

PowerGrip® Timing Belt Drives

Single Sided Belt Drive Systems

PowerGrip® Timing Belt drives operate on the tooth-grip principle, with the molded teeth of the belt designed to make positive engagement with the matching grooves on the pulleys. Gates PowerGrip® Timing belts have helically-wound fiberglass tension members embedded in a Neoprene body with the belt teeth faced with a tough wear-resistant nylon fabric.

The three principal dimensions in inches, shown below, are used to specify a timing belt.

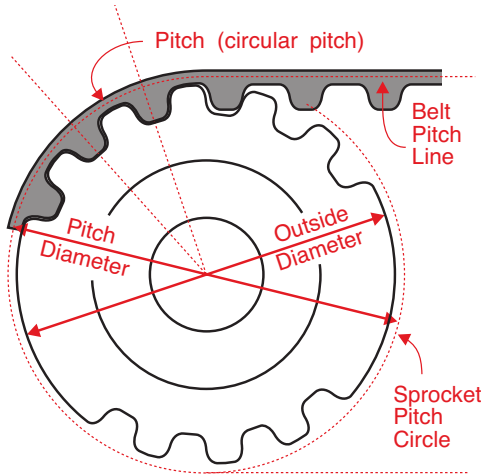
330	XL	025
33.0" Pitch Length	.200" Pitch	.25" Wide

Belt pitch is the distance in inches between two adjacent tooth centers as measured on the pitch line of the belt. Belt pitch length is the total length (circumference) in inches as measured along the pitch line. The theoretical pitch line of a Timing belt lies within the tensile member.

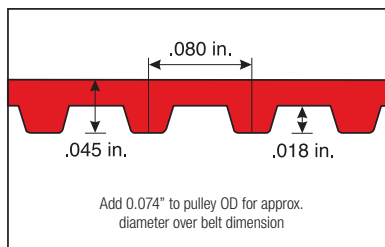
The three principal dimensions used to specify a pulley—number of grooves, pitch and belt width in inches—are shown below.

20	XL	025
Number of grooves	Pitch	Belt Width (0.25")

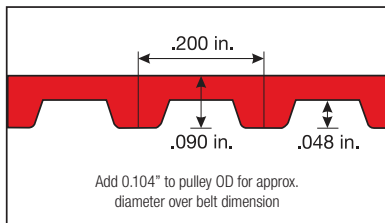
NOTE: For drive design procedure, see page 12. When ordering MXL Timing belts, please specify pitch and number of teeth.



MXL Pitch – Reference Dimensions



XL Pitch – Reference Dimensions





PowerGrip® Timing Belt Drives

PowerGrip Belt Lengths and Widths

MXL (.080 in) Belt Lengths														
Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth
29MXL	2.880	36	• 62MXL	6.160	77	94MXL	9.440	118	• 160MXL	16.000	200	286MXL	28.640	358
• 32MXL	3.200	40	• 63MXL	6.320	79	• 96MXL	9.600	120	• 166MXL	16.640	208	288MXL	28.800	360
• 34MXL	3.360	42	• 64MXL	6.400	80	98MXL	9.760	122	• 168MXL	16.800	210	• 297MXL	29.680	371
• 36MXL	3.600	45	65MXL	6.480	81	• 98MXL	9.840	123	• 170MXL	16.960	212	• 298MXL	29.760	372
• 38MXL	3.760	47	66MXL	6.560	82	• 100MXL	10.000	125	• 177MXL	17.680	221	312MXL	31.200	390
• 40MXL	4.000	50	• 66MXL	6.640	83	• 101MXL	10.080	126	• 178MXL	17.760	222	• 320MXL	32.000	400
42MXL	4.240	53	67MXL	6.720	84	102MXL	10.160	127	• 180MXL	18.000	225	326MXL	32.640	408
• 43MXL	4.320	54	• 68MXL	6.800	85	103MXL	10.320	129	183MXL	18.320	229	• 330MXL	32.960	412
• 44MXL	4.400	55	• 69MXL	6.960	87	• 104MXL	10.400	130	• 184MXL	18.400	230	336MXL	33.600	420
• 45MXL	4.480	56	• 70MXL	7.040	88	• 106MXL	10.560	132	186MXL	18.560	232	• 339MXL	33.920	424
46MXL	4.560	57	• 72MXL	7.200	90	107MXL	10.720	134	188MXL	18.800	235	340MXL	34.000	425
46MXL	4.640	58	• 74MXL	7.360	92	111MXL	11.120	139	• 196MXL	19.600	245	345MXL	34.480	431
• 47MXL	4.720	59	74MXL	7.440	93	• 112MXL	11.200	140	• 198MXL	19.840	248	• 347MXL	34.720	434
• 48MXL	4.800	60	• 75MXL	7.520	94	• 115MXL	11.520	144	199MXL	19.920	249	• 348MXL	34.800	435
49MXL	4.880	61	• 76MXL	7.600	95	116MXL	11.600	145	• 200MXL	20.000	250	352MXL	35.200	440
50MXL	5.040	63	78MXL	7.760	97	• 120MXL	12.000	150	201MXL	20.080	251	362MXL	36.240	453
• 51MXL	5.120	64	• 80MXL	8.000	100	• 122MXL	12.240	153	205MXL	20.480	256	370MXL	37.040	463
• 52MXL	5.200	65	81MXL	8.080	101	• 124MXL	12.400	155	• 208MXL	20.800	260	380MXL	38.000	475
• 53MXL	5.360	67	• 81MXL	8.160	102	126MXL	12.640	158	• 212MXL	21.200	265	• 390MXL	38.960	487
54MXL	5.440	68	• 82MXL	8.240	103	128MXL	12.800	160	214MXL	21.360	267	390MXL	39.040	488
• 55MXL	5.520	69	84MXL	8.400	105	• 132MXL	13.200	165	• 224MXL	22.400	280	• 398MXL	39.840	498
• 56MXL	5.600	70	• 84MXL	8.480	106	• 133MXL	13.280	166	• 236MXL	23.600	295	400MXL	40.000	500
• 57MXL	5.680	71	• 85MXL	8.560	107	• 136MXL	13.600	170	238MXL	23.840	298	404MXL	40.400	505
• 58MXL	5.760	72	• 86MXL	8.640	108	• 140MXL	14.000	175	• 240MXL	24.000	300	426MXL	42.560	532
58MXL	5.840	73	• 87MXL	8.720	109	144MXL	14.400	180	• 252MXL	25.200	315	437MXL	43.680	546
• 59MXL	5.920	74	• 88MXL	8.800	110	• 147MXL	14.720	184	254MXL	25.440	318	474MXL	47.360	592
60MXL	6.000	75	• 90MXL	8.960	112	• 152MXL	15.200	190	274MXL	27.440	343	• 480MXL	48.000	600
• 61MXL	6.080	76	• 91MXL	9.120	114	• 156MXL	15.600	195	• 278MXL	27.760	347	• 490MXL	48.960	612
												• 518MXL	51.840	648

