



SYNCHRONOUS BELTS FOR UNMATCHED POWER CAPACITY

POLY CHAIN® GT CARBON™

Polyurethane synchronous belt with patented carbon tensile cords

Through providing you with precise drive solutions of unsurpassed quality and leading edge technology Gates brings you the ultimate in synchronous drive systems. Poly Chain® GT Carbon™ is Gates' newest polyurethane synchronous belt with patented carbon tensile cord design also suited for high torque, low speed drives. The materials development engineers from Gates are the first to have incorporated a high fatigue-resisting carbon fibre tensile cord into the belt which is made of a new polyurethane compound. Consequently, Poly Chain® GT Carbon™ is the most powerful synchronous belt in the market providing a maintenance-free, energy saving and environmentally friendly operation offering an excellent alternative to roller chain and gear drives.





Identification

Three part number on the back of the belt indicating tooth pitch, pitch length and belt width in millimeters. Belt inside colour is blue.

Construction

- The basic belt consists of a newly developed tough, lightweight polyurethane compound which is chemically resistant and ensures optimum adhesion with the carbon tensile cords.
- The carbon fibre reinforcement provides high strength and length stability with improved shock load and fatigue resistance, while reducing stretch and increasing flexibility.
- The facing is a nylon fabric that acts as a wear resistant surface, protecting the teeth. It also helps keep frictional losses to a minimum.
- The special modified curvilinear tooth profile improves stress distribution and allows higher overall loading.
- · Now also available in two special belt constructions:
 - Poly Chain® GT Carbon™ High Temperature

Special polyurethane compound provides superb heat resistance. It enables the belt to remain fully operational under extreme temperatures ranging up to 120°C and even up to 140°C during shorter periods;

- Poly Chain® GT Carbon™ Hot Oil

Special polyurethane compound provides superb oil and heat resistance, ensuring a problem-free operation in oil environments at temperatures ranging up to 120°C (suitable for transfer cases, gear boxes...).

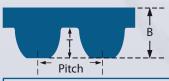
Advantages

• Extraordinary power capacity: at least 25% higher power ratings than Poly Chain® GT2 belts.

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- Clean, quiet, compact, durable, maintenance-free, energy saving and environmentally friendly operation.
- · Virtual constant belt tension over belt life.
- Ability to use back idlers.
- Designed to fit with current Poly Chain® GT pulleys.
- Suitable for temperatures from -54°C to +85°C. Special versions can be used up to 140°C.
- Wide application range: industrial equipment (mining, construction, food and beverage, wood, paper, pulp, textile), conveying equipment, lifting and handling equipment, agricultural and forestry equipment, machine tools, motorcycle rear wheel drives, bicycle drives ... and many more.

