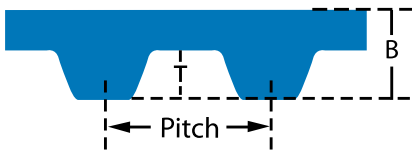


POWERGRIP® XL, L, H, XH & XXH

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).



Sections & nominal dimensions:			
	Pitch (inch)	T (mm)	B (mm)
XL	1/5 (5.080mm)	1.27	2.3
L	3/8 (9.525mm)	1.91	3.5
H	1/2 (12.7mm)	2.29	4.0
XH	7/8 (22.225mm)	6.35	11.4
XXH	1.1/4 (31.75mm)	9.53	15.2



Identification

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

Construction

- Trapezoidal tooth form.
- Precisely formed and accurately spaced elastomeric teeth ensure correct engagement in the pulley grooves.
- Fibreglass tensile cords.
- Tough nylon facing protects the tooth surfaces.
- Available in standard pitches according to ISO 5296: MXL, XL, L, H, XH and XXH.
- For MXL sizes and description, see pages 96.

Advantages

- Power transmission of up to 150kW 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%.
- Maintenance-free continuity of operation.
- Wide range of load capacities and speed ratios.
- Compact design.
- Economical operation.

PowerGrip® CTB ordering code is composed as follows:

507XH200	
507	- Pitch length (1/10 inch)
XH	- Pitch 7/8" (22.225mm)
200	- Belt width - 2.00" (50.8mm)

POWERGRIP® XL

XL		
Pitch: 1/5" (5.080mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
42 XL	106.68	21
46 XL	116.84	23
50 XL	127.00	25
54 XL	137.16	27
56 XL	142.24	28
58 XL	147.32	29
60 XL	152.40	30
62 XL	157.48	31
64 XL	162.56	32
66 XL	167.64	33
68 XL	172.72	34
70 XL	177.80	35
72 XL	182.88	36
74 XL	187.96	37
76 XL	193.04	38
78 XL	198.12	39
80 XL	203.20	40
82 XL	208.28	41
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

XL Cont.		
Pitch: 1/5" (5.080mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
150 XL	381.00	75
152 XL	386.08	76
154 XL	391.16	77
156 XL	396.24	78
158 XL	401.32	79
160 XL	406.40	80
162 XL	411.48	81
164 XL	416.56	82
166 XL	421.64	83
168 XL	426.72	84
170 XL	431.80	85
172 XL	436.88	86
174 XL	441.96	87
176 XL	447.04	88
178 XL	452.12	89
180 XL	457.20	90
182 XL	462.28	91
184 XL	467.36	92
186 XL	472.44	93
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
206 XL	523.24	103
208 XL	528.32	104
210 XL	533.40	105
212 XL	538.48	106
214 XL	543.56	107
218 XL	553.72	109
220 XL	558.80	110
222 XL	563.88	111
226 XL	574.04	113
228 XL	579.12	114
230 XL	584.20	115
232 XL	589.28	116
234 XL	594.36	117
236 XL	599.44	118
240 XL	609.60	120
244 XL	619.76	122
246 XL	624.84	123
250 XL	635.00	125
254 XL	645.16	127
258 XL	655.32	129
260 XL	660.40	130
262 XL	665.48	131

XL Cont.		
Pitch: 1/5" (5.080mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
264 XL	670.56	132
266 XL	675.64	133
268 XL	680.72	134
270 XL	685.80	135
274 XL	695.96	137
280 XL	711.20	140
284 XL	721.36	142
286 XL	726.44	143
290 XL	736.60	145
296 XL	751.84	148
300 XL	762.00	150
306 XL	777.24	153
310 XL	787.40	155
316 XL	802.64	158
320 XL	812.80	160
322 XL	817.88	161
330 XL	838.20	165
338 XL	858.52	169
340 XL	863.60	170
344 XL	873.76	172
348 XL	883.92	174
350 XL	889.00	175
352 XL	894.08	176
362 XL	919.48	181
370 XL	939.80	185
372 XL	944.88	186
380 XL	965.20	190
382 XL	970.28	191
384 XL	975.36	192
390 XL	990.60	195
392 XL	995.68	196
400 XL	1016.00	200
404 XL	1026.16	202
412 XL	1046.48	206
420 XL	1066.80	210
424 XL	1076.96	212
432 XL	1097.28	216
434 XL	1102.36	217
438 XL	1112.52	219
444 XL	1127.76	222
450 XL	1143.00	225
454 XL	1153.16	227
460 XL	1168.40	230
468 XL	1188.72	234
480 XL	1219.20	240
490 XL	1244.60	245
492 XL	1249.68	246
498 XL	1264.92	249
500 XL	1270.00	250
506 XL	1285.24	253

POWERGRIP® XL & L

XL Cont.		
Pitch: 1/5" (5.080mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
524 XL	1330.96	262
540 XL	1371.60	270
554 XL	1407.16	277
564 XL	1432.56	282
570 XL	1447.80	285
580 XL	1473.20	290
592 XL	1503.68	296
612 XL	1554.48	306
630 XL	1600.20	315
672 XL	1706.88	336
690 XL	1752.60	345
736 XL	1869.44	368
770 XL	1955.80	385
850 XL	2159.00	425

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

L		
Pitch: 3/8" (9.525mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
124 L	314.33	33
135 L	342.90	36
150 L	381.00	40
154 L	390.53	41
158 L	400.05	42
165 L	419.10	44
169 L	428.63	45
173 L	438.15	46
176 L	447.68	47
187 L	476.25	50
195 L	495.30	52
199 L	504.83	53
203 L	514.35	54
210 L	533.40	56
218 L	552.45	58
225 L	571.50	60
236 L	600.08	63
240 L	609.60	64
244 L	619.13	65
248 L	628.65	66
251 L	638.18	67
255 L	647.70	68
263 L	666.75	70
270 L	685.80	72
285 L	723.90	76
300 L	762.00	80
315 L	800.10	84
322 L	819.15	86
345 L	876.30	92
367 L	933.45	98
375 L	952.50	100
390 L	990.60	104
405 L	1028.70	108
420 L	1066.80	112
446 L	1133.48	119
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
566 L	1438.28	151
570 L	1447.80	152
581 L	1476.38	155
600 L	1524.00	160
630 L	1600.20	168
660 L	1676.40	176

L Cont.		
Pitch: 3/8" (9.525mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
720 L	1828.80	192
731 L	1857.38	195
817 L	2076.45	218
900 L	2286.00	240
915 L	2324.10	244
945 L	2400.30	252

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

POWERGRIP® H, XH & XXH

H		
Pitch: 1/2" (12.7mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
210 H	533.40	42
220 H	558.80	44
225 H	571.50	45
230 H	584.20	46
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
315 H	800.10	63
320 H	812.80	64
330 H	838.20	66
340 H	863.60	68
350 H	889.00	70
360 H	914.40	72
370 H	939.80	74
375 H	952.50	75
390 H	990.60	78
400 H	1016.00	80
410 H	1041.40	82
415 H	1054.10	83
420 H	1066.80	84
440 H	1117.60	88
445 H	1130.30	89
450 H	1143.00	90
455 H	1155.70	91
465 H	1181.10	93
480 H	1219.20	96
485 H	1231.90	97
490 H	1244.60	98
495 H	1257.30	99
510 H	1295.40	102
520 H	1320.80	104
525 H	1333.50	105
540 H	1371.60	108
555 H	1409.70	111
560 H	1422.40	112
570 H	1447.80	114
585 H	1485.90	117
600 H	1524.00	120
605 H	1536.70	121
615 H	1562.10	123
630 H	1600.20	126
645 H	1638.30	129
655 H	1663.70	131
660 H	1676.40	132
670 H	1701.80	134
700 H	1778.00	140
730 H	1854.20	146

H Cont.		
Pitch: 1/2" (12.7mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
750 H	1905.00	150
775 H	1968.50	155
780 H	1981.20	156
800 H	2032.00	160
810 H	2057.40	162
820 H	2082.80	164
840 H	2133.60	168
850 H	2159.00	170
885 H	2247.90	177
900 H	2286.00	180
905 H	2298.70	181
950 H	2413.00	190
960 H	2438.40	192
1000 H	2540.00	200
1100 H	2794.00	220
1130 H	2870.20	226
1140 H	2895.60	228
1180 H	2997.20	236
1250 H	3175.00	250
1325 H	3365.50	265
1350 H	3429.00	270
1365 H	3467.10	273
1400 H	3556.00	280
1460 H	3708.40	292
1510 H	3835.40	302
1550 H	3937.00	310
1645 H	4178.30	329
1680 H	4267.20	336
1700 H	4318.00	340
2090 H	5308.60	418
2100 H	5334.00	420
2120 H	5384.80	424
2330 H	5918.20	466

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

XH		
Pitch: 7/8" (22.225mm)		
Pitch & Length Designation	Pitch Length (mm)	No. 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
50.8mm (code 200),
76.2mm (code 300),
101.6mm (code 400),
and 127mm (code 500).

XXH		
Pitch: 1 1/4" (31.75mm)		
Pitch & Length Designation	Pitch Length (mm)	No. 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
50.8mm (code 200),
76.2mm (code 300),
101.6mm (code 400),
and 127mm (code 500).

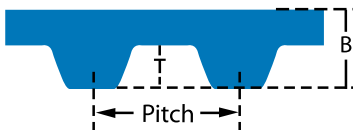
POWERGRIP® MXL

Classical synchronous belt



Gates PowerGrip® MXL belt is a classical synchronous belt with a pitch of 0.08" (2.032mm). It is recommended for applications where maximum synchronisation, small package and high speed are required.

Space-saving and highly stable, this belt is the ideal solution to precision drives such as office machines and computers.



Sections & nominal dimensions:			
	Pitch (inch)	T (mm)	B (mm)
MXL	0.08 (2.032mm)	0.51	1.14



Identification

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

Construction

- Trapezoidal tooth form.
- Elastomeric backing and teeth combine durability and light weight.
- Nylon facing protects and reinforces the tooth surface.
- Fibreglass cords provide length stability and flexibility.

Advantages

- Power transmission of up to 0.8kW and speeds of up to 20,000 rpm.
- MXL belts allow small pulley diameters (from 6mm diameter) with a maximum number of teeth in mesh.
- Highly suitable for stepper motors.
- Accurate positioning.
- Very stable.
- Economical operation.

PowerGrip® MXL ordering code is composed as follows:

288MXL019	
288	- Pitch length (1/100 inch)
MXL	- Pitch 0.08" (2.032mm)
019	- Belt width 0.19" (4.8mm)

POWERGRIP® MXL

MXL		
Pitch: 2/25" (2.032 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
288 MXL	73.15	36
296 MXL	75.18	37
320 MXL	81.28	40
336 MXL	85.34	42
360 MXL	91.44	45
376 MXL	95.50	47
400 MXL	101.60	50
424 MXL	107.70	53
432 MXL	109.73	54
440 MXL	111.76	55
448 MXL	113.79	56
456 MXL	115.82	57
464 MXL	117.86	58
472 MXL	119.89	59
480 MXL	121.92	60
488 MXL	123.95	61
504 MXL	128.02	63
512 MXL	130.05	64
520 MXL	132.08	65
536 MXL	136.14	67
544 MXL	138.18	68
552 MXL	140.21	69
560 MXL	142.24	70
568 MXL	144.27	71
576 MXL	146.30	72
584 MXL	148.34	73
592 MXL	150.37	74
600 MXL	152.40	75
608 MXL	154.43	76
616 MXL	156.46	77
632 MXL	160.53	79
640 MXL	162.56	80
648 MXL	164.59	81
656 MXL	166.62	82
664 MXL	168.66	83
672 MXL	170.69	84
680 MXL	172.72	85
696 MXL	176.78	87
704 MXL	178.82	88
720 MXL	182.88	90
736 MXL	186.94	92
752 MXL	191.01	94
760 MXL	193.04	95
776 MXL	197.10	97
800 MXL	203.20	100
808 MXL	205.23	101
816 MXL	207.26	102
824 MXL	209.30	103
840 MXL	213.36	105

MXL Cont.		
Pitch: 2/25" (2.032 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
848 MXL	215.39	106
856 MXL	217.42	107
864 MXL	219.46	108
872 MXL	221.49	109
880 MXL	223.52	110
896 MXL	227.58	112
912 MXL	231.65	114
944 MXL	239.78	118
960 MXL	243.84	120
976 MXL	247.90	122
984 MXL	249.94	123
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
1152 MXL	292.61	144
1160 MXL	294.64	145
1200 MXL	304.80	150
1224 MXL	310.90	153
1240 MXL	314.96	155
1264 MXL	321.06	158
1280 MXL	325.12	160
1320 MXL	335.28	165
1328 MXL	337.31	166
1360 MXL	345.44	170
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
1664 MXL	422.66	208
1680 MXL	426.72	210
1696 MXL	430.78	212
1768 MXL	449.07	221
1776 MXL	451.10	222
1800 MXL	457.20	225
1832 MXL	465.33	229
1840 MXL	467.36	230
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

MXL Cont.		
Pitch: 2/25" (2.032 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
2000 MXL	508.00	250
2048 MXL	520.19	256
2080 MXL	528.32	260
2120 MXL	538.48	265
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
2608 MXL	662.43	326
2776 MXL	705.10	347
2864 MXL	727.46	358
2880 MXL	731.52	360
2968 MXL	753.87	371
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
3448 MXL	875.79	431
3472 MXL	881.89	434
3480 MXL	883.92	435
3704 MXL	940.82	463
3800 MXL	965.20	475
3896 MXL	989.58	487
3904 MXL	991.62	488
3984 MXL	1011.94	498
4000 MXL	1016.00	500
4040 MXL	1026.16	505
4368 MXL	1109.47	546
4736 MXL	1202.94	592
4800 MXL	1219.20	600
4896 MXL	1243.58	612
5184 MXL	1316.74	648
5448 MXL	1383.79	681

Available in widths of
3.0mm (code 012),
4.8mm (code 019),
and 6.4mm (code 025).

