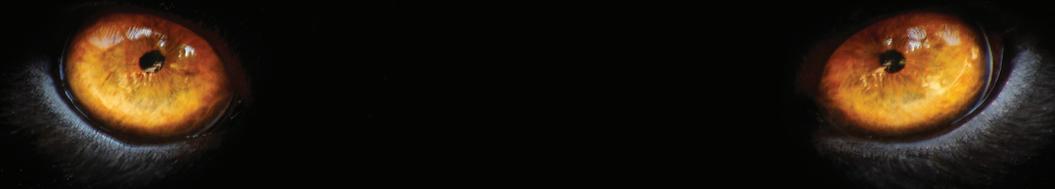


**TIMKEN** BELTS



# PANTHER<sup>XT</sup>

SYNCHRONOUS DRIVE SYSTEMS



# PANTHER<sup>XT</sup>

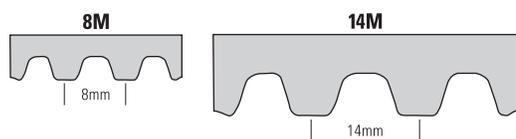
Extreme Torque Synchronous Belt

The strong, silent type, Timken Belts' Panther<sup>®</sup> XT belt purrs. A powerful alternative to chain or a drop-in replacement for high torque 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.

Carbon cord construction and abrasion-resistant, low friction tooth fabric provide strength and durability, and help reduce downtime, maintenance, and noise levels.

Panther **XT** . . . **PURRRFECT TIMING.**



**1**

**Carbon Cord Construction**

- High modulus carbon fiber cord
- Extraordinary tensile strength
- Minimal stretch
- Increased durability

