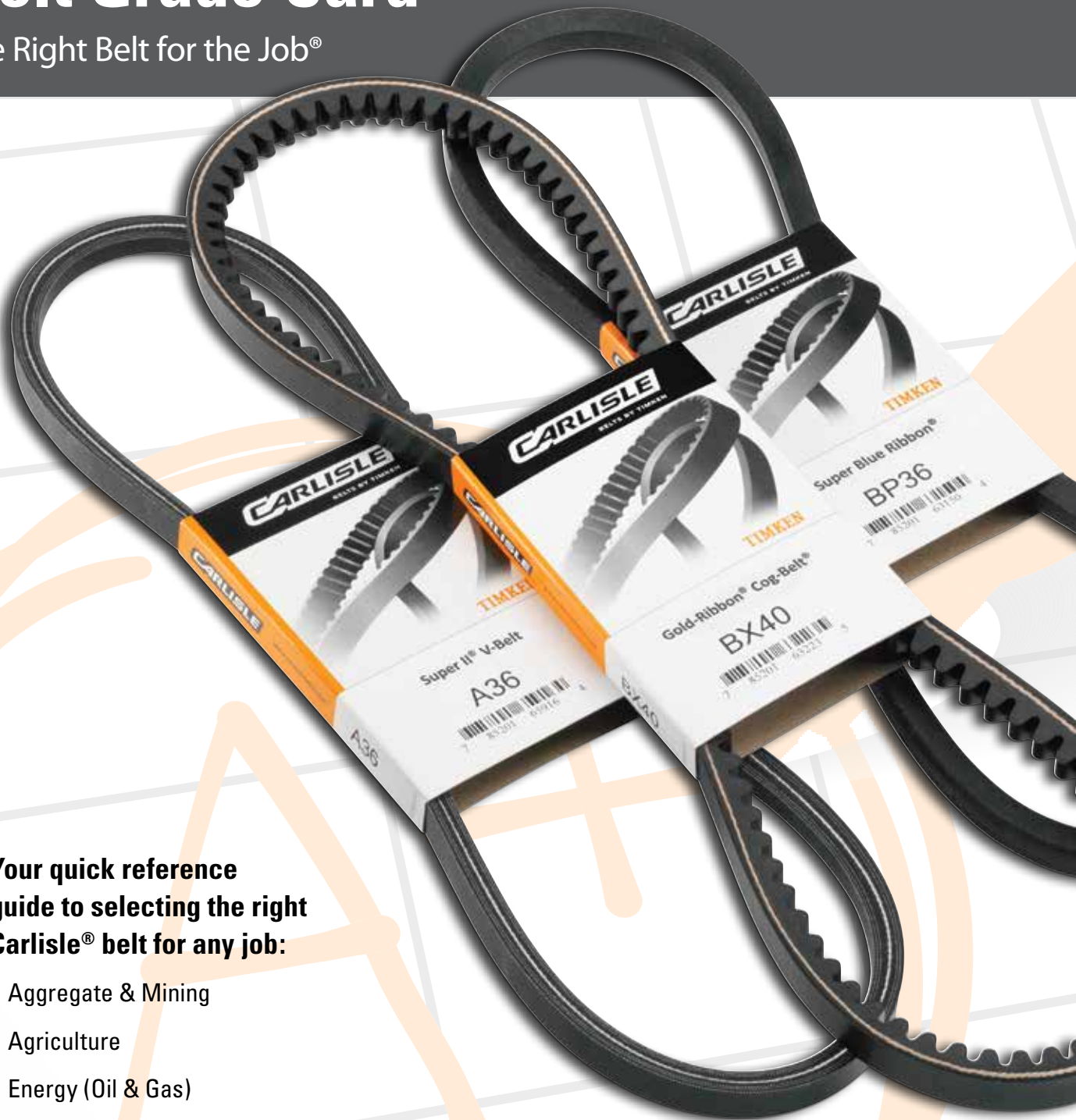


Belt Grade Card

The Right Belt for the Job®






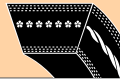
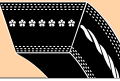







