

27 POWERGRIP

RUBBER SYNCHRONOUS BELT WITH CLASSICAL TOOTH PROFILE

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 sprocket grooves.
- **Fibre glass tensile** cords.
- **Nylon fabric** cover protects the tooth surfaces.
- Belts conform to ISO19347:2015.
- 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.

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.

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 Design Power software, available on www.gates.com

Identification

Durable white marking indicating the belt type and belt dimensions.

PLEASE REFER TO P. 216 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