NOTE: Most sizes are made to order, please contact Gates Customer Service for availability.

POWERGRIP® HTD® - 3M, 5M, 8M, 14M & 20M

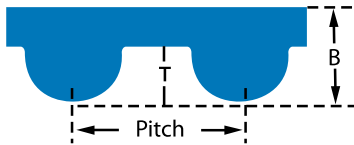
Synchronous belt with curvilinear tooth profile



The curvilinear PowerGrip® HTD® tooth geometry eliminates stress concentration at tooth roots and allows higher power capacity and longer life than classical pitch belts.

PowerGrip® HTD® 8M and 14M belts are used in high performance drives in the machine tool, paper and textile industries where durability and low maintenance are required.

PowerGrip® HTD® 3M and 5M belts are suitable for domestic appliances, office machines, electric hand tools and for applications in the processing and chemical industry.



Sections & nominal dimensions:			
	Pitch (mm)	T (mm)	B (mm)
3M	3.0	1.2	2.4
5M	5.0	2.1	3.8
8M	8.0	3.4	6.0
14M	14.0	6.1	10.0
20M	20.0	8.4	13.2



Identification

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

Construction

- Special curvilinear tooth form improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure correct positioning in the pulley grooves.
- Tough nylon facing protects the tooth surfaces.
- Tensile member provides the required strength combined with excellent flex life and high resistance to elongation.
- Durable elastomeric backing protects against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.

Advantages

- No slippage. PowerGrip® HTD® belt teeth mesh smoothly with pulley grooves, reducing speed variations.
- Wide speed range, 3M & 5M are designed for belt speeds up to 80m/s.
- Economical operation. No lubrication needed, no need for adjustment due to stretch and wear.
- High mechanical efficiency. The belt construction minimises heat buildup and since friction is not required to transmit the load, belt tensions are reduced.
- Long trouble-free service life and maintenance free.
- **All 14M PowerGrip® HTD® belts now meet the ISO 9563 static conductive standard.**

PowerGrip® HTD ordering code is composed as follows:

480-8M-20	
480	- Pitch length (mm)
8M	- Pitch 8mm
20	- Belt width (mm)



POWERGRIP® HTD® - 3M

Synchronous Belts

3M		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
87-3M	87	29
102-3M	102	34
105-3M	105	35
111-3M	111	37
123-3M	123	41
126-3M	126	42
129-3M	129	43
141-3M	141	47
144-3M	144	48
147-3M	147	49
150-3M	150	50
156-3M	156	52
159-3M	159	53
165-3M	165	55
168-3M	168	56
171-3M	171	57
174-3M	174	58
177-3M	177	59
180-3M	180	60
183-3M	183	61
189-3M	189	63
192-3M	192	65
195-3M	195	65
201-3M	201	67
204-3M	204	68
207-3M	207	69
210-3M	210	70
213-3M	213	71
216-3M	216	72
219-3M	219	73
222-3M	222	74
225-3M	225	75
228-3M	228	76
234-3M	234	78
237-3M	237	79
240-3M	240	80
246-3M	246	82
249-3M	249	83
252-3M	252	84
255-3M	255	85
258-3M	258	86
261-3M	261	87
264-3M	264	88
267-3M	267	89
276-3M	276	92
282-3M	282	94
285-3M	285	95
288-3M	288	96
291-3M	291	97
294-3M	294	98
297-3M	297	99
300-3M	300	100
306-3M	306	102
312-3M	312	104

3M Cont.		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
315-3M	315	105
318-3M	318	106
324-3M	324	108
330-3M	330	110
333-3M	333	111
336-3M	336	112
339-3M	339	113
342-3M	342	114
345-3M	345	115
357-3M	357	119
360-3M	360	120
363-3M	363	121
366-3M	366	122
369-3M	369	123
372-3M	372	124
381-3M	381	127
384-3M	384	128
387-3M	387	129
390-3M	390	130
396-3M	396	132
399-3M	399	133
405-3M	405	135
411-3M	411	137
417-3M	417	139
420-3M	420	140
426-3M	426	142
432-3M	432	144
435-3M	435	145
438-3M	438	146
444-3M	444	148
447-3M	447	149
459-3M	459	153
462-3M	462	154
468-3M	468	156
471-3M	471	157
474-3M	474	158
477-3M	477	159
480-3M	480	160
486-3M	486	162
489-3M	489	163
492-3M	492	164
501-3M	501	167
510-3M	510	170
513-3M	513	171
519-3M	519	173
522-3M	522	174
525-3M	525	175
528-3M	528	176
531-3M	531	177
537-3M	537	179
552-3M	552	184
558-3M	558	186
564-3M	564	188
570-3M	570	190

3M Cont.		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
573-3M	573	191
576-3M	576	192
582-3M	582	194
585-3M	585	195
591-3M	591	197
594-3M	594	198
597-3M	597	199
600-3M	600	200
606-3M	606	202
609-3M	609	203
612-3M	612	204
627-3M	627	209
633-3M	633	211
639-3M	639	213
645-3M	645	215
648-3M	648	216
654-3M	654	218
657-3M	657	219
663-3M	663	221
669-3M	669	223
672-3M	672	224
681-3M	681	227
684-3M	684	228
687-3M	687	229
696-3M	696	232
711-3M	711	237
720-3M	720	240
735-3M	735	245
738-3M	738	246
753-3M	753	251
795-3M	795	265
804-3M	804	268
822-3M	822	274
837-3M	837	279
843-3M	843	281
873-3M	873	291
882-3M	882	294
891-3M	891	297
900-3M	900	300
915-3M	915	305
945-3M	945	315
951-3M	951	317
981-3M	981	327
1002-3M	1002	334
1026-3M	1026	342
1035-3M	1035	345
1062-3M	1062	354
1071-3M	1071	357
1080-3M	1080	360
1125-3M	1125	375
1155-3M	1155	385
1176-3M	1176	392
1191-3M	1191	397
1245-3M	1245	415

POWERGRIP® HTD® - 3M & 5M

3M Cont.		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
1263-3M	1263	421
1500-3M	1500	500
1512-3M	1512	504
1530-3M	1530	510
1587-3M	1587	529
1863-3M	1863	621
1926-3M	1926	642
1956-3M	1956	652
2004-3M	2004	668

Available in widths of
6mm, 9mm and 15mm.

5M		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
120-5M	120	24
180-5M	180	36
200-5M	200	40
225-5M	225	45
240-5M	240	48
255-5M	255	51
260-5M	260	52
265-5M	265	53
270-5M	270	54
275-5M	275	55
280-5M	280	56
285-5M	285	57
395-5M	295	59
300-5M	300	60
305-5M	305	61
310-5M	310	62
320-5M	320	64
325-5M	325	65
330-5M	330	66
335-5M	335	67
340-5M	340	68
345-5M	345	69
350-5M	350	70
360-5M	360	72
365-5M	365	73
370-5M	370	74
375-5M	375	75
385-5M	385	77
400-5M	400	80
405-5M	405	81
415-5M	415	83
420-5M	420	84

5M Cont.		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
425-5M	425	85
450-5M	450	90
460-5M	460	92
475-5M	475	95
480-5M	480	96
495-5M	495	99
500-5M	500	100
510-5M	510	102
520-5M	520	104
525-5M	525	105
535-5M	535	107
550-5M	550	110
555-5M	555	111
560-5M	560	112
565-5M	565	113
575-5M	575	115
580-5M	580	116
585-5M	585	117
600-5M	600	120
610-5M	610	122
615-5M	615	123
635-5M	635	127
640-5M	640	128
645-5M	645	129
655-5M	655	131
665-5M	665	133
670-5M	670	134
680-5M	680	136
685-5M	685	137
695-5M	695	139
700-5M	700	140
710-5M	710	142
720-5M	720	144
740-5M	740	148
745-5M	745	149
750-5M	750	150
755-5M	755	151
765-5M	765	153
770-5M	770	154
775-5M	775	155
790-5M	790	158
800-5M	800	160
825-5M	825	165
830-5M	830	166
835-5M	835	167
850-5M	850	170
860-5M	860	172
870-5M	870	174
890-5M	890	178
900-5M	900	180
925-5M	925	185
935-5M	935	187

5M Cont.		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
940-5M	940	188
950-5M	950	190
965-5M	965	193
975-5M	975	195
980-5M	980	196
985-5M	985	197
1000-5M	1000	200
1025-5M	1025	205
1035-5M	1035	207
1050-5M	1050	210
1100-5M	1100	220
1115-5M	1115	223
1125-5M	1125	225
1135-5M	1135	227
1175-5M	1175	235
1195-5M	1195	239
1200-5M	1200	240
1225-5M	1225	245
1250-5M	1250	250
1270-5M	1270	254
1295-5M	1295	259
1350-5M	1350	270
1375-5M	1375	275
1380-5M	1380	276
1420-5M	1420	284
1575-5M	1575	315
1595-5M	1595	319
1635-5M	1635	327
1690-5M	1690	338
1720-5M	1720	344
1790-5M	1790	358
1800-5M	1800	360
1870-5M	1870	374
1895-5M	1895	379
1945-5M	1945	389
1980-5M	1980	396
2000-5M	2000	400
2100-5M	2100	420
2110-5M	2110	422
2250-5M	2250	450
2350-5M	2350	470
2525-5M	2525	505
2760-5M	2760	552
3120-5M	3120	624
3170-5M	3170	634
3430-5M	3430	686
3800-5M	3800	760

Available in widths of
9mm, 15mm and 25mm.

POWERGRIP® HTD® 8M, 14M & 20M

8M		
Pitch: 8mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
264-8M	264	33
320-8M	320	40
376-8M	376	47
384-8M	384	48
424-8M	424	53
480-8M	480	60
512-8M	512	64
520-8M	520	65
560-8M	560	70
576-8M	576	72
600-8M	600	75
608-8M	608	76
624-8M	624	78
640-8M	640	80
656-8M	656	82
720-8M	720	90
760-8M	760	95
776-8M	776	97
800-8M	800	100
856-8M	856	107
880-8M	880	110
912-8M	912	114
920-8M	920	115
960-8M	960	120
968-8M	968	121
976-8M	976	122
1000-8M	1000	125
1040-8M	1040	130
1064-8M	1064	133
1080-8M	1080	135
1120-8M	1120	140
1128-8M	1128	141
1160-8M	1160	145
1176-8M	1176	147
1200-8M	1200	150
1216-8M	1216	152
1224-8M	1224	153
1256-8M	1256	157
1264-8M	1264	158
1280-8M	1280	160
1304-8M	1304	163
1360-8M	1360	170
1424-8M	1424	178
1432-8M	1432	179
1440-8M	1440	180
1512-8M	1512	189
1520-8M	1520	190
1552-8M	1552	194

8M Cont.		
Pitch: 8mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
1584-8M	1584	198
1600-8M	1600	200
1696-8M	1696	212
1728-8M	1728	216
1760-8M	1760	220
1800-8M	1800	225
1896-8M	1896	237
1904-8M	1904	238
2000-8M	2000	250
2080-8M	2080	260
2200-8M	2200	275
2240-8M	2240	280
2272-8M	2272	284
2400-8M	2400	300
2504-8M	2504	313
2600-8M	2600	325
2800-8M	2800	350

Available in widths of:
20mm, 30mm, 50mm and 85mm.