**2**

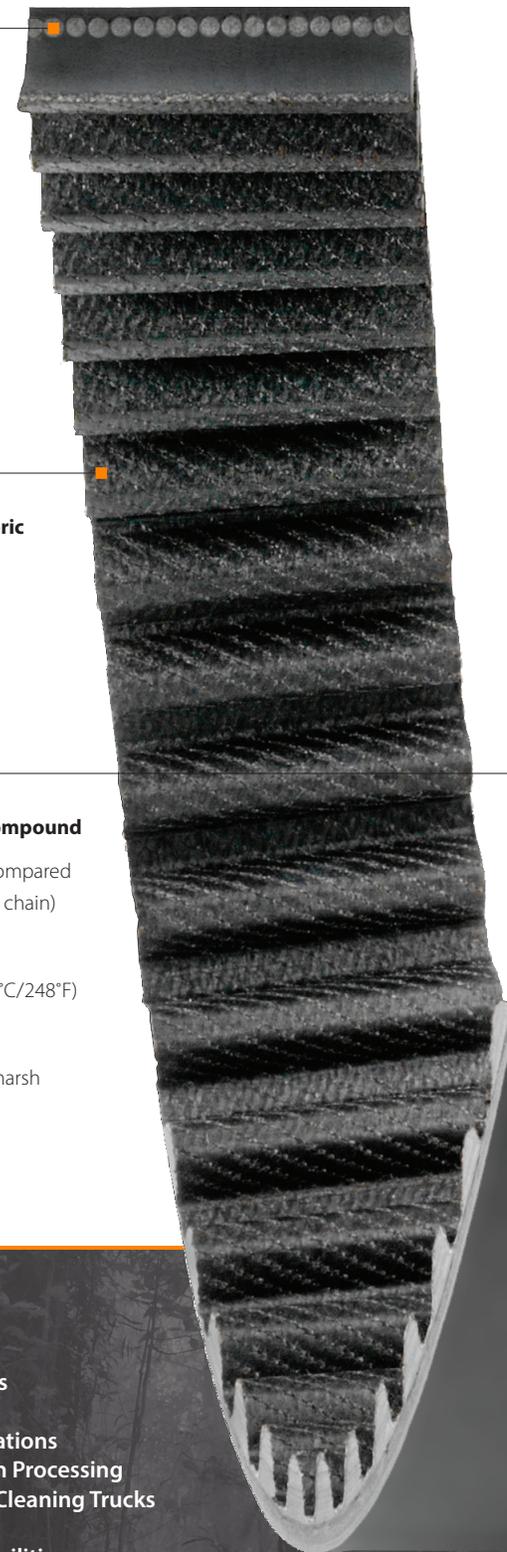
**Engineered Tooth Fabric**

- Low-friction
- Abrasion resistant
- Long belt life

**3**

**Advanced Polymer Compound**

- Reduced noise (when compared to polyurethane belts or chain)
- High elasticity
- Heat resistant (up to 120°C/248°F)
- Oil resistant
- Proven performance in harsh conditions



**Panther XT Applications:**

- Agricultural Equipment
- Centrifuges
- Compressors
- Conveyors
- Exercise Equipment
- Foil and Film Machinery
- Food Packaging
- Food Processing
- Foundries

- HVAC
- Industrial Vacuum Loaders
- Industrial Equipment
- Industrial Machinery
- Laundry Equipment
- Machine Tools
- Packaging Equipment
- Paper Converting Equipment
- Printing Machinery and Equipment

- Pulp and Paper Mills
- Pumps
- Roller Chain Applications
- Roller Mills for Grain Processing
- Sewer/Catch Basin Cleaning Trucks
- Textile Equipment
- Waste Treatment Facilities

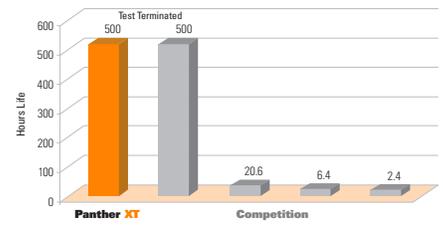
## Panther *XT* belts can take the heat...no sweat!

Constructed with a high temperature and oil resistant polymer (up to 120°C/248°F), Panther XT belts provide high thermal stability and excellent overall chemical resistance. Carbon fiber cord resists stretch and maintains outstanding belt tension stability over the life of the belt.

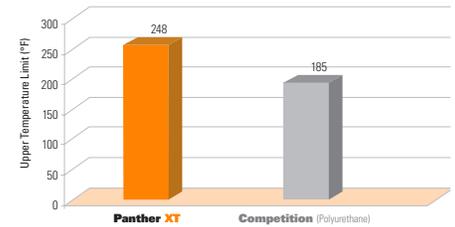
Panther *XT* high torque synchronous belts easily outlive most competition... by **nine lives!**

In life tests against competitive belts, Panther XT belts outlived most competitors, some by more than nine times, or >95%.

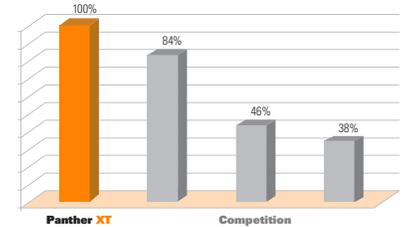
**PANTHER XT** Belt Life Comparison



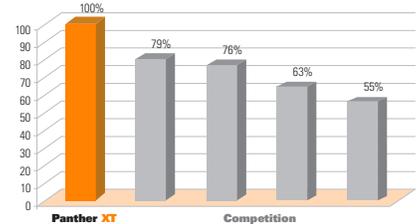
**PANTHER XT** Maximum Operating Temperature



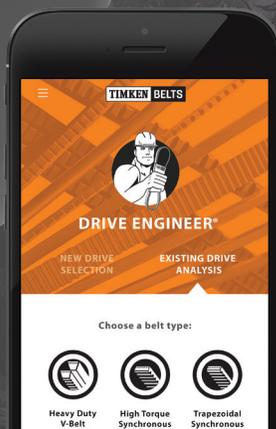
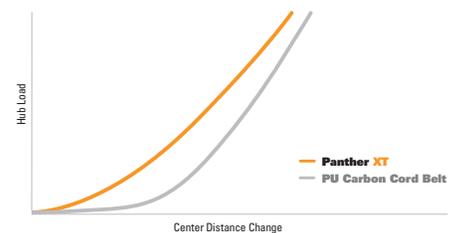
**PANTHER XT** Tooth Shear Strength Comparison



**PANTHER XT** Belt Break Strength Comparison



**PANTHER XT** Belt Tensile Modulus Comparison



Facilitate both new drive selection and existing drive analysis with Drive Engineer®, the robust mobile web application from Timken Belts.