Stock Lengths are denoted by a •. All other sizes, contact Gates Customer Service for availability.

MXL Stock Belt Widths

Belt Width Code	Belt Width (in)
012	1/8 (0.125)
019	3/16 (0.187)
025	1/4 (0.250)





PowerGrip® Timing Belt Drives

PowerGrip Belt Lengths and Widths - Continued

XL (.200 in) Belt Lengths

Description	Pitch Length (in)	Number of Teeth	Description	Pitch Length (in)	Number of Teeth	Description	Pitch Length (in)	Number of Teeth	Description	Pitch Length (in)	Number of Teeth	Description	Pitch Length (in)	Number of Teeth	Description	Pitch Length (in)	Number of Teeth
• 42XL	4.200	21	• 106XL	10.600	53	• 160XL	16.000	80	• 214XL	21.400	107	• 296XL	29.600	148	434XL	43.400	217
• 50XL	5.000	25	• 108XL	10.800	54	• 162XL	16.200	81	• 218XL	21.800	109	• 300XL	30.000	150	• 438XL	43.800	219
• 54XL	5.400	27	• 110XL	11.000	55	• 164XL	16.400	82	• 220XL	22.000	110	• 306XL	30.600	153	• 444XL	44.400	222
• 56XL	5.600	28	• 112XL	11.200	56	• 166XL	16.600	83	• 222XL	22.200	111	• 310XL	31.000	155	• 450XL	45.000	225
• 58XL	5.800	29	• 114XL	11.400	57	• 168XL	16.800	84	• 226XL	22.600	113	• 316XL	31.600	158	• 454XL	45.400	227
• 60XL	6.000	30	• 116XL	11.600	58	• 170XL	17.000	85	• 228XL	22.800	114	• 320XL	32.000	160	• 460XL	46.000	230
• 62XL	6.200	31	• 118XL	11.800	59	• 172XL	17.200	86	• 230XL	23.000	115	• 322XL	32.200	161	• 468XL	46.800	234
• 64XL	6.400	32	• 120XL	12.000	60	• 174XL	17.400	87	• 232XL	23.200	116	• 330XL	33.000	165	• 480XL	48.000	240
• 66XL	6.600	33	• 122XL	12.200	61	• 176XL	17.600	88	• 234XL	23.400	117	• 338XL	33.800	169	490XL	49.000	245
• 68XL	6.800	34	• 124XL	12.400	62	• 178XL	17.800	89	• 236XL	23.600	118	• 340XL	34.000	170	• 492XL	49.200	246
• 70XL	7.000	35	• 126XL	12.600	63	• 180XL	18.000	90	• 240XL	24.000	120	• 344XL	34.400	172	• 498XL	49.800	249
• 72XL	7.200	36	• 128XL	12.800	64	• 182XL	18.200	91	• 244XL	24.400	122	• 348XL	34.800	174	• 500XL	50.000	250
• 74XL	7.400	37	• 130XL	13.000	65	• 184XL	18.400	92	• 246XL	24.600	123	• 350XL	35.000	175	• 506XL	50.600	253
• 76XL	7.600	38	• 132XL	13.200	66	• 186XL	18.600	93	• 250XL	25.000	125	352XL	35.200	176	• 524XL	52.400	262
• 78XL	7.800	39	• 134XL	13.400	67	• 188XL	18.800	94	• 254XL	25.400	127	• 362XL	36.200	181	540XL	54.000	270
• 80XL	8.000	40	• 136XL	13.600	68	• 190XL	19.000	95	• 258XL	25.800	129	• 370XL	37.000	185	554XL	55.400	277
• 82XL	8.200	41	• 138XL	13.800	69	• 192XL	19.200	96	• 260XL	26.000	130	372XL	37.200	186	• 570XL	57.000	285
• 84XL	8.400	42	• 140XL	14.000	70	• 194XL	19.400	97	• 262XL	26.200	131	• 380XL	38.000	190	• 580XL	58.000	290
• 86XL	8.600	43	• 142XL	14.200	71	196XL	19.600	98	• 264XL	26.400	132	382XL	38.200	191	• 592XL	59.200	296
• 88XL	8.800	44	• 144XL	14.400	72	198XL	19.800	99	• 266XL	26.600	133	• 384XL	38.400	192	• 612XL	61.200	306
• 90XL	9.000	45	• 146XL	14.600	73	• 200XL	20.000	100	• 268XL	26.800	134	• 390XL	39.000	195	• 630XL	63.000	315
• 92XL	9.200	46	• 148XL	14.800	74	• 202XL	20.200	101	270XL	27.000	135	392XL	39.200	196	• 672XL	67.200	336
• 94XL	9.400	47	• 150XL	15.000	75	• 204XL	20.400	102	• 274XL	27.400	137	• 400XL	40.000	200	690XL	69.000	345
• 96XL	9.600	48	• 152XL	15.200	76	• 206XL	20.600	103	• 280XL	28.000	140	404XL	40.400	202	736XL	73.600	368
• 98XL	9.800	49	• 154XL	15.400	77	208XL	20.800	104	284XL	28.400	142	• 412XL	41.200	206	• 770XL	77.000	385
• 100XL	10.000	50	• 156XL	15.600	78	• 210XL	21.000	105	• 286XL	28.600	143	• 420XL	42.000	210	• 850XL	85.000	425
• 102XL	10.200	51	• 158XL	15.800	79	• 212XL	21.200	106	• 290XL	29.000	145	• 424XL	42.400	212			
												• 432XL	43.200	216			