14M		
Pitch: 14mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
784-14M	784	56
826-14M	826	59
924-14M	924	66
966-14M	966	69
1092-14M	1092	78
1190-14M	1190	85
1400-14M	1400	100
1610-14M	1610	115
1778-14M	1778	127
1890-14M	1890	135
2100-14M	2100	150
2310-14M	2310	165
2450-14M	2450	175
2590-14M	2590	185
2800-14M	2800	200
3150-14M	3150	225
3500-14M	3500	250
3850-14M	3850	275
4004-14M	4004	286
4326-14M	4326	309
4578-14M	4578	327

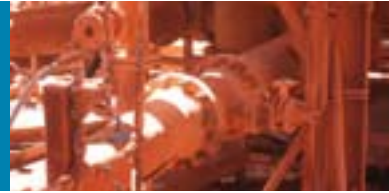
Available in widths of:
40mm, 55mm, 85mm, 115mm and 170mm

20M		
Pitch: 20mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
2000-20M	2000	100
2500-20M	2500	125
3400-20M	3400	170
3800-20M	3800	190
4200-20M	4200	210
4600-20M	4600	230
5000-20M	5000	250
5200-20M	5200	260
5400-20M	5400	270
5600-20M	5600	280
5800-20M	5800	290
6000-20M	6000	300
6200-20M	6200	310
6400-20M	6400	320
6600-20M	6600	330

Available in widths of:
115mm, 170mm, 230mm, 290mm and 340mm

POLY CHAIN® HTD® - 14M

Synchronous Belt in polyurethane



Gates original HTD® tooth profile combined with Poly Chain®. Poly Chain® HTD® allows the use of existing pulleys while increasing the capacity of the drive.

Identification

Three part numbers on the back of the belt indicating length, pitch and width.

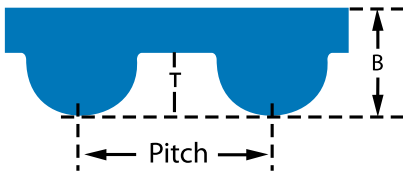
Construction

- Teeth and body are made of a lightweight polyurethane compound, specially blended for adhesion to the cords and fabric. This uniquely formulated polyurethane makes the belt tough and virtually immune to abrasion and chemicals.

- The aramid tensile cords provide extraordinary power-carrying capacity.
- Flex fatigue life of aramid is exceptional, and its high impact strength withstands shocks and surge loading.
- The fabric covering the teeth is highly resistant to oil, chemicals, pollutants, corrosion and abrasion. It is exceptionally durable and remains fully operational under extreme temperatures from -54°C up to +85°C.
- The fabric facing reduces friction with the pulley, thereby minimising temperature buildup.
- Easy rust-free wash down when used with Gates Stainless Steel or Nickel-Plated hardware.

Advantages

- Substantially increased power rating.
- High efficiency positive drive.
- Maintenance-free: no lubrication or re-tensioning needed.
- Savings in space, weight and money.
- Eliminates contamination.



Sections & nominal dimensions:			
	Pitch (mm)	T (mm)	B (mm)
14M	14.0	6.1	10.0

Poly Chain® HTD® ordering code is composed as follows:

PC1610-14M-115	
PC	- Poly Chain
1610	- Pitch length (mm)
14M	- Pitch (mm)
115	- Belt width (mm)



14M		
Pitch: 14mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
PC966-14M	966	69
PC1190-14M	1190	85
PC1400-14M	1400	100
PC1610-14M	1610	115
PC1778-14M	1778	127
PC1890-14M	1890	135
PC2100-14M	2100	150
PC2310-14M	2310	165

Available in widths of:

20mm, 30mm, 40mm, 55mm, 85mm, 115mm and 170mm.

POWERGRIP® GT3 - 8MGT & 14MGT

Synchronous belt with optimized GT tooth profile



PowerGrip® GT3 is made of a highly advanced combination of materials. This new, technically advanced belt covers the widest range of industrial applications. The PowerGrip® GT3 synchronous belt transmits up to 30% more power than previous generation belts. This entire belt range is designed to run on existing drives and does not require any adaptation of the system.

The 8MGT and 14MGT pitches are the optimum choice for high performance drives in the machine tool, paper, and textile industries where durability and low maintenance are required.

Ideally suited on ACHE (air cooled heat exchangers) for maximum efficiency and optimum air flow. 8MGT and 14MGT are static conductive to ISO 9563 and are the premium belt for use in petroleum and liquid natural gas plants. An easy upgrade to existing HTD systems without the need to change sprockets.

Synchronous Belts



Identification

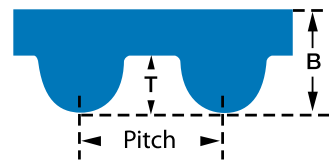
Three part numbers on the back of the belt indicating belt length, pitch and width.

Construction

- Technically advanced compound with fiberglass tensile cord, elastomeric teeth and backing and nylon facing.
- Elastomeric backing protects the cords from environmental pollution and frictional wear.
- Helically wound tensile member gives enormous strength, flex life, and elongation resistance.
- Low friction nylon facing protects the tooth surface against wear.
- Precision-formed and accurately spaced elastomeric teeth.
- Silicone-free, and therefore suitable for painting processes. Any risks of contamination are excluded, therefore making this belt ideal for painting installations in the automotive industry.

Advantages

- Substantially increased power ratings: up to 30% more than previous constructions.
- Reduced maintenance costs due to the belts longer service life.
- Compact, light-weight, and cost effective drives.
- High tooth jump resistance.
- No lubrication needed.
- Standard static conductive to ISO 9563 and can be used in hazardous explosive areas.
- **Compatible with HTD® sprockets.**



Sections & nominal dimensions:

	Pitch (mm)	T (mm)	B (mm)
8MGT	8.0	3.4	5.6
14MGT	14.0	6.0	10.0

PowerGrip® GT3 ordering code is composed as follows:

384-8MGT-20	
384	- Pitch length (mm)
8MGT	- Pitch 8mm
20	- Belt width (mm)

POWERGRIP® GT3 8MGT & 14MGT

8MGT		
Pitch: 8mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
384-8MGT	384	48
480-8MGT	480	60
560-8MGT	560	70
600-8MGT	600	75
640-8MGT	640	80
720-8MGT	720	90
800-8MGT	800	100
840-8MGT	840	105
880-8MGT	880	110
920-8MGT	920	115
960-8MGT	960	120
1040-8MGT	1040	130
1064-8MGT	1064	133
1120-8MGT	1120	140
1160-8MGT	1160	145
1200-8MGT	1200	150
1280-8MGT	1280	160
1440-8MGT	1440	180
1512-8MGT	1512	189
1584-8MGT	1584	198
1600-8MGT	1600	200
1760-8MGT	1760	220
1800-8MGT	1800	225
2000-8MGT	2000	250
2400-8MGT	2400	300
2600-8MGT	2600	325
2800-8MGT	2800	350
3048-8MGT	3048	381
3280-8MGT	3280	410
3600-8MGT	3600	450
4400-8MGT	4400	550

Available in widths of:
20mm, 30mm, 50mm and 85mm

Note: 8MGT & 14MGT PowerGrip GT3 belts are also designed to operate on HTD sprockets.

14MGT		
Pitch: 14mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
966-14MGT	966	69
1190-14MGT	1190	85
1400-14MGT	1400	100
1610-14MGT	1610	115
1750-14MGT	1750	125
1778-14MGT	1778	127
1890-14MGT	1890	135
2100-14MGT	2100	150
2310-14MGT	2310	165
2450-14MGT	2450	175
2590-14MGT	2590	185
2800-14MGT	2800	200
3150-14MGT	3150	225
3360-14MGT	3360	240
3500-14MGT	3500	250
3850-14MGT	3850	275
4326-14MGT	4326	309
4578-14MGT	4578	327
4956-14MGT	4956	354
5320-14MGT	5320	380
5740-14MGT	5740	410
6160-14MGT	6160	440
6860-14MGT	6860	490

Available in widths of:
40mm, 55mm, 85mm, 115mm and 170mm.

POWERGRIP® GT3 - 2MGT, 3MGT & 5MGT

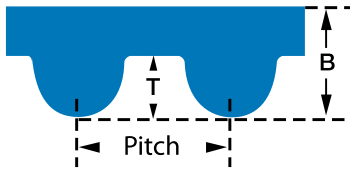
Synchronous belt with optimised GT tooth profile



PowerGrip® GT3 is Gates latest development in synchronous rubber belts. This new, technically advanced belt covers the widest range of industrial applications. The PowerGrip® GT3 synchronous belt transmits up to 30% more power than previous generation belts.

The 2MGT, 3MGT, and 5MGT pitches are ideal for compact drives on hand tools, business machines, domestic appliances, high precision servomotor drives and multi-axis applications.

Synchronous Belts



Sections & nominal dimensions:			
	Pitch (mm)	T (mm)	B (mm)
2MGT	2.0	0.71	1.52
3MGT	3.0	1.12	2.41
5MGT	5.0	1.92	3.81



Identification

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

Construction

- Technically advanced compound with fiberglass tensile cord, elastomeric teeth and backing and nylon facing.
- Elastomeric backing protects the cords from environmental pollution and frictional wear.
- Helically wound tensile member gives enormous strength, flex life, and elongation resistance.
- Low friction nylon facing protects the tooth surface against wear.
- Precision-formed and accurately spaced elastomeric teeth.
- 5MGT is silicone-free, and therefore ideal for painting processes. As contamination risks are excluded, it is the ideal belt for painting installations in the automotive industry.
- **Must be used on GT Sprockets.**
(Not compatible with HTD sprockets)

Advantages

- Substantially increased power ratings up to 30% more than previous constructions.
- Compact drives and less weight.
- Positioning accuracy.
- Improved tooth jump resistance.
- Reduced noise levels.
- Cost effective, long-lasting and virtually maintenance-free.

PowerGrip® GT3 ordering code is composed as follows:

285-5MGT-09	
285	- Pitch length (mm)
5MGT	- Pitch 5mm
09	- Belt width (mm)

NOTE: Minimum order quantities may apply, check with customer service.

POWERGRIP® GT3 - 2MGT

2MGT		
Pitch: 2mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
142-2MGT	142	71
152-2MGT	152	76
158-2MGT	158	79
164-2MGT	164	82
168-2MGT	168	84
172-2MGT	172	86
178-2MGT	178	89
180-2MGT	180	90
184-2MGT	184	92
186-2MGT	186	93
192-2MGT	192	96
194-2MGT	194	97
202-2MGT	202	101
208-2MGT	208	104
210-2MGT	210	105
212-2MGT	212	106
216-2MGT	216	108
220-2MGT	220	110
224-2MGT	224	112
232-2MGT	232	116
240-2MGT	240	120
242-2MGT	242	121
250-2MGT	250	125
252-2MGT	252	126
264-2MGT	264	132
274-2MGT	274	137
280-2MGT	280	140
284-2MGT	284	142
286-2MGT	286	143
288-2MGT	288	144
304-2MGT	304	152
310-2MGT	310	155
318-2MGT	318	159
320-2MGT	320	160
322-2MGT	322	161
330-2MGT	330	165
332-2MGT	332	166
336-2MGT	336	168
342-2MGT	342	171
356-2MGT	356	178
364-2MGT	364	182
370-2MGT	370	185
380-2MGT	380	190
386-2MGT	386	193
392-2MGT	392	196
400-2MGT	400	200
406-2MGT	406	203
412-2MGT	412	206

2MGT Cont.		
Pitch: 2mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
420-2MGT	420	210
428-2MGT	428	214
430-2MGT	430	215
436-2MGT	436	218
466-2MGT	466	233
474-2MGT	474	237
480-2MGT	480	240
488-2MGT	488	244
502-2MGT	502	251
516-2MGT	516	258
534-2MGT	534	267
544-2MGT	544	272
576-2MGT	576	288
580-2MGT	580	290
600-2MGT	600	300
660-2MGT	660	330
690-2MGT	690	345
816-2MGT	816	408
930-2MGT	930	465
1032-2MGT	1032	516
1164-2MGT	1164	582
1386-2MGT	1386	693
1700-2MGT	1700	850
1830-2MGT	1830	915

Available in widths of:
3mm, 6mm and 9mm.

