



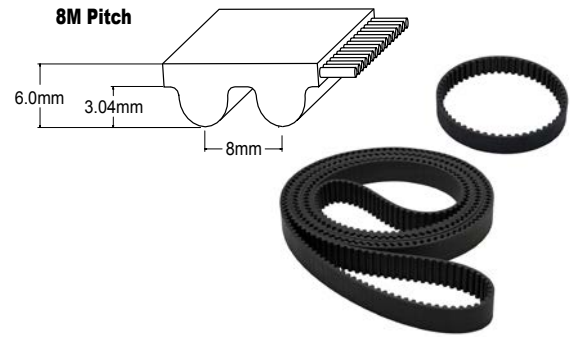
# High Torque Drive Belts (8M)

## High Torque Drive Belts (8M Pitch)

### Neoprene with Fiberglass Reinforcement

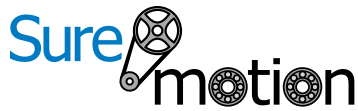
SureMotion High-Torque Drive belts are an excellent choice for drives requiring premium efficiency or synchronous operation and higher power capacity than trapezoidal timing belts. Use them on conveyors, industrial equipment, machine tools, hand power tools, and agricultural equipment where high power density is needed.

- Curvilinear tooth profile (compatible with HTD®)
- Compound: Chloroprene Belt Body, heat and ozone resistant; high tooth shear resistance
- Cord: Fiberglass Tensile Cord; high dimensional stability and maximum flexibility
- Tooth Cover: Nylon Tooth Cover; durability and wear resistance; increased power capacity
- Conforms to ARPM standard IP-27
- Temperature Range: -13°F/+185° (-25°C/+85°C)



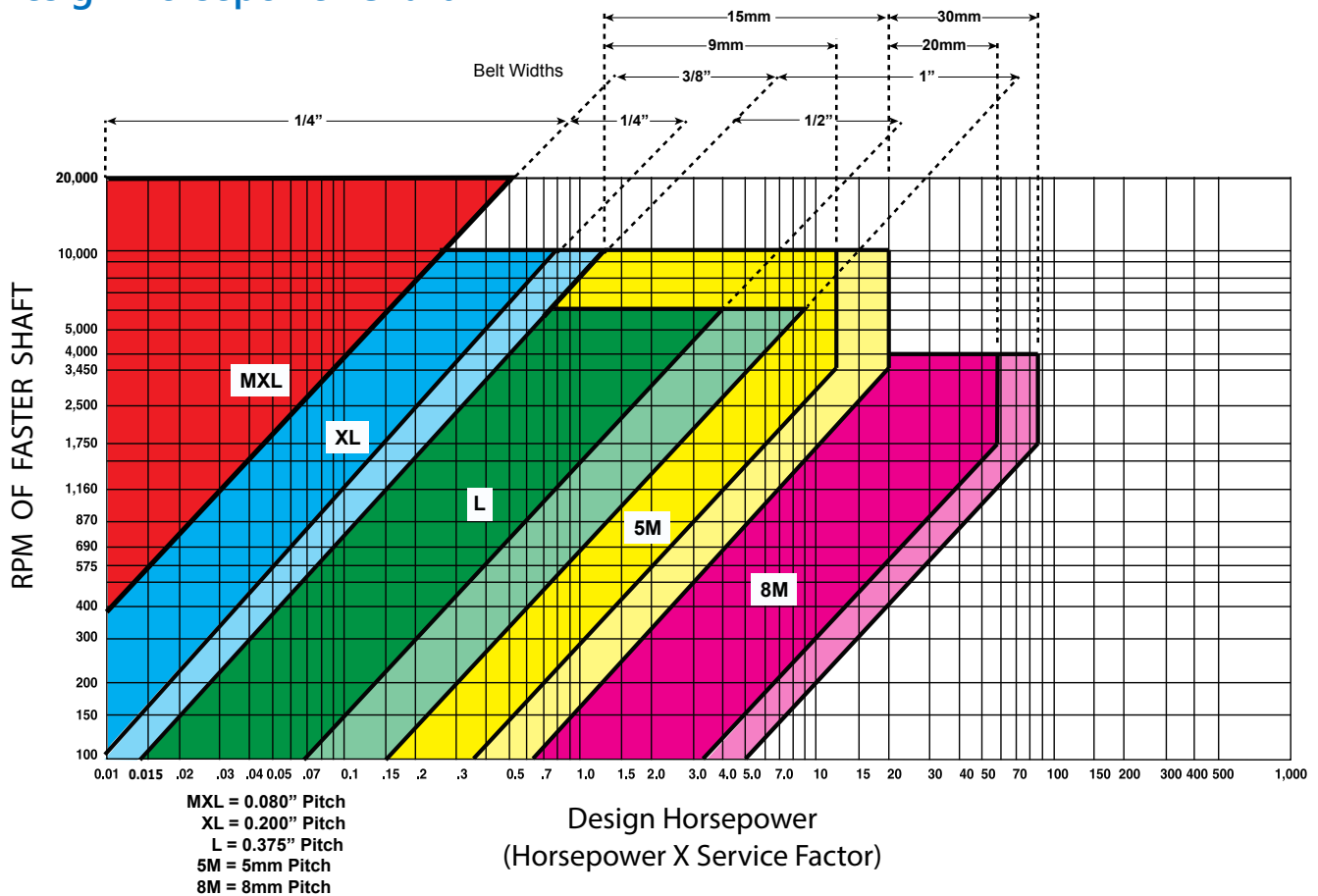
**xxx-8M-20-NG Tensile Rating: 2023 lbf [8998 N]**  
**xxx-8M-30-NG Tensile Rating: 3035 lbf [13500 N]**