Stock Lengths are denoted by a •. All other sizes, contact Gates Customer Service for availability.

XL Stock Belt Widths

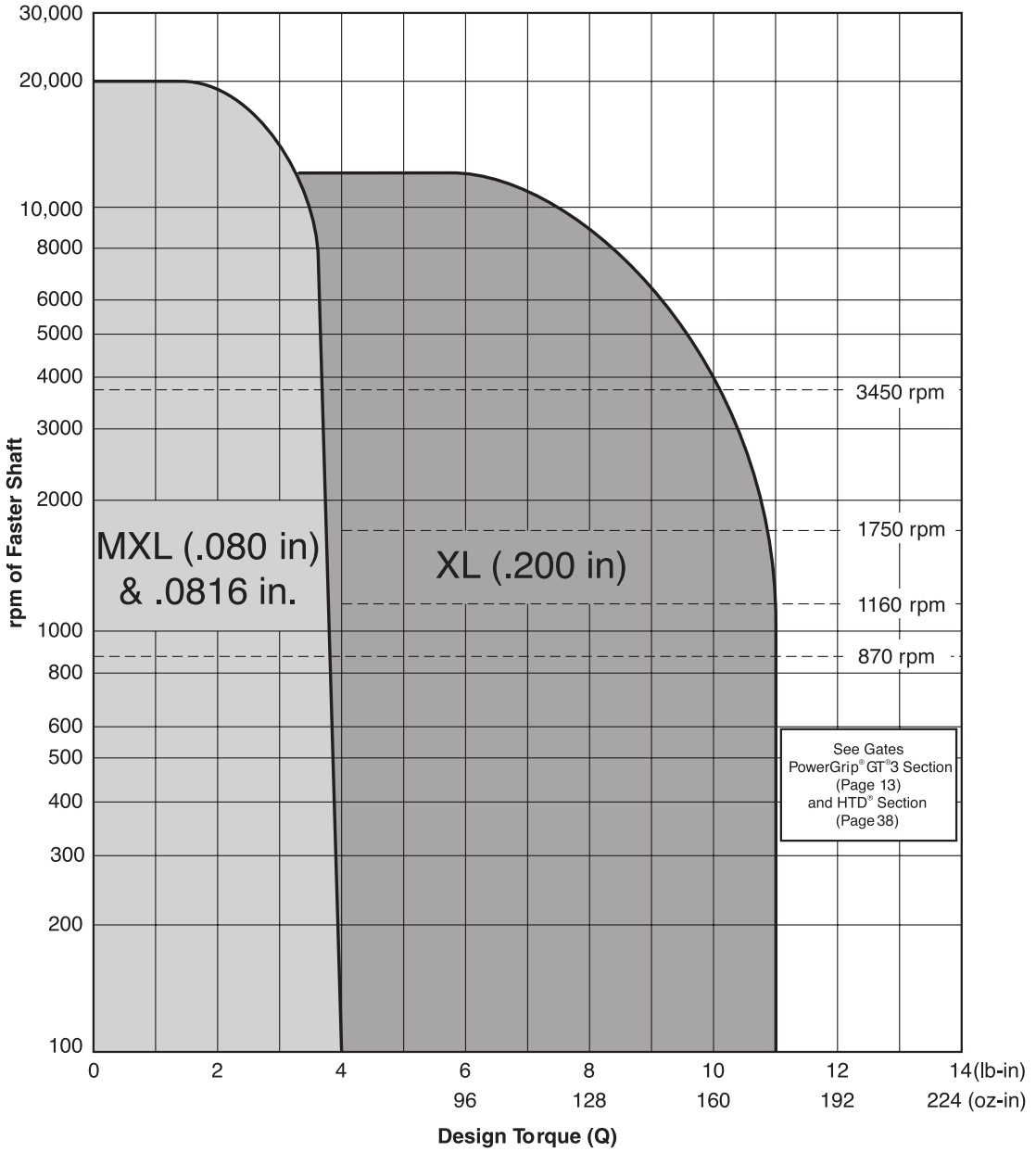
Belt Width Code	Belt Width (in)
025	1/4 (0.250)
037	3/8 (0.375)





PowerGrip® Timing Belt Drives

Belt Pitch Selection Guide





PowerGrip® Timing Belt Drives

Belt Width Selection Tables – MXL [.080 in]

The following table represents the torque ratings for each belt in its base width at the predetermined number of grooves, pitch diameters and rpm. These ratings must be multiplied by the appropriate width factor and applicable belt length factor to obtain the corrected torque rating. (See Step 4 of Drive Selection Procedure on Page 12).