Sections and nominal dimensions



	Pitch	Т	В
	mm	mm	mm
8MGT	8.0	3.4	5.9
14MGT	14.0	6.0	10.2



Pitch: 8 mm		8MGT			14MGT		NOTES Poly Chain® GT Carbon™ High Temperature and
Description Pitch length mm mm mm mm mm mm mm		Pitch: 8 mm		F	Pitch: 14 mm		Poly Chain® GT Carbon™ Hot Oil are available in
## Teeth	Description	Pitch length		Description	Pitch length		,
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8MGTC-800 800 100 14MGTC-1190 1190 85 Due to a new production process which enables belt manufacture in per-tooth enables belt manufacture in per-tooth enables belt manufacture in per-tooth and increments, Gates is able to manufacture longer enables belt manufacture longer enables belt manufacture longer enables belt manufacture longer Poly Chain* GT Carbon ™ enables belt manufacture longer Poly Chain* GT Carbon ™ enables belt sand wider Long Length Poly Chain* GT Carbon ™ open-end belts the MGTC-1200 1120 14MGTC-1568 158 112 Poly Chain* GT Carbon ™ enables belt manufacture longer Poly Chain* GT Carbon ™ open-end belts the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the manufacture longer the manufacture longer the manufacture longer Poly Chain* GT Carbon ™ open-end belts to the ma	8MGTC-640	640	80	14MGTC-994	994	71	i epi eserridare.
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8MGTC-896 896 112 14MGTC-1260 1260 90 enables belt manufacture in per-tooth increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments, Gates is able to manufacture longer and wider increments. MGTC-1200 1120 14MGTC-1560 1610 115 14MGTC-1200 1200 135 14MGTC-1960 1960 140 8MGTC-1280 1280 160 14MGTC-2100 190 150 190	8MGTC-800	800	100	14MGTC-1190	1190	85	Due to a new production process which
8MGTC-960 960 120 14MGTC-1400 1400 100 8MGTC-1040 1040 130 14MGTC-1568 1568 112 Poly Chain® GT Carbon™ enaless belts and wider Poly Chain® GT Carbon™ open-end belts Non-standard lengths from 1600 mm to virtually any Poly Chain® GT Carbon™ open-end belts Non-standard lengths from 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any Poly Chain® GT Carbon™ 1600 mm to virtually any	8MGTC-896	896	112	14MGTC-1260	1260		
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8MGTC-1120 1120 140 140 14MGTC-1750 1750 125 8MGTC-1200 1200 150 14MGTC-1890 1890 135 8MGTC-1224 1224 153 14MGTC-1960 1960 140 8MGTC-1280 1280 160 14MGTC-2240 2240 160 8MGTC-1600 1600 200 14MGTC-2240 2240 160 8MGTC-1600 1760 220 14MGTC-2310 2310 165 8MGTC-1792 1792 224 14MGTC-2380 2380 170 8MGTC-2000 2000 250 14MGTC-2520 2520 180 8MGTC-2240 2240 280 14MGTC-2500 2500 180 8MGTC-2400 2400 300 14MGTC-2500 2500 180 8MGTC-2500 2500 350 14MGTC-2500 2500 180 8MGTC-2500 2500 350 14MGTC-2500 2500 180 8MGTC-2500 2500 350 14MGTC-2500 2500 180 8MGTC-2500 2600 325 14MGTC-2500 2500 250 8MGTC-2840 2840 355 14MGTC-3360 3360 240 8MGTC-3048 3048 381 14MGTC-3304 3304 236 8MGTC-3048 3048 381 14MGTC-3500 3500 250 8MGTC-3280 3280 410 14MGTC-3500 3500 250 8MGTC-3600 3600 450 14MGTC-3500 3500 250 8MGTC-3600 3600 450 14MGTC-3500 3500 3500 8MGTC-3600 3600 450 14MGTC-3500 3500 3500 8MGTC-3600 3600 450 14MGTC-3500 3500 3500 3500 3500 3500 3500 3500	8MGTC-1040	1040	130	14MGTC-1610	1610	115	
8MGTC-1200 1200 150 14MGTC-1890 1890 135 8MGTC-1280 1280 160 14MGTC-1960 1960 140 8MGTC-1440 1440 180 180 14MGTC-2100 2100 150 14MGTC-1600 1600 200 14MGTC-2240 2240 160 14MGTC-1600 1760 220 14MGTC-2310 2310 165 8MGTC-1760 1760 220 14MGTC-2380 2380 170 8MGTC-2200 2000 250 14MGTC-2520 2520 180 8MGTC-2240 2240 280 14MGTC-2520 2520 180 8MGTC-2240 2240 280 14MGTC-2520 2520 180 8MGTC-2240 2240 280 14MGTC-2520 2520 180 14MGTC-3304 3304 236 14MGTC-3304 3304 236 14MGTC-3304 3304 236 14MGTC-3304 3304 236 14MGTC-3300 3500 250 14MGTC-3300 3500 250 14MGTC-3300 3500 250 14MGTC-3300 3500 250 14MGTC-3320 3200 400 8MGTC-3280 3280 410 14MGTC-3360 3850 275 14MGTC-3360 3600 450 8MGTC-3280 3280 410 14MGTC-3326 3326 309 8MGTC-3480 4480 560 450 8MGTC-4480 4480 560 4480 4480 560 4480 4480 560 4480 4480 560 4480 4480 560 4480 560 448	8MGTC-1120	1120	140	14MGTC-1750	1750	125	
