayco Carlisle Brand	Generic Belt Type (Cross-Sections)	Normal HP Range	Maximum Belt Speed (FT/Min) ⁽¹⁾	Normal Temp. F (°F) ⁽²⁾ Min.	Range Max.	Oil/Heat Resistance	Static Dissipating	General Application
Super Blue Ribbon	Classical Multiple (A, B, C, D)	1-500	6000	-35	120	Good	V	General-Purpose Heavy Duty Industrial Drives.
Gold Label Cog-Belt	Classical Cogged Multiple (AX, BX, CX, DX)	1-500	6000	-35	130	Excellent	~	Longer Life, High Efficiency, Small Diameters.
Super Power-Wedge	Narrow Multiple (3V, 5V, 8V)	1-1000	6500	-35	130	Very Good	V	High-Performance, Compact Industrial Drives, Long C.D.
Power-Wedge Cog-Belt	Narrow Cogged Multiple (3VX, 5VX)	1-600	6500	-35	130	Excellent	✓	High-Performance, Compact Industrial Drives, Short C.D.
Super Vee-Band	Classical Banded (RB, RC, RD)	1-500	6000	-35	120	Good	V	Reduces Belt Whip, Turnover on Pulsating, Surge Loads.
Gold Label Cog-Band	Classical Cogged Banded (Premium HP) (RBX, RCX, RDX)	1-500	6000	-35	130	Excellent	V	Longer Life, High Efficiency, Reduces Belt Whip, Turnover on Pulsating, Surge Loads
Wedge-Band	Narrow Banded (R3V, R5V, R8V)	1-1000	6500	-35	130	Very Good	~	Reduces Belt Whip, Turnover on Pulsating, Surge Loads
Double Angle	Double-V Belts (AA, BB, CC, DD)	1-200	5000	-35	120	Good	Special Order	Serpentine Drives
Variable Speed Cog-Belt	Variable Speed (1228V-6136V)	21-100	6000	-35	130	Excellent	~	Wide-Range Variable Sheaves
Poly-Rib	V-Ribbed (J, L, M)	4-500	6000	-35	130	Very Good	Special Order	Small Diameters, High Speed Ratios, Compact
Connector	Open End) (A, B, C, D	1-200	4000	-35	120	Fair	Special Order	Emergency Replacement
Thoro-Twist	Link (Segmented) (O, A, B, C)	1-300	5000 (1000 min.)	-35	130	Excellent	No	Emergency Replacement Fixed Center Distance
Durapower II FHP	FHP (2L, 3L, 4L, 5L)	Light Duty	6000	-35	120	Fair	Special Order	Light Duty Drives Using a Single Belt
XDV	Premium FHP (L3, L4, L5)	Light Duty	6000	-35	130	Very Good	No	Longer Life on FHP Drives, Clutching Lawn/Garden Drives

Notes: (1) Normally limited by sheave materials. (2) Expect little or no life loss due to heat.

(3) Ratings apply to rubber belts only. Available in **chek ☐mate** construction