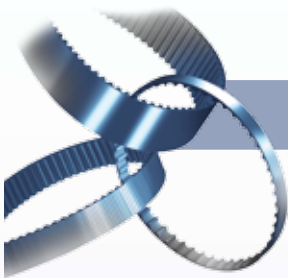




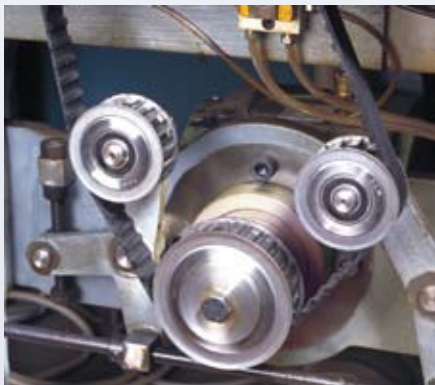
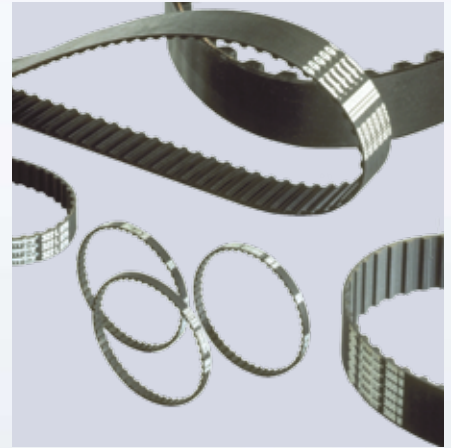
SYNCHRONOUS BELTS FOR A WIDE VARIETY OF APPLICATIONS



POWERGRIP® XL, L, H, XH & XXH

Classical synchronous belt

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



Identification

Three part number on the back of the belt indicating pitch length, tooth pitch and belt width in code.

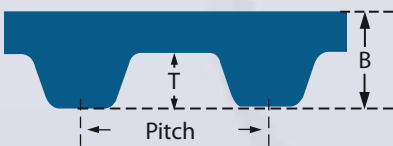
Construction

- Trapezoidal tooth form.
- Precisely formed and accurately spaced elastomeric teeth ensure correct engagement with the pulley grooves.
- Fibreglass tensile cords.
- Nylon fabric cover protects the tooth surfaces.
- Available in standard pitches according to ISO 5296: MXL, XL, L, H, XH, XXH. For MXL sizes and description, see chapter on PowerGrip® MXL on pages 54-55.

Advantages

- Power transmission of up to 150 kW and speeds of up to 10,000 rpm.
- Peripheral speed up to 80 m/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.

Sections and nominal dimensions



	Pitch inch	T mm	B mm
XL	1/5	1.27	2.3
L	3/8	1.91	3.5
H	1/2	2.29	4.0
XH	7/8	6.36	11.4
XXH	1.1/4	9.53	15.2

NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



XL

Pitch: 1/5" (5.080 mm)

Description	Pitch length mm	Number of teeth	Description	Pitch length mm	Number of teeth
46-XL	116.84	23	220-XL	558.80	110
50-XL	127.00	25	228-XL	579.12	114
58-XL	147.32	29	230-XL	584.20	115
60-XL	152.40	30	232-XL	589.28	116
66-XL	167.64	33	234-XL	594.36	117
70-XL	177.80	35	240-XL	609.60	120
76-XL	193.04	38	250-XL	635.00	125
78-XL	198.12	39	260-XL	660.40	130
80-XL	203.20	40	264-XL	670.56	132
84-XL	213.36	42	270-XL	685.80	135
86-XL	218.44	43	274-XL	695.96	137
88-XL	223.52	44	280-XL	711.20	140
90-XL	228.60	45	284-XL	721.36	142
92-XL	233.68	46	286-XL	726.44	143
94-XL	238.76	47	290-XL	736.60	145
96-XL	243.84	48	296-XL	751.84	148
98-XL	248.92	49	300-XL	762.00	150
100-XL	254.00	50	306-XL	777.24	153
102-XL	259.08	51	310-XL	787.40	155
106-XL	269.24	53	316-XL	802.64	158
108-XL	274.32	54	322-XL	817.88	161
110-XL	279.40	55	330-XL	838.20	165
112-XL	284.48	56	340-XL	863.60	170
114-XL	289.56	57	344-XL	873.76	172
116-XL	294.64	58	348-XL	883.92	174
118-XL	299.72	59	350-XL	889.00	175
120-XL	304.80	60	352-XL	894.08	176
122-XL	309.88	61	362-XL	919.48	181
124-XL	314.96	62	372-XL	944.88	186
126-XL	320.04	63	380-XL	965.20	190
128-XL	325.12	64	382-XL	970.28	191
130-XL	330.20	65	384-XL	975.36	192
132-XL	335.28	66	390-XL	990.60	195
134-XL	340.36	67	392-XL	995.68	196
136-XL	345.44	68	404-XL	1026.16	202
138-XL	350.52	69	412-XL	1046.48	206
140-XL	355.60	70	424-XL	1076.96	212
142-XL	360.68	71	432-XL	1097.28	216
144-XL	365.76	72	434-XL	1102.36	217
146-XL	370.84	73	438-XL	1112.52	219
148-XL	375.92	74	450-XL	1143.00	225
150-XL	381.00	75	460-XL	1168.40	230
154-XL	391.16	77	490-XL	1244.60	245
156-XL	396.24	78	506-XL	1285.24	253
158-XL	401.32	79	540-XL	1371.60	270
160-XL	406.40	80	554-XL	1407.16	277
164-XL	416.56	82	564-XL	1432.56	282
166-XL	421.64	83	580-XL	1473.20	290
170-XL	431.80	85	592-XL	1503.68	296
174-XL	441.96	87	672-XL	1706.88	336
176-XL	447.04	88	736-XL	1869.44	368
178-XL	452.12	89	770-XL	1955.80	385
180-XL	457.20	90			
182-XL	462.28	91			
184-XL	467.36	92			
188-XL	477.52	94			
190-XL	482.60	95			
192-XL	487.68	96			
194-XL	492.76	97			
196-XL	497.84	98			
198-XL	502.92	99			
200-XL	508.00	100			
202-XL	513.08	101			
204-XL	518.16	102			
208-XL	528.32	104			
210-XL	533.40	105			
212-XL	538.48	106			
214-XL	543.56	107			

