

Ordering Information

Part Number Example

Bushing Bore

· Add M for Metric

 Leave blank for Inches

Bushing Size

CMT24-3MR15-0909-6M

Product Name Number of Teeth

Belt Width

09 = 9MM

15 = 15MM

Series

2MR = 2MM GT®

3MR = 3MM GT®

5MR = 5MM GT®

3M = 3MM HTD®

5M = 5MM HTD®

To Order:

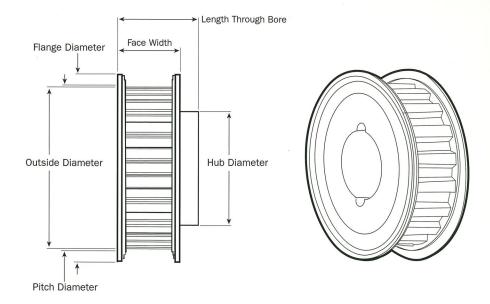
- 1. Select part number from stock charts
- 2. Add desired bore size based on bushing size in part number. Refer to chart below for bushing bores available

*Metric bores available in whole millimeters. Inch bores available in .0625 increments to .750, .125 increments from .750 to 1.000



CMT Bushing Part Number	Bushing Bore* mm/in
0606	3-6/.125250
0609	3-6/.125250
0909	4-9/.1875375
0912	5-9/.1875375
1212	6-12/.250500
1216	6-12/.250500
1616	8-16/.3125625
1620	8-16/.3125625
2020	10-20/.4375750
2025	10-20/.4375750
2530	12-25/.500-1.000

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Style Codes:

- 3F Flanges both sides, no hub
- 3 No flanges, no hub
- 6F Flanges both sides with hub (as shown)
- 6 No flanges with hub

Concentric Maxi Torque Stock Synchronous Pulley Charts

2MM GT® 2 Synchronous Pulleys

9mm (.354 in) Wide Belts (2MR-09) - .530 Face Width

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CMT	No. of		Nominal Dimensions									
Part Number	No. of Grooves	Style	Pitch Diameter	Outside Diameter	Flange O.D.	Length thru Bore	Hub Diameter					
CMT26-2MR09-0606	26	3F	0.652	0.632	0.840	0.530						
CMT28-2MR09-0609	28	3F	0.702	0.682	0.895	0.530						
CMT30-2MR09-0609	30	3F	0.752	0.732	0.945	0.530						
CMT32-2MR09-0609	R09-0609 32		0.802	0.782	1.000	0.530						
CMT36-2MR09-0909	MR09-0909 36		0.902	0.882	1.105	0.530						
CMT40-2MR09-0912	-0912 40		1.003	0.983	1.210	0.530						
CMT45-2MR09-1212	45	3F	1.128	1.108 1.340 0.530		0.530						
CMT50-2MR09-1212	50	3F	1.253	1.233	1.470	0.530						
CMT56-2MR09-1616	56	6	1.404	1.384		0.655	1.10					
CMT62-2MR09-1616	62	6	1.554	1.534		0.655	1.10					
CMT68-2MR09-1616	68	6	1.704	1.684		0.655	1.10					
CMT74-2MR09-1616	74	6 1.855 1.835		0.655	1.10							
CMT80-2MR09-1616	80	6	2.005	1.985		0.655	1.10					

