

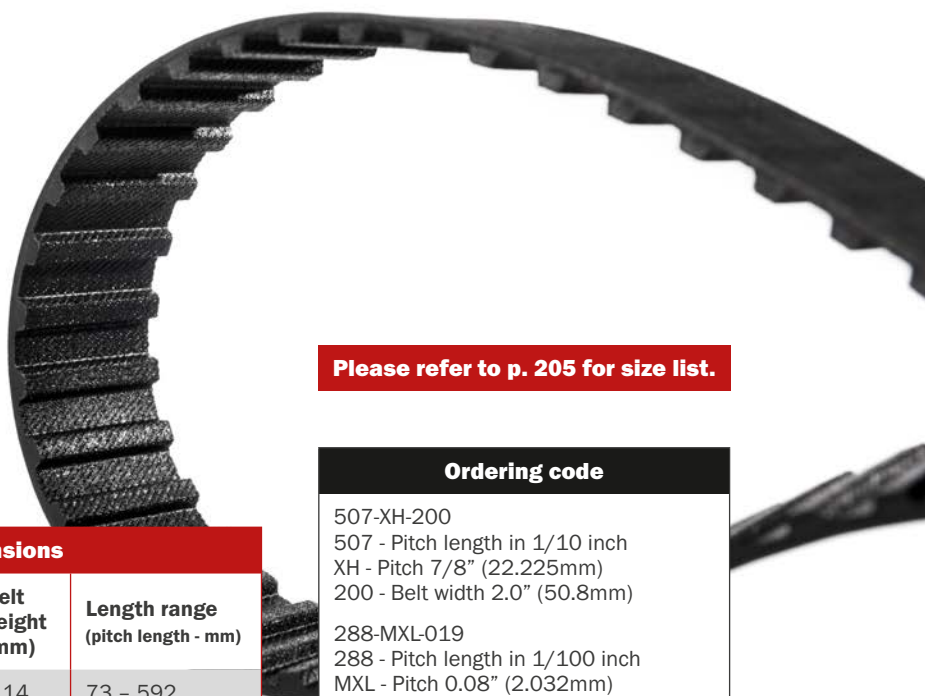
Gates classical synchronous PowerGrip™ belt offers a maintenance-free and economical alternative to conventional drives such as chains and gears. Its application range extends from minimum drives (computer printers) to heavy-duty machinery (oil pumps, etc).

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.

XL

Description	Pitch length	nr of teeth	Stock	New size
mm				
46-XL	116.84	23		
50-XL	127.00	25		
58-XL	147.32	29		
60-XL	152.40	30	●	
66-XL	167.64	33		
70-XL	177.80	35	●	
76-XL	193.04	38		
80-XL	203.20	40	●	
84-XL	213.36	42		
86-XL	218.44	43		
88-XL	223.52	44		
90-XL	228.60	45	●	
92-XL	233.68	46		
94-XL	238.76	47		
96-XL	243.84	48		
98-XL	248.92	49		
100-XL	254.00	50	●	
102-XL	259.08	51		
106-XL	269.24	53		
108-XL	274.32	54		
110-XL	279.40	55	●	
112-XL	284.48	56		
114-XL	289.56	57		
116-XL	294.64	58		
118-XL	299.72	59		
120-XL	304.80	60	●	
122-XL	309.88	61		
124-XL	314.96	62		
126-XL	320.04	63		
128-XL	325.12	64	●	
130-XL	330.20	65	●	
132-XL	335.28	66		
134-XL	340.36	67		
136-XL	345.44	68	●	
138-XL	350.52	69		
140-XL	355.60	70	●	
142-XL	360.68	71		
144-XL	365.76	72		
146-XL	370.84	73		
148-XL	375.92	74		
150-XL	381.00	75	●	
154-XL	391.16	77		
156-XL	396.24	78	●	
158-XL	401.32	79		
160-XL	406.40	80	●	
164-XL	416.56	82		
166-XL	421.64	83		
170-XL	431.80	85	●	
174-XL	441.96	87		
176-XL	447.04	88		
178-XL	452.12	89		
180-XL	457.20	90	●	

Standard widths*	
mm	code
6.4	025
7.9	031
9.5	037

* Other widths available on request.