

# PANTHER<sup>XT</sup>

High Torque Synchronous Belt

**STRONG** like a panther

**EFFICIENT** like a panther

**RUNS** like a panther

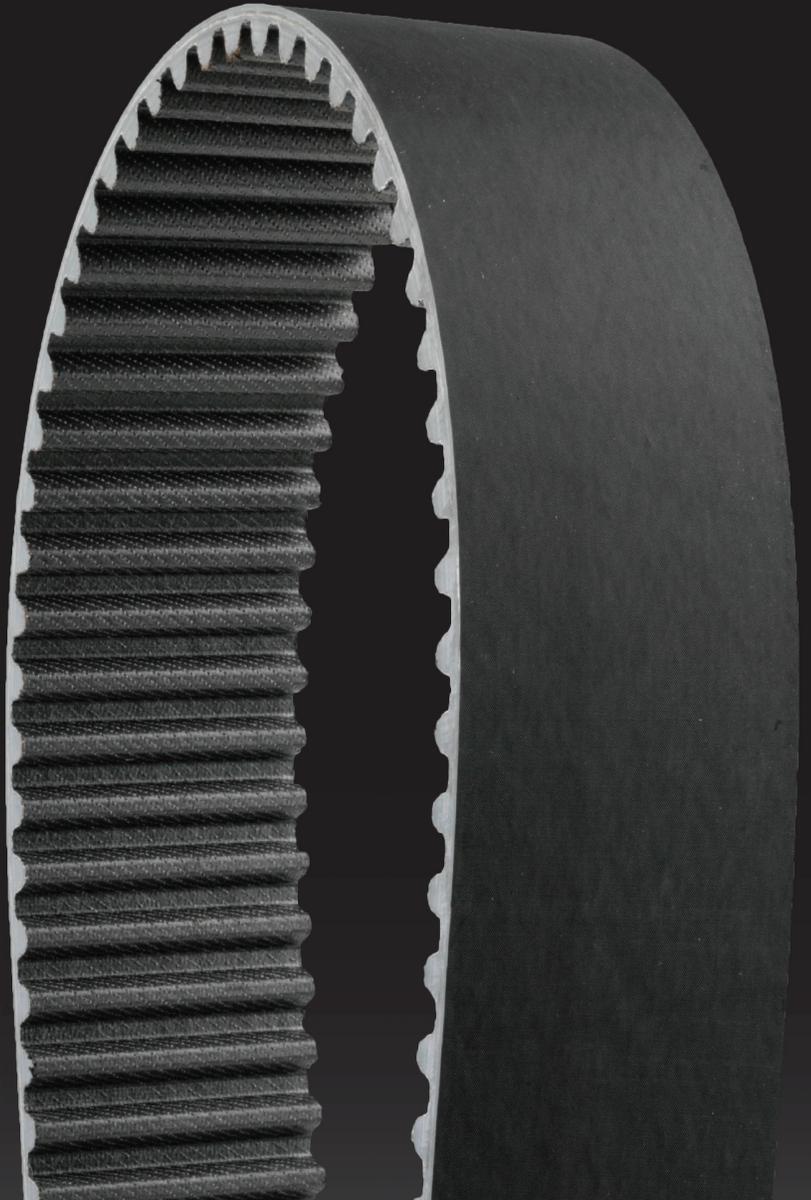
**PURRS** like a panther

The strong, silent type, Timken Belts' Panther XT high torque synchronous belt 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 synchronous 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](http://www.powermiser.driveengineer.com) to calculate the savings on your next drive

## RUNS like a panther

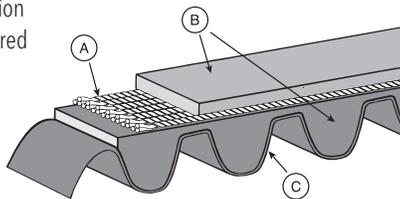
- Panther XT belts are engineered to achieve higher power ratings
- Designed for efficiency, Panther XT belts minimize drive widths resulting in more compact drive designs and reduced metal costs

## PURRS like a panther

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

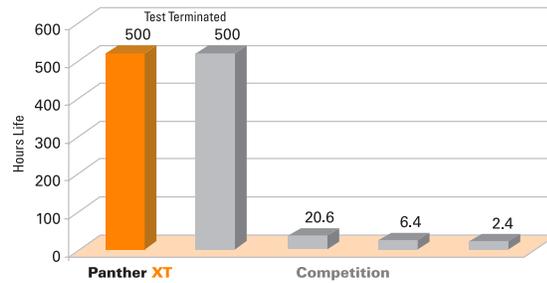
## BUILT like a panther

- 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 is engineered for maximum wear resistance

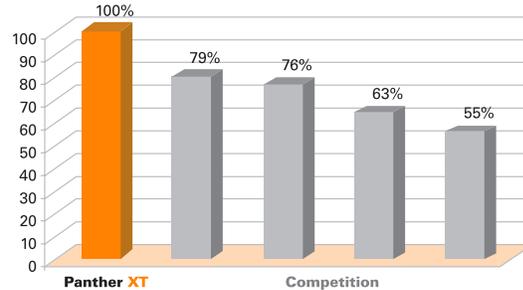


Part Number Example	Pitch (mm)	Pitch Length (mm)	Width (mm)
8MXT-640-36	8	640-4480	12, 21, 36, 62
14MXT-3850-20	14	994-4410	20, 37, 68, 90, 125

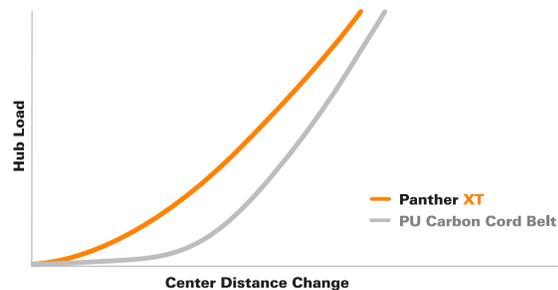
## PANTHER XT Belt Life Comparison



## 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 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/pantherXT](http://www.timkenbelts.com/pantherXT)

Performance Driven. Performance Proven.