| High Torque Drive Belts (8M)  |          |             |         |                   |            |                    |            |                               |          |             |         |                   |            |                    |            |
|-------------------------------|----------|-------------|---------|-------------------|------------|--------------------|------------|-------------------------------|----------|-------------|---------|-------------------|------------|--------------------|------------|
| Part Number                   | Price    | Weight (lb) | # Teeth | Pitch Designation | Pitch (mm) | Circumference (mm) | Width (mm) | Part Number                   | Price    | Weight (lb) | # Teeth | Pitch Designation | Pitch (mm) | Circumference (mm) | Width (mm) |
| <a href="#">440-8M-20-NG</a>  | \$33.50  | 0.15        | 55      | 8M                | 8          | 440                | 20         | <a href="#">440-8M-30-NG</a>  | \$47.00  | 0.2         | 55      | 8M                | 8          | 440                | 30         |
| <a href="#">480-8M-20-NG</a>  | \$33.50  | 0.15        | 60      |                   |            | 480                |            | <a href="#">480-8M-30-NG</a>  | \$47.00  | 0.2         | 60      |                   |            | 480                |            |
| <a href="#">520-8M-20-NG</a>  | \$39.00  | 0.15        | 65      |                   |            | 520                |            | <a href="#">520-8M-30-NG</a>  | \$54.00  | 0.2         | 65      |                   |            | 520                |            |
| <a href="#">560-8M-20-NG</a>  | \$37.50  | 0.15        | 70      |                   |            | 560                |            | <a href="#">560-8M-30-NG</a>  | \$50.00  | 0.25        | 70      |                   |            | 560                |            |
| <a href="#">600-8M-20-NG</a>  | \$39.00  | 0.15        | 75      |                   |            | 600                |            | <a href="#">600-8M-30-NG</a>  | \$54.00  | 0.25        | 75      |                   |            | 600                |            |
| <a href="#">640-8M-20-NG</a>  | \$39.00  | 0.15        | 80      |                   |            | 640                |            | <a href="#">640-8M-30-NG</a>  | \$57.00  | 0.25        | 80      |                   |            | 640                |            |
| <a href="#">720-8M-20-NG</a>  | \$42.00  | 0.2         | 90      |                   |            | 720                |            | <a href="#">720-8M-30-NG</a>  | \$60.00  | 0.3         | 90      |                   |            | 720                |            |
| <a href="#">800-8M-20-NG</a>  | \$45.50  | 0.25        | 100     |                   |            | 800                |            | <a href="#">800-8M-30-NG</a>  | \$65.00  | 0.35        | 100     |                   |            | 800                |            |
| <a href="#">840-8M-20-NG</a>  | \$47.00  | 0.25        | 105     |                   |            | 840                |            | <a href="#">840-8M-30-NG</a>  | \$66.00  | 0.35        | 105     |                   |            | 840                |            |
| <a href="#">880-8M-20-NG</a>  | \$49.00  | 0.25        | 110     |                   |            | 880                |            | <a href="#">880-8M-30-NG</a>  | \$70.00  | 0.35        | 110     |                   |            | 880                |            |
| <a href="#">920-8M-20-NG</a>  | \$49.00  | 0.25        | 115     |                   |            | 920                |            | <a href="#">920-8M-30-NG</a>  | \$70.00  | 0.4         | 115     |                   |            | 920                |            |
| <a href="#">960-8M-20-NG</a>  | \$50.00  | 0.3         | 120     |                   |            | 960                |            | <a href="#">960-8M-30-NG</a>  | \$73.00  | 0.45        | 120     |                   |            | 960                |            |
| <a href="#">1040-8M-20-NG</a> | \$54.00  | 0.3         | 130     |                   |            | 1040               |            | <a href="#">1040-8M-30-NG</a> | \$79.00  | 0.45        | 130     |                   |            | 1040               |            |
| <a href="#">1064-8M-20-NG</a> | \$54.00  | 0.3         | 133     |                   |            | 1064               |            | <a href="#">1064-8M-30-NG</a> | \$79.00  | 0.4         | 133     |                   |            | 1064               |            |
| <a href="#">1120-8M-20-NG</a> | \$58.00  | 0.3         | 140     |                   |            | 1120               |            | <a href="#">1120-8M-30-NG</a> | \$82.00  | 0.45        | 140     |                   |            | 1120               |            |