Concentric Maxi Torque Stock Synchronous Pulley Charts

3MM GT® 2 Synchronous Pulleys

15mm (.591 in) Wide Belts (3MR-15) - .780 Face Width

CMT	No. of		Nominal Dimensions									
Part Number	Grooves	Style	Pitch Diameter	Outside Diameter	Flange O.D.	Length thru Bore	Hub Diameter					
CMT19-3MR15-0606	19	3F	0.714	0.684	0.827	0.780						
CMT20-3MR15-0609	20	3F	0.752	0.722	0.895	0.780						
CMT21-3MR15-0609	21	3F	0.790	0.760	0.895	0.780						
CMT22-3MR15-0609	22	3F	0.827	0.797	0.945	0.780						
CMT24-3MR15-0909	24	3F	0.902	0.872	1.025	0.780						
CMT26-3MR15-0912	26	3F	0.977	0.947	1.105	0.780						
CMT28-3MR15-0912	28	3F	1.053	1.023	1.173	0.780						
CMT30-3MR15-0912	30	3F	1.128	1.098	1.250	0.780						
CMT32-3MR15-0912	32	3F	1.203	1.173	1.323	0.780						
CMT34-3MR15-0912	34	3F	1.278	1.248	1.398	0.780						
CMT36-3MR15-0912	36	3F	1.353	1.323	1.478	0.780						
CMT38-3MR15-0912	38	3F	1.429	1.399	1.549	0.780						
CMT40-3MR15-1616	40	3F	1.504	1.474	1.625	0.780						
CMT45-3MR15-1616	45	3F	1.692	1.662	1.775	0.780						
CMT50-3MR15-1616	50	3	1.880	1.850		0.780						
CMT56-3MR15-1616	56	3	2.105	2.075		0.780						
CMT62-3MR15-2020	62	6	2.331	2.301		0.827	1.63					
CMT68-3MR15-2020	68	6	2.557	2.527		0.827	1.63					
CMT74-3MR15-2020	74	6	2.782	2.752		0.827	1.75					
CMT80-3MR15-2020	80	6	3.008	2.978		0.827	2.00					