8MGTC-1280 1280 160 14MGTC-2100 2100 150 14MGTC-1600 1600 200 14MGTC-2240 2240 160 14MGTC-1600 1600 200 14MGTC-2310 2310 165 14MGTC-2380 2380 170 14MGTC-2300 2000 250 14MGTC-2250 2520 180 14MGTC-2240 2240 160 1600 200 14MGTC-2200 2500 275 14MGTC-2520 2520 180 14MGTC-2240 2240 160 1600 200 1600 1600 200 1600 1600 1	8MGTC-1200	1200	150	14MGTC-1890	1890	135	
#MGTC-1440 1440 180 180 14MGTC-2240 2240 160 14MGTC-2310 2310 165 14MGTC-1760 1760 220 14MGTC-2380 2380 170 14MGTC-2300 2000 250 14MGTC-2520 2520 180 185 14MGTC-2240 2240 2240 2240 2240 2240 2240 2240	8MGTC-1224	1224	153	14MGTC-1960	1960	140	
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8MGTC-1760 1760 220	8MGTC-1440	1440	180	14MGTC-2240	2240	160	
8MGTC-1792 1792 224 8MGTC-2000 2000 250 8MGTC-2200 2200 275 8MGTC-2240 2240 280 8MGTC-2400 2400 300 8MGTC-2500 250 315 8MGTC-2660 2660 190 14MGTC-2800 2800 200 8MGTC-2500 2520 315 8MGTC-2600 2600 325 8MGTC-2800 2800 350 14MGTC-3364 3364 236 8MGTC-2840 2840 355 8MGTC-3048 3048 381 8MGTC-3048 3048 381 8MGTC-300 3200 400 8MGTC-3200 3200 400 8MGTC-4400 4000 500 8MGTC-4400 4400 550 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, Available in widths of 12 mm, 21 mm,	8MGTC-1600	1600	200	14MGTC-2310	2310	165	
8MGTC-2000 2000 250 14MGTC-2520 2520 180 8MGTC-2240 2240 280 14MGTC-2660 2660 190 14MGTC-2520 2520 315 14MGTC-2800 2800 200 8MGTC-2520 2520 315 14MGTC-3360 3360 240 8MGTC-2840 2840 355 14MGTC-3360 3500 250 8MGTC-3048 3048 381 8MGTC-3200 3200 400 8MGTC-3200 3200 400 8MGTC-3200 3200 400 8MGTC-3200 3200 400 8MGTC-3200 3280 410 8MGTC-3860 3600 450 8MGTC-3000 3600 450 8MGTC-3400 4000 500 8MGTC-4400 4400 550 8MGTC-4400 4400 550 8MGTC-44400 4400 550 8MGTC-4480 4480 560 4480 560 4480 560 4480 560 4480 560 4480 4480 560 4480 4480 560 4480 4480 560 4480 4480 560 4480 4480 560 450 8AGTC-4480 4480 4480 560 450 8AGTC-4480 4480 560 8AGTC-4480 8	8MGTC-1760	1760	220	14MGTC-2380	2380	170	Poly Chain® GT Carbon™.
8MGTC-2200 2200 275 8MGTC-2240 2240 280 8MGTC-2400 2400 300 8MGTC-2520 2520 315 8MGTC-2600 2600 325 8MGTC-2800 2800 350 8MGTC-2800 2800 350 8MGTC-3280 3280 410 8MGTC-300 3600 450 8MGTC-300 3600 450 8MGTC-4400 4000 500 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, 8MGTC-4400 12 mm, 21 mm, 4Vailable in widths of 12 mm, 21 mm,	8MGTC-1792	1792	224	14MGTC-2450	2450	175	
8MGTC-2240 2240 280 2600 300 8MGTC-2520 2520 315 14MGTC-2800 2800 200 14MGTC-2500 2600 325 8MGTC-2800 2800 350 14MGTC-3304 3304 236 8MGTC-2800 2800 350 8MGTC-3280 3280 410 8MGTC-3280 3280 410 8MGTC-3280 3280 410 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4400 4400 550 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, Available in widths of 12 mm, 21 mm,	8MGTC-2000	2000	250	14MGTC-2520	2520		
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8MGTC-2520 2520 315 8MGTC-2600 2600 325 8MGTC-2800 2800 350 8MGTC-2840 2840 355 8MGTC-3048 3048 381 8MGTC-3200 3200 400 8MGTC-3280 3280 410 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-3600 3600 450 8MGTC-4000 4000 500 8MGTC-4400 4400 550 8MGTC-4440 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, 4Vailable in widths of 12 mm, 21 mm,	8MGTC-2240	2240	280	14MGTC-2660	2660	190	
8MGTC-2600 2600 325 8MGTC-2800 2800 350 8MGTC-3240 2840 355 8MGTC-3048 3048 381 8MGTC-3200 3200 400 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4400 4000 500 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm,	8MGTC-2400	2400	300	14MGTC-2800	2800	200	
8MGTC-2800 2800 350 8MGTC-2840 2840 355 8MGTC-3048 3048 381 8MGTC-3200 3200 400 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4400 4000 550 8MGTC-4440 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, 4Vailable in widths of 12 mm, 21 mm, 14MGTC-3360 3360 240 14MGTC-3500 3500 250 14MGTC-3920 3920 280 14MGTC-4326 4326 309 14MGTC-4410 4410 315 Available in widths of 20 mm, 37 mm, 68 mm, 90 mm and 125 mm. Poly Chain® GT Carbon™ ordering code is composed as follows: 14MGTC-3360-37 14MGTC-360-37 14MGTC-360-37 14MGTC-360-37 14MGTC-360-37 14MGTC-360-37 14M	8MGTC-2520	2520	315	14MGTC-3136	3136	224	
