



CASINO SAVES WITH TIMKEN® POWER-WEDGE® COG-BELT®

CHALLENGE ▼

Increase efficiency on HVAC units at a large hotel, casino and conference center. The complex has multiple York air handling units with a 60 hp motor and a driver RPM of 1775. HVAC drive dependability and efficiency is essential.

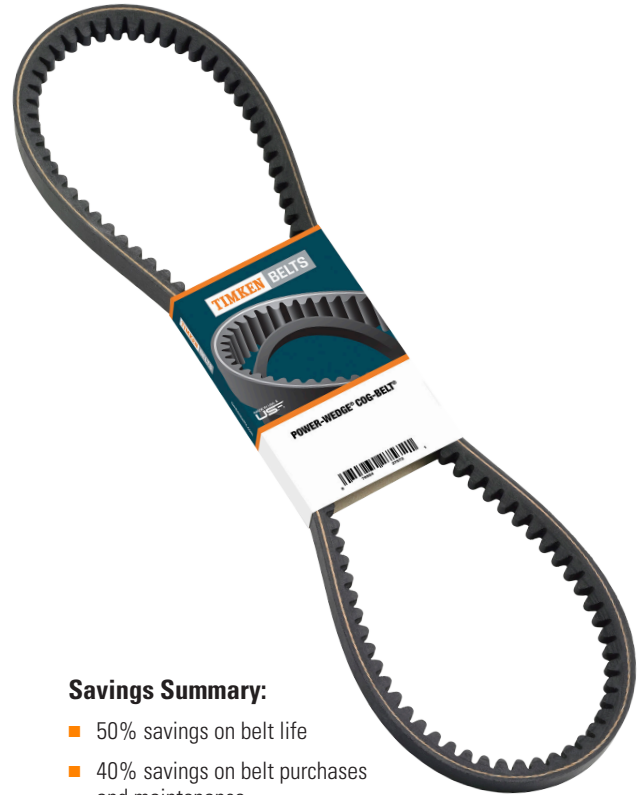
TIMKEN BELTS SOLUTION ▼

Replace wrapped v-belt with Timken® Power-Wedge® Cog-Belt®. Five matched B158 wrapped belts were replaced with three Timken 5VX1700 Power-Wedge Cog-Belts. The new belts were properly tensioned and aligned. Proper tensioning is critical to satisfactory belt life and performance. Replaced worn sheaves with new, larger diameter sheaves for increased energy efficiency.

RESULTS THAT MATTER ▼

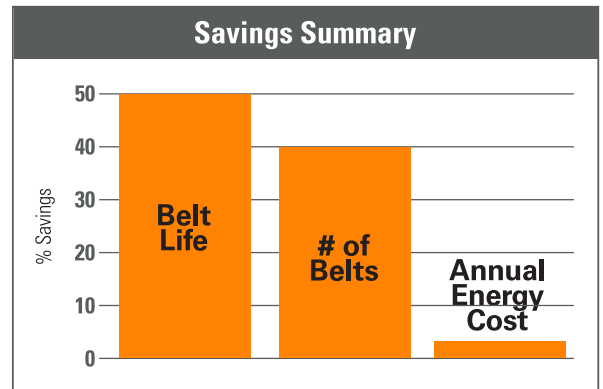
Switching from standard wrapped v-belts to Timken Power-Wedge Cog-Belts resulted in energy savings, reduced downtime and longer belt life.

- An energy efficiency study revealed annual cost savings of more than \$700
 - Timken Power-Wedge Cog-Belts provided a significant decrease in energy usage
 - Timken Power-Wedge Cog-Belts produced higher air flow with less power used
- The belt life of a Power-Wedge Cog-Belt on this application is expected to be as much as 50% longer than a wrapped belt
 - The higher horsepower rating of the Power-Wedge Cog-Belt increases the life expectancy of the drive
- Longer belt life results in fewer belts purchased over the life of the unit as well as fewer preventative maintenance cycles
- Reduced belt replacement costs of maintaining a 3-belt drive vs a 5-belt drive
- Data from the U.S. Department of Energy confirms that cogged belts run cooler, last longer and have an efficiency that is ~2% higher than wrapped v-belts



Savings Summary:

- 50% savings on belt life
- 40% savings on belt purchases and maintenance
- 3% annual energy cost savings



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

Performance Driven. **Performance Proven.**

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