Rated Torque (oz-in) For Small Sprocket - 1/8 in. Top Width																					
Number of Grooves	10	11	12	14	15	16	18	20	21	22	24	28	30	32	36	40	42	44	48	60	
Pitch (mm)	6.48	7.11	7.77	9.07	9.70	10.34	11.63	12.93	13.59	14.22	15.52	18.11	19.41	20.70	23.29	25.88	27.18	28.45	31.04	38.81	
Diameter (in)	.255	.280	.306	.357	.382	.407	.458	.509	.535	.560	.611	.713	.764	.815	.917	1.019	1.070	1.120	1.222	1.528	
rpm of Faster Shaft	10	4.61	5.06	5.53	6.45	6.91	7.36	8.28	9.20	9.67	10.1	11.0	12.9	13.8	14.7	16.6	18.4	19.3	20.2	22.1	27.6
	100	4.61	5.06	5.53	6.45	6.91	7.36	8.28	9.20	9.67	10.1	11.0	12.9	13.8	14.7	16.6	18.4	19.3	20.2	22.1	27.6
	1000	4.61	5.06	5.53	6.45	6.91	7.36	8.28	9.20	9.67	10.1	11.0	12.9	13.8	14.7	16.6	18.4	19.3	20.2	22.1	27.6
	2000	4.61	5.06	5.53	6.45	6.90	7.36	8.28	9.20	9.67	10.1	11.0	12.9	13.8	14.7	16.6	18.4	19.3	20.2	22.0	27.5
	2500	4.61	5.06	5.53	6.45	6.90	7.35	8.28	9.20	9.66	10.1	11.0	12.9	13.8	14.7	16.5	18.4	19.3	20.2	22.0	27.4
	3000	4.61	5.06	5.53	6.45	6.90	7.35	8.27	9.19	9.66	10.1	11.0	12.9	13.8	14.7	16.5	18.3	19.2	20.1	21.9	27.3
	3500	4.61	5.06	5.53	6.45	6.90	7.35	8.27	9.19	9.66	10.1	11.0	12.8	13.8	14.7	16.5	18.3	19.2	20.1	21.9	27.2
	5000	4.61	5.06	5.53	6.44	6.89	7.34	8.26	9.17	9.64	10.1	11.0	12.8	13.7	14.6	16.4	18.2	19.1	19.9	21.7	26.8
	8000	4.60	5.05	5.52	6.43	6.87	7.32	8.22	9.12	9.58	10.0	10.9	12.7	13.5	14.4	16.1	17.8	18.6	19.4	21.0	25.5
	10000	4.59	5.04	5.51	6.41	6.85	7.30	8.19	9.08	9.53	9.96	10.8	12.6	13.4	14.2	15.9	17.4	18.2	18.9	20.4	24.3
	12000	4.59	5.03	5.49	6.39	6.83	7.27	8.15	9.03	9.47	9.89	10.7	12.4	13.2	14.0	15.5	17.0	17.7	18.4	19.6	22.8

Belt Width (in)	1/8	3/16	1/4	5/16	3/8	7/16	1/2
Width Multiplier	1.00	1.66	2.33	2.84	3.50	4.18	4.86

Belt Width Selection Tables – XL [.200 in] Belts

Rated Torque (lb-in) For Small Sprocket - 1/4 in. Top Width													
Number of Grooves	10	11	12	14	15	16	18	20	21	22	24	28	30
Pitch (mm)	16.18	17.78	19.41	22.63	24.26	25.883	29.11	32.33	33.96	35.59	38.81	45.29	48.51
Diameter (in)	.637	.700	.764	.891	.955	1.019	1.146	1.273	1.337	1.401	1.528	1.783	1.910
rpm of Faster Shaft	10	2.32	2.55	2.78	3.24	3.47	3.71	4.17	4.63	4.86	5.09	5.56	6.48
	100	2.32	2.55	2.78	3.24	3.47	3.71	4.17	4.63	4.86	5.09	5.56	6.48
	500	2.32	2.55	2.78	3.24	3.47	3.70	4.17	4.63	4.86	5.09	5.55	6.48
	1000	2.32	2.54	2.78	3.24	3.47	3.70	4.16	4.62	4.86	5.09	5.55	6.47
	1160	2.32	2.54	2.78	3.24	3.47	3.70	4.16	4.62	4.85	5.08	5.54	6.46
	1450	2.31	2.54	2.78	3.24	3.47	3.70	4.16	4.62	4.85	5.08	5.54	6.45
	1600	2.31	2.54	2.78	3.24	3.47	3.70	4.16	4.61	4.84	5.07	5.53	6.44
	1750	2.31	2.54	2.77	3.23	3.47	3.70	4.15	4.61	4.84	5.07	5.53	6.44
	2000	2.31	2.54	2.77	3.23	3.46	3.69	4.15	4.61	4.84	5.06	5.52	6.42
	2500	2.31	2.54	2.77	3.23	3.46	3.69	4.14	4.59	4.82	5.05	5.49	6.38
	3000	2.31	2.54	2.77	3.22	3.45	3.68	4.13	4.58	4.80	5.03	5.47	6.34
	3500	2.31	2.53	2.76	3.22	3.44	3.67	4.12	4.56	4.78	5.00	5.43	6.29
5000	2.30	2.52	2.75	3.19	3.41	3.63	4.06	4.48	4.69	4.90	5.31	6.09	
8000	2.27	2.48	2.70	3.11	3.32	3.52	3.90	4.26	4.43	4.60	4.92	5.47	
10000	2.24	2.45	2.65	3.04	3.23	3.41	3.75	4.05	4.19	4.32	4.56	4.89	

Belt Width (in)	1/4	5/16	3/8	7/16	1/2
Width Multiplier	1.00	1.29	1.59	1.89	2.20



PowerGrip® Timing Belt Drives – Twin Power

Twin Power Belt Drive Systems

Twin Power Belts are similar in construction to standard synchronous belts, including nylon-faced teeth on both sides. This construction uses essentially the same design parameters as standard synchronous belts. Gates XL Twin Power Timing belts have helically-wound fiberglass tension members embedded in a Neoprene body with the belt teeth faced with a tough wear-resistant nylon fabric. A unique feature of this construction is that Gates Twin Power belts can transmit their full rated load on either the front or back side.

