

# BELT GRADE CARD





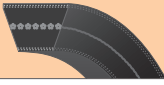
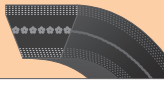






The Right Belt for the Job®



**Your quick reference  
guide to selecting the right  
Timken® belt for any job:**




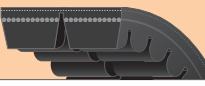

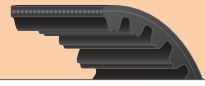





- Aggregates & Mining
- Agriculture
- Energy (Oil & Gas)
- Food & Beverage
- Forest Product Machinery
- HVACR
- Industrial Equipment
- Outdoor Power Equipment
- Refrigerated Transport

# BELT GRADE CARD - The Right Belt for the Job®

DRIVE PARAMETER OR CONDITION	V-BELTS					
	Super Power-Wedge®	Power-Wedge® Cog-Belt®	Super Blue Ribbon®	Gold-Ribbon® Cog-Belt®	Durapower® II	Super II®
(For more precise information, utilize our DriveEngineer.com mobile web app or contact a Timken Belts specialist.)						
	Enables design of a more compact belt drive. Ideal for heavy duty industrial drives with shock loads.	Narrow wedge, raw edge belt provides maximum operating efficiency in a compact drive package.	Wrapped molded v-belts built to the highest standards in the industry. The workhorse of classical v-belts.	The Energy Saver! Reduce downtime and save energy with the benchmark for classical v-belt performance.	Raw edge construction improves efficiency, performance and belt life when compared to wrapped belts.	The Timken Belts solution to the constant and costly problem of replacing ordinary v-belts on troublesome drives.
Available Cross Sections	3V, 5V, 8V	3VX, 5VX, 8VX	A, B, C, D, E	AX, BX, CX, DX	2L-R, 3L-R, 4L-R, 5L-R	A-R, B-R, C-R
General Ratings		<b>EPDM</b>		<b>EPDM</b>	<b>EPDM</b>	<b>EPDM</b>
Normal HP Limit	1000	1000	500	500	500	500
Normal Ambient Temp. Range (°F) Min	-35°	-50°	-35°	-50°	-50°	-50°
Normal Ambient Temp. Range (°F) Max	130°	250°	120°	250°	250°	250°
Maximum Belt Speed (feet/minute)	6500	6500	6500	6500	6500	6500
Space Limitations						
Minimum Face Width	★ ★ ★	★ ★ ★	★	★ ★ ★	★	★
Extremely Long Centers	★ ★	★	★ ★	★	★	★ ★
Extremely Short Centers	★ ★	★ ★ ★	★	★ ★ ★	★ ★ ★	★ ★ ★
Small Sheave Diameters	★	★ ★	★	★ ★ ★	★ ★ ★	★ ★
Overall Compactness	★ ★	★ ★ ★	★	★ ★ ★	★ ★	★ ★
Light Weight Drive	★ ★	★ ★ ★	★	★ ★	★ ★	★ ★
Design Factors						
Backside Idler	★	N/A	★ ★	★	★ ★ ★	★ ★ ★
Energy Efficiency	★ ★	★ ★ ★	★ ★	★ ★ ★	★ ★	★ ★
High Speed Ratio	★ ★	★ ★ ★	★	★ ★ ★	★ ★	★ ★
Minimum Slip	★	★ ★ ★	★	★ ★ ★	★	★ ★
Machine Induced Pulsation	★ ★	★ ★	★ ★ ★	★ ★	★ ★	★ ★ ★
Shock Loads	★ ★ ★	★ ★	★ ★	★	★ ★	★ ★ ★
Small Arc of Contact	★	★ ★ ★	★	★ ★ ★	★ ★	★ ★
Speed-Up Drive	★ ★	★ ★ ★	★ ★	★ ★ ★	★ ★	★ ★
Environmental Conditions						
Chemicals, Ozone (3)	★ ★	★ ★ ★	★ ★	★ ★ ★	★ ★ ★	★ ★ ★
Dust, Abrasives	★ ★	★ ★	★	★ ★ ★	★ ★	★ ★
Excessive Heat	★ ★	★ ★ ★	★	★ ★ ★	★ ★ ★	★ ★ ★
Excessive Moisture	★ ★	★ ★ ★	★	★ ★ ★	★ ★ ★	★ ★ ★
Inaccessible for Maintenance	★	★ ★ ★	★	★ ★ ★	★	★ ★
Lengths Manufactured to ARPM Industry Standard for Matching					No	
Meets ARPM Standard for Static Conductivity (IP-3-3)	Yes	Yes	Yes	Yes	Yes	Yes

Legend: ★ ★ ★ = Excellent   ★ ★ = Satisfactory   ★ = Use only if necessary to meet other conditions    = Manufactured to Chek Mate® matching tolerances

## BELT TYPE AND RATING

BANDED BELTS				SYNCHRONOUS BELTS		
Super Power-Wedge <sup>®</sup> Band	Super Blue Ribbon <sup>®</sup> Band	Power-Wedge <sup>®</sup> Cog-Band <sup>®</sup>	Gold-Ribbon <sup>®</sup> Cog-Band <sup>®</sup>	Panther <sup>®</sup> XT	Panther <sup>®</sup>	Synchro-Cog <sup>®</sup> HT
						
Banded version of Super Power-Wedge v-belt. Belt whip and turnover are minimized.	Banded version of Super Blue Ribbon v-belt. Belt whip and turnover are minimized.	Banded version of Power-Wedge Cog-Belt. Belt whip and turnover are minimized.	Combines the superior characteristics of the Gold-Ribbon Cog-Belt with the stability of a banded belt, minimizing belt whip and turnover.	Alternative to chain or drop-in replacement for polyurethane belts. Formulated for enhanced strength, performance and torque capacity.	Designed to improve performance and drive life while reducing maintenance and downtime. Higher torque capacity than Synchro-Cog HT.	Delivers trouble-free power transmission with a smooth, quiet and efficient drive system.
R3V, R5V, R8V	RB, RC, RD	R3VX, R5VX	RBX, RCX	8M, 14M	8M, 14M, 20M	3M, 5M, 8M, 14M
<b>EPDM</b>		<b>EPDM</b>				
1000	500	1000	500	1000	750	500
-35°	-35°	-50°	-50°	-40°	-35°	-35°
130°	120°	250°	250°	248°	150°	150°
6500	6500	6500	6500	6500	6500	6500
★★★	★	★★★	★★	★★★	★★	★
★★	★★★	★★	★★★	★★	★★	★★
★★	★	★★	★★	★★★	★★★	★★★
★	★	★★	★★★	★★★	★★★	★★★
★★	★	★★★	★	★★★	★★	★
★★★	★	★★★	★★	★★★	★★	★
N/A	★★	★	★	★★★	★★★	★★★
★★	★★	★★★	★★★	★★★	★★★	★★★
★★	★	★★★	★★	★★★	★★★	★★★
★★	★	★★★	★★★	★★★	★★★	★★★
★★★	★★★	★★	★★	★	★	★
★★★	★★	★★	★	★	★	★
★	★	★★★	★★★	★★★	★★★	★★★
★★★	★★	★★★	★★★	★★★	★★★	★★★
★★★	★★	★★★	★★★	★★★	★★★	★★★
★★	★	★★★	★★★	★★	★★	★★
★★	★	★★★	★★★	★★★	★★★	★★★
★★	★	★★	★★★	★★★	★★★	★★★
★★	★	★★★	★★★	★	★	★
				N/A	N/A	N/A
Yes	Yes	Yes	Yes	No	No	No

 = Most belt sizes manufactured to Chek Mate<sup>®</sup> matching tolerances **EPDM** = Ethylene Propylene Diene Monomer construction

# The Right Belt for the Job<sup>®</sup>

You can depend on Timken<sup>®</sup> belts for a wide range of applications. We've got you covered with the right belt for most any job. Timken Belts manufactures belts 3" to 900" for anything and everything – fans, mixers, pumps, conveyors, machine tools, centrifuges, robotics, and all types of industrial machines.

Timken belts are purpose-built and designed for optimal performance in the most demanding applications:

- Aggregates & Mining
- Agriculture
- Energy (Oil & Gas)
- Food & Beverage
- Forest Product Machinery
- HVACR
- Industrial Equipment
- Outdoor Power Equipment
- Refrigerated Transport

The world's leading manufacturers specify Timken belts to keep their equipment running.

## chek mate<sup>®</sup>

### Chek Mate<sup>®</sup> V-Belt Matching

Chek Mate<sup>®</sup> v-belt matching system is a manufacturing process that holds v-belt lengths within ARPM (Association for Rubber Products Manufacturers) tolerances for a matched set. Matching numbers are not required on these Timken v-belts which carry the distinctive Chek Mate logo: Super Blue Ribbon<sup>®</sup>, Super II<sup>®</sup>, Super Power-Wedge<sup>®</sup>, Power-Wedge<sup>®</sup> Cog-Belt<sup>®</sup> and Gold-Ribbon<sup>®</sup> Cog-Belt<sup>®</sup>.

**TIMKEN BELTS**

Timken<sup>®</sup> belts are part of The Timken Company's growing portfolio of engineered bearings and power transmission products. Timken Belts manufactures premium-performance power transmission belts that help keep industry in motion and the world more productive.

[www.timkenbelts.com](http://www.timkenbelts.com)