5MM GT® 2 Synchronous Pulleys

15mm (.591 in) Wide Belts (5MR-15) - .83 Face Width

No. 01	CMT	No. of			Nominal	Dimensio	ns	
CMT19-5MR15-1216 19 3F 1.191 1.146 1.315 0.83 CMT20-5MR15-1216 20 3F 1.253 1.208 1.437 0.83 CMT21-5MR15-1216 21 3F 1.316 1.271 1.437 0.83 CMT22-5MR15-1216 22 3F 1.379 1.334 1.500 0.83 CMT23-5MR15-1216 23 3F 1.441 1.396 1.562 0.83 CMT24-5MR15-1620 24 3F 1.504 1.459 1.625 0.83 CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT40-5MR15-2020 45 3 2.820 2.775 0.83 CMT56-5MR15-2020 62 3 3.885 3.840* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT62-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50			Style	Pitch Diameter			0	
CMT20-5MR15-1216 20 3F 1.253 1.208 1.437 0.83 CMT21-5MR15-1216 21 3F 1.316 1.271 1.437 0.83 CMT22-5MR15-1216 22 3F 1.379 1.334 1.500 0.83 CMT23-5MR15-1216 23 3F 1.441 1.396 1.562 0.83 CMT24-5MR15-1620 24 3F 1.504 1.459 1.625 0.83 CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT30-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT32-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT34-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 <td< td=""><td>CMT18-5MR15-1212</td><td>18</td><td>3F</td><td>1.128</td><td>1.083</td><td>1.250</td><td>0.83</td><td></td></td<>	CMT18-5MR15-1212	18	3F	1.128	1.083	1.250	0.83	
CMT21-5MR15-1216 21 3F 1.316 1.271 1.437 0.83 CMT22-5MR15-1216 22 3F 1.379 1.334 1.500 0.83 CMT23-5MR15-1216 23 3F 1.441 1.396 1.562 0.83 CMT24-5MR15-1620 24 3F 1.504 1.459 1.625 0.83 CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT56-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 62 3 3.885 3.840* 0.83 CMT62-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT19-5MR15-1216	19	3F	1.191	1.146	1.315	0.83	
CMT22-5MR15-1216 22 3F 1.379 1.334 1.500 0.83 CMT23-5MR15-1216 23 3F 1.441 1.396 1.562 0.83 CMT24-5MR15-1620 24 3F 1.504 1.459 1.625 0.83 CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT36-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT50-5MR15-2020 45	CMT20-5MR15-1216	20	3F	1.253	1.208	1.437	0.83	
CMT23-5MR15-1216 23 3F 1.441 1.396 1.562 0.83 CMT24-5MR15-1620 24 3F 1.504 1.459 1.625 0.83 CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT56-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 62 3 3.885 3.840* 0.83 CMT62-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT90-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT21-5MR15-1216	21	3F	1.316	1.271	1.437	0.83	
CMT24-5MR15-1620 24 3F 1.504 1.459 1.625 0.83 CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT56-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 62 3 3.885 3.840* 0.83 CMT62-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT22-5MR15-1216	22	3F	1.379	1.334	1.500	0.83	
CMT25-5MR15-1620 25 3F 1.566 1.521 1.687 0.83 CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* <t< td=""><td>CMT23-5MR15-1216</td><td>23</td><td>3F</td><td>1.441</td><td>1.396</td><td>1.562</td><td>0.83</td><td></td></t<>	CMT23-5MR15-1216	23	3F	1.441	1.396	1.562	0.83	
CMT26-5MR15-1620 26 3F 1.629 1.584 1.750 0.83 CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT56-5MR15-2020 50 3 3.133 3.088* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83	CMT24-5MR15-1620	24	3F	1.504	1.459	1.625	0.83	
CMT28-5MR15-1620 28 3F 1.754 1.709 1.875 0.83 CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT62-5MR15-2020 56 3 3.509 3.464* 0.83 CMT68-5MR15-2020 62 3 3.885 3.840* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63	CMT25-5MR15-1620	25	3F	1.566	1.521	1.687	0.83	
CMT30-5MR15-1620 30 3F 1.880 1.835 2.000 0.83 CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT62-5MR15-2020 56 3 3.509 3.464* 0.83 CMT68-5MR15-2020 62 3 3.885 3.840* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00	CMT26-5MR15-1620	26	3F	1.629	1.584	1.750	0.83	
CMT32-5MR15-1620 32 3F 2.005 1.960 2.125 0.83 CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT62-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT28-5MR15-1620	28	3F	1.754	1.709	1.875	0.83	
CMT34-5MR15-1620 34 3F 2.130 2.085 2.250 0.83 CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT30-5MR15-1620	30	3F	1.880	1.835 2.000		0.83	
CMT36-5MR15-2020 36 3 2.256 2.211 0.83 CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT32-5MR15-1620	32	3F	2.005	1.960	2.125	0.83	
CMT38-5MR15-2020 38 3 2.381 2.336 0.83 CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT34-5MR15-1620	34	3F	2.130	2.085	2.250	0.83	
CMT40-5MR15-2020 40 3 2.506 2.461 0.83 CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT36-5MR15-2020	36	3	2.256	2.211		0.83	
CMT45-5MR15-2020 45 3 2.820 2.775 0.83 CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT38-5MR15-2020	38		2.381	2.336		0.83	
CMT50-5MR15-2020 50 3 3.133 3.088* 0.83 CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT40-5MR15-2020	40		2.506	2.461		0.83	
CMT56-5MR15-2020 56 3 3.509 3.464* 0.83 CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT45-5MR15-2020	45	3	2.820	2.775		0.83	
CMT62-5MR15-2020 62 3 3.885 3.840* 0.83 CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT50-5MR15-2020	50		3.133	3.088*		0.83	
CMT68-5MR15-2020 68 3 4.261 4.216* 0.83 CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT56-5MR15-2020	56		3.509	3.464*			
CMT74-5MR15-2530 74 6 4.637 4.592* 1.24 3.63 CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT62-5MR15-2020	62	3	3.885	3.840*		0.83	
CMT80-5MR15-2530 80 6 5.013 4.968* 1.24 4.00 CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT68-5MR15-2020	68	3	4.261	4.216*		0.83	
CMT90-5MR15-2530 90 6 5.639 5.594* 1.24 4.50	CMT74-5MR15-2530	74	6	4.637	4.592*		1.24	3.63
	CMT80-5MR15-2530	80	6	5.013	4.968*		1.24	4.00
CMT112-5MR15-2530 112 6 7.018 6.973* 1.24 6.00	CMT90-5MR15-2530	90	6	5.639	5.594*		1.24	4.50
	CMT112-5MR15-2530	112	6	7.018	6.973*		1.24	6.00