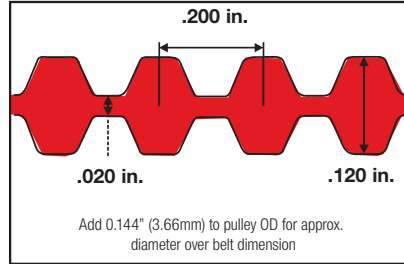
The three principal dimensions, in inches, shown below, are used to specify a Twin Power Timing belt.

TP	330	XL	025
Twin	33.0"	0.200"	0.25"
Power	Pitch Length	Pitch	Wide

Belt pitch is the distance in inches between two adjacent tooth centers as measured on the pitch line of the belt. Belt pitch length is the total length (circumference) in inches as measured along the pitch line. The theoretical pitch line of a Timing belt lies within the tensile member.

NOTE: For drive design procedure, see page 24.

XL Pitch – Reference Dimensions





PowerGrip® Timing Belt Drives – Twin Power

PowerGrip Belt Lengths and Widths

XL Timing Belt Length											
Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth	Description	Pitch Length (in)	No. of Teeth
•TP124XL	12.40	62	•TP182XL	18.20	91	•TP260XL	26.00	130	•TP400XL	40.00	200
•TP126XL	12.60	63	•TP184XL	18.40	92	•TP262XL	26.20	131	•TP412XL	41.20	206
•TP128XL	12.80	64	•TP186XL	18.60	93	•TP264XL	26.40	132	•TP420XL	42.00	210
•TP130XL	13.00	65	•TP188XL	18.80	94	•TP266XL	26.60	133	•TP424XL	42.40	212
•TP132XL	13.20	66	•TP190XL	19.00	95	•TP268XL	26.80	134	•TP432XL	43.20	216
•TP134XL	13.40	67	•TP192X	19.20	96	•TP270XL	27.00	135	•TP438XL	43.80	219
•TP136XL	13.60	68	•TP194XL	19.40	97	•TP274XL	27.40	137	•TP444XL	44.40	222
•TP138XL	13.80	69	•TP200XL	20.00	100	•TP280XL	28.00	140	•TP450XL	45.00	225
•TP140XL	14.00	70	•TP202XL	20.20	101	•TP286XL	28.60	143	•TP454XL	45.40	227
•TP142XL	14.20	71	•TP204XL	20.40	102	•TP290XL	29.00	145	•TP460XL	46.00	230
•TP144XL	14.40	72	•TP206XL	20.60	103	•TP296XL	29.60	148	•TP468XL	46.80	234
•TP146XL	14.60	73	•TP210XL	21.00	105	•TP300XL	30.00	150	•TP480XL	48.00	240
•TP148XL	14.80	74	•TP212XL	21.20	106	•TP306XL	30.60	153	•TP492XL	49.20	246
•TP150XL	15.00	75	•TP214XL	21.40	107	•TP310XL	31.00	155	•TP498XL	49.80	249
•TP152XL	15.20	76	•TP218XL	21.80	109	•TP316XL	31.60	158	•TP500XL	50.00	250
•TP154XL	15.40	77	•TP220XL	22.00	110	•TP320XL	32.00	160	•TP506XL	50.60	253
•TP156XL	15.60	78	•TP222XL	22.20	111	•TP322XL	32.20	161	•TP524XL	52.40	262
•TP158XL	15.80	79	•TP226XL	22.60	113	•TP330XL	33.00	165	•TP570XL	57.00	285
•TP160XL	16.00	80	•TP228XL	22.80	114	•TP338XL	33.80	169	•TP580XL	58.00	290
•TP162XL	16.20	81	•TP230XL	23.00	115	•TP340XL	34.00	170	•TP592XL	59.20	296
•TP164XL	16.40	82	•TP232XL	23.20	116	•TP344XL	34.40	172	•TP612XL	61.20	306
•TP166XL	16.60	83	•TP234XL	23.40	117	•TP348XL	34.80	174	•TP630XL	63.00	315
•TP168XL	16.80	84	•TP236XL	23.60	118	•TP350XL	35.00	175	•TP672XL	67.20	336
•TP170XL	17.00	85	•TP240XL	24.00	120	•TP352XL	35.20	176	•TP690XL	69.00	345
•TP172XL	17.20	86	•TP244XL	24.40	122	•TP362XL	36.20	181	•TP770XL	77.00	385
•TP174XL	17.40	87	•TP246XL	24.60	123	•TP370XL	37.00	185	•TP850XL	85.00	425
•TP176XL	17.60	88	•TP250XL	25.00	125	•TP380XL	38.00	190			
•TP178XL	17.80	89	•TP254XL	25.40	127	•TP384XL	38.40	192			
•TP180XL	18.00	90	•TP258XL	25.80	129	•TP390XL	39.00	195			

Stock lengths are denoted by a •. All other sizes, contact Gates Customer Service for availability.

