



FREQUENCY FINDER AND LASER-ALIGN TOOLS SAVE MANUFACTURER \$432,000

CHALLENGE ▼

A manufacturer was experiencing issues on the equipment used to make elevator cables. The competitor’s synchronous belts continued to tear on a quarterly basis, leading to unwanted maintenance and downtime costs.

TIMKEN BELTS SOLUTION ▼

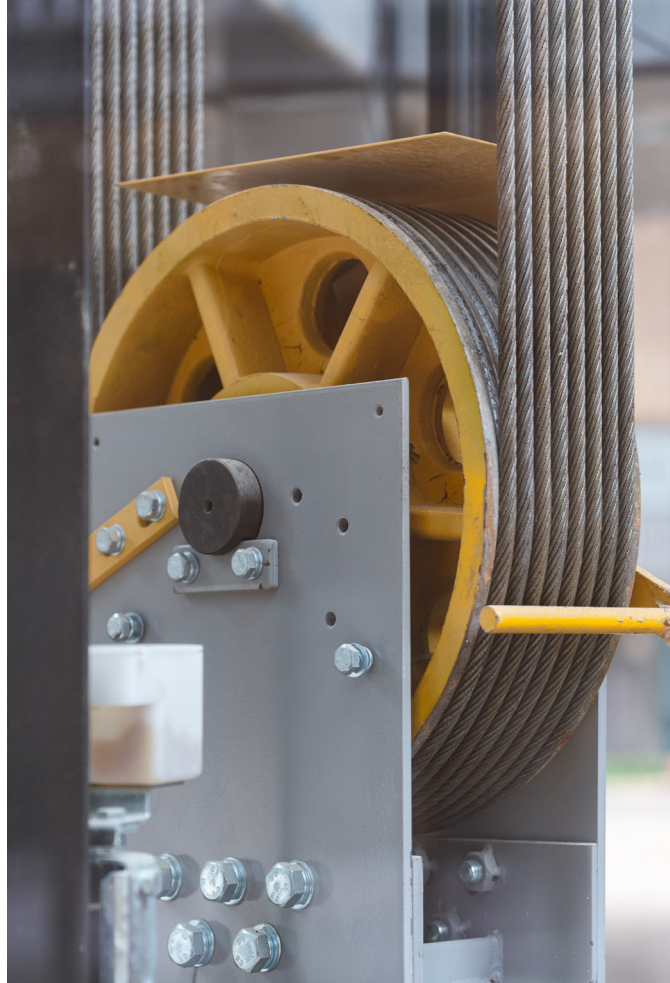
A Timken Belts expert evaluated the drive at the manufacturer’s request, entering any pertinent information into the Drive Engineer® mobile web app. Drive Engineer is a web app that facilitates both new drive selection as well as existing drive analysis. In this instance, Drive Engineer was used to identify the proper frequency range for the application and belt. After recording the frequency range, the Timken Belts Frequency Finder and Laser Align tools were used to check both belt tension and sheave alignments. The alignment was off both horizontally and vertically, while the belt tension was below the optimal frequency range reported by Drive Engineer.

As the equipment was evaluated, the manufacturer’s team expressed interest in utilizing the Timken Belts tools. The manufacturer purchased a Frequency Finder and Laser-Align tool for the maintenance technicians to use during their own analyses, which the Timken Belts expert trained them on. These tools will help them avoid issues with misalignment and belt tension in the future.

RESULTS THAT MATTER ▼

Considering maintenance, labor and production loss costs, the elevator cable manufacturer is projected to save \$432,000 per year by using the Frequency Finder and Laser-Align tools. They reduced maintenance time by 48 hours due to eliminating improper alignment and tensioning of their synchronous belts.

Due to the reliability and success of these tools, the manufacturer is also using Drive Engineer to evaluate the current drive using the competitor’s belt. Panther® XT belts have been recommended as a replacement for this application. By upgrading the machines to Panther XT belts, the manufacturer would reduce maintenance time further, increase efficiency and aid productivity.



Maintenance Time	Annual Savings
- 48 Hours	\$432,000



Timken® belts are part of The Timken Company’s growing portfolio of engineering bearings and industrial motion products. Timken Belts manufactures premium-performance power transmission belts that help keep industry in motion and the world more productive.

Performance Driven. **Performance Proven.**

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