POWERGRIP® GT3 - 3MGT & 5MGT

3MGT		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
150-3MGT	150	50
165-3MGT	165	55
174-3MGT	174	58
180-3MGT	180	60
186-3MGT	186	62
192-3MGT	192	64
195-3MGT	195	65
204-3MGT	204	68
210-3MGT	210	70
216-3MGT	216	72
225-3MGT	225	75
231-3MGT	231	77
234-3MGT	234	78
240-3MGT	240	80
243-3MGT	243	81
246-3MGT	246	82
252-3MGT	252	84
255-3MGT	255	85
267-3MGT	267	89
270-3MGT	270	90
276-3MGT	276	92
282-3MGT	282	94
285-3MGT	285	95
288-3MGT	288	96
294-3MGT	294	98
300-3MGT	300	100
303-3MGT	303	101
309-3MGT	309	103
312-3MGT	312	104
324-3MGT	324	108
330-3MGT	330	110
339-3MGT	339	113
354-3MGT	354	118
357-3MGT	357	119
360-3MGT	360	120
363-3MGT	363	121
375-3MGT	375	125
384-3MGT	384	128
387-3MGT	387	129
390-3MGT	390	130
393-3MGT	393	131
399-3MGT	399	133
408-3MGT	408	136
420-3MGT	420	140
426-3MGT	426	142
450-3MGT	450	150
456-3MGT	456	152
480-3MGT	480	160

3MGT Cont.		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
483-3MGT	483	161
489-3MGT	489	163
495-3MGT	495	165
501-3MGT	501	167
510-3MGT	510	170
513-3MGT	513	171
522-3MGT	522	174
537-3MGT	537	179
540-3MGT	540	180
552-3MGT	552	184
561-3MGT	561	187
564-3MGT	564	188
570-3MGT	570	190
582-3MGT	582	194
588-3MGT	588	196
600-3MGT	600	200
621-3MGT	621	207
630-3MGT	630	210
657-3MGT	657	219
750-3MGT	750	250
840-3MGT	840	280
849-3MGT	849	283
897-3MGT	897	299
1587-3MGT	1587	529
1692-3MGT	1692	564

Available in widths of:
6mm, 9mm and 15mm.

NOTE: For 5MGT sprocket range refer to page 129

Most sizes are made to order, please contact Gates Customer Service for availability.

5MGT		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
200-5MGT	200	40
225-5MGT	225	45
250-5MGT	250	50
265-5MGT	265	53
275-5MGT	275	55
280-5MGT	280	56
285-5MGT	285	57
300-5MGT	300	60
325-5MGT	325	65
330-5MGT	330	66
340-5MGT	340	68
350-5MGT	350	70
360-5MGT	360	72
375-5MGT	375	75
400-5MGT	400	80
410-5MGT	410	82
415-5MGT	415	83
425-5MGT	425	85
450-5MGT	450	90
460-5MGT	460	92
475-5MGT	475	95
490-5MGT	490	98
500-5MGT	500	100
510-5MGT	510	102
525-5MGT	525	105
530-5MGT	530	106
540-5MGT	540	108
550-5MGT	550	110
600-5MGT	600	120
625-5MGT	625	125
650-5MGT	650	130
665-5MGT	665	133
700-5MGT	700	140
750-5MGT	750	150
775-5MGT	775	155
800-5MGT	800	160
850-5MGT	850	170
860-5MGT	860	172
900-5MGT	900	180
950-5MGT	950	190
980-5MGT	980	196
1000-5MGT	1000	200
1050-5MGT	1050	210
1150-5MGT	1150	230
1270-5MGT	1270	254
1500-5MGT	1500	300
2100-5MGT	2100	420
2440-5MGT	2440	488

Available in widths of:
9mm, 15mm and 25mm.

POLY CHAIN® – 8MGT CARBON SHORT LENGTH & 5MGT Synchronous belt in polyurethane



POLY CHAIN® GT CARBON™ - SHORT LENGTH Synchronous belt with 8mm, GT tooth profile

This compact polyurethane synchronous belt opens up new opportunities in the design of conveyor drives and is an alternative to roller chain. Now with increased performance due to carbon fibre tensile cords.

Poly Chain® GT does not require lubrication or tensioning and is characterised by low noise levels even at high transport speeds. The special construction is highly resistant to aggressive influences such as dust, oil, and chemicals.

Poly Chain® GT Carbon – Short Length ordering code is composed as follows:

8MGT-352-12	
8MGT	- Pitch 8mm
352	- Pitch length (mm)
12	- Belt width (mm)

POLY CHAIN® GT - 5M Synchronous belt in polyurethane

Gates Poly Chain® GT – 5M uses the original construction which is designed for optimum performance on high torque, low speed drives. Poly Chain® GT – 5M belts are ideally suited for use in machine tool, roller chain, small conveyors and compact drives where space is a problem.

Identification

Three part numbers on the back of the belt indicating pitch code, pitch length and width.

Construction

- Teeth and body are made of a lightweight polyurethane compound, specially blended for adhesion to the cords and fabric. This uniquely formulated polyurethane makes the belt tough and virtually immune to abrasion and chemicals.
- The aramid tensile cords provide extraordinary power-carrying capacity.
- Flex fatigue life of aramid is exceptional, and its high impact strength withstands shocks and surge loading.
- Easy rust-free wash down when used with Gates Stainless Steel or Nickel-Plated hardware.

Advantages

- Substantially increased power rating.
- High efficiency positive drive.
- Maintenance-free: no lubrication or re-tensioning needed.
- Savings in space, weight and money.
- Eliminates contamination.

8MGT		
Pitch: 8mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
8MGT-248	248	32
8MGT-288	288	36
8MGT-352	352	44
8MGT-416	416	52
8MGT-456	456	57
8MGT-480	480	60
8MGT-544	544	68
8MGT-608	608	76

Available in widths of:
12mm, 21mm, and 36mm.

NOTE: For 8MGT Poly Chain GT sprocket range refer to page 5

Poly Chain® GT-5M ordering code is composed as follows:

5MGT-375-21	
5MGT	- Pitch 5mm
375	- Pitch length (mm)
21	- Belt width (mm)

5MGT		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
5MGT-300	300	60
5MGT-375	375	75
5MGT-425	425	85
5MGT-500	500	100
5MGT-535	535	107
5MGT-600	600	120
5MGT-635	635	127
5MGT-700	700	140
5MGT-815	815	163

Available in widths of:
9mm, 15mm and 25mm.

NOTE: For 5MGT sprocket range refer to page 129

TWIN POWER®

Double-sided synchronous belt



Due to its double and directly opposite teeth, Twin Power® synchronous belts ensure high loading capacity on contra-rotating drives and ensure smooth running and high flexibility.

Twin Power® synchronous belts are available with the classical trapezoidal but also with the unique GT tooth profile.

Gates Twin Power® GT2 belt has twice the power rating of Gates Twin Power® HTD® belts. It is characterised by extraordinary load-carrying power and high tooth jump resistance, thus ensuring a positive non-slip drive. In addition, it runs at very low noise.

Twin Power® is available in PowerGrip® GT2 3MR, 5MR, 8MGT and 14MGT, HTD® 3M and 5M and PowerGrip® XL, L and H pitches.

Identification

Three part number on one side of the belt indicating pitch, belt length and width.

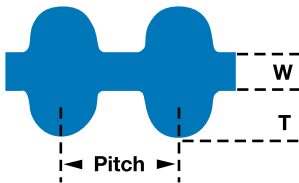
Construction

- Similar in construction to PowerGrip® classical synchronous and PowerGrip® GT2 belts: strong tensile member, precision-formed elastomeric teeth and body.
- Wear resistant nylon fabric on both tooth sides.

Advantages

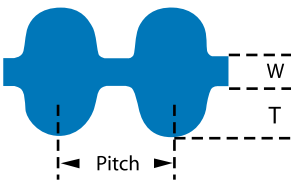
- High loading capacity.
- Twin Power® can transmit up to 100% of its maximum rated load from either side of the belt; alternatively, it can transmit a load on both sides – provided the sum of the loads does not exceed the maximum capacity.
- Non-slip positive drive.
- Running at low noise.
- Free of lubrication and maintenance.
- **Twin Power PowerGrip GT2 8MGT & 14MGT belts can be run on HTD sprockets.**
- **Twin Power PowerGrip GT2 3MR & 5MR belts must be used on GT sprockets (Not compatible with HTD sprockets)**

POWERGRIP GT 2



Sections & nominal dimensions:			
	Pitch (mm)	W (mm)	T (mm)
3MR	3	1.00	1.12
5MR	5	1.50	1.92
8MGT	8	2.00	3.40
14MGT	14	3.70	5.82

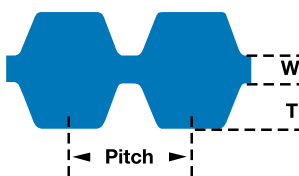
POWERGRIP HTD



Sections & nominal dimensions:			
	Pitch (mm)	W (mm)	T (mm)
3M	3	1.00	1.20
5M	5	1.50	2.10

Twin Power® PowerGrip® HTD in 8M, 14M made to order only. Check with customer service for availability.

POWERGRIP



Sections & nominal dimensions:			
	Pitch (inch)	W (mm)	T (mm)
XL	1/5	0.50	1.27
L	3/8	0.76	1.91
H	1/2	1.37	2.29

NOTE:

Twin Power® ordering code is on next page.



TWIN POWER® POWERGRIP® GT2

TP GT2 3MR		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP3MR-381	381	127
TP3MR-396	396	132
TP3MR-399	399	133
TP3MR-405	405	135
TP3MR-411	411	137
TP3MR-420	420	140
TP3MR-426	426	142
TP3MR-432	432	144
TP3MR-435	435	145
TP3MR-447	447	149
TP3MR-465	465	155
TP3MR-468	468	156
TP3MR-471	471	157
TP3MR-474	474	158
TP3MR-480	480	160
TP3MR-486	486	162
TP3MR-489	489	163
TP3MR-492	492	164
TP3MR-501	501	167
TP3MR-510	510	170
TP3MR-513	513	171
TP3MR-519	519	173
TP3MR-525	525	175
TP3MR-528	528	176
TP3MR-531	531	177
TP3MR-537	537	179
TP3MR-552	552	184
TP3MR-558	558	186
TP3MR-564	564	188
TP3MR-570	570	190
TP3MR-576	576	192
TP3MR-585	585	195
TP3MR-591	591	197
TP3MR-597	597	199
TP3MR-600	600	200
TP3MR-606	606	202
TP3MR-609	609	203
TP3MR-612	612	204
TP3MR-627	627	209
TP3MR-633	633	211
TP3MR-639	639	213
TP3MR-645	645	215
TP3MR-648	648	216
TP3MR-654	654	218
TP3MR-657	657	219
TP3MR-663	663	221
TP3MR-669	669	223
TP3MR-684	684	228

TP GT2 3MR Cont.		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP3MR-687	687	229
TP3MR-696	696	232
TP3MR-711	711	237
TP3MR-735	735	245
TP3MR-738	738	246
TP3MR-750	750	250
TP3MR-753	753	251
TP3MR-786	786	262
TP3MR-795	795	265
TP3MR-822	822	274
TP3MR-837	837	279
TP3MR-840	840	280
TP3MR-843	843	281
TP3MR-873	873	291
TP3MR-882	882	294
TP3MR-891	891	297
TP3MR-900	900	300
TP3MR-915	915	305
TP3MR-945	945	315
TP3MR-951	951	317
TP3MR-981	981	327
TP3MR-1002	1002	334
TP3MR-1026	1026	342
TP3MR-1035	1035	345
TP3MR-1050	1050	350
TP3MR-1056	1056	352
TP3MR-1062	1062	354
TP3MR-1080	1080	360
TP3MR-1125	1125	375
TP3MR-1155	1155	385
TP3MR-1191	1191	397
TP3MR-1263	1263	421
TP3MR-1335	1335	445
TP3MR-1500	1500	500
TP3MR-1512	1512	504
TP3MR-1536	1536	512
TP3MR-1587	1587	529
TP3MR-1956	1956	652
TP3MR-2004	2004	668
TP3MR-2061	2061	687

Available in widths of
**6mm (Code 06), 9mm (Code 09),
 and 15mm (Code 15).**

Twin Power® ordering code is composed as follows:

GT2-MGT	
TP4400-8MGT-55	
TP	- Twin Power
4400	- Pitch Length (mm)
8MGT	- Pitch 8mm
55	- Belt width (mm)
GT2-MR	
TP5MR-870-09	
TP	- Twin Power
5MR	- Pitch 5mm
870	- Pitch Length (mm)
09	- Belt width (mm)
HTD	
TP1120-8M-20	
TP	- Twin Power
1120	- Pitch Length (mm)
8M	- Pitch 8m
20	- Belt width (mm)
CLASSICAL	
TP180XL031	
TP	- Twin Power
180	- Pitch length (1/10 inch)
XL	- Pitch 1/5" (5.080mm)
031	- Belt Width 0.31" (7.9mm)

TWIN POWER® POWERGRIP® GT2

TP GT2 5MR

Pitch: 5mm

Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP5MR-400	400	80
TP5MR-425	425	85
TP5MR-450	450	90
TP5MR-500	500	100
TP5MR-535	535	107
TP5MR-565	565	113
TP5MR-575	575	115
TP5MR-580	580	116
TP5MR-600	600	120
TP5MR-625	625	125
TP5MR-650	650	130
TP5MR-700	700	140
TP5MR-710	710	142
TP5MR-740	740	148
TP5MR-745	745	149
TP5MR-750	750	150
TP5MR-765	765	153
TP5MR-790	790	158
TP5MR-800	800	160
TP5MR-815	815	163
TP5MR-830	830	166
TP5MR-835	835	167
TP5MR-850	850	170
TP5MR-870	870	174
TP5MR-890	890	178
TP5MR-900	900	180
TP5MR-925	925	185
TP5MR-950	950	190
TP5MR-975	975	195
TP5MR-985	985	197
TP5MR-1000	1000	200
TP5MR-1050	1050	210
TP5MR-1115	1115	223
TP5MR-1125	1125	225
TP5MR-1150	1150	230
TP5MR-1195	1195	239
TP5MR-1250	1250	250
TP5MR-1270	1270	254
TP5MR-1295	1295	259
TP5MR-1300	1300	260
TP5MR-1375	1375	275
TP5MR-1420	1420	284
TP5MR-1450	1450	290
TP5MR-1575	1575	315
TP5MR-1595	1595	319
TP5MR-1635	1635	327
TP5MR-1690	1690	338
TP5MR-1790	1790	358
TP5MR-1800	1800	360
TP5MR-1895	1895	379
TP5MR-1945	1945	389
TP5MR-2000	2000	400

TP GT2 5MR Cont.