XL Stock Belt Widths

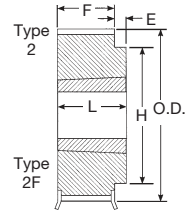
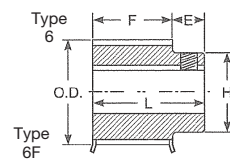
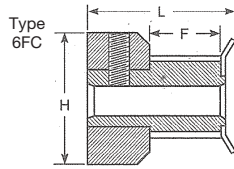
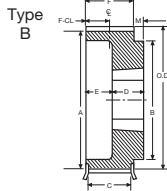
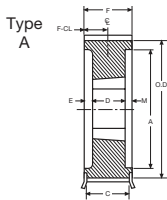
Belt Width Code	Width (in)
025	1/4 (0.250)
037	3/8 (0.375)





PowerGrip® Timing Belt Drives

Pulley Specification Tables – MXL and XL Pulleys



1/8 in Wide Belts (MXL012)

Sprocket Number	No. of Grooves	Diameter (in)			Design Type	Dimensions (in)						Set Screws**	Wt. (lb)	Material***
		Pitch	OD	Flange Ref.		W	L	H	E	Plain Bore* (in)				
										Min	Max			
10MXL012	10	0.255	0.235	0.425	6FC	0.160	0.438	0.425	0.234	0.125	0.125	4-40	0.01	AL
11MXL012	11	0.280	0.260	0.450	6FC	0.160	0.438	0.450	0.234	0.125	0.125	4-40	0.01	AL
12MXL012	12	0.306	0.286	0.480	6FC	0.160	0.438	0.480	0.234	0.125	0.125	4-40	0.01	AL
14MXL012	14	0.357	0.337	0.530	6FC	0.160	0.438	0.530	0.234	0.125	0.188	4-40	0.01	AL
15MXL012	15	0.382	0.362	0.555	6FC	0.160	0.438	0.555	0.234	0.188	0.188	4-40	0.01	AL
16MXL012	16	0.407	0.387	0.580	6FC	0.160	0.438	0.580	0.234	0.188	0.250	4-40	0.01	AL
18MXL012	18	0.458	0.438	0.635	6F	0.160	0.484	0.312	0.224	0.188	0.188	4-40	0.01	AL
20MXL012	20	0.509	0.489	0.685	6F	0.160	0.484	0.364	0.224	0.188	0.188	4-40	0.01	AL
21MXL012	21	0.535	0.515	0.710	6F	0.160	0.484	0.390	0.224	0.188	0.188	4-40	0.01	AL
22MXL012	22	0.560	0.540	0.740	6F	0.160	0.484	0.390	0.224	0.188	0.188	4-40	0.01	AL
24MXL012	24	0.611	0.591	0.790	6F	0.160	0.516	0.442	0.256	0.250	0.250	6-40	0.01	AL
28MXL012	28	0.713	0.693	0.895	6F	0.160	0.516	0.494	0.256	0.250	0.250	6-40	0.01	AL
30MXL012	30	0.764	0.744	0.945	6F	0.160	0.516	0.546	0.256	0.250	0.313	6-40	0.02	AL
32MXL012	32	0.815	0.795	1.000	6F	0.160	0.516	0.598	0.256	0.250	0.375	6-40	0.02	AL
36MXL012	36	0.917	0.897	1.105	6F	0.160	0.516	0.676	0.256	0.250	0.375	6-40	0.02	AL
40MXL012	40	1.019	0.999	1.210	6F	0.160	0.531	0.754	0.255	0.250	0.500	6-40	0.03	AL
42MXL012	42	1.070	1.050	1.260	6F	0.160	0.531	0.806	0.255	0.250	0.500	6-40	0.04	AL
44MXL012	44	1.120	1.100	1.315	6F	0.160	0.531	0.858	0.255	0.250	0.625	6-40	0.04	AL
48MXL012	48	1.222	1.202	1.420	6F	0.160	0.531	0.936	0.255	0.250	0.625	6-40	0.05	AL
60MXL012	60	1.528	1.508	1.730	6F	0.160	0.531	1.222	0.255	0.250	0.750	6-40	0.08	AL

1/4 in Wide Belts (MXL025)

