

Gates classical synchronous PowerGrip™ belt offers a maintenance-free and economical alternative to conventional drives such as chains and gears. Its application range extends from minimum drives (computer printers) to heavy-duty machinery (oil pumps, etc).

CONSTRUCTION

- Trapezoidal tooth form.
- Precisely formed and accurately spaced elastomeric teeth ensure correct engagement with the pulley grooves.
- Fibre glass tensile cords.
- Nylon fabric cover protects the tooth surfaces.
- Standard widths per belt pitch in mm and belt width code:
 - MXL: 3.2mm (code 012), 4.8mm (code 019), 6.4mm (code 025)
 - XL: 6.4mm (code 025), 7.9mm (code 031), 9.5mm (code 037)
 - L: 12.7mm (code 050), 19.1mm (code 075), 25.4mm (code 100)
 - H: 19.1mm (code 075), 25.4mm (code 100), 38.1mm (code 150), 50.8mm (code 200), 76.2mm (code 300)
 - XH/XXH: 50.8mm (code 200), 76.2mm (code 300), 101.6mm (code 400), 127mm (code 500)
- Other widths available on request.
- Belts conform to ISO19347:2015.

BENEFITS

- Power transmission of up to 150 kW and speeds of up to 10,000 rpm.
- Peripheral speed up to 80m/s.
- Positive slip-proof engagement.
- Constant angular velocity.
- Efficiencies up to 99%.
- Low bearing load because of freedom of high tension.
- Maintenance-free continuity of operation.
- Wide range of load capacities and speed ratios.
- Compact design.
- Economical operation.
- Temperature range: -30° C to +100° C.



Please refer to p. 205 for size list.

Sections and nominal dimensions

| Section | Pitch (inch) | Pitch (mm) | Tooth height (mm) | Belt height (mm) | Length range (pitch length - mm) |
|---------|----------------|------------|-------------------|------------------|----------------------------------|
| MXL | 2/25 (0.080") | 2.032 | 0.51 | 1.14 | 73 - 592 |
| XL | 1/5 (0.200") | 5.08 | 1.27 | 2.3 | 116 - 1956 |
| L | 3/8 (0.375") | 9.525 | 1.91 | 3.5 | 314 - 1676 |
| H | 1/2 (0.500") | 12.7 | 2.29 | 4.0 | 609 - 4318 |
| XH | 7/8 (0.875") | 22.225 | 6.36 | 11.4 | 1289 - 4445 |
| XXH | 1.1/4 (1.250") | 31.75 | 9.53 | 15.2 | 1778 - 4572 |

Ordering code

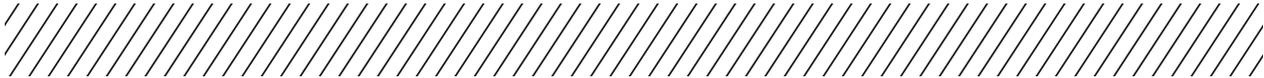
507-XH-200
 507 - Pitch length in 1/10 inch
 XH - Pitch 7/8" (22.225mm)
 200 - Belt width 2.0" (50.8mm)

288-MXL-019
 288 - Pitch length in 1/100 inch
 MXL - Pitch 0.08" (2.032mm)
 019 - Belt width 0.19" (4.8mm)

NOTE: For correct design and tensioning of the belt please use Gates DesignFlex™ Pro™ Drive design software, available on www.Gates.com.

Identification

Durable white marking indicating the belt type and belt dimensions.



MXL (CONTINUED)

| Description | Pitch length | nr of teeth | Stock | New size |
|-------------|--------------|-------------|-------|----------|
| | mm | | | |
| 1000-MXL | 254.00 | 125 | | |
| 1008-MXL | 256.03 | 126 | | |
| 1016-MXL | 258.06 | 127 | | |
| 1032-MXL | 262.13 | 129 | | |
| 1040-MXL | 264.16 | 130 | ● | |
| 1056-MXL | 268.22 | 132 | ● | |
| 1072-MXL | 272.29 | 134 | | |
| 1112-MXL | 282.45 | 139 | ● | |
| 1120-MXL | 284.48 | 140 | ● | |
| 1144-MXL | 290.58 | 143 | | |
| 1160-MXL | 294.64 | 145 | ● | |
| 1200-MXL | 304.80 | 150 | ● | |
| 1240-MXL | 314.96 | 155 | | |
| 1264-MXL | 321.06 | 158 | | |
| 1280-MXL | 325.12 | 160 | ● | |
| 1320-MXL | 335.28 | 165 | | |
| 1400-MXL | 355.60 | 175 | ● | |
| 1472-MXL | 373.89 | 184 | ● | |
| 1520-MXL | 386.08 | 190 | | |
| 1560-MXL | 396.24 | 195 | | |
| 1600-MXL | 406.40 | 200 | ● | |
| 1680-MXL | 426.72 | 210 | ● | |
| 1768-MXL | 449.07 | 221 | ● | |
| 1800-MXL | 457.20 | 225 | | |
| 1832-MXL | 465.33 | 229 | | |
| 1856-MXL | 471.42 | 232 | | |
| 1880-MXL | 477.52 | 235 | ● | |
| 1960-MXL | 497.84 | 245 | | |
| 1984-MXL | 503.94 | 248 | | |
| 1992-MXL | 505.97 | 249 | | |
| 2048-MXL | 520.19 | 256 | | |
| 2136-MXL | 542.54 | 267 | | |
| 2240-MXL | 568.96 | 280 | | |
| 2360-MXL | 599.44 | 295 | | |
| 2384-MXL | 605.54 | 298 | | |
| 2400-MXL | 609.60 | 300 | | |
| 2520-MXL | 640.08 | 315 | ● | |
| 2544-MXL | 646.18 | 318 | | |
| 2776-MXL | 705.10 | 347 | | |
| 2880-MXL | 731.52 | 360 | | |
| 2976-MXL | 755.90 | 372 | | |
| 3120-MXL | 792.48 | 390 | | |
| 3200-MXL | 812.80 | 400 | | |
| 3264-MXL | 829.06 | 408 | | |
| 3296-MXL | 837.18 | 412 | ● | |
| 3360-MXL | 853.44 | 420 | | |
| 3392-MXL | 861.57 | 424 | | |
| 3472-MXL | 881.89 | 434 | | |
| 3800-MXL | 965.20 | 475 | | |
| 3904-MXL | 991.62 | 488 | | |
| 3984-MXL | 1011.94 | 498 | | |
| 4000-MXL | 1016.00 | 500 | | |
| 4368-MXL | 1109.47 | 546 | | |
| 4736-MXL | 1202.94 | 592 | ● | |

| Standard widths* | |
|------------------|------|
| mm | code |
| 3.2 | 012 |
| 4.8 | 019 |
| 6.4 | 025 |

* Other widths available on request.