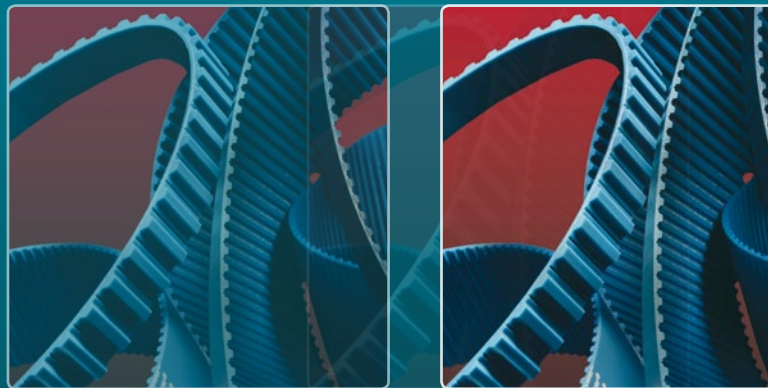


SYNCHRO-POWER®

Open-end and endless polyurethane synchronous belts

Gates Synchro-Power® polyurethane belts provide maximum power transmission combined with perfect tooth meshing and tight and accurate tolerances. Polyurethane is extremely wear and fatigue resistant and at the same time highly flexible. Gates Synchro-Power® belts are available as endless and as open-end belts in various sizes, constructions and tooth designs covering a wide range of loads, speeds and applications. Gates Synchro-Power® blue sleeves are the most recent addition to the PU range. They are available up to 200 mm width and can easily be recognised by their blue colour. This colour remains consistent over time through UV-stabilization.

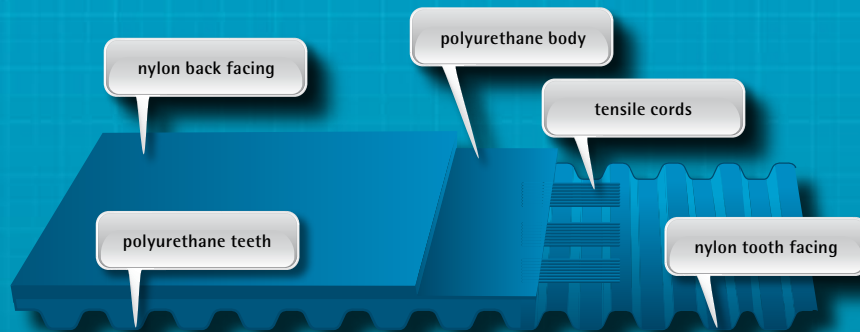
First class performance on both power transmission and linear applications



Open-end and endless polyurethane synchronous belts

Gates continually expands its range with new, technically advanced products. Gates products offer superior quality and innovative design features to meet your most challenging requirements now and in the future. The most advanced materials are used to manufacture our high precision synchronous belts.

In addition to endless belts, the Gates Synchro-Power® range comprises a comprehensive range of open-end belts which can be easily cut off to the required length. Synchro-Power® open-end belts are an excellent alternative to chains for reversing positioning drives and are especially suitable for linear movements.



Construction features

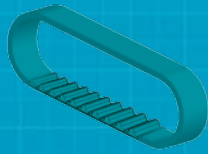
- The polyurethane body offers excellent abrasion resistance and therefore a very clean running system without accumulations of debris.
- The polyurethane teeth offer exceptional rigidity, which reduces tooth flexing and ensures more stability in your overall system.
- Standard Gates Synchro-Power® belts are supplied with steel tensile cords, but we can also supply aramid tensile cords, depending on the belt construction. The steel/aramid tensile cords are located parallel to the belt edges and exactly perpendicular to the belt teeth, and exert little or no side force.
- The optional nylon tooth and/or back facing reinforce the surface and protect it against wear.

Additional benefits

- Wide range of tooth profiles to meet all application requirements.
- Clean, quiet and smooth-running operation.
- No re-tensioning or lubrication required.
- Resistance to an extensive temperature range from -30°C to 70°C.
- Suited for use in harsh environments.
- Broad application range: automatic assembly operations, horizontal and vertical doors, printing applications, conveying equipment, textile industry, packaging machinery ... and many more

Open-end and endless polyurethane synchronous belts

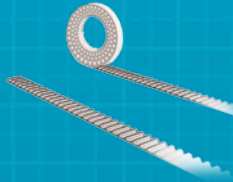
Synchro-Power® endless belts and sleeves



Sleeves are manufactured as truly endless synchronous belts with no joint.