3MM Pitch HTD® Synchronous Pulleys

9mm (.354 in) Wide Belts (3M-09) - .550 Face Width

OMT	Nf		Nominal Dimensions								
CMT Part Number	No. of Grooves	Style	Pitch Diameter	Outside Diameter	Flange O.D.	nge Length thru Bore D D	Hub Diameter				
CMT18-3M09-0606	18	3F	0.677	0.647	0.790	0.550					
CMT19-3M09-0609	19	3F	0.714	0.684	0.827	0.550					
CMT20-3M09-0609	20	3F	0.752	0.722	0.895	0.550					
CMT22-3M09-0609	22	3F	0.827	0.797	0.945	0.550					
CMT24-3M09-0909	24	3F	0.902	0.872	1.025	0.550					
CMT26-3M09-0909	26	3F	0.977	0.947	1.105	0.550					
CMT28-3M09-0909	28-3M09-0909 28		1.053	1.023	1.173	0.550					
CMT30-3M09-1212	30	3F	1.128	1.128 1.098		0.550					
CMT32-3M09-1212	32	3F	1.203	1.173	1.323	0.550					
CMT34-3M09-1212	34	3F	1.278	1.248	1.398	0.550					
CMT36-3M09-1212	36	3F	1.353	1.324	1.470	0.550					
CMT38-3M09-1212	38	3F	1.429	1.399	1.549	0.550					
CMT40-3M09-1212	40	3F	1.504	1.474	1.625	0.550					
CMT44-3M09-1212	44	3F	1.654	1.624	1.775	0.550					
CMT50-3M09-1616	50	6	1.880	1.850		0.700	1.25				
CMT56-3M09-1616	56	6	2.105	2.075		0.700	1.25				
CMT62-3M09-1616	62	6	2.331	2.301		0.700	1.25				
CMT72-3M09-1616	72	6	2.707	2.677		0.700	1.63				

5MM HTD® Synchronous Pulleys

15mm (.591 in) Wide Belts (5M-15) - .78 Face Width

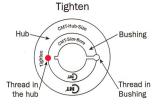
	0111111 (.0.	J = 111)	WIGC DOILS (O	W 10) .70	1400 11	ideii	
CMT	No. of			Nominal	Dimensio	ns	
Part Number	Style		Pitch Diameter	Outside Diameter	Flange O.D.	Length thru Bore	Hub Diameter
CMT14-5M15-0909	14	3F	0.877	0.832	1.000	0.78	
CMT15-5M15-0912	15	3F	0.940	0.895	1.063	0.78	
CMT16-5M15-0912	16	3F	1.003	0.958	1.080	0.78	
CMT17-5M15-0912	17	3F	1.065	1.020	1.187	0.78	
CMT18-5M15-0912	18	3F	1.128	1.083	1.250	0.78	
CMT19-5M15-1212	19	3F	1.191	1.146	1.312	0.78	
CMT20-5M15-1216	20	3F	1.253	1.208	1.437	0.78	
CMT22-5M15-1216	22	3F	1.379	1.334	1.500	0.78	
CMT24-5M15-1216	24	3F	1.504	1.459	1.625	0.78	
CMT26-5M15-1216	26	3F	1.629	1.584	1.750	0.78	
CMT28-5M15-1620	28	6F	1.754	1.709	1.875	0.82	1.25
CMT30-5M15-1620	30	6F	1.880	1.835	2.000	0.82	1.32
CMT32-5M15-1620	32	6F	2.005	1.960	2.125	0.82	1.45
CMT34-5M15-2025	34	6F	2.130	2.085	2.250	1.05	1.58
CMT36-5M15-2025	36	6	2.256	2.211		1.05	1.58
CMT38-5M15-2025	38	6	2.381	2.336		1.05	1.58
CMT40-5M15-2025	40	6	2.506	2.461		1.05	1.58
CMT44-5M15-2025	44	6	2.757	2.712		1.05	1.75
CMT50-5M15-2025	50	6	3.133	3.088*		1.05	2.25
CMT56-5M15-2025	56	6	3.509	3.464*		1.05	2.50
CMT62-5M15-2025	62	6	3.885	3.840*		1.05	2.75
CMT72-5M15-2025	72	6	4.511	4.466*		1.05	3.37

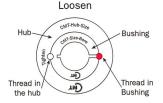
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^{*}Pulleys larger than 3 inches are not clear anodized

Assembly Instructions





TO TIGHTEN: insert bushing in hub as shown with half threaded hole in hub aligned with half plain hole in bushing. Insert set screw and torque to recommended value.

TO LOOSEN: insert set screw in hole opposite tightening position and torque until bushing breaks free from hub.

WARNING: Before working on any machinery be sure proper lockout and tag out procedures have been followed. Failure to follow these procedures may result in serious bodily injury.

TO INSTALL

Clean shaft, bore of bushing, outside of bushing and hub bore of all oil, paint and dirt. Make sure there are no sharp edges and remove all burrs.

