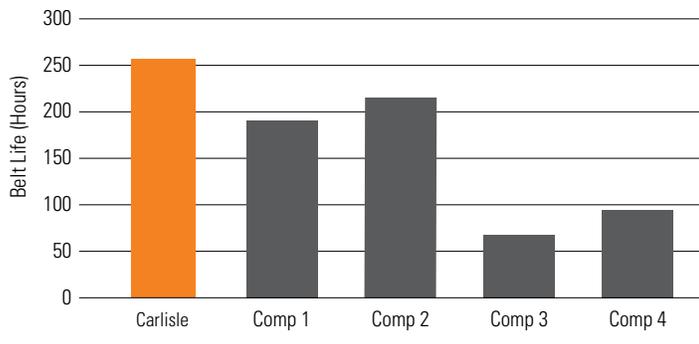
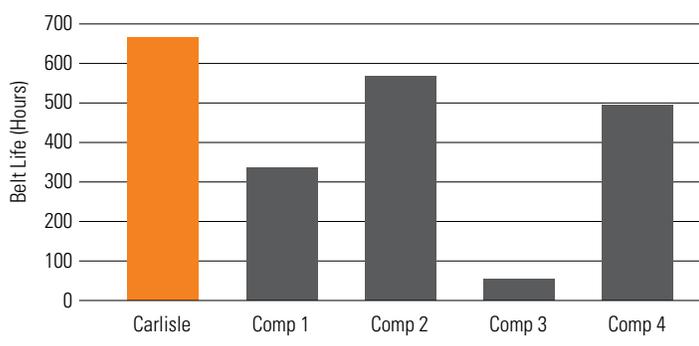
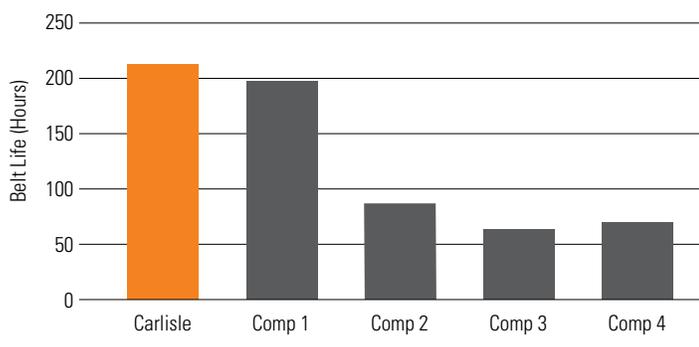
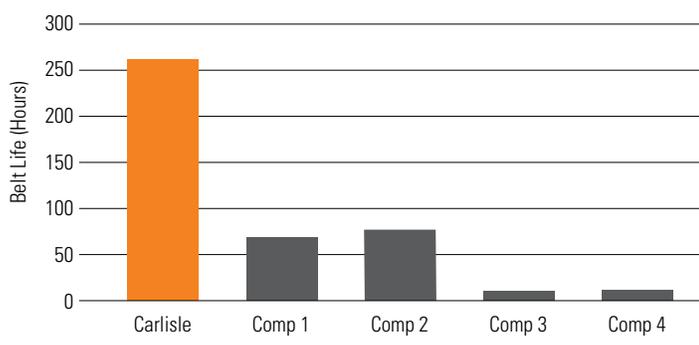


**BX75 Accelerated Flex Fatigue Testing****BX75 Accelerated Application Testing****BP75 Accelerated Flex Fatigue Testing****BP75 Accelerated Application Testing**

## Proven Performance in an Imperfect World.

In a perfect world, every belt drive system would be properly tensioned and aligned to achieve maximum efficiency and belt life.

Well, the world isn't perfect. That's why you need Carlisle® belts.

- Rigorous testing\* shows that Carlisle belts significantly outlast the competition in a wide range of adverse conditions common to industrial applications.
- In both accelerated flex fatigue and application tests targeting belt break, fabric wear, cracking and slippage, Carlisle raw edge cogged belts and wrapped molded belts both performed far above the competition even when subjected to misalignment, excessive tension, torque load and backside idlers.
- To the end user, extended belt life translates to less downtime and reduced maintenance costs, or simply put, savings.

Of course, the exceptional performance of Carlisle belts is no accident – Performance. By Design.

\*Accelerated life tests were performed under adverse conditions. Belt life will vary depending on operating conditions. Follow all tensioning, alignment and installation guidelines to get maximum life out of your belt.

# Performance Belts Purposefully Built by Timken

Each Carlisle belt is the result of thoughtful design, robust materials, and rugged construction – engineered for performance and efficiency.

## ■ Extensive OE Experience

By designing belts for a broad range of original equipment manufacturers, Timken engineers acquire and apply their expert-level knowledge toward belt design and development.

## ■ Materials by Design

Materials used in belts can vary widely. For example, EPDM (Ethylene Propylene Diene Monomer) is used in many belts, but no two EPDMs are alike. Timken engineers carefully develop and test each component, adding just the right amount of accelerators, modifiers and numerous other elements to find the best compound for each belt to assure it performs well in specific applications.

## ■ Stronger by Design

Whether raw edge or wrapped construction, every Carlisle belt meets stringent specifications established through steadfast testing to meet the demands of even the toughest applications.

## ■ Engineered for Efficiency

Carlisle belts are designed to effectively handle the transfer of power as well as unwanted stresses such as heat, wear and vibration with minimal loss of power. This translates to energy efficiency and savings.

## ■ Reduced Maintenance & Downtime

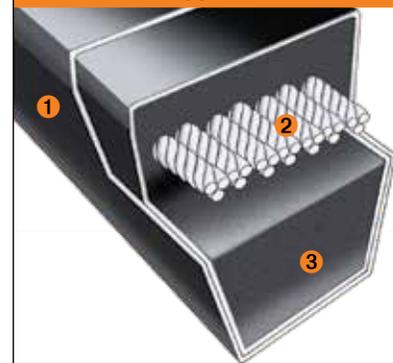
A belt that keeps running when others won't will save the end-user time and money.

### Carlisle Raw Edge Belt Construction



1. Raw edge sidewalls reduce slippage and vibration for increased efficiency and extended component life
2. Synthetic high-modulus cords form the strength member to carry high loads and minimize stretch
3. Precision molded cogs improve belt flexibility and reduce bending stress
4. EPDM construction offers superior flex and load carrying capacity – resistant to heat and cracking

### Carlisle Wrapped Belt Construction



1. Protective fabric cover impregnated with engineered rubber compounds
2. Synthetic high-modulus cords form the strength member to carry high loads and minimize stretch
3. Engineered rubber compounds specially formulated to flex as belt bends around sheaves

# 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.

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

Stronger. **By Design.**