- Pitch lengths up to 2,250 mm
- Application: Power Transmission

Synchro-Power® open-end belts



Rolls are manufactured as open-end extruded belts.

- Roll lengths up to 100 m
- Application: Linear drives

Sections and nominal dimensions

T series

| | Pitch mm | T mm | B mm |
|------|-------------|---------|---------|
| T2.5 | 2.5 | 0.7 | 1.3 |
| T5 | 5.0 | 1.2 | 2.2 |
| T10 | 10.0 | 2.5 | 4.5 |
| T20 | 20.0 | 5.0 | 8.0 |

HTD® series

| | Pitch mm | T mm | B mm |
|--------|-------------|---------|---------|
| HTD5M | 5.0 | 2.2 | 3.6 |
| HTD8M | 8.0 | 3.5 | 5.6 |
| HTD10M | 14.0 | 6.0 | 10.0 |

AT series

| | Pitch mm | T mm | B mm |
|------|-------------|---------|---------|
| AT5 | 5.0 | 1.2 | 2.7 |
| AT10 | 10.0 | 2.5 | 4.5 |
| AT20 | 20.0 | 5.0 | 8.0 |

STD series

| | Pitch mm | T mm | B mm |
|-------|-------------|---------|---------|
| STD5M | 5.0 | 1.9 | 3.3 |
| STD8M | 8.0 | 2.9 | 5.1 |

ATL series

| | Pitch mm | T mm | B mm |
|-------|-------------|---------|---------|
| ATL5 | 5.0 | 1.2 | 2.7 |
| ATL10 | 10.0 | 2.5 | 4.5 |
| ATL20 | 20.0 | 5.0 | 8.0 |

Trapezoidal series

| | Pitch mm | T mm | B mm |
|----|-------------|---------|---------|
| XL | 5.08 | 1.27 | 2.29 |
| L | 9.525 | 1.90 | 3.56 |
| H | 12.70 | 2.29 | 4.06 |
| XH | 22.225 | 6.35 | 11.18 |

DL series

| | Pitch mm | T mm | B mm |
|--------|-------------|---------|---------|
| DL-T5 | 5.0 | 1.2 | 3.4 |
| DL-T10 | 10.0 | 2.5 | 4.5 |

Flat series

| | B mm |
|-----|---------|
| F8 | 2.0 |
| F12 | 3.2 |

Open-end and endless polyurethane synchronous belts

Endless belts

T2.5

Pitch: 2.5 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| PU-T2.5 | 120 | 48 |
| PU-T2.5 | 145 | 58 |
| PU-T2.5 | 160 | 64 |
| PU-T2.5 | 177 | 71 |
| PU-T2.5 | 200 | 80 |
| PU-T2.5 | 230 | 92 |
| PU-T2.5 | 245 | 98 |
| PU-T2.5 | 265 | 106 |
| PU-T2.5 | 285 | 114 |
| PU-T2.5 | 305 | 122 |
| PU-T2.5 | 317 | 127 |
| PU-T2.5 | 330 | 132 |
| PU-T2.5 | 380 | 152 |
| PU-T2.5 | 420 | 168 |
| PU-T2.5 | 480 | 192 |
| PU-T2.5 | 500 | 200 |
| PU-T2.5 | 600 | 240 |
| PU-T2.5 | 620 | 248 |
| PU-T2.5 | 650 | 260 |
| PU-T2.5 | 780 | 312 |
| PU-T2.5 | 915 | 366 |
| PU-T2.5 | 950 | 380 |

Available in widths of 6 mm, 10 mm, 16 mm, 20 mm, 25 mm, 32 mm and 50 mm.