| <a href="#">1160-8M-20-NG</a> | \$58.00  | 0.35        | 145     |                   |            | 1160               |            | <a href="#">1160-8M-30-NG</a> | \$84.00  | 0.5         | 145     |                   |            | 1160               |            |
| <a href="#">1200-8M-20-NG</a> | \$60.00  | 0.35        | 150     |                   |            | 1200               |            | <a href="#">1200-8M-30-NG</a> | \$87.00  | 0.5         | 150     |                   |            | 1200               |            |
| <a href="#">1224-8M-20-NG</a> | \$62.00  | 0.35        | 153     |                   |            | 1224               |            | <a href="#">1224-8M-30-NG</a> | \$87.00  | 0.55        | 153     |                   |            | 1224               |            |
| <a href="#">1280-8M-20-NG</a> | \$63.00  | 0.35        | 160     |                   |            | 1280               |            | <a href="#">1280-8M-30-NG</a> | \$91.00  | 0.5         | 160     |                   |            | 1280               |            |
| <a href="#">1440-8M-20-NG</a> | \$68.00  | 0.35        | 180     |                   |            | 1440               |            | <a href="#">1440-8M-30-NG</a> | \$99.00  | 0.6         | 180     |                   |            | 1440               |            |
| <a href="#">1512-8M-20-NG</a> | \$70.00  | 0.45        | 189     |                   |            | 1512               |            | <a href="#">1512-8M-30-NG</a> | \$101.00 | 0.65        | 189     |                   |            | 1512               |            |
| <a href="#">1584-8M-20-NG</a> | \$75.00  | 0.4         | 198     |                   |            | 1584               |            | <a href="#">1584-8M-30-NG</a> | \$108.00 | 0.6         | 198     |                   |            | 1584               |            |
| <a href="#">1600-8M-20-NG</a> | \$75.00  | 0.45        | 200     |                   |            | 1600               |            | <a href="#">1600-8M-30-NG</a> | \$108.00 | 0.65        | 200     |                   |            | 1600               |            |
| <a href="#">1760-8M-20-NG</a> | \$81.00  | 0.45        | 220     |                   |            | 1760               |            | <a href="#">1760-8M-30-NG</a> | \$118.00 | 0.7         | 220     |                   |            | 1760               |            |
| <a href="#">1800-8M-20-NG</a> | \$82.00  | 0.45        | 225     |                   |            | 1800               |            | <a href="#">1800-8M-30-NG</a> | \$119.00 | 0.7         | 225     |                   |            | 1800               |            |
| <a href="#">2000-8M-20-NG</a> | \$90.00  | 0.55        | 250     |                   |            | 2000               |            | <a href="#">2000-8M-30-NG</a> | \$131.00 | 0.75        | 250     |                   |            | 2000               |            |
| <a href="#">2200-8M-20-NG</a> | \$98.00  | 0.65        | 275     |                   |            | 2200               |            | <a href="#">2200-8M-30-NG</a> | \$142.00 | 1           | 275     |                   |            | 2200               |            |
| <a href="#">2400-8M-20-NG</a> | \$105.00 | 0.7         | 300     |                   |            | 2400               |            | <a href="#">2400-8M-30-NG</a> | \$155.00 | 0.95        | 300     |                   |            | 2400               |            |
| <a href="#">2600-8M-20-NG</a> | \$114.00 | 0.75        | 325     |                   |            | 2600               |            | <a href="#">2600-8M-30-NG</a> | \$165.00 | 1.15        | 325     |                   |            | 2600               |            |
| <a href="#">2800-8M-20-NG</a> | \$122.00 | 0.85        | 350     |                   |            | 2800               |            | <a href="#">2800-8M-30-NG</a> | \$176.00 | 1.25        | 350     |                   |            | 2800               |            |
| <a href="#">3280-8M-20-NG</a> | \$139.00 | 0.8         | 410     |                   |            | 3280               |            | <a href="#">3280-8M-30-NG</a> | \$198.00 | 1.4         | 410     |                   |            | 3280               |            |
| <a href="#">3600-8M-20-NG</a> | \$155.00 | 1.15        | 450     |                   |            | 3600               |            | <a href="#">3600-8M-30-NG</a> | \$219.00 | 1.6         | 450     |                   |            | 3600               |            |
| <a href="#">4400-8M-20-NG</a> | \$183.00 | 1.3         | 550     |                   |            | 4400               |            | <a href="#">4400-8M-30-NG</a> | \$261.00 | 2           | 550     |                   |            | 4400               |            |

