

# GOLD-RIBBON® COG-BELT®

Heavy Duty V-Belts



## A New Gold Standard

The energy saver just got better!

The unique construction of the Timken® Gold-Ribbon® Cog-Belt® combines the superior flexing of precision molded cogs with the tenacious gripping power of raw edge sidewalls to provide high energy efficiency, power ratings and long belt life. On top of all this, the Gold-Ribbon Cog-Belt is now made of Ethylene Propylene Diene Monomer (EPDM), a synthetic rubber with outstanding properties.

### EPDM benefits:

- Durable
- Oil and heat resistant
- Static conductive
- Resistant to hardening and glazing

### Gold-Ribbon Cog-Belt is specially designed for optimum performance:

- Broad operating temperature range (-50°F to +250°F)
- Smooth running
- Belt side walls reduce vibration for extended component life
- New cog profile reduces bending stress
- Excellent flexibility on small diameter pulleys

### A belt built to demanding standards:

- Made in the USA
- Energy efficient
- Built to Chek Mate® tolerances for a matched set

# GOLD-RIBBON® COG-BELT®

**A new gold standard! The Gold-Ribbon® Cog-Belt® sets the benchmark for classical v-belt performance – now made of Ethylene Propylene Diene Monomer (EPDM). Reduce downtime and save energy with the efficient Gold-Ribbon® Cog-Belt® – the energy saver just got better!**

The Gold-Ribbon® Cog-Belt® is more efficient than premium wrapped v-belts. Extensive testing has proven that the Gold-Ribbon Cog-Belt is more than 95% efficient on the same drives that normally operate at 93% efficiency using wrapped v-belts.

The secret to the energy saving power of the Gold-Ribbon Cog-Belt is in its engineered design. Ordinary v-belts have a wrapped fabric cover. The Gold-Ribbon Cog-Belt features raw edge sidewalls and precision molded cogs. This combination permits the cog-belt to run cooler and maintain a better grip on the pulleys accounting for greater operating efficiency and longer life.

## Performance and savings in one package.

The high horsepower capacity and long life of a Gold-Ribbon Cog-Belt reduce maintenance intervals and downtime.

Conventional v-belts deteriorate to a nominal efficiency of 93%. The Gold-Ribbon Cog-Belt maintains a 95% efficiency rating, resulting in significant savings.

Proper belt tensioning and alignment are also important for energy efficiency and drive life. Consult the "Industrial V-Belt Drives Service Manual" for helpful tips on proper installation and maintenance of belt drives.

Use PowerMiser™ mobile web application to identify the estimated savings you can realize by upgrading to Timken belts. Visit <http://powermiser.driveengineer.com>.

Gold-Ribbon Cog-Belt Drive Example = Energy Savings Payback			
Driver: 40 HP/1200 RPM Driven: 600 RPM Motor Efficiency: 0.91 Electric Rate: \$0.15/Kwh Drive Operation: 7,200 hours per year Application: Exhaust Fan		Premium Wrapped Belt	Gold-Ribbon Cog-Belt
	<b>Annual Drive Energy Cost</b>	<b>\$17,707</b>	<b>\$16,910</b>
	Annual Drive Savings		<b>\$797</b>
	Belt Drive Premium		<b>\$51</b>
	Payback (Months)		<b>.77</b>

## The Energy Saver.

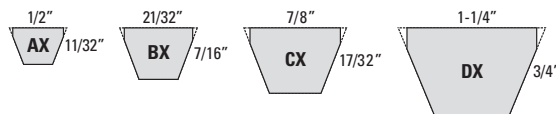
You work hard to get the most from your kilowatt dollars. Premium energy efficient motors and high efficiency air moving equipment are all part of your game plan to reduce energy costs. But, what about the power transmission system connecting your driver and driven equipment?

Saving energy on your air moving drive systems is easy:

- Remove the old v-belts from the drive
- Install a Gold-Ribbon Cog-Belt matched set
- Use existing pulleys since the new belts will fit right into your drives without changing pulleys!

## More reasons to switch to the Timken Gold-Ribbon Cog-Belt:

- Specially formulated EPDM withstands extreme heat, dirt, grease, chemicals and environmental conditions
- Gold-Ribbon Cog-Belt transmits up to 30% more horsepower than conventional belts utilizing the same drive space
- Reduces heat build-up or wear problems even under adverse operating conditions such as reverse bends, backside idlers and constant starts and stops
- Made in the USA



**TIMKEN BELTS**

Timken Belts is part of The Timken Company's growing portfolio of engineered bearings and power transmission products. A manufacturer of premium performance power transmission belts, Timken Belts' associates and products help keep industry in motion and the world more productive.

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