T5

Pitch: 5 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| PU-T5 | 150 | 30 |
| PU-T5 | 165 | 33 |
| PU-T5 | 180 | 36 |
| PU-T5 | 185 | 37 |
| PU-T5 | 200 | 40 |
| PU-T5 | 215 | 43 |
| PU-T5 | 220 | 44 |
| PU-T5 | 225 | 45 |
| PU-T5 | 245 | 49 |
| PU-T5 | 250 | 50 |
| PU-T5 | 255 | 51 |
| PU-T5 | 260 | 52 |
| PU-T5 | 270 | 54 |
| PU-T5 | 275 | 55 |
| PU-T5 | 280 | 56 |
| PU-T5 | 295 | 59 |
| PU-T5 | 305 | 61 |
| PU-T5 | 315 | 63 |
| PU-T5 | 330 | 66 |
| PU-T5 | 340 | 68 |
| PU-T5 | 350 | 70 |
| PU-T5 | 355 | 71 |
| PU-T5 | 365 | 73 |
| PU-T5 | 390 | 78 |
| PU-T5 | 400 | 80 |
| PU-T5 | 410 | 82 |
| PU-T5 | 420 | 84 |
| PU-T5 | 445 | 89 |
| PU-T5 | 450 | 90 |
| PU-T5 | 455 | 91 |
| PU-T5 | 475 | 95 |
| PU-T5 | 480 | 96 |
| PU-T5 | 500 | 100 |
| PU-T5 | 510 | 102 |
| PU-T5 | 525 | 105 |
| PU-T5 | 545 | 109 |
| PU-T5 | 550 | 110 |
| PU-T5 | 560 | 112 |
| PU-T5 | 575 | 115 |
| PU-T5 | 590 | 118 |
| PU-T5 | 610 | 122 |
| PU-T5 | 620 | 124 |
| PU-T5 | 630 | 126 |
| PU-T5 | 640 | 128 |
| PU-T5 | 650 | 130 |
| PU-T5 | 660 | 132 |
| PU-T5 | 675 | 135 |
| PU-T5 | 690 | 138 |
| PU-T5 | 700 | 140 |
| PU-T5 | 720 | 144 |
| PU-T5 | 725 | 145 |
| PU-T5 | 750 | 150 |
| PU-T5 | 780 | 156 |
| PU-T5 | 800 | 160 |
| PU-T5 | 815 | 163 |
| PU-T5 | 840 | 168 |
| PU-T5 | 850 | 170 |
| PU-T5 | 900 | 180 |
| PU-T5 | 940 | 188 |
| PU-T5 | 990 | 198 |
| PU-T5 | 1075 | 215 |
| PU-T5 | 1100 | 220 |
| PU-T5 | 1215 | 243 |
| PU-T5 | 1315 | 263 |
| PU-T5 | 1380 | 276 |

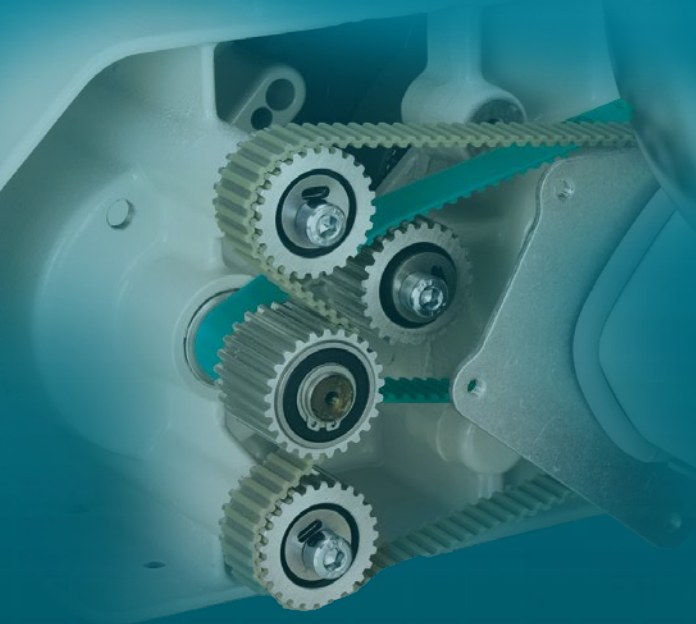
Available in widths of 6 mm, 10 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