Pitch: 5mm

Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP5MR-2110	2110	422
TP5MR-2250	2250	450
TP5MR-2525	2525	505
TP5MR-2760	2760	552
TP5MR-3120	3120	624
TP5MR-3170	3170	634
TP5MR-3200	3200	640
TP5MR-3430	3430	686
TP5MR-3800	3800	760

Available in widths of
9mm (Code 09), 15mm (Code 15)
and 25mm (Code 25).

TP GT2 8MGT

Pitch: 8mm

Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP480-8MGT	480	60
TP560-8MGT	560	70
TP600-8MGT	600	75
TP640-8MGT	640	80
TP720-8MGT	720	90
TP800-8MGT	800	100
TP840-8MGT	840	105
TP880-8MGT	880	110
TP920-8MGT	920	115
TP960-8MGT	960	120
TP1040-8MGT	1040	130
TP1064-8MGT	1064	133
TP1120-8MGT	1120	140
TP1160-8MGT	1160	145
TP1200-8MGT	1200	150
TP1224-8MGT	1224	153
TP1280-8MGT	1280	160
TP1440-8MGT	1440	180
TP1512-8MGT	1512	189
TP1600-8MGT	1600	200
TP1760-8MGT	1760	220
TP1800-8MGT	1800	225
TP2000-8MGT	2000	250
TP2200-8MGT	2200	275
TP2400-8MGT	2400	300
TP2600-8MGT	2600	325
TP2800-8MGT	2800	350
TP3048-8MGT	3048	381
TP3280-8MGT	3280	410
TP3600-8MGT	3600	450
TP4400-8MGT	4400	550
TP4960-8MGT	4960	620

TP GT2 14MGT

Pitch: 14mm

Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP966-14MGT	966	69
TP1190-14MGT	1190	85
TP1400-14MGT	1400	100
TP1610-14MGT	1610	115
TP1778-14MGT	1778	127
TP1890-14MGT	1890	135
TP2100-14MGT	2100	150
TP2310-14MGT	2310	165
TP2450-14MGT	2450	175
TP2590-14MGT	2590	185
TP2800-14MGT	2800	200
TP3150-14MGT	3150	225
TP3360-14MGT	3360	240
TP3500-14MGT	3500	250
TP3850-14MGT	3850	275
TP4326-14MGT	4326	309
TP4578-14MGT	4578	327
TP4956-14MGT	4956	354
TP5320-14MGT	5320	380
TP5740-14MGT	5740	410
TP6160-14MGT	6160	440
TP6860-14MGT	6860	490

Available in widths of
40mm, 55mm, 85mm, 115mm
and 170mm

Available in widths of
20mm, 30mm, 50mm and 85mm.

TWIN POWER® POWERGRIP® HTD

TP HTD 3M		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP381-3M	381	127
TP396-3M	396	132
TP399-3M	399	133
TP405-3M	405	135
TP411-3M	411	137
TP417-3M	417	139
TP420-3M	420	140
TP426-3M	426	142
TP432-3M	432	144
TP435-3M	435	145
TP438-3M	438	146
TP447-3M	447	149
TP468-3M	468	156
TP471-3M	471	157
TP474-3M	474	158
TP480-3M	480	160
TP486-3M	486	162
TP489-3M	489	163
TP492-3M	492	164
TP501-3M	501	167
TP510-3M	510	170
TP513-3M	513	171
TP525-3M	525	175
TP528-3M	528	176
TP531-3M	531	177
TP537-3M	537	179
TP558-3M	558	186
TP564-3M	564	188
TP570-3M	570	190
TP576-3M	576	192
TP585-3M	585	195
TP591-3M	591	197
TP597-3M	597	199
TP600-3M	600	200
TP606-3M	606	202
TP609-3M	609	203
TP612-3M	612	204
TP627-3M	627	209
TP633-3M	633	211
TP639-3M	639	213
TP645-3M	645	215
TP648-3M	648	216
TP654-3M	654	218
TP657-3M	657	219
TP663-3M	663	221
TP669-3M	669	223
TP684-3M	684	228
TP687-3M	687	229

TP HTD 3M Cont.		
Pitch: 3mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP696 3M	696	232
TP711-3M	711	237
TP735-3M	735	245
TP738-3M	738	246
TP753-3M	753	251
TP795-3M	795	265
TP822-3M	822	274
TP837-3M	837	279
TP843-3M	843	281
TP873-3M	873	291
TP882-3M	882	294
TP891-3M	891	297
TP900-3M	900	300
TP915-3M	915	305
TP945-3M	945	315
TP951-3M	951	317
TP981-3M	981	327
TP1002-3M	1002	334
TP1026-3M	1026	342
TP1035-3M	1035	345
TP1062-3M	1062	354
TP1125-3M	1125	375
TP1155-3M	1155	385
TP1191-3M	1191	397
TP1263-3M	1263	421
TP1500-3M	1500	500
TP1512-3M	1512	504
TP1587-3M	1587	529
TP1956-3M	1956	652
TP2004-3M	2004	668

Available in widths of
6mm (Code 06), 9mm (Code 09)
and 15mm (Code 15).

TWIN POWER® POWERGRIP® HTD

TP HTD 5M

Pitch: 5mm

Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP400-5M	400	80
TP415-5M	415	83
TP425-5M	425	85
TP450-5M	450	90
TP460-5M	460	92
TP475-5M	475	95
TP480-5M	480	96
TP495-5M	495	99
TP500-5M	500	100
TP520-5M	520	104
TP535-5M	535	107
TP555-5M	555	111
TP565-5M	565	113
TP580-5M	580	116
TP585-5M	585	117
TP600-5M	600	120
TP615-5M	615	123
TP635-5M	635	127
TP640-5M	640	128
TP655-5M	655	131
TP665-5M	665	133
TP670-5M	670	134
TP680-5M	680	136
TP685-5M	685	137
TP695-5M	695	139
TP700-5M	700	140
TP710-5M	710	142
TP740-5M	740	148
TP745-5M	745	149
TP755-5M	755	151
TP765-5M	765	153
TP790-5M	790	158
TP800-5M	800	160
TP830-5M	830	166
TP835-5M	835	167
TP850-5M	850	170
TP870-5M	870	174
TP890-5M	890	178
TP925-5M	925	185
TP935-5M	935	187
TP950-5M	950	190
TP975-5M	975	195
TP985-5M	985	197
TP1000-5M	1000	200
TP1050-5M	1050	210
TP1100-5M	1100	220
TP1115-5M	1115	223
TP1125-5M	1125	225

TP HTD 5M Cont.

Pitch: 5mm

Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP1195-5M	1195	239
TP1200-5M	1200	240
TP1250-5M	1250	250
TP1270-5M	1270	254
TP1295-5M	1295	259
TP1375-5M	1375	275
TP1420-5M	1420	284
TP1575-5M	1575	315
TP1595-5M	1595	319
TP1635-5M	1635	327
TP1690-5M	1690	338
TP1790-5M	1790	358
TP1800-5M	1800	360
TP1870-5M	1870	374
TP1895-5M	1895	379
TP1945-5M	1945	389
TP1980-5M	1980	396
TP2000-5M	2000	400
TP2100-5M	2100	420
TP2110-5M	2110	422
TP2250-5M	2250	450
TP2350-5M	2350	470
TP2525-5M	2525	505
TP2760-5M	2760	552
TP3120-5M	3120	624
TP3170-5M	3170	634
TP3430-5M	3430	686
TP3800-5M	3800	760

Available in widths of
9mm (Code 09), 15mm (Code 15)
and 25mm (Code 25).

TWIN POWER® POWERGRIP®

TP XL		
Pitch: 1/5" (5.080 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP 126 XL	320.04	63
TP 128 XL	325.12	64
TP 130 XL	330.20	65
TP 132 XL	335.28	66
TP 134 XL	340.36	67
TP 136 XL	345.44	68
TP 138 XL	350.52	69
TP 140 XL	355.60	70
TP 142 XL	360.68	71
TP 144 XL	365.76	72
TP 146 XL	370.84	73
TP 148 XL	375.92	74
TP 150 XL	381.00	75
TP 152 XL	386.08	76
TP 156 XL	396.24	78
TP 158 XL	401.32	79
TP 160 XL	406.40	80
TP 162 XL	411.48	81
TP 166 XL	421.64	83
TP 168 XL	426.72	84
TP 170 XL	431.80	85
TP 172 XL	436.88	86
TP 174 XL	441.96	87
TP 176 XL	447.04	88
TP 178 XL	452.12	89
TP 180 XL	457.20	90
TP 182 XL	462.28	91
TP 184 XL	467.36	92
TP 186 XL	472.44	93
TP 188 XL	477.52	94
TP 190 XL	482.60	95
TP 192 XL	487.68	96
TP 200 XL	508.00	100
TP 202 XL	513.08	101
TP 204 XL	518.16	102
TP 206 XL	523.24	103
TP 210 XL	533.40	105
TP 212 XL	538.48	106
TP 214 XL	543.56	107
TP 218 XL	553.72	109
TP 220 XL	558.80	110
TP 222 XL	563.88	111
TP 226 XL	574.04	113
TP 228 XL	579.12	114
TP 230 XL	584.20	115
TP 232 XL	589.28	116
TP 234 XL	594.36	117
TP 236 XL	599.44	118

TP XL Cont.		
Pitch: 1/5" (5.080 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP 240 XL	609.60	120
TP 244 XL	619.76	122
TP 246 XL	624.84	123
TP 250 XL	635.00	125
TP 254 XL	645.16	127
TP 258 XL	655.32	129
TP 260 XL	660.40	130
TP 262 XL	665.48	131
TP 264 XL	670.56	132
TP 266 XL	675.64	133
TP 268 XL	680.72	134
TP 270 XL	685.80	135
TP 274 XL	695.96	137
TP 280 XL	711.20	140
TP 286 XL	726.44	143
TP 290 XL	736.60	145
TP 296 XL	751.84	148
TP 300 XL	762.00	150
TP 306 XL	777.24	153
TP 310 XL	787.40	155
TP 316 XL	802.64	158
TP 320 XL	812.80	160
TP 322 XL	817.88	161
TP 330 XL	838.20	165
TP 338 XL	858.52	169
TP 340 XL	863.60	170
TP 344 XL	873.76	172
TP 348 XL	883.92	174
TP 350 XL	889.00	175
TP 352 XL	894.08	176
TP 362 XL	919.48	181
TP 370 XL	939.80	185
TP 380 XL	965.20	190
TP 384 XL	975.36	192
TP 390 XL	990.60	195
TP 400 XL	1016.00	200
TP 412 XL	1046.48	206
TP 420 XL	1066.80	210
TP 424 XL	1076.96	212
TP 432 XL	1097.28	216
TP 438 XL	1112.52	219
TP 444 XL	1127.76	222
TP 450 XL	1143.00	225
TP 454 XL	1153.16	227
TP 460 XL	1168.40	230
TP 468 XL	1188.72	234
TP 480 XL	1219.20	240
TP 492 XL	1249.68	246

TP XL Cont.		
Pitch: 1/5" (5.080 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP 498 XL	1264.92	249
TP 500 XL	1270.00	250
TP 506 XL	1285.24	253
TP 524 XL	1330.96	262
TP 570 XL	1447.80	285
TP 580 XL	1473.20	290
TP 592 XL	1503.68	296
TP 612 XL	1554.48	306
TP 630 XL	1600.20	315
TP 672 XL	1706.88	336
TP 690 XL	1752.60	345
TP 770 XL	1955.80	385
TP 850 XL	2159.00	425