Sprocket Number	No. of Grooves	Diameter (in)			Design Type	Dimensions (in)						Set Screws**	Wt. (lb)	Material***
		Pitch	OD	Flange Ref.		W	L	H	E	Plain Bore* (in)				
										Min	Max			
10MXL025	10	0.255	0.235	0.425	6FC	0.290	0.563	0.425	0.234	0.125	0.125	4-40	0.01	AL
11MXL025	11	0.280	0.260	0.450	6FC	0.290	0.563	0.450	0.234	0.125	0.125	4-40	0.01	AL
12MXL025	12	0.306	0.286	0.480	6FC	0.290	0.563	0.480	0.234	0.125	0.125	4-40	0.01	AL
14MXL025	14	0.357	0.337	0.530	6FC	0.290	0.563	0.530	0.234	0.125	0.188	4-40	0.01	AL
15MXL025	15	0.382	0.362	0.555	6FC	0.290	0.563	0.555	0.234	0.188	0.188	6-40	0.01	AL
16MXL025	16	0.407	0.387	0.580	6FC	0.290	0.563	0.580	0.234	0.188	0.250	6-40	0.01	AL
18MXL025	18	0.458	0.438	0.635	6F	0.290	0.625	0.312	0.234	0.188	0.188	6-40	0.01	AL
20MXL025	20	0.509	0.489	0.685	6F	0.290	0.625	0.364	0.234	0.188	0.188	6-40	0.01	AL
21MXL025	21	0.535	0.515	0.710	6F	0.290	0.625	0.390	0.234	0.188	0.188	6-40	0.01	AL
22MXL025	22	0.560	0.540	0.740	6F	0.290	0.625	0.390	0.234	0.188	0.188	6-40	0.01	AL
24MXL025	24	0.611	0.591	0.790	6F	0.290	0.688	0.442	0.299	0.250	0.250	6-40	0.01	AL
25MXL025	25	0.637	0.617	0.815	6F	0.290	0.688	0.468	0.299	0.250	0.250	6-40	0.01	AL
28MXL025	28	0.713	0.693	0.895	6F	0.290	0.688	0.494	0.299	0.250	0.250	6-40	0.02	AL
30MXL025	30	0.764	0.744	0.945	6F	0.290	0.688	0.546	0.299	0.250	0.313	8-32	0.02	AL
32MXL025	32	0.815	0.795	1.000	6F	0.290	0.688	0.598	0.299	0.250	0.375	8-32	0.03	AL
36MXL025	36	0.917	0.897	1.105	6F	0.290	0.688	0.676	0.299	0.250	0.375	8-32	0.03	AL
40MXL025	40	1.019	0.999	1.210	6F	0.290	0.719	0.754	0.314	0.250	0.500	8-32	0.04	AL
42MXL025	42	1.070	1.050	1.260	6F	0.290	0.719	0.806	0.314	0.250	0.500	8-32	0.05	AL
44MXL025	44	1.120	1.100	1.315	6F	0.290	0.719	0.858	0.314	0.250	0.625	8-32	0.05	AL
48MXL025	48	1.222	1.202	1.420	6F	0.290	0.719	0.936	0.314	0.250	0.625	8-32	0.08	AL
60MXL025	60	1.528	1.508	1.730	6F	0.290	0.719	1.222	0.314	0.250	0.750	8-32	0.11	AL
72MXL025	72	1.833	1.813	---	6	0.375	0.750	1.195	0.375	0.250	0.750	8-32	0.13	AL
80MXL025	80	2.037	2.017	---	6	0.375	0.750	1.500	0.375	0.313	0.750	8-32	0.18	AL
90MXL025	90	2.292	2.272	---	6	0.375	0.750	1.500	0.375	0.313	0.750	8-32	0.21	AL
100MXL025	100	2.546	2.526	---	6	0.375	0.750	1.500	0.375	0.313	0.750	8-32	0.24	AL
120MXL025	120	3.056	3.036	---	6	0.375	0.750	1.500	0.375	0.375	0.750	10-32	0.32	AL

*Plain bore style stocked in smallest bore. **10-16 groove pulleys have 1 ea. set screw, all others have 2 ea. set screws at 90 degrees. ***Gold Iridite Finish

NOTE: See Synchronous Belt Drives — Sprocket Specifications section, Page 76, for a complete table of stock and non-stock pulley diameters.

For non-standard designs contact Gates Made-To-Order Metals Team at (800)709-6001





PowerGrip® Timing Belt Drives

Pulley Specification Tables – MXL and XL Pulleys - Continued

1/4 in Wide Belts (XL025)

Sprocket Number	No. of Grooves	Diameter (in)			Design Type	Dimensions (in)						Set Screws**	Wt. (lb)	Material***
		Pitch	OD	Flange Ref.		W	L	H	E	Plain Bore* (in)				
										Min	Max			
10XL025	10	0.637	0.617	0.875	6F	0.310	0.688	0.375	0.250	0.188	0.250	6-40	0.01	AL
11XL025	11	0.700	0.680	0.938	6F	0.310	0.688	0.438	0.250	0.188	0.250	6-40	0.02	AL
12XL025	12	0.764	0.744	1.000	6F	0.310	0.688	0.500	0.250	0.188	0.313	6-40	0.02	AL
13XL025	13	0.828	0.808	1.063	6F	0.310	0.688	0.563	0.250	0.250	0.313	8-32	0.03	AL
14XL025	14	0.891	0.871	1.032	6F	0.310	0.688	0.563	0.250	0.250	0.375	8-32	0.03	AL
15XL025	15	0.955	0.935	1.188	6F	0.310	0.688	0.625	0.250	0.250	0.500	8-32	0.03	AL
16XL025	16	1.019	0.999	1.250	6F	0.310	0.688	0.688	0.250	0.313	0.500	8-32	0.04	AL
18XL025	18	1.146	1.126	1.375	6F	0.310	0.688	0.813	0.250	0.250	0.500	8-32	0.05	AL
20XL025	20	1.273	1.253	1.500	6F	0.310	0.750	0.938	0.312	0.250	0.500	8-32	0.07	AL
21XL025	21	1.337	1.317	1.563	6F	0.310	0.750	1.000	0.312	0.250	0.500	8-32	0.08	AL
22XL025	22	1.401	1.381	1.625	6F	0.310	0.750	1.000	0.312	0.250	0.625	8-32	0.09	AL
24XL025	24	1.528	1.508	1.750	6F	0.310	0.781	1.063	0.343	0.250	0.625	8-32	0.10	AL
26XL025	26	1.655	1.635	1.875	6F	0.310	0.781	1.188	0.343	0.250	0.625	8-32	0.12	AL
28XL025	28	1.783	1.763	2.000	6F	0.310	0.781	1.188	0.343	0.250	0.750	8-32	0.14	AL
30XL025	30	1.910	1.890	2.125	6F	0.310	0.781	1.313	0.343	0.250	0.750	8-32	0.16	AL

XL (0.200 in) PowerGrip Timing Pulleys

3/8 in Wide Belts (XL037)

