



## HIGH PRECISION SYNCHRONOUS BELTS

# POWERGRIP® MXL

Classical synchronous belt

The PowerGrip® MXL belt is a classical synchronous belt with a pitch of 0.08" (2.032 mm). 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.



### Identification

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

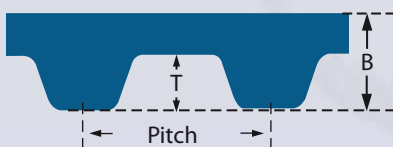
### Construction

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

### Advantages

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

### Sections and nominal dimensions



	Pitch inch	T mm	B mm
<b>MXL</b>	0.08	0.51	1.14

NOTE

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



## MXL

Pitch: 0.08" (2.032 mm)

Description	Pitch length mm	Number of teeth	Description	Pitch length mm	Number of teeth
288-MXL	73.15	36	1264-MXL	321.05	158
296-MXL	75.18	37	<b>1280-MXL</b>	<b>325.12</b>	<b>160</b>
320-MXL	81.28	40	1320-MXL	335.28	165
360-MXL	91.44	45	<b>1400-MXL</b>	<b>355.60</b>	<b>175</b>
400-MXL	101.60	50	<b>1472-MXL</b>	<b>373.88</b>	<b>184</b>
424-MXL	107.69	53	1520-MXL	386.08	190
432-MXL	109.72	54	1560-MXL	396.24	195
440-MXL	111.76	55	<b>1600-MXL</b>	<b>406.40</b>	<b>200</b>
448-MXL	113.79	56	<b>1680-MXL</b>	<b>426.72</b>	<b>210</b>
456-MXL	115.82	57	<b>1768-MXL</b>	<b>449.07</b>	<b>221</b>
464-MXL	117.86	58	1800-MXL	457.20	225
472-MXL	119.89	59	1832-MXL	465.33	229
<b>480-MXL</b>	<b>121.92</b>	<b>60</b>	1856-MXL	471.42	232
488-MXL	123.95	61	<b>1880-MXL</b>	<b>477.52</b>	<b>235</b>
504-MXL	128.01	63	1960-MXL	497.84	245
520-MXL	132.08	65	1984-MXL	503.93	248
<b>536-MXL</b>	<b>136.14</b>	<b>67</b>	1992-MXL	505.96	249
544-MXL	138.17	68	2048-MXL	520.19	256
552-MXL	140.20	69	2136-MXL	542.54	267
560-MXL	142.24	70	2240-MXL	568.96	280
568-MXL	144.27	71	2360-MXL	599.44	295
<b>576-MXL</b>	<b>146.30</b>	<b>72</b>	2384-MXL	605.53	298
<b>584-MXL</b>	<b>148.33</b>	<b>73</b>	2400-MXL	609.60	300
592-MXL	150.36	74	<b>2520-MXL</b>	<b>640.08</b>	<b>315</b>
<b>600-MXL</b>	<b>152.40</b>	<b>75</b>	2544-MXL	646.17	318
<b>608-MXL</b>	<b>154.43</b>	<b>76</b>	2608-MXL	662.43	326
616-MXL	156.46	77	2776-MXL	705.10	347
632-MXL	160.52	79	2864-MXL	727.45	358
<b>640-MXL</b>	<b>162.56</b>	<b>80</b>	2880-MXL	731.52	360
648-MXL	164.59	81	2968-MXL	753.87	371
<b>656-MXL</b>	<b>166.62</b>	<b>82</b>	2976-MXL	755.90	372
664-MXL	168.65	83	3120-MXL	792.48	390
672-MXL	170.68	84	3200-MXL	812.80	400
680-MXL	172.72	85	3264-MXL	829.05	408
696-MXL	176.78	87	<b>3296-MXL</b>	<b>837.18</b>	<b>412</b>
704-MXL	178.81	88	3360-MXL	853.44	420
720-MXL	182.88	90	3392-MXL	861.56	424
736-MXL	186.94	92	3448-MXL	875.79	431
<b>752-MXL</b>	<b>191.00</b>	<b>94</b>	3472-MXL	881.88	434
760-MXL	193.04	95	3704-MXL	940.81	463
776-MXL	197.10	97	3800-MXL	965.20	475
800-MXL	203.20	100	3904-MXL	991.61	488
808-MXL	205.23	101	3984-MXL	1011.93	498
824-MXL	209.29	103	4000-MXL	1016.00	500
<b>840-MXL</b>	<b>213.36</b>	<b>105</b>	4040-MXL	1026.16	505
848-MXL	215.39	106	4368-MXL	1109.47	546
856-MXL	217.42	107	<b>4736-MXL</b>	<b>1202.94</b>	<b>592</b>
864-MXL	219.45	108	4896-MXL	1243.58	612
872-MXL	221.48	109	5448-MXL	1383.79	681
<b>880-MXL</b>	<b>223.52</b>	<b>110</b>			
912-MXL	231.64	114			
944-MXL	239.77	118			
960-MXL	243.84	120			
976-MXL	247.90	122			
984-MXL	249.93	123			
1000-MXL	254.00	125			
1008-MXL	256.03	126			
1016-MXL	258.06	127			
1032-MXL	262.12	129			
<b>1040-MXL</b>	<b>264.16</b>	<b>130</b>			
<b>1056-MXL</b>	<b>268.22</b>	<b>132</b>			
1072-MXL	272.28	134			
<b>1112-MXL</b>	<b>282.44</b>	<b>139</b>			
<b>1120-MXL</b>	<b>284.48</b>	<b>140</b>			
1144-MXL	290.57	143			
1160-MXL	294.64	145			
<b>1200-MXL</b>	<b>304.80</b>	<b>150</b>			
1240-MXL	314.96	155			

Available in widths of 3.2 mm (code 012), 4.8 mm (code 019) and 6.4 mm (code 025).

PowerGrip® MXL ordering code is composed as follows:

**288-MXL-019**

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

Dimensions in bold are available from stock.