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

Synchronous Belts

TWIN POWER® POWERGRIP®

TP L		
Pitch: 3/8" (9.525 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP 150 L	381.00	40
TP 154 L	390.53	41
TP 158 L	400.05	42
TP 165 L	419.10	44
TP 173 L	438.15	46
TP 176 L	447.68	47
TP 187 L	476.25	50
TP 195 L	495.30	52
TP 199 L	504.83	53
TP 202 L	514.35	54
TP 210 L	533.40	56
TP 218 L	552.45	58
TP 225 L	571.50	60
TP 240 L	609.60	64
TP 248 L	628.65	66
TP 255 L	647.70	68
TP 263 L	666.75	70
TP 270 L	685.80	72
TP 285 L	723.90	76
TP 300 L	762.00	80
TP 315 L	800.10	84
TP 322 L	819.15	86
TP 345 L	876.30	92
TP 367 L	933.45	98
TP 375 L	952.50	100
TP 390 L	990.60	104
TP 420 L	1066.80	112
TP 446 L	1133.48	119
TP 450 L	1143.00	120
TP 480 L	1219.20	128
TP 510 L	1295.40	136
TP 540 L	1371.60	144
TP 566 L	1438.28	151
TP 600 L	1524.00	160
TP 630 L	1600.20	168
TP 660 L	1676.40	176
TP 720 L	1828.80	192
TP 817 L	2076.45	218
TP 900 L	2286.00	240
TP 945 L	2400.30	252

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

TP H		
Pitch: 1/2" (12.7 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP 210 H	533.40	42
TP 220 H	558.80	44
TP 225 H	571.50	45
TP 230 H	584.20	46
TP 240 H	609.60	48
TP 270 H	685.80	54
TP 300 H	762.00	60
TP 310 H	787.40	62
TP 315 H	800.10	63
TP 320 H	812.80	64
TP 330 H	838.20	66
TP 340 H	863.60	68
TP 350 H	889.00	70
TP 360 H	914.40	72
TP 370 H	939.80	74
TP 390 H	990.60	78
TP 400 H	1016.00	80
TP 410 H	1041.40	82
TP 415 H	1054.10	83
TP 420 H	1066.80	84
TP 445 H	1130.30	89
TP 450 H	1143.00	90
TP 455 H	1155.70	91
TP 465 H	1181.10	93
TP 480 H	1219.20	96
TP 485 H	1231.90	97
TP 490 H	1244.60	98
TP 495 H	1257.30	99
TP 510 H	1295.40	102
TP 525 H	1333.50	105
TP 540 H	1371.60	108
TP 555 H	1409.70	111
TP 560 H	1422.40	112
TP 570 H	1447.80	114
TP 585 H	1485.90	117
TP 600 H	1524.00	120
TP 605 H	1536.70	121
TP 630 H	1600.20	126
TP 645 H	1638.30	129
TP 655 H	1663.70	131
TP 660 H	1676.40	132
TP 700 H	1778.00	140
TP 730 H	1854.20	146
TP 750 H	1905.00	150
TP 775 H	1968.50	155
TP 780 H	1981.20	156
TP 800 H	2032.00	160
TP 820 H	2082.80	164

TP H Cont.		
Pitch: 1/2" (12.7 mm)		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
TP 840 H	2133.60	168
TP 850 H	2159.00	170
TP 900 H	2286.00	180
TP 960 H	2438.40	192
TP 1000 H	2540.00	200
TP 1100 H	2794.00	220
TP 1140 H	2895.60	228
TP 1180 H	2997.20	236
TP 1250 H	3175.00	250
TP 1400 H	3556.00	280
TP 1510 H	3835.40	302
TP 1550 H	3937.00	310
TP 1645 H	4178.30	329
TP 1680 H	4267.20	336
TP 1700 H	4318.00	340
TP 2090 H	5308.60	418
TP 2100 H	5334.00	420
TP 2120 H	5384.80	424
TP 2330 H	5918.20	466

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

LINEAR BELTING

Open-end synchronous belt



Long Length belting is a special alternative to the timing chain for reverse positioning drives.

Open-end synchronous belting is suitable for linear movements (automated doors, automated warehouse conveyors and elevators), accurate positioning (machine tools, x-y coordinate machines) and reversal drives (computers, printers and office equipment).

Gates Long Length belting is available in various sizes, constructions and tooth designs to cover a wide range of loads, speeds and applications.



Identification

Three part number on the back of the belt indicating product designation, pitch and belt width.

Construction

Poly Chain® GT Carbon™ 8MGT and 14MGT pitches

- Carbon fibre tensile cord.
- Polyurethane teeth and backing.
- Fabric reinforced teeth.

PowerGrip® GT 3MR, 5MR and 8MR pitches

PowerGrip® HTD® 3M, 5M, 8M and 14M pitches

PowerGrip® XL, L and H pitches

- Fibreglass or steel tensile cords.
- Rubber teeth and backing.
- Nylon tooth facing.

Advantages

- High positioning accuracy, making the belt ideally suited for applications with repetitive movements.
- High power transmission due to the use of sophisticated materials and tooth profiles.
- Positive power transmission with low axial load.
- Length stability due to the use of high modulus tensile members.
- Easy to attach with clamping fixtures.
- Low maintenance.
- No environmental pollution due to lubricants.

Synchronous Belts

Metric Pitch Linear Belting ordering code is composed as follows:

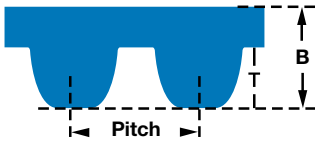
LL8M30ST	
LL	- Linear Belting
8M	- Pitch 8mm
30	- Belt width (mm)
ST	- Steel Cords (Optional)

Imperial Pitch Linear Belting ordering code is composed as follows:

LL100HST	
LL	- Linear Belting
100	- Belt width 1.00" (25.4mm)
H	- Pitch 1/2" (12.7mm)
ST	- Steel Cords (Optional)

Note: For Linear Belting Clamping Plate range refer to page 131

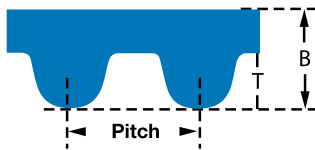
POLY CHAIN® GT CARBON™



Sections & nominal dimensions:	Length on			Width - mm Carbon	
	Pitch (mm)	T (mm)	B (mm)		
8MGT	8.0	3.40	5.90	30	12, 21, 36
14MGT	14.0	6.00	10.20	30	20, 37

Other lengths available on request.

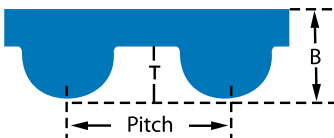
POWERGRIP® GT



Sections & nominal dimensions:	Length on			Width - (mm)		
	Pitch (mm)	T (mm)	B (mm)	Fibreglass	Steel	
3MR	3.00	1.12	2.41	30	6, 9, 15	
5MR	5.00	1.92	3.81	30	6, 10, 15, 25	6, 10, 15, 25
8MR	8.00	3.34	5.60	30	10, 15, 20, 30, 50, 85	10, 15, 20, 30, 50

Other lengths available on request.

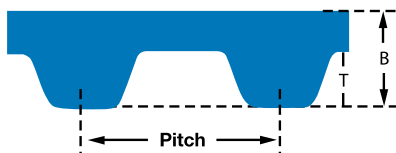
POWERGRIP® HTD®



Sections & nominal dimensions:	Length on			Width - (mm)		
	Pitch (mm)	T (mm)	B (mm)	Fibreglass	Steel	
3M	3.00	1.10	2.40	30	6, 9, 15	
5M	5.00	2.10	3.80	30	6, 10, 15, 25	6, 10, 15, 25
8M	8.00	3.40	6.00	30	10, 15, 20, 30, 50, 85	10, 15, 20, 30, 50, 85
14M	14.00	6.00	10.00	30	25, 40, 55, 85, 115	25, 40, 55, 85, 115

Other lengths available on request.

POWERGRIP® CTB



Sections & nominal dimensions:	Length on			Width - (1/100 inch)			
	Pitch (inch)	Pitch (mm)	T (mm)	B (mm)	Fibreglass	Steel	
MXL	2/25	2.032	0.51	1.14	15.24	025, 037, 050	
XL	1/5	5.080	1.27	2.30	30	025, 031, 037, 050	
L	3/8	9.525	1.91	3.60	30	037, 050, 075, 100	
H	1/2	12.700	2.29	4.30	30	050, 075, 100, 150, 200, 300	050, 075, 100, 150, 200, 300

Other lengths available on request.

SYNCHROPOWER®

Polyurethane truly endless synchronous belt

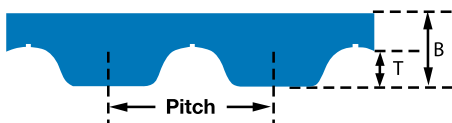


Gates Synchropower® polyurethane belts offer an optimal price/quality ratio. They provide maximum power transmission combined with perfect tooth meshing with tight and accurate tolerances.

Gates Synchropower® is an ideal solution for applications in office machines, paper industry, mixers, domestic appliances, textile machines, compressors, film projectors, sewing machines and toys.

NOTE:

Gates Synchropower® belts are available made to order with kevlar cords.



Sections & nominal dimensions:			
	Pitch (mm)	T (mm)	B (mm)
AT5	5	1.2	2.7
AT10	10	2.5	4.5



Identification

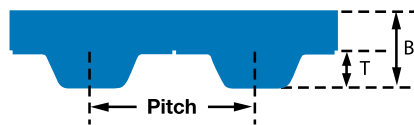
Two part number on the back of the belt indicating pitch and belt length.

Construction

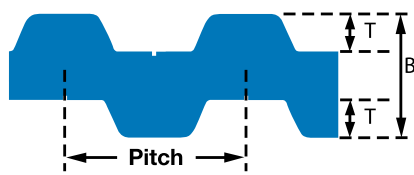
- Tough and flexible polyurethane compound of consistent quality.
- Steel tensile member.
- Resistant to various oils, ozone and abrasion.
- Temperature ranges from -30°C to +80°C.

Advantages

- Load capacities from 0.5kW to 30kW.
- Up to 40,000rpm.
- Belt speeds up to 75m/s.
- Efficiency up to 98%.
- Fixed centre distances possible.
- Minimum elongation.
- Long Service Life.



Sections & nominal dimensions:			
	Pitch (mm)	T (mm)	B (mm)
T2.5	2.5	0.7	1.3
T5	5	1.2	2.2
T10	10	2.5	4.5



Sections & nominal dimensions:			
	Pitch (mm)	T (mm)	B (mm)
DT5	5	1.2	3.4
DT10	10	2.5	4.5

Synchropower® ordering code is composed as follows:

T5-525-25	
T5	- Pitch 5mm
525	- Pitch Length (mm)
25	- Width (mm)

Synchronous Belts

SYNCHROPOWER®

T5		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
T5-165*	165	33
T5-185*	185	37
T5-200*	200	40
T5-215*	215	43
T5-220*	220	44
T5-225*	225	45
T5-245*	245	49
T5-250*	250	50
T5-255*	255	51
T5-260*	260	52
T5-270*	270	54
T5-275*	275	55
T5-280*	280	56
T5-295*	295	59
T5-300*	300	60
T5-305*	305	61
T5-320*	320	64
T5-325	325	65
T5-330	330	66
T5-340	340	68
T5-350	350	70
T5-355	355	71
T5-365	365	73
T5-375	375	75
T5-390	390	78
T5-400	400	80
T5-410	410	82
T5-420	420	84
T5-425	425	85
T5-430	430	86
T5-440	440	88
T5-445	445	89
T5-450	450	90
T5-455	455	91
T5-460	460	92
T5-475	475	95
T5-480	480	96
T5-500	500	100
T5-510	510	102
T5-525	525	105
T5-545	545	109
T5-550	550	110
T5-560	560	112
T5-575	575	115
T5-590	590	118
T5-600	600	120
T5-610	610	122
T5-620	620	124
T5-625	625	125
T5-630	630	126
T5-640	640	128
T5-650	650	130
T5-660	660	132
T5-675	675	135

T5 Cont.		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
T5-690	690	138
T5-700	700	140
T5-720	720	144
T5-725	725	145
T5-750	750	150
T5-780	780	156
T5-800	800	160
T5-815	815	163
T5-840	840	168
T5-850	850	170
T5-900	900	180
T5-940	940	188
T5-990	990	198
T5-1000	1000	200
T5-1075	1075	215
T5-1100	1100	220
T5-1215	1215	243
T5-1315	1315	263
T5-1350	1350	270
T5-1380	1380	276
T5-1440	1440	288

Available in widths of
**4mm, 6mm, 8mm, 10mm, 12mm,
 16mm, 20mm, 25mm, 32mm, 50mm,
 75mm, 100mm and 380mm.**