Now incorporating a complete offering of Martin® synchronous sprockets and sheaves.

Visit [www.driveengineer.com](http://www.driveengineer.com).

**TIMKEN BELTS**

# Panther XT Synchronous Belt Part Numbers

| 8MXT<br>Part Numbers<br>(8mm Pitch)   | Number<br>Of Teeth | Pitch Length |       | Top<br>Width<br>(mm) |
|---|--------------------|--------------|-------|----------------------|
|   |                    | (mm)         | (in)  |                      |
| *Recommended Pulleys: Martin® MPC® Sprockets – MPB, Taper Bushed (8mm), also compatible with Gates® Poly Chain® GT®2 Sprockets¹ |                    |              |       |                      |
| 8MXT-640  | 80                 | 640          | 25.2  | 12, 21, 36, 62       |
| 8MXT-720  | 90                 | 720          | 28.3  | 12, 21, 36, 62       |
| 8MXT-800  | 100                | 800          | 31.5  | 12, 21, 36, 62       |
| 8MXT-896  | 112                | 896          | 35.3  | 12, 21, 36, 62       |
| 8MXT-960  | 120                | 960          | 37.8  | 12, 21, 36, 62       |
| 8MXT-1000   | 125                | 1000         | 39.4  | 12, 21, 36, 62       |
| 8MXT-1040   | 130                | 1040         | 40.9  | 12, 21, 36, 62       |
| 8MXT-1120   | 140                | 1120         | 44.1  | 12, 21, 36, 62       |
| 8MXT-1200   | 150                | 1200         | 47.2  | 12, 21, 36, 62       |
| 8MXT-1224   | 153                | 1224         | 48.2  | 12, 21, 36, 62       |
| 8MXT-1280   | 160                | 1280         | 50.4  | 12, 21, 36, 62       |
| 8MXT-1440   | 180                | 1440         | 56.7  | 12, 21, 36, 62       |
| 8MXT-1600   | 200                | 1600         | 63.0  | 12, 21, 36, 62       |
| 8MXT-1760   | 220                | 1760         | 69.3  | 12, 21, 36, 62       |
| 8MXT-1792   | 224                | 1792         | 70.6  | 12, 21, 36, 62       |
| 8MXT-2000   | 250                | 2000         | 78.7  | 12, 21, 36, 62       |
| 8MXT-2200   | 275                | 2200         | 86.6  | 12, 21, 36, 62       |
| 8MXT-2240   | 280                | 2240         | 88.2  | 12, 21, 36, 62       |
| 8MXT-2400   | 300                | 2400         | 94.5  | 12, 21, 36, 62       |
| 8MXT-2520   | 315                | 2520         | 99.2  | 12, 21, 36, 62       |
| 8MXT-2600   | 325                | 2600         | 102.4 | 12, 21, 36, 62       |
| 8MXT-2800   | 350                | 2800         | 110.2 | 12, 21, 36, 62       |
| 8MXT-2840   | 355                | 2840         | 111.8 | 12, 21, 36, 62       |
| 8MXT-3048   | 381                | 3048         | 120.0 | 12, 21, 36, 62       |
| 8MXT-3200   | 400                | 3200         | 126.0 | 12, 21, 36, 62       |
| 8MXT-3280   | 410                | 3280         | 129.1 | 12, 21, 36, 62       |
| 8MXT-3600   | 450                | 3600         | 141.7 | 12, 21, 36, 62       |
| 8MXT-4000   | 500                | 4000         | 157.5 | 12, 21, 36, 62       |
| 8MXT-4400   | 550                | 4400         | 173.2 | 12, 21, 36, 62       |
| 8MXT-4480   | 560                | 4480         | 176.4 | 12, 21, 36, 62       |