T10

Pitch: 10 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| PU-T10 | 260 | 26 |
| PU-T10 | 370 | 37 |
| PU-T10 | 400 | 40 |
| PU-T10 | 410 | 41 |
| PU-T10 | 440 | 44 |
| PU-T10 | 450 | 45 |
| PU-T10 | 500 | 50 |
| PU-T10 | 530 | 53 |
| PU-T10 | 560 | 56 |
| PU-T10 | 600 | 60 |
| PU-T10 | 610 | 61 |
| PU-T10 | 630 | 63 |
| PU-T10 | 660 | 66 |
| PU-T10 | 690 | 69 |
| PU-T10 | 700 | 70 |
| PU-T10 | 720 | 72 |
| PU-T10 | 730 | 73 |
| PU-T10 | 750 | 75 |
| PU-T10 | 780 | 78 |
| PU-T10 | 810 | 81 |
| PU-T10 | 840 | 84 |
| PU-T10 | 880 | 88 |
| PU-T10 | 890 | 89 |
| PU-T10 | 900 | 90 |
| PU-T10 | 910 | 91 |
| PU-T10 | 920 | 92 |
| PU-T10 | 950 | 95 |
| PU-T10 | 960 | 96 |
| PU-T10 | 970 | 97 |
| PU-T10 | 980 | 98 |
| PU-T10 | 1000 | 100 |
| PU-T10 | 1010 | 101 |
| PU-T10 | 1080 | 108 |
| PU-T10 | 1100 | 110 |
| PU-T10 | 1110 | 111 |
| PU-T10 | 1140 | 114 |
| PU-T10 | 1150 | 115 |
| PU-T10 | 1210 | 121 |
| PU-T10 | 1240 | 124 |
| PU-T10 | 1250 | 125 |
| PU-T10 | 1300 | 130 |
| PU-T10 | 1320 | 132 |
| PU-T10 | 1350 | 135 |
| PU-T10 | 1390 | 139 |
| PU-T10 | 1400 | 140 |
| PU-T10 | 1420 | 142 |
| PU-T10 | 1450 | 145 |
| PU-T10 | 1460 | 146 |
| PU-T10 | 1500 | 150 |
| PU-T10 | 1560 | 156 |
| PU-T10 | 1600 | 160 |
| PU-T10 | 1610 | 161 |
| PU-T10 | 1700 | 170 |
| PU-T10 | 1750 | 175 |
| PU-T10 | 1780 | 178 |
| PU-T10 | 1880 | 188 |
| PU-T10 | 1960 | 196 |
| PU-T10 | 2250 | 225 |

Available in widths of 10 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.



Open-end and endless polyurethane synchronous belts

Endless belts

AT5

Pitch: 5 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| PU-AT5 | 225 | 45 |
| PU-AT5 | 255 | 51 |
| PU-AT5 | 275 | 55 |
| PU-AT5 | 280 | 56 |
| PU-AT5 | 300 | 60 |
| PU-AT5 | 340 | 68 |
| PU-AT5 | 375 | 75 |
| PU-AT5 | 390 | 78 |
| PU-AT5 | 420 | 84 |
| PU-AT5 | 455 | 91 |
| PU-AT5 | 500 | 100 |
| PU-AT5 | 545 | 109 |
| PU-AT5 | 600 | 120 |
| PU-AT5 | 610 | 122 |
| PU-AT5 | 620 | 124 |
| PU-AT5 | 630 | 126 |
| PU-AT5 | 660 | 132 |
| PU-AT5 | 720 | 144 |
| PU-AT5 | 750 | 150 |
| PU-AT5 | 780 | 156 |
| PU-AT5 | 825 | 165 |
| PU-AT5 | 975 | 195 |
| PU-AT5 | 1050 | 210 |
| PU-AT5 | 1125 | 225 |
| PU-AT5 | 1500 | 300 |

Available in widths of 6 mm, 10 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

AT10

Pitch: 10 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| PU-AT10 | 500 | 50 |
| PU-AT10 | 560 | 56 |
| PU-AT10 | 610 | 61 |
| PU-AT10 | 660 | 66 |
| PU-AT10 | 700 | 70 |
| PU-AT10 | 730 | 73 |
| PU-AT10 | 780 | 78 |
| PU-AT10 | 800 | 80 |
| PU-AT10 | 810 | 81 |
| PU-AT10 | 840 | 84 |
| PU-AT10 | 890 | 89 |
| PU-AT10 | 920 | 92 |
| PU-AT10 | 960 | 96 |
| PU-AT10 | 980 | 98 |
| PU-AT10 | 1010 | 101 |
| PU-AT10 | 1050 | 105 |
| PU-AT10 | 1080 | 108 |
| PU-AT10 | 1150 | 115 |
| PU-AT10 | 1210 | 121 |
| PU-AT10 | 1250 | 125 |
| PU-AT10 | 1320 | 132 |
| PU-AT10 | 1400 | 140 |
| PU-AT10 | 1500 | 150 |
| PU-AT10 | 1600 | 160 |
| PU-AT10 | 1700 | 170 |
| PU-AT10 | 1800 | 180 |