T10		
Pitch: 10mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
T10-260*	260	26
T10-320*	320	32
T10-370	370	37
T10-400	400	40
T10-410	410	41
T10-440	440	44
T10-450	450	45
T10-500	500	50
T10-530	530	53
T10-550	550	55
T10-560	560	56
T10-600	600	60
T10-610	610	61
T10-630	630	63
T10-650	650	65
T10-660	660	66
T10-690	690	69
T10-700	700	70

T10 Cont.		
Pitch: 10mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
T10-720	720	72
T10-750	750	75
T10-780	780	78
T10-800	800	80
T10-810	810	81
T10-840	840	84
T10-850	850	85
T10-880	880	88
T10-890	890	89
T10-900	900	90
T10-910	910	91
T10-920	920	92
T10-950	950	95
T10-960	960	96
T10-970	970	97
T10-980	980	98
T10-1000	1000	100
T10-1010	1010	101
T10-1050	1050	105
T10-1080	1080	108
T10-1100	1100	110
T10-1110	1110	111
T10-1140	1140	114
T10-1150	1150	115
T10-1200	1200	120
T10-1210	1210	121
T10-1240	1240	124
T10-1250	1250	125
T10-1300	1300	130
T10-1320	1320	132
T10-1350	1350	135
T10-1390	1390	139
T10-1400	1400	140
T10-1420	1420	142
T10-1440	1440	144
T10-1450	1450	145
T10-1460	1460	146
T10-1500	1500	150
T10-1560	1560	156
T10-1600*	1600	160
T10-1610*	1610	161
T10-1700*	1700	170
T10-1750*	1750	175
T10-1780*	1780	178
T10-1800*	1800	180
T10-1880*	1880	188
T10-1960*	1960	196
T10-2250*	2250	225

Available in widths of
**6mm, 8mm, 10mm, 12mm, 16mm,
 20mm, 25mm, 32mm, 50mm,
 75mm, 100mm and 380mm.**

*** Sleeve width is 200 not 380mm**

SYNCHROPOWER®

AT5		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
AT5-225*	225	45
AT5-280*	280	56
AT5-300*	300	60
AT5-340	340	68
AT5-375	375	75
AT5-390	390	78
AT5-420	420	84
AT5-450	450	90
AT5-455	455	91
AT5-500	500	100
AT5-545	545	109
AT5-600	600	120
AT5-610	610	122
AT5-660	660	132
AT5-710	710	142
AT5-720	720	144
AT5-750	750	150
AT5-780	780	156
AT5-825	825	165
AT5-860	860	172
AT5-975	975	195
AT5-1050	1050	210
AT5-1500	1500	300

Available in widths of
4mm, 6mm, 8mm, 10mm, 12mm,
16mm, 20mm, 25mm, 32mm,
50mm, 75mm, 100mm and 380mm.

AT10		
Pitch: 10mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
AT10-500	500	50
AT10-560	560	56
AT10-610	610	61
AT10-660	660	66
AT10-700	700	70
AT10-730	730	73
AT10-780	780	78
AT10-800	800	80
AT10-840	840	84
AT10-890	890	89
AT10-920	920	92
AT10-960	960	96
AT10-980	980	98
AT10-1010	1010	101
AT10-1050	1050	105
AT10-1080	1080	108
AT10-1100	1100	110
AT10-1150	1150	115
AT10-1200	1200	120
AT10-1210	1210	121
AT10-1250	1250	125

AT10 Cont		
Pitch: 10mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
AT10-1280	1280	128
AT10-1320	1320	132
AT10-1350	1350	135
AT10-1360	1360	136
AT10-1400	1400	140
AT10-1420	1420	142
AT10-1480	1480	148
AT10-1500	1500	150
AT10-1600*	1600	160
AT10-1700*	1700	170
AT10-1800*	1800	180
AT10-1860*	1860	186
AT10-1940*	1940	194

Available in widths of
6mm, 8mm, 10mm, 12mm, 16mm,
20mm, 25mm, 32mm, 50mm,
75mm, 100mm and 380mm.

T2.5		
Pitch: 2.5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
T2.5-120*	120	48
T2.5-145*	145	58
T2.5-160*	160	64
T2.5-177.5*	177.5	71
T2.5-180*	180	72
T2.5-200*	200	80
T2.5-210*	210	84
T2.5-230*	230	92
T2.5-245*	245	98
T2.5-265*	265	106
T2.5-277.5*	277.5	111
T2.5-285*	285	114
T2.5-290*	290	116
T2.5-305*	305	122
T2.5-317.5*	317.5	127
T2.5-330	330	132
T2.5-342.5	342.5	137
T2.5-380	380	152
T2.5-420	420	168
T2.5-480	480	192
T2.5-500	500	200
T2.5-540	540	216
T2.5-600	600	240
T2.5-620	620	248
T2.5-650	650	260
T2.5-780	780	312
T2.5-915	915	366
T2.5-950	950	380

Available in widths of
4mm, 6mm, 8mm, 10mm, 12mm,
16mm, 20mm, 25mm, 32mm,
50mm, 75mm, 100mm and 380mm.

DT10 - Double-sided		
Pitch: 10mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
DT10-600	600	60
DT10-630	630	63
DT10-660	660	66
DT10-700	700	70
DT10-750	750	75
DT10-800	800	80
DT10-840	840	84
DT10-900	900	90
DT10-980	980	98
DT10-1000	1000	100
DT10-1100	1100	110
DT10-1200	1200	120
DT10-1210	1210	121
DT10-1300	1300	130
DT10-1320	1320	132
DT10-1420	1420	142
DT10-1600*	1600	160
DT10-1610*	1610	161
DT10-1700*	1700	170
DT10-1880*	1880	188

Available in widths of
6mm, 8mm, 10mm, 12mm, 16mm,
20mm, 25mm, 32mm, 50mm,
75mm, 100mm and 380mm.

DT5 - Double-sided		
Pitch: 5mm		
Pitch & Length Designation	Pitch Length (mm)	No. of Teeth
DT5-300*	300	60
DT5-400	400	80
DT5-410	410	82
DT5-450	450	90
DT5-460	460	92
DT5-480	480	96
DT5-500	500	100
DT5-515	515	103
DT5-550	550	110
DT5-590	590	118
DT5-600	600	120
DT5-620	620	124
DT5-650	650	130
DT5-700	700	140
DT5-750	750	150
DT5-815	815	163
DT5-900	900	180
DT5-940	940	188
DT5-1100	1100	220

Available in widths of
4mm, 6mm, 8mm, 10mm, 12mm,
16mm, 20mm, 25mm, 32mm,
50mm, 75mm, 100mm and 380mm.

* Sleeve width is 200 not 380mm

LINEAR URETHANE BELTING



Linear timing belts provide the greatest degree of flexibility for synchronous conveying and linear positioning applications.

Gates Mectrol manufactures linear timing belts in a variety of tooth pitch, length and material combinations. This offering provides a wide range of possible configurations for your application.

Linear lengths are available in two styles - welded endless and open ended. Welded endless belts are ideal for low torque conveying applications. Open ended belts are typically used for motion control applications.

Construction

- Very high tensile strength and stiffness
- Parallel cord construction
 - No cords exposed at belt edges
 - Better tracking
 - Uniform tensioning
- Tough polyurethane construction
 - Durable and cut resistant
 - Oil, chemical and water resistant
 - Non-marking
- Steel or Kevlar® tensile cords.
- Choice of polymers including FDA/USDA grades.
- Nylon back and tooth surface options available for quieter operation and reduced friction.
- Various molded profiles and backing materials available.
- Wide range of tooth pitches to meet your application requirements.

Advantages

- High precision positioning or index.
- Synchronous conveying.
- High acceleration, deceleration or continuous high running speeds.
- Multiple belt, common shaft conveying.
- Customised belts to meet any application need.

Custom belting cord and backing options:

NT	- Nylon fabric on teeth
NB	- Nylon fabric on back
NTB	- Nylon fabric on teeth and back
K	- Kevlar® tensile cords
HB	- Heavy backing
FDA	- Food grade urethane



Imperial Pitch belting ordering code is composed as follows:

ULL100HKNT	
U	- Urethane
LL	- Long Length
100	- Belt Width (1/100 inch)
H	- Pitch (1/2 inch)
K	- Kevlar (optional)
NT	- Nylon Teeth covering (optional)

T & AT Pitch belting ordering code is composed as follows:

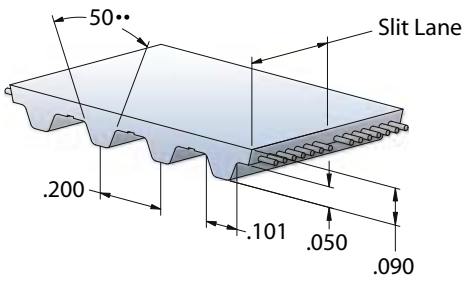
LL50T10FDA	
LL	- Long Length
50	- Belt Width (mm)
T10	- Pitch T10 (10mm)
FDA	- Food Grade (optional)

HTD & STD Profile belting ordering code is composed as follows:

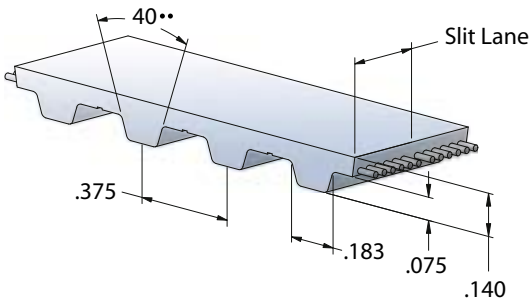
ULL14MHTD55	
U	- Urethane
LL	- Long Length
14M	- Pitch
HTD	- Profile
55	- Belt Width (mm)

IMPERIAL PITCH BELTS

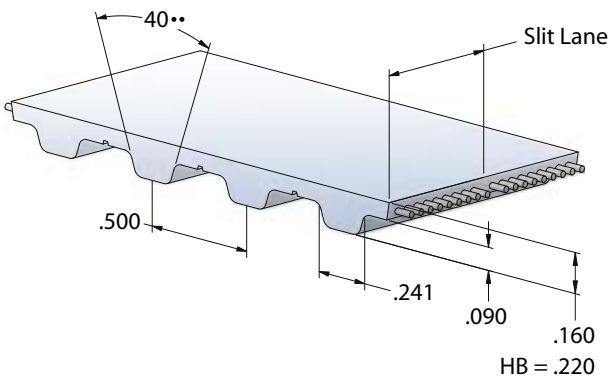
XL .200" Pitch



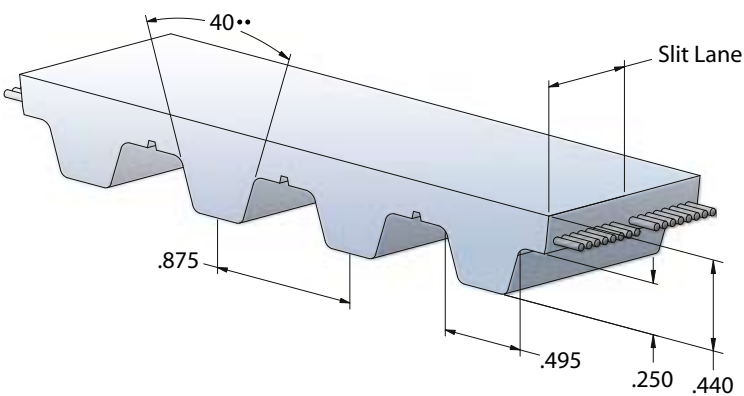
L .375" Pitch



H, H-HF .500" Pitch WH .500" Pitch - From 6" to 18" wide



XH .875" Pitch



Standard Roll Lengths

	XL	L	H*, H-HF*	XH
Feet	200	200	200	100
Metres	61	61	61	30

All roll lengths are $\pm 1\%$.

* Heavy Back (HB) option available.

Non-standard lengths are available upon request.

Available Widths

Code	inch	mm	XL	L	H, H-HF	XH
025	1/4	6.36	X			
031	5/16	7.94	X			
037	3/8	9.53	X	X	X	
050	1/2	12.7	X	X	X	X
075	3/4	19.05	X	X	X	X
100	1	25.4	X	X	X	X
150	1 1/2	38.1	X	X	X	X
200	2	50.8	X	X	X	X
300	3	76.5		X	X	X
400	4	101.6		X	X	X
600	6	152.4			X	X

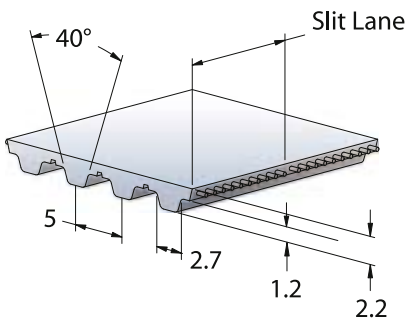
All belts are available in any width between the minimum and maximum listed width.

NOTE: Some profiles and pitches are made to order. Some backing or tensile cord options are made to order. Please contact Gates Customer Service for availability.