# Part Number Example:

**14M** **XT** - **1400** - **37**  
 Tooth Pitch Panther XT Pitch Length Width  
 (millimeters) (millimeters)

| 14MXT<br>Part Numbers<br>(14mm Pitch)   | Number<br>Of Teeth | Pitch Length |       | Top<br>Width<br>(mm) |
|---|--------------------|--------------|-------|----------------------|
|   |                    | (mm)         | (in)  |                      |
| *Recommended Pulleys: Martin® MPC® Sprockets – MPB, Taper Bushed (8mm), also compatible with Gates® Poly Chain® GT®2 Sprockets¹ |                    |              |       |                      |
| 14MXT-994   | 71                 | 994          | 39.1  | 20, 37, 68, 90, 125  |
| 14MXT-1120  | 80                 | 1120         | 44.1  | 20, 37, 68, 90, 125  |
| 14MXT-1190  | 85                 | 1190         | 46.9  | 20, 37, 68, 90, 125  |
| 14MXT-1260  | 90                 | 1260         | 49.6  | 20, 37, 68, 90, 125  |
| 14MXT-1400  | 100                | 1400         | 55.1  | 20, 37, 68, 90, 125  |
| 14MXT-1568  | 112                | 1568         | 61.7  | 20, 37, 68, 90, 125  |
| 14MXT-1610  | 115                | 1610         | 63.4  | 20, 37, 68, 90, 125  |
| 14MXT-1750  | 125                | 1750         | 68.9  | 20, 37, 68, 90, 125  |
| 14MXT-1890  | 135                | 1890         | 74.4  | 20, 37, 68, 90, 125  |
| 14MXT-1960  | 140                | 1960         | 77.2  | 20, 37, 68, 90, 125  |
| 14MXT-2100  | 150                | 2100         | 82.7  | 20, 37, 68, 90, 125  |
| 14MXT-2240  | 160                | 2240         | 88.2  | 20, 37, 68, 90, 125  |
| 14MXT-2310  | 165                | 2310         | 90.9  | 20, 37, 68, 90, 125  |
| 14MXT-2380  | 170                | 2380         | 93.7  | 20, 37, 68, 90, 125  |
| 14MXT-2450  | 175                | 2450         | 96.5  | 20, 37, 68, 90, 125  |
| 14MXT-2520  | 180                | 2520         | 99.2  | 20, 37, 68, 90, 125  |
| 14MXT-2590  | 185                | 2590         | 102.0 | 20, 37, 68, 90, 125  |
| 14MXT-2660  | 190                | 2660         | 104.7 | 20, 37, 68, 90, 125  |
| 14MXT-2800  | 200                | 2800         | 110.2 | 20, 37, 68, 90, 125  |
| 14MXT-3136  | 224                | 3136         | 123.5 | 20, 37, 68, 90, 125  |
| 14MXT-3304  | 236                | 3304         | 130.1 | 20, 37, 68, 90, 125  |
| 14MXT-3360  | 240                | 3360         | 132.3 | 20, 37, 68, 90, 125  |
| 14MXT-3500  | 250                | 3500         | 137.8 | 20, 37, 68, 90, 125  |
| 14MXT-3850  | 275                | 3850         | 151.6 | 20, 37, 68, 90, 125  |
| 14MXT-3920  | 280                | 3920         | 154.3 | 20, 37, 68, 90, 125  |
| 14MXT-4144  | 296                | 4144         | 163.2 | 20, 37, 68, 90, 125  |
| 14MXT-4326  | 309                | 4326         | 170.3 | 20, 37, 68, 90, 125  |
| 14MXT-4410  | 315                | 4410         | 173.6 | 20, 37, 68, 90, 125  |

\*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 an extreme 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.

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Performance Driven. Performance Proven.

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