CAUTION: Do not lubricate any of the components during assembly. Doing so may result in less than desirable results and possible breakage of the components. All parts should slide together without lubrication.

Insert the bushing in the hub so that one half of a threaded hole lines up with one half of a non threaded hole in the mating part.

Insert the supplied set screw into the hole that has the threads on the hub component. This hole is opposite the half threaded bushing hole with the slit in it.

CAUTION: Only use the set screw that is supplied with the bushing. It has been specifically designed and machined to work in the bushing system. Failure to use the correct screw may prevent the components from being disassembled or achieving the proper holding torque.

Tighten the set screw loosely until the two components come together and then back the screw off two full turns. The bushing should be free to float in the hub but will not fall out.

Screw Size	in-lbs*	Nm*
M2.5	6.0	.68
М3	9.0	1.00
M4	19.0	2.10
M5	42.0	4.70
M6	68.0	7.70
M8	158.0	17.80

^{*}Maximum torques

Position the assembly on the shaft in its approximate final location. Tighten the set screw loosely until the bushing begins to grip the shaft. Move the component to its final axial and rotational position and finish tightening the set screw to the recommended tightening torque in the chart below to provide the drive torque.

CAUTION: The shaft must be of proper size and tolerance (h6), for the bushing bore (H7) being used. Failure to assure the proper size shaft is being used could result in component failure, reduction of holding torque, or the inability to assemble the components.

*Do not over tighten the set screw. Over tightening will not necessarily produce more torque, but it could deform the components, cause problems disassembling the components, and may cause component failure.

Recheck set screw torque after initial run in and periodically thereafter. Retighten if necessary.

TO REMOVE

Remove the set screw from the assembly hole and reinsert it in the hole opposite the assembly hole.

Continue turning the screw with a hex wrench until the bushing is pushed out of the hub thereby releasing it from the shaft. This may require torques greater than the installation torque.

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products it is important that the correct procedures be followed. Products must be used in accordance with their engineering information in the catalog. Proper installation, maintenance and operation procedures and instructions must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided. Such devices are neither provided by Custom Machine & Tool Co., Inc. nor are the responsibility of Custom Machine & Tool Co., Inc. This product must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and potential hazards involved.

Concentric Maxi Torque - Maximum Transmission Torques (in-lbs)

S	Bushing						Shaf	t Diaı	mete	r in Ir	nches					
Size	Size	.125	.188	.250	.313	.375	.438	.500	.563	.625	.688	.750	.813	.875	.938	1.000
M2.5	0606	14	24	33												
МЗ	0609	16	28	37												
МЗ	0909		33	43	54	65										
M4	0912		68	79	98	117										
M4	1212			79	98	117	120	138								
M5	1216			138	173	207	242	345								
M5	1616				168	208	243	348	392	436						
M5	1620				389	468	530	698	752	875						
M6	2020						531	698	755	879	975	1100				
M6	2025						538	703	760	885	980	1120				
M8	2530							1115	1327	1416	1504	1593	1875	2053	2200	2347

Note

S=Bushing set screw size.

- · Refer to Assembly Instructions for screw assembly torque
- · Chart torque is the maximum modeled torque before slippage under ideal conditions.
- · Actual torque will vary based on operating conditions screw torque and shaft size.
- · Appropriate service factors should be applied based on consideration of all operating conditions.

Service factors to be used with the above chart

- 1.0 Light starting and intermittent running
- 1.2 Light starting and steady running
- 1.5 Light starting and uneven running
- 2.0 Fairly heavy starting and steady or uneven running
- 2.5 Light or heavy starting and moderate shock running
- 3.0 Light or heavy starting and severe shock running, or reversing loads



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Revolutionary Keyless Hub-to-Shaft Connection System

CMT Experience

Maintenance, Vibration and Runout Vastly Reduced



Customer Situation: GBR Systems Corp., a manufacturer of paper handling equipment, was using set screws to connect a high-speed drive pulley, running a Gates Polyflex JB belt, to a 3/8 in. shaft. The set screws would loosen during clutching and breaking at high RPMs, causing the machine to malfunction and damage to the belt. Constantly tightening the set screws resulted in loss of machine productivity and increased maintenance costs.

