

PANTHER^{XT}

High Torque Synchronous Belt

STRONG *like a panther*

EFFICIENT *like a panther*

RUNS *like a panther*

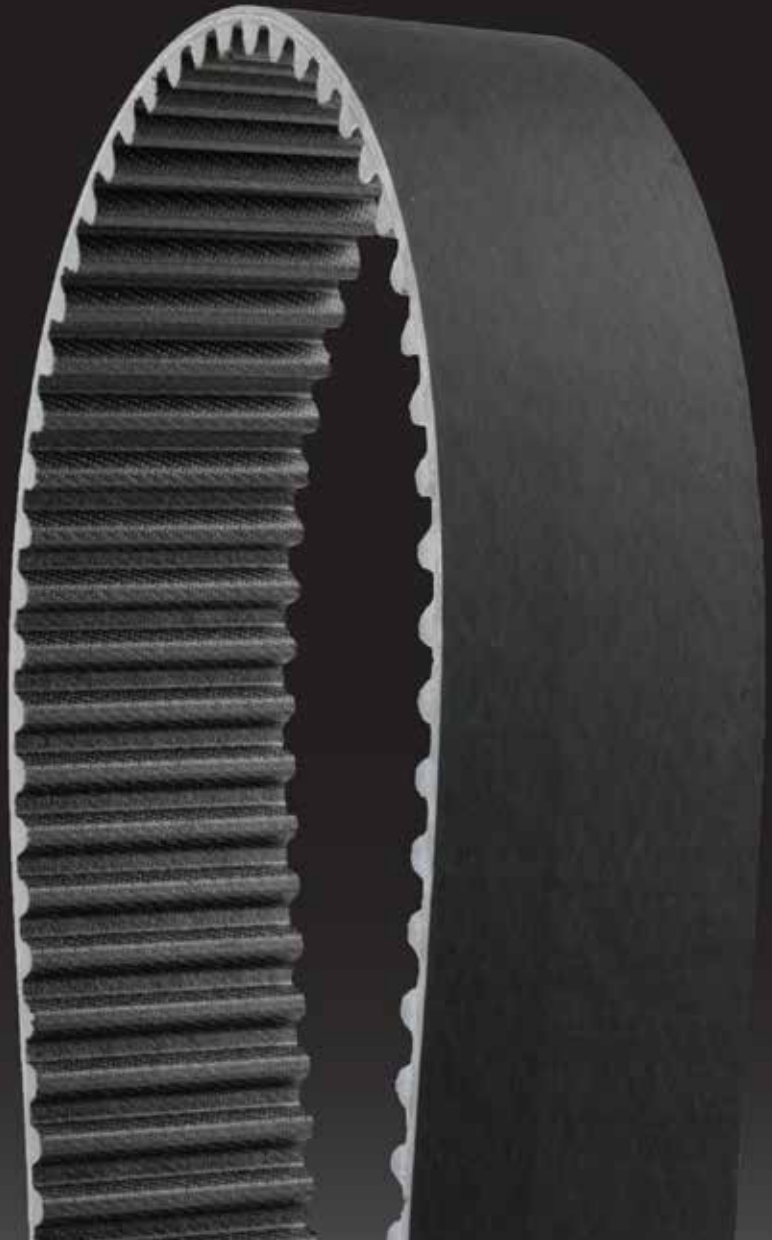
PURRS *like a panther*

The strong, silent type, the Panther^{XT} is the high torque synchronous belt that purrs. A powerful alternative to chain or a drop-in replacement for polyurethane belts,* Panther^{XT} belts are engineered to run quietly and efficiently in the harshest environments.

Naturally agile, Panther^{XT} belts move quickly and easily, to help achieve power ratings that meet or exceed the competition.

Panther^{XT} high torque synchronous belts easily outlive most competition...by nine lives! In life tests against competitive belts, Panther^{XT} belts outlived most competitors, some by more than nine times, or >95%.