Sprocket Number	No. of Grooves	Diameter (in)			Design Type	Dimensions (in)										Set Screws**	Approx. Wt. (lb)	Material***		
		Pitch	OD	Flange Ref.		A	B	C	D	E	F	M	F-CL	Bushing Size	Bore Sizes* (in)					
															Min				Min	Max
10XL037	10	0.637	0.617	0.875	6F	---	0.438	0.430	0.813	0.383	0.563	0	0.664	MPB	0.188	0.188	6-40	0.05	ST	
11XL037	11	0.700	0.680	0.938	6F	---	0.500	0.430	0.813	0.383	0.563	0	0.664	MPB	0.188	0.188	6-40	0.07	ST	
12XL037	12	0.764	0.744	1.000	6F	---	0.500	0.430	0.813	0.383	0.563	0	0.664	MPB	0.188	0.313	6-40	0.08	ST	
13XL037	13	0.828	0.808	1.063	6F	---	0.563	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.313	8-32	0.03	AL	
14XL037	14	0.891	0.871	1.094	6F	---	0.563	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.375	8-32	0.10	ST	
15XL037	15	0.955	0.935	1.188	6F	---	0.625	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.500	8-32	0.12	ST	
16XL037	16	1.019	0.999	1.250	6F	---	0.688	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.500	8-32	0.15	ST	
17XL037	17	1.082	1.062	1.313	6F	---	0.750	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.500	8-32	0.06	AL	
18XL037	18	1.146	1.126	1.375	6F	---	0.813	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.500	8-32	0.18	ST	
19XL037	19	1.210	1.190	1.438	6F	---	0.875	0.430	0.813	0.383	0.563	0	0.664	MPB	0.250	0.500	8-32	0.07	AL	
20XL037	20	1.273	1.253	1.500	6F	---	0.938	0.430	0.875	0.445	0.563	0	0.727	MPB	0.250	0.625	8-32	0.24	ST	
21XL037	21	1.337	1.317	1.563	6F	---	1.000	0.430	0.875	0.445	0.563	0	0.727	MPB	0.250	0.625	8-32	0.27	ST	
22XL037	22	1.401	1.381	1.625	6F	---	1.000	0.430	0.875	0.445	0.563	0	0.727	MPB	0.250	0.625	8-32	0.29	ST	
23XL037	23	1.464	1.444	1.688	6F	---	1.063	0.430	0.875	0.445	0.563	0	0.727	MPB	0.250	0.625	8-32	0.11	AL	
24XL037	24	1.528	1.508	1.750	6F	---	1.063	0.430	0.906	0.476	0.563	0	0.758	MPB	0.250	0.625	8-32	0.35	ST	
25XL037	25	1.592	1.572	1.813	6F	---	1.094	0.430	0.906	0.476	0.563	0	0.758	MPB	0.250	0.625	8-32	0.13	AL	
26XL037	26	1.655	1.635	1.875	6F	---	1.188	0.430	0.906	0.476	0.563	0	0.758	MPB	0.250	0.750	8-32	0.16	AL	
28XL037	28	1.783	1.763	2.000	6F	---	1.188	0.430	0.906	0.476	0.563	0	0.758	MPB	0.250	0.750	8-32	0.47	ST	
30XL037	30	1.910	1.890	2.125	6F	---	1.313	0.430	0.906	0.476	0.563	0	0.758	MPB	0.313	0.750	8-32	0.54	ST	
32XL037	32	2.037	2.017	2.250	6F	---	1.438	0.430	0.906	0.476	0.563	0	0.758	MPB	0.250	0.750	8-32	0.22	AL	
32XL037	32	2.037	2.017	---	A	---	---	---	0.78	0	0.563	0	0.282	1108	0.500	1.000	---	0.25	S	
36XL037	36	2.292	2.272	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.28	AL	
36XL037	36	2.292	2.272	---	A	---	---	---	0.78	0	0.563	0	0.282	1108	0.500	1.000	---	0.38	S	
40XL037	40	2.546	2.526	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.33	AL	
40XL037	40	2.546	2.526	---	B	---	2.156	---	0.78	0	0.563	0.22	0.500	1108	0.500	1.000	---	0.57	S	
42XL037	42	2.674	2.654	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.36	AL	
42XL037	42	2.674	2.654	---	B	---	2.266	---	0.78	0	0.563	0.22	0.500	1108	0.500	1.000	---	0.67	S	
44XL037	44	2.801	2.781	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.39	AL	
44XL037	44	2.801	2.781	---	B	---	2.344	---	0.78	0	0.563	0.22	0.500	1108	0.500	1.000	---	0.77	S	
45XL037	45	2.865	2.845	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.32	AL	
48XL037	48	3.056	3.036	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.39	AL	
48XL037	48	3.056	3.036	---	B	---	2.594	---	0.78	0	0.563	0.22	0.500	1108	0.500	1.000	---	0.99	S	
50XL037	50	3.183	3.163	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.313	1.000	8-32	0.42	AL	
60XL037	60	3.820	3.800	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.375	1.000	10-32	0.50	AL	
60XL037	60	3.820	3.800	---	B	---	3.406	---	0.98	0	0.563	0.44	0.719	1210	0.500	1.250	---	2.02	S	
72XL037	72	4.584	4.564	---	6	---	1.500	---	1.000	0.375	0.563	0	0.657	MPB	0.375	1.000	10-32	0.67	AL	
72XL037	72	4.584	4.564	---	B	---	4.000	---	0.98	0	0.563	0.44	0.719	1610	0.500	1.688	---	2.86	S	

*Plain bore style stocked in smallest bore. **All pulleys have 2 set screws at 90 degrees ***AL Pulleys Have Clear Anodized Finish
NOTE: See Synchronous Belt Drives — Sprocket Specifications section, Page 76, for a complete table of stock and non-stock pulley diameters.
For non-standard designs contact Gates Made-To-Order Metals Team at (800)709-6001