Available in widths of 12 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

DL-T5

Pitch: 5 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| DL-PU-T5 | 410 | 82 |
| DL-PU-T5 | 460 | 92 |
| DL-PU-T5 | 480 | 96 |
| DL-PU-T5 | 515 | 103 |
| DL-PU-T5 | 590 | 118 |
| DL-PU-T5 | 620 | 124 |
| DL-PU-T5 | 750 | 150 |
| DL-PU-T5 | 815 | 163 |
| DL-PU-T5 | 860 | 172 |
| DL-PU-T5 | 940 | 188 |
| DL-PU-T5 | 1100 | 220 |

Available in widths of 6 mm, 10 mm, 16 mm, 20 mm, 25 mm, 32 mm, 50 mm and 75 mm.

DL-T10

Pitch: 10 mm

| Description | Pitch length (mm) | Number of teeth |
|-------------|-------------------|-----------------|
| DL-PU-T10 | 260 | 26 |
| DL-PU-T10 | 530 | 53 |
| DL-PU-T10 | 630 | 63 |
| DL-PU-T10 | 660 | 66 |
| DL-PU-T10 | 720 | 72 |
| DL-PU-T10 | 840 | 84 |
| DL-PU-T10 | 980 | 98 |
| DL-PU-T10 | 1210 | 121 |
| DL-PU-T10 | 1240 | 124 |
| DL-PU-T10 | 1250 | 125 |
| DL-PU-T10 | 1320 | 132 |
| DL-PU-T10 | 1350 | 135 |
| DL-PU-T10 | 1420 | 142 |
| DL-PU-T10 | 1610 | 161 |
| DL-PU-T10 | 1880 | 188 |

Available in widths of 10 mm, 16 mm, 20 mm, 25 mm, 32 mm and 50 mm.

All dimensions are available from stock.

Endless Synchro-Power®

ordering code is composed as follows:

Example: T10-440-50

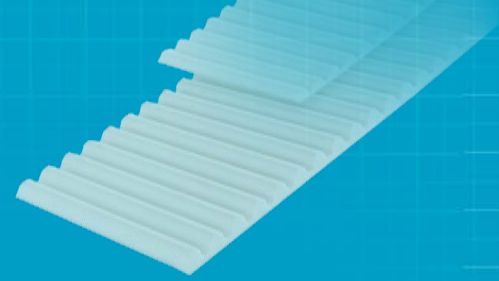
T10 - Pitch T10 10 mm

440 - Pitch length (mm)

50 - Belt width (mm)

