

Poly Chain® GT® Carbon™ Belts

Poly Chain GT Carbon Belts — Nothing Tougher.

Give yourself a competitive advantage by designing in the Gates Poly Chain GT Carbon drive system instead of roller chain in your next power transmission application.

The patented use of Carbon Fiber as the tensile cord in this belt provides increased horsepower rating for greater power density and compactness and increased flexibility, allowing the use of backside idlers. When combined with Gates Poly Chain® GT®2 Sprockets, you have a lightweight, long-lasting, maintenance-free system that's more than a match for roller chain.

Markets/Applications

All industrial markets, especially suited to replace roller chain drives. Narrow width minimizes reducer overhung loads and left-justified hubs on Poly Chain GT2 sprockets accommodate short shaft lengths.

Features/Advantages

- Maintenance-free, clean solution for roller chain drive conversion.
 - Significantly reduces maintenance costs
 - Equivalent capacity to roller chain drives in the same width
 - Easy rust-free wash-down with Gates Stainless Steel hardware
 - Fast drive conversion payback
 - Quieter than roller chain drives
- New construction provides up to 55% more low-speed capacity than the original PCGT construction and 30% more than PCGT2.
- Gates **curvilinear tooth profile** provides high shear strength, noise reduction, and improved load carrying capacity.
- Robust **carbon tensile cord** combines minimal stretch with extraordinary strength and load carrying capacity, while absorbing shock and surge loads.
- Durable **polyurethane construction** resists chemicals, oil, pollutants, and abrasion.
- **Nylon tooth facing** reduces friction and eliminates the need for lubrication.
- Fully operational in temperature extremes of -65°F to +185°F (-54°C to +85°C).

Recommended Sprockets

Poly Chain GT2 Sprockets - 8M and 14M

Notes