8MGTC-2840 2840 355 8MGTC-3048 3048 381 8MGTC-3200 3200 400 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4400 4000 550 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, 4Vailable in widths of 12 mm, 21 mm, 14MGTC-3500 3500 250 14MGTC-3850 3850 275 14MGTC-3920 3920 280 14MGTC-4326 4326 309 14MGTC-4410 4410 315 Available in widths of 20 mm, 37 mm, 68 mm, 90 mm and 125 mm. Poly Chain® GT Carbon™ ordering code is composed as follows: 14MGTC-3360-37 14MGTC - Pitch 14 mm 3360 - Pitch length (mm) 37 - Belt width (mm)	8MGTC-2600	2600	325	14MGTC-3304	3304	236	
8MGTC-3048 3048 381 8MGTC-3200 3200 400 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4400 4400 550 8MGTC-4480 4480 560 4480 560 8Available in widths of 12 mm, 21 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 mm, 4 available in widths of 20 mm, 37 mm, 68 m	8MGTC-2800	2800	350	14MGTC-3360	3360	240	
8MGTC-3200 3200 400 8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4000 4000 500 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, 4Vailable in widths of 12 mm, 21 mm, 14MGTC-3920 3920 280 14MGTC-4326 4326 309 14MGTC-4410 4410 315 Available in widths of 20 mm, 37 mm, 68 mm, 90 mm and 125 mm. Poly Chain® GT Carbon™ ordering code is composed as follows: 14MGTC-3360-37 14MGTC - Pitch 14 mm 3360 - Pitch length (mm) 37 - Belt width (mm)	8MGTC-2840	2840	355	14MGTC-3500	3500	250	
8MGTC-3280 3280 410 8MGTC-3600 3600 450 8MGTC-4000 4000 500 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, Available in widths of 12 mm, 21 mm,	8MGTC-3048	3048	381	14MGTC-3850	3850	275	
8MGTC-3600 3600 450 8MGTC-4000 4000 500 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, Available in widths of 12 mm, 21 mm,	8MGTC-3200	3200	400		3920		Poly Chain® CT Carbon™ ardering
8MGTC-4000 4000 500 8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 20 mm, 37 mm, 68 mm, 90 mm and 125 mm. 4Vailable in widths of 12 mm, 21 mm, Available in widths of 12 mm, 21 mm,	8MGTC-3280	3280	410	14MGTC-4326	4326	309	, ,
8MGTC-4400 4400 550 8MGTC-4480 4480 560 Available in widths of 12 mm, 21 mm, Available in widths of 20 mm, 37 mm, 68 mm, 90 mm and 125 mm. 14MGTC - Pitch 14 mm 3360 - Pitch length (mm) 37 - Belt width (mm)	8MGTC-3600	3600	450	14MGTC-4410	4410	315	code is composed as follows:
8MGTC-4400 4400 550 8MGTC-4480 4480 560 90 mm and 125 mm. 14MGTC - Pitch 14 mm 3360 - Pitch length (mm) 37 - Belt width (mm)	8MGTC-4000	4000	500	Available in width	of 20 mm 27 mm	60 mm	14MCTC 2260 27
8MG1C-4480 4480 560 3360 - Pitch length (mm) Available in widths of 12 mm, 21 mm, 37 - Belt width (mm)	8MGTC-4400	4400	550		, ,	00 11111,	
Available in widths of 12 mm, 21 mm,	8MGTC-4480	4480	560	90 mm and 125 m	III.		
Available in widths of 12 mm, 21 mm,							3
	Available in width	s of 12 mm 21 mm					37 - Belt width (mm)
	36 mm and 62 mr						All dimensions are available from stock.

COMPACT SYNCHRONOUS BELTS

MINI POLY CHAIN® GT CARBON™

Synchronous belt with 8 mm, GT tooth profile



This compact polyurethane synchronous belt opens up new opportunities in the design of conveyor drives and is an alternative to roller chains.
Poly Chain® GT Carbon™ 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.

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Pitch: 8 mm

Description	Pitch length	Number of
	mm	teeth
8MC-248	248	31
8MC-288	288	36
8MC-352	352	44
8MC-416	416	52
8MC-456	456	57
8MC-480	480	60
8MC-544	544	68
8MC-608	608	76

Available in widths of 11.2 mm, 21 mm, 36 mm and 62 mm.

Mini Poly Chain® GT Carbon™ ordering code is composed as follows:

8MC-352-11.2

8MC - Pitch 8 mm

352 - Pitch length (mm) 11.2 - Belt width (mm)

All dimensions are available from stock.