Open-end and endless polyurethane synchronous belts

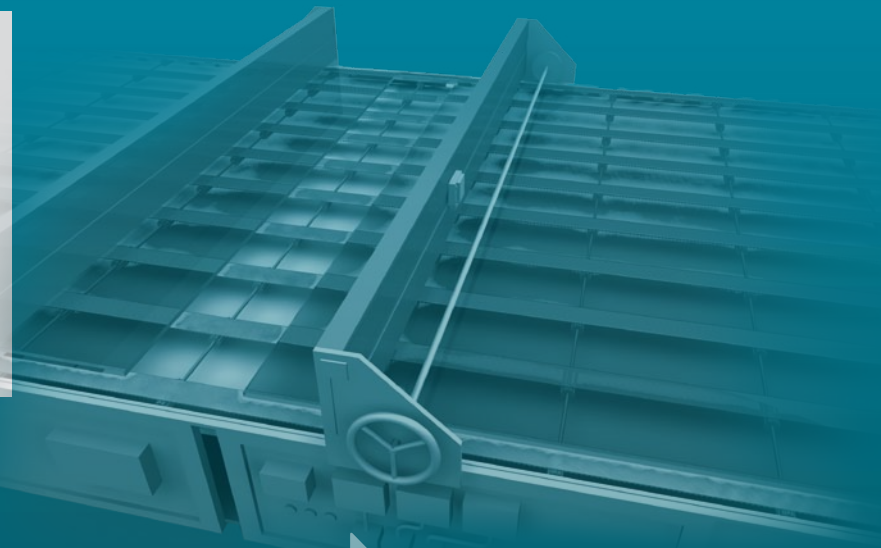
Open-end belts



| Pitch | Widths | Roll length (m) | No cords | Steel cords | | | | Aramid cords | | | |
|---------|---|-----------------|----------|-------------|----|----|-----|--------------|----|----|-----|
| | | | | STAND. | NB | NT | NTB | STAND. | NB | NT | NTB |
| T5 | 10, 16, 25, 32, 50, 75, 100 mm | 100 | | • | • | • | • | • | • | • | • |
| T10 | 10, 16, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | • | • | • | • | • | • | • |
| T10HB | 16, 20, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | | • | | • | | • | |
| T10HF | 10, 16, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | • | • | • | | | | |
| T10UM2 | 16, 20, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | | • | | • | | • | |
| T20 | 25, 32, 50, 75, 100, 150 mm | 50 | | • | • | • | • | • | | | |
| AT5 | 10, 16, 25, 32, 50, 75, 100 mm | 100 | | • | • | • | • | • | • | • | • |
| AT10 | 16, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | • | • | • | • | • | • | • |
| AT10HB | 16, 20, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | • | • | • | | | | |
| AT10UM2 | 16, 20, 25, 32, 50, 75, 100, 125, 150 mm | 100 | | • | | • | | | | | |
| AT20 | 25, 32, 50, 75, 100, 150 mm | 50 | | • | • | • | • | | | | |
| ATL5 | 10, 16, 25, 32, 50 mm | 100 | | • | • | • | • | | | | |
| ATL10 | 16, 25, 32, 50, 75, 100, 150 mm | 100 | | • | • | • | • | | | | |
| ATL10HF | 16, 25, 32, 50, 75, 100 mm | 100 | | • | • | • | • | | | | |
| ATL20 | 50, 75, 100, 150 mm | 50 | | • | • | • | • | | | | |
| HTD5M | 5, 10, 15, 20, 25, 30, 50, 85, 100, 150 mm | 100 | | • | • | • | • | • | • | • | • |
| HTD8M | 10, 15, 20, 25, 30, 50, 85, 100, 150 mm | 100 | | • | • | • | • | • | • | • | • |
| HTD14M | 25, 40, 55, 85, 115, 170 mm | 50 | | • | | • | • | | | | |
| STD5M | 5, 10, 15, 20, 25, 30, 50 mm | 100 | | • | • | • | • | | | | |
| STD8M | 10, 15, 20, 25, 30, 50, 85, 100 mm | 100 | | • | • | • | • | | | | |
| XL | 025, 031, 037, 050, 075, 100, 200 | 61 | | • | • | • | • | • | • | • | • |
| L | 037, 050, 075, 100, 150, 200, 400 | 61 | | • | • | • | • | • | • | • | • |
| H | 050, 075, 100, 150, 200, 300, 400, 500, 600 | 61 | | • | • | • | • | • | • | • | • |
| XH | 100, 150, 200, 300, 400, 600 | 61 | | • | • | • | • | | | | |
| F8 | 063, 075, 100, 150, 200, 300, 400 | 61 | • | • | • | • | • | | | | |
| F12 | 063, 075, 100, 150, 200, 300, 400 | 61 | • | • | • | • | • | | | | |

Please refer to the Gates Price List 2008 for specifics on stock availability.

- STAND. = Standard
- NB = Nylon back
- NT = Nylon teeth
- NTB = Nylon teeth and back
- HB = Heavy backing PU
- HF = High flexible steel cords
- UM2 = 2 mm of PU backing coating 85ShA
- ATL = AT profile with reinforced steel cords



www.gates.com/europe/pti

Your distributor:



Open-end Synchro-Power® ordering code is composed as follows:
 Example: PU-T10-50-100M-AR-NB
 PU - Polyurethane
 T10 - Pitch T10 10 mm
 50 - Belt width (mm)
 100M - Roll length (m)
 AR - Aramid tensile cords
 NB - Nylon back