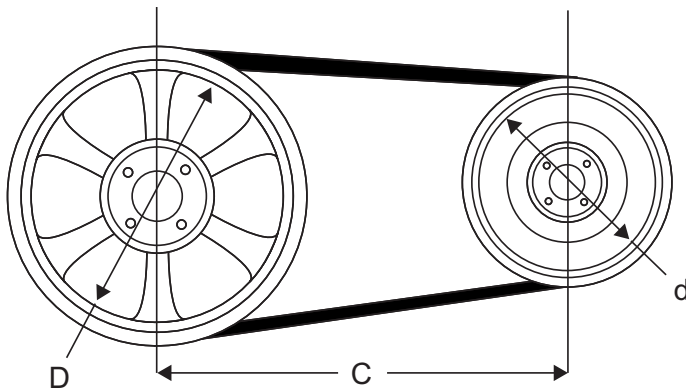


# Synchronous Drive Components

## Design Horsepower Chart



## Drive Component Selection Continued



### Belt Length Calculations

$$L = 2C + 1.57 (D + d) + \frac{(D-d)^2}{4C}$$

Where:

- L = Length of belt at pitch line (in inches)
- C = Center distance (in inches)
- D = Pitch diameter (in inches) of large sprocket
- d = Pitch diameter (in inches) of small sprocket