CMT Solution: After investigating the cost of alternative connection methods, GBR turned to CMT and the Concentric Maxi Torque system. GBR concluded that the CMT system provided a positive connection that eliminated the need for secondary machining of the shaft, decreased vibration and reduced runout. Maintenance costs and down time were dramatically reduced due to the benefits of the CMT system.

Since its introduction in 2000, the Concentric Maxi Torque system has **NEVER** failed a customer.

- Superior concentricity and flexible positioning
- Twelve sizes cover bores from .125 in. (2mm) to 1.1875 in. (30mm)
- Outperforms set screws, keyways, pins, clamp collars, etc.
- Perfect for timing pulleys, gears, sprockets, pinch rollers, couplings and more...

Innovative. CMT's patented keyless hub to shaft connection system enables customers to easily phase, install, adjust and remove drive components, all while offering precise component positioning.

Concentric. With radial runout less than .001/.026mm as assembled, the CMT system enables customers to attain higher drive speeds, reduce unwanted vibration and maintain concentricity, offering a superior connection solution.

Reliable. The mechanical shrink fit accomplished by the CMT system provides torque capacity which far exceeds that of two set screws arranged perpendicular to the shaft, offering the most reliable connection in the industry.

Economical. The compact design eliminates the need for the extended hubs used to accommodate set screws, allowing motion systems engineers to design drives which are lighter and use less space. Additionally, the shaft damage and added expense of shaft modification often associated with the use of set screws or pins is eliminated.

Versatile. The Concentric Maxi Torque system is currently being manufactured for synchronous belt drives in standard inch and metric pitches, for shaft sizes ranging from .125 in. (2mm) to 1.1875 in. (30mm). Other drive systems, including gears, sprockets, bearing assemblies, couplings, etc., will be quoted upon request.

Details at www.cmtco.com - Click on Concentric Maxi Torque

Join the Revolution! Design the CMT system into your next project.



Precise. Reliable. Cost Effective.

CMT is your source for custom and unique timing pulleys. We've been providing superior manufacturing solutions since 1964.

- Inch/Metric pitch pulleys and belts
- Manufactured to the latest industry standards
- Flexible delivery to meet your requirements
- ▶ Split deliveries, Kanban, JIT, etc.

Precise. In today's high performance driven world there's no room for error when manufacturing a custom designed product. CMT has been manufacturing precise, reliable custom designed components for the PT/MC industry for over 43 years. Our investment in state-of-the-art CNC machines, coupled with the expertise of our seasoned machinists, enable us to consistently machine parts to within 50 millionths of an inch.

Comprehensive. We provide our customers with a full range of timing pulleys, timing belts, timing pulley stock, and timing pulley flanges in aluminum, stainless steel, steel, plastic, brass and bronze for both stock and custom applications. CMT precision generates its pulley teeth one part at a time, ensuring the lowest possible runout and best tooth profile. We also produce custom v-ribbed pulleys, tapered bushings, sprockets, assemblies, idler bearings, and other industrial power transmission components.

Performance. CMT supplements its manufacturing capabilities with many additional value added services including, product assembly, kanban, just-in-time inventory, drop shipments, custom packaging and laser engraving.

Details at www.cmtco.com - Click on Product Catalog

Buy the best. Buy CMT.



CMT Experience

Precision, Concentricity and Reduced Runout



Customer Situation: MarquipWardUnited, a manufacturer of finishing equipment for the corrugated machinery was bolting two idler pulleys of different widths and diameters together in an effort to run two drive belts within close proximity of each other. The bolted pulleys were unable to maintain concentricity and were a costly attempt at solving the problem.

CMT Solution: By designing and manufacturing a dual idler pulley from one piece of material CMT was able to supply a precision product that held concentricity and reduced runout, extending the life of the product and the machine while saving the customer time and money.

CMT® Pulley Stock - Guaranteed When You Need It!*

CMT offers the best quality and service in the industry. Period.

- > 72 hour guaranteed delivery on 5 pieces or less*
- Any pitch and number of teeth
- Matching flanges and belts also available
- Volume purchase price breaks

Trusted. CMT has been the preferred choice for pulley stock at OEM's for over 30 years. We now have a pricing and delivery program for distributors that will increase profits and deliver product quicker than anyone in the pulley stock business.

Inclusive. Our experience working with distributors has helped us create helpful tools that make finding and ordering the parts you need both quick and easy. The CMT website offers a complete list of pulley stock that includes all popular pitch types and tooth counts, as well as a complete list of matching flanges, providing you with a one-stop solution for all your pulley stock needs.