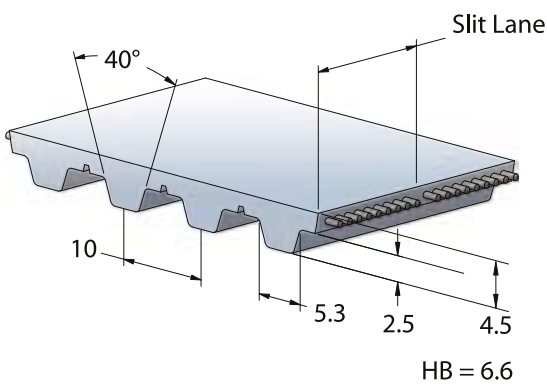
Synchronous Belts

T PITCH BELTS

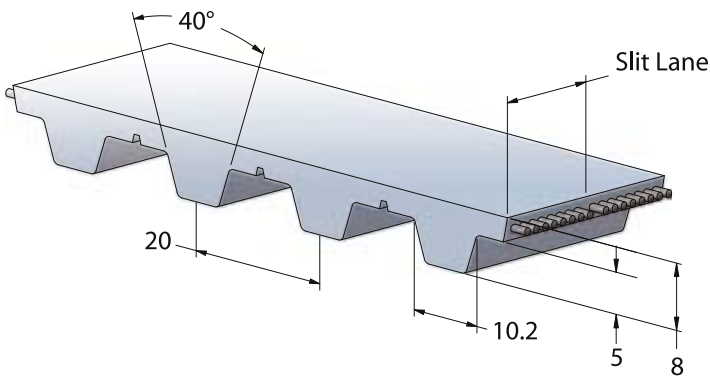
T5 5mm Pitch



T10, T10-HF 10mm Pitch WT10 10mm Pitch - From 150mm to 450mm wide



T20 20mm Pitch



Standard Roll Lengths

	T5	T10*, T10-HF*	T20
Metres	50 or 100		

All roll lengths are $\pm 1\%$.

* Heavy Back (HB) option available.

Non-standard lengths are available upon request.

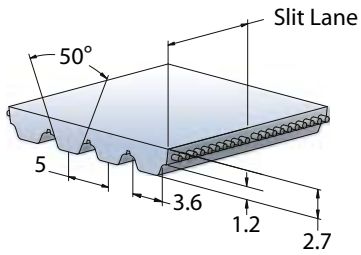
Available Widths

MM	T5	T10, T10-HF	T20
6	X		
10	X	X	
12	X	X	
16	X	X	
20	X	X	X
25	X	X	X
32	X	X	X
50	X	X	X
75	X	X	X
100	X	X	X
150		X	X

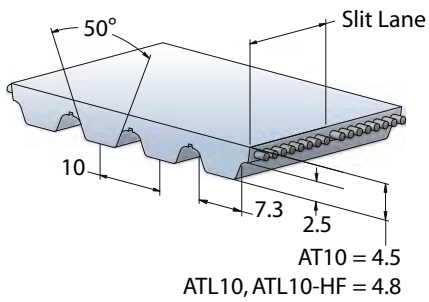
All belts are available in any width between the minimum and maximum listed widths.

AT PITCH BELTS

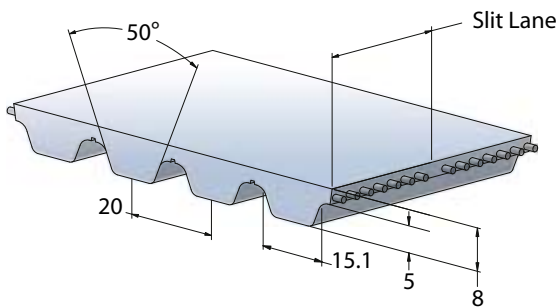
AT5 and ATL5 5mm Pitch



AT10, ATL10 and ATL10-HF 10mm Pitch



AT20 and ATL20 20mm Pitch



Standard Roll Lengths

	AT5	ATL5	AT10, ATL10-HF	AT20, ATL20
Metres	50 or 100			

All roll lengths are $\pm 1\%$.
Non-standard lengths are available upon request.

Available Widths

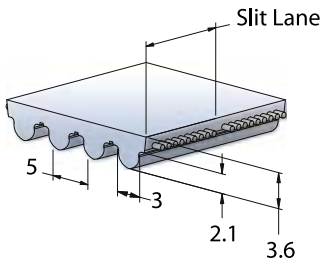
MM	AT5	ATL5	AT10, ATL10, ATL10-HF	AT20, ATL20
6	X			
10	X	X		
12	X	X		
16	X	X	X	
20	X	X	X	
25	X	X	X	X
32	X	X	X	X
50	X	X	X	X
75	X	X	X	X
100	X	X	X	X
150		X	X	X

All belts are available in any width between the minimum and maximum listed widths.

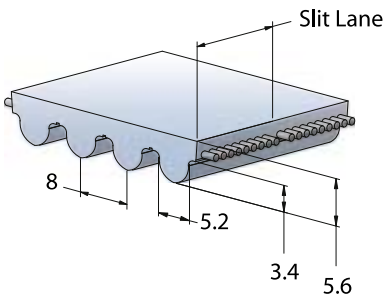
Synchronous Belts

HTD® and STD PITCH BELTS

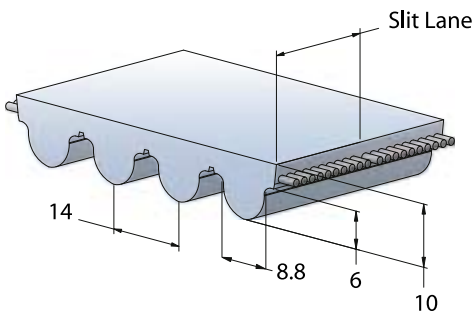
HTD5 5mm Pitch



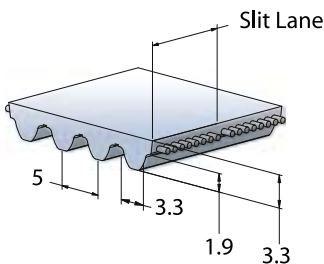
HTD8 8mm Pitch



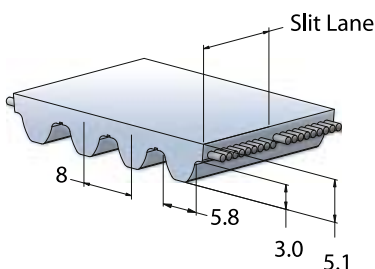
HTD14, HTDL14 14mm Pitch



STD5 5mm Pitch



STD8 8mm Pitch



Standard Roll Lengths

HTD5 HTD8 HTD14, HTDL14 STD5 STD8

Metres 50 or 100

All roll lengths are $\pm 1\%$.

Non-standard lengths are available upon request.

Available Widths

MM	HTD5	HTD8	HTD14, HTDL14	STD5	STD8
5	X			X	
10	X	X		X	X
15	X	X		X	X
20		X			X
25	X	X	X	X	X
30		X			X
40			X		
50	X	X		X	X
55			X		
85	X*	X	X		X
100	X*	X	X		X
115			X		
150	X*	X**			
170			X		

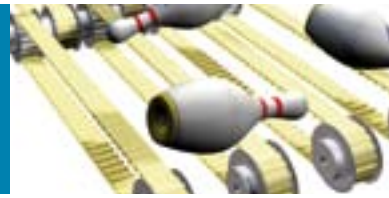
All belts are available in any width between the minimum and maximum listed width.

* These widths are only available in HTD5 Steel or HTD5 Steel with NB.

** This width is not available in HTD8 Kevlar.

GATES MATERIAL HANDLING

Custom Urethane Belting



Gates can provide a wide range of custom made and fabricated belting solutions for your material handling needs. Designed to meet your specific materials handling requirements whether in the food industry, bottling, packaging, paper, meat and poultry using a wide range of urethane belting and rubber belting and a multitude of backing materials with customised profiles, Gates has your solution.

Some of the available modifications/features are:

- Welded (Endless) belts
- Flex (Truly Endless) belts
- Custom backings
- Backing profiles
- Self tracking belts (fabricated & integral V-guides)
- Fabricated backings
- Wide belting for conveying
- Food grade belting (FDA)
- Live roller belting

For more information please contact Gates Customer Service or request a Gates Urethane belt products catalogue.



Synchronous
Belts

GATES FOOD GRADE BELTING

FDA Approved Urethane Belting



Gates has a number of belting products that are specifically designed for the food handling market.

Products include:

PosiClean™ - Positive drive replacement for modular chain.

CenterClean™ - Self tracking synchronous belting suitable for troughed applications

GMT3™ - Alternative to light weight flat belting especially where slippage is a concern.

FC12™ - Flat FDA urethane belting

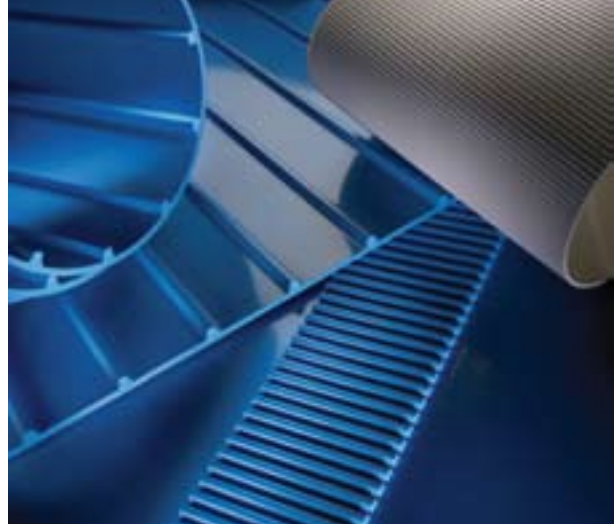
Features

- Sealed edges and tension members prevent ingress of microbes
- Aramid tension members provide high strength, low stretch
- Thickness controlled to exacting tolerances
- Smooth surface allows cleaning to a microbiological level
- Urethane material compatible with wash down environments
- Oil resistant
- USDA accepted for meat, poultry and dairy processing equipment

Benefits

- Reduction of in-process bacteria growth
- Longer belt life due to minimal belt stretch
- Reduced down time due to sanitation and belt failures

For more information please contact Gates customer service or request a Gates Urethane belt products catalogue.



PosiClean™ Belting and Sprockets



COTTON CLEANER BELTS

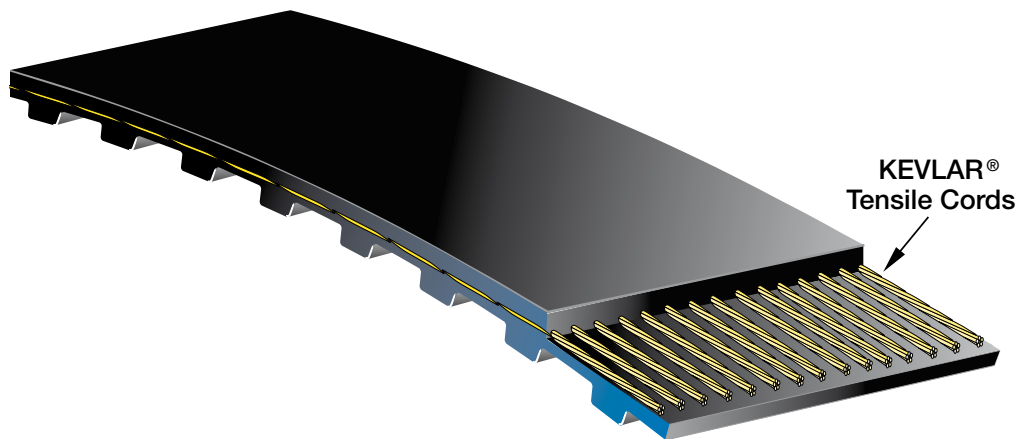
Special Application Belts



Cotton Cleaner belts have a trapezoidal tooth profile and Kevlar tensile cords. Cotton Cleaner belts are specifically designed for use on Cotton Gin and inclined cleaner machines.

Advantages

- Kevlar tensile cords provide excellent shock load resistance.
- Long service life in harsh environments
- Twice the belt life or better
- Virtually eliminates downtime



Synchronous
Belts

Cotton Cleaner Belt ordering code is composed as follows:

61CCB142K
61 - Pitch Length (inch)
CCB142 - Cotton Cleaner Belt
K - Kevlar tensile cords

Pitch: 1" (25.4mm)

Belt Ref.	Pitch Length mm	No. of Teeth	Width mm	Weight (kg)
61CCB142K	1524	60	38.1	0.61
63CCB165K	1600	63	38.1	0.64
64CCB170K	1626	64	38.1	0.65
65CCB175K	1651	65	38.1	0.66

Note: Steel tensile cord available as a made to order product. Lead time and minimum order quantities apply.