Panther^{XT} belts... **PURRRFECT TIMING.**



PANTHER XT

STRONG like a panther

- Carbon fiber cord construction with high tensile strength and minimal stretch increases durability
- Fabric is engineered to be low-friction and abrasion resistant for extended belt life
- Oil and heat resistant (up to 120°C/248°F) advanced polymer compound combines high elasticity and hardness for improved performance in harsh environments

EFFICIENT like a panther

- Achieve 98% efficiency. Visit www.powermiser.driveengineer.com to calculate the savings on your next drive

PURRS like a panther

- Advanced polymer construction and special fabric design reduce noise when compared to chain or polyurethane belts

RUNS like a panther

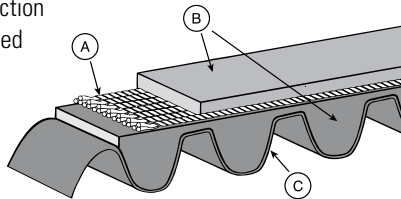
- Panther XT belts are engineered to achieve higher power ratings
- Designed for efficiency, Panther XT belts minimize drive widths resulting in more compact drive designs and reduced metal costs

BUILT like a panther

A: High-modulus carbon fiber cord

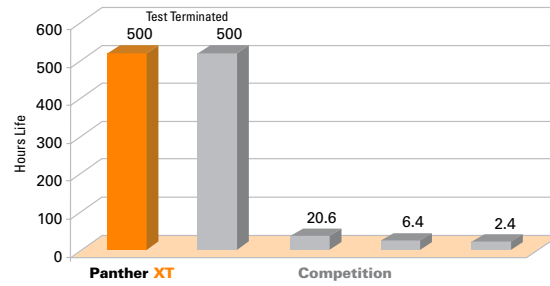
B: High performance advanced polymer composite for high torque transmission, flexibility, and extended belt life

C: High strength, low-friction fabric facing engineered for maximum wear resistance

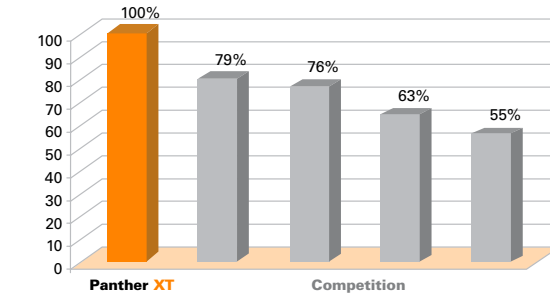


Part Number Example	Pitch (mm)	Pitch Length (mm)	Width (mm)
8MXT-640-36	8	640-4480	12, 21, 36, 62
14MXT-3850-20	14	994-4410	20, 37, 68, 90, 125

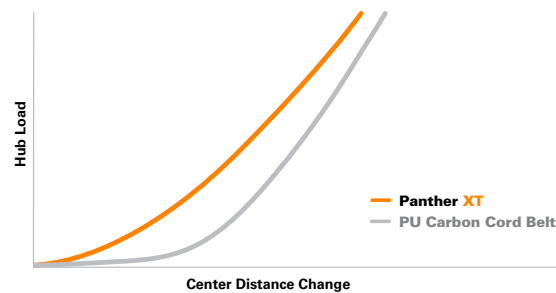
PANTHER XT Belt Life Comparison



PANTHER XT Belt Break Strength Comparison



PANTHER XT Belt Modulus Comparison



Part Number Example:

$$14MXT-1400-37 = \underset{\substack{\text{Tooth} \\ \text{Pitch}}}{14M} \underset{\substack{\text{Panther XT} \\ \text{Construction}}}{XT} - \underset{\substack{\text{Pitch Length} \\ \text{(millimeters)}}}{1400} - \underset{\substack{\text{Width} \\ \text{(millimeters)}}}{37}$$

*Timken Belts recommends Martin® MPC® Sprockets – MPB or Taper Bushed (8mm, 14mm). Panther XT belts are also compatible with Gates® Poly Chain® GT® 2 sprockets. The Panther XT synchronous belt is a super high torque product that is not for use in standard high torque sprockets such as HTD®, HTS® or RPP®. **Caution: Use of sprockets other than MPC® sprockets or Poly Chain® GT® 2 sprockets with Panther XT belts could result in mechanical failure of bushings, sprockets, bearings or shafts, possibly resulting in physical injury.** Martin®, HTS® and MPC® are registered trademarks of Martin Sprocket & Gear, Inc. Gates®, Poly Chain®, GT®, and HTD® are registered trademarks of Gates Corporation. RPP® is a registered trademark of Timken Belts.

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 and related mechanical power transmission products and services.

Stronger. By Design.

www.carlislebelts.com/pantherXT