Available in widths of 6.4 mm (code 025), 7.9 mm (code 031) and 9.5 mm (code 037).

L

Pitch: 3/8" (9.525 mm)

Description	Pitch length mm	Number of teeth
124-L	314.33	33
135-L	342.90	36
150-L	381.00	40
165-L	419.10	44
169-L	428.63	45
172-L	438.15	46
187-L	476.25	50
202-L	514.35	54
210-L	533.40	56
225-L	571.50	60
236-L	600.08	63
240-L	609.60	64
244-L	619.13	65
251-L	638.18	67
255-L	647.70	68
270-L	685.80	72
285-L	723.90	76
300-L	762.00	80
322-L	819.15	86
345-L	876.30	92
367-L	933.45	98
390-L	990.60	104
405-L	1028.70	108
420-L	1066.80	112
450-L	1143.00	120
461-L	1171.58	123
480-L	1219.20	128
510-L	1295.40	136
540-L	1371.60	144
600-L	1524.00	160
630-L	1600.20	168
660-L	1676.40	176

Available in widths of 12.7 mm (code 050), 19.1 mm (code 075) and 25.4 mm (code 100).



H		
Pitch: 1/2" (12.7 mm)		
Description	Pitch length mm	Number of teeth
240-H	609.60	48
255-H	647.70	51
270-H	685.80	54
300-H	762.00	60
310-H	787.40	62
330-H	838.20	66
360-H	914.40	72
370-H	939.80	74
375-H	952.50	75
390-H	990.60	78
420-H	1066.80	84
440-H	1117.60	88
450-H	1143.00	90
480-H	1219.20	96
485-H	1231.90	97
510-H	1295.40	102
520-H	1320.80	104
540-H	1371.60	108
570-H	1447.80	114
600-H	1524.00	120
615-H	1562.10	123
630-H	1600.20	126
660-H	1676.40	132
700-H	1778.00	140
750-H	1905.00	150
800-H	2032.00	160
850-H	2159.00	170
885-H	2247.90	177
900-H	2286.00	180
905-H	2298.70	181
1000-H	2540.00	200
1100-H	2794.00	220
1130-H	2870.20	226
1250-H	3175.00	250
1325-H	3365.50	265
1400-H	3556.00	280
1460-H	3708.40	292
1700-H	4318.00	340

Available in widths of 19.1 mm (code 075), 25.4 mm (code 100), 38.1 mm (code 150), 50.8 mm (code 200) and 76.2 mm (code 300).

XH		
Pitch: 7/8" (22.225 mm)		
Description	Pitch length mm	Number of teeth
507-XH	1289.05	58
560-XH	1422.40	64
630-XH	1600.20	72
700-XH	1778.00	80
770-XH	1955.80	88
787-XH	2000.25	90
831-XH	2111.38	95
840-XH	2133.60	96
980-XH	2489.20	112
1120-XH	2844.80	128
1260-XH	3200.40	144
1400-XH	3556.00	160
1540-XH	3911.60	176
1680-XH	4267.20	192
1750-XH	4445.00	200

Available in widths of 50.8 mm (code 200), 76.2 mm (code 300), 101.6 mm (code 400) and 127 mm (code 500).

XXH		
Pitch: 1.1/4" (31.75 mm)		
Description	Pitch length mm	Number of teeth
700-XXH	1778.00	56
800-XXH	2032.00	64
900-XXH	2286.00	72
1000-XXH	2540.00	80
1200-XXH	3048.00	96
1400-XXH	3556.00	112
1600-XXH	4064.00	128
1800-XXH	4572.00	144

Available in widths of 50.8 mm (code 200), 76.2 mm (code 300), 101.6 mm (code 400) and 127 mm (code 500).

PowerGrip® ordering code is composed as follows:

507-XH-200

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

Dimensions in bold are available from stock.