**Your quick reference
guide to selecting the right
Carlisle® belt for any job:**




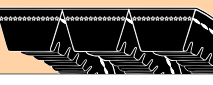
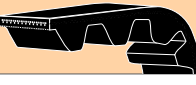
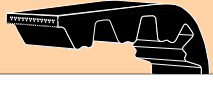
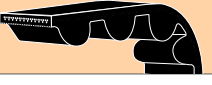




- Aggregate & Mining
- Agriculture
- Energy (Oil & Gas)
- Forestry Industry
- HVACR
- Industrial Equipment
- Outdoor Power Equipment



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 belt specialist). 						
	Enables design of a more compact belt drive. Ideal for heavy duty industrial drives with shock loads.	Combines narrow belt wedge design with raw edge performance for maximum operating efficiency in a compact drive package.	The finest wrapped belt in the industry and 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.	The Problem Solver! The solution to the constant and costly problem of replacing ordinary v-belts on troublesome drives.
General Ratings	EPDM		EPDM		EPDM	
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		
Wedge-Band®	Super Vee-Band®	Power-Wedge Cog-Band®	Gold-Ribbon Cog-Band®	Panther® XT	Panther®	Synchro-Cog® HT
						
Banded version of Super Power-Wedge v-belt. Belt whip and turnover are eliminated.	Banded version of Super Blue Ribbon v-belt. Belt whip and turnover are eliminated.	Banded version of Power-Wedge Cog-Belt. Belt whip and turnover are eliminated.	Combines the superior characteristics of the Gold-Ribbon Cog-Belt with the stability of a banded belt. Belt whip and turnover are eliminated.	Alternative to chain or drop-in replacement for polyurethane belts. Formulated for enhanced strength and performance. Higher torque capacity than Panther.	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.
1000	500	1000	500	1000	750	500
-35°	-35°	-35°	-35°	-35°	-35°	-35°
130°	120°	130°	130°	200°	150°	150°
6500	6500	6500	6500	6500	6500	6500
★★★	★	★★★	★★	★★★	★★	★
★★	★★★	★★	★★★	★★	★★	★★
★★	★	★★	★★	★★★	★★★	★★★
★	★	★★	★★★	★★★	★★★	★★★
★★	★	★★★	★	★★★	★★	★
★★★	★	★★★	★★	★★★	★★	★
N/A	★★	★	★	★★★	★★★	★★★
★★	★★	★★★	★★★	★★★	★★★	★★★
★★	★	★★★	★★	★★★	★★★	★★★
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★★	★	★★	★★★	★★★	★★★	★★★
★★	★	★★★	★★★	★	★	★
				N/A	N/A	N/A
Yes	Yes	Yes	Yes	No	No	No

The Right Belt for the Job®

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

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

- Aggregate & Mining
- Agriculture
- Energy (Oil & Gas)
- Forestry Industry
- HVACR
- Industrial Equipment
- Outdoor Power Equipment

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

chekmate®

Chek Mate® V-Belt Matching

Chek Mate® 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 Carlisle® belts which carry the distinctive Chek Mate logo: Super Blue Ribbon®, Super II®, Super Power-Wedge®, Power-Wedge® Cog-Belt® and Gold-Ribbon® Cog-Belt®.



Iron Clad Guarantee.

All Carlisle® belts by Timken are backed by our Iron Clad Guarantee. If not completely satisfied with the performance of a Carlisle belt when properly installed on a drive, return it to an authorized Timken distributor of Carlisle belts who will replace the product or refund the original purchase price. Complete warranty terms and conditions can be found in our catalog or online at www.carlislebelts.com/warranty.

We're confident that once you've tried Carlisle belts by Timken, you'll never be satisfied with anything less.

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, chain, belts, couplings and related mechanical power transmission products and services.

Stronger. By Design.

www.carlislebelts.com