Available. Call us at 1-800-355-5949 and we'll give you a quote right over the phone. Then, upon receipt of your order, we'll ship your product within 72 hours (3 business days) guaranteed or we'll pay the freight. Visit www.cmtco.com for details.

Affordable. Offering the best product, service and price to our customers enables you to increase profits and grow your business. The next time you need timing pulley stock, make sure you look for the CMT logo to ensure you've got the best product for your customer.

- *Details at www.cmtco.com
- Click on Pulley Stock Program

We want your pulley stock business and we're out to prove it!



CMT Experience

Guarantee Assures Customer Delivery Demands



Customer Situation: Innovative Robotics, a manufacturer of SCARA Robots, used in semiconductor fabrication facilities, needed a source for quick availability of pulley stock based on their customer's short product notification lead times. Current sources were unable to meet the lead time requirements, making it difficult for Innovative Robotics to meet their customer's needs.

CMT Solution: After searching for a more responsive source for pulley stock, Innovative Robotics contacted CMT upon learning about our 72-hour delivery guarantee. CMT's Pulley Stock Promise now enables them to take customer order's with confidence, knowing they have a source that can meet their required lead times.



CMT is a full line Gates Industrial Power Transmission System Distribution Partner. Making Your Products Better™

Increased Product Life and Efficiency

Customer Situation: A global manufacturer of mail sorting equipment was using bulky, unreliable clamp collars to connect multiple drive rollers to a shaft within a paper handling system. The clamp collars added weight, contributing to performance problems due to increased inertia.

Cmt Solution: CMT redesigned the rollers to include the Concentric Maxi Torque connection system, eliminating the need for clamp collars and reducing the weight of the component. This resulted in a dramatic decrease in inertia and amp draw, enabling the machine to run more efficiently and lengthening the life of the product.

Zero Loss of Registration Plus Cost Effectiveness

Customer Situation: Gerber Scientific, a manufacturer of ophthalmic lens processing equipment, was working with a unique cable spool and pulley assembly, consisting of eleven separate components and unreliable fasteners that caused the pulley to separate from the spool and lose registration during operation.

Cmt Solution: CMT's engineering team redesigned the component, eliminating the fasteners and integrating the pulley and spool as a single component. The new design was substantially more cost effective and provided perfect registration during operation.

Improved Concentricity and Positional Accuracy

Customer Situation: KMC Systems Inc., a designer of precision automated medical instruments, was having trouble with a pulley-to-shaft connection within an automated analyzer. Positional accuracy is extremely important in this application, but loosening set screws and other connection methods proved unreliable, and constant rework and repairs were difficult and costly.

CMT Solution: After deciding that a better connection system was needed, the designers discovered the Concentric Maxi Torque system. By integrating the CMT connection system, they were able to improve concentricity, which in turn, improved positional accuracy. The CMT system also eliminated the need for flats on the mating shaft, providing a more cost effective AND reliable solution.







Over 40 years of manufacturing exceptional power transmission and motion control components have shown us that

your success is our success.





Our product offering contains all popular timing pulley tooth designs including Trapezoidal inch and metric, AT metric, HTD® metric curvilinear, and Gates PowerGrip® GT, and Zero Backlash.

Our state of the art facility enables us to provide a full range of timing pulleys, timing belts, timing pulley stock, and timing pulley flanges, in a variety of materials, for both stock and custom applications.

We also produce sprockets, custom v-ribbed pulleys, tapered bushings, idler bearings, assemblies and other industrial power transmission components, and offer value added services such as kanban and JIT delivery options and laser engraving services.

CMT has developed and patented (US patent #6,568,063) a new and revolutionary hub to shaft connection device, which allows for precise component positioning and tight runout control on demanding applications. At the same time it is easy to install and remove, and is economical to manufacture.

Our keyless hub to shaft connection device has superior features and benefits compared to other connection systems such as keyways, pins, set screws, clamp collars, and other tapered shaft locking devices.

The new system, called Concentric Maxi Torque, is available for immediate inclusion in our full offering of timing belt pulleys and can be designed into any custom application.

We are confident that you will not find another hub to shaft locking connection system device or system that provides a better solution to your motion control and power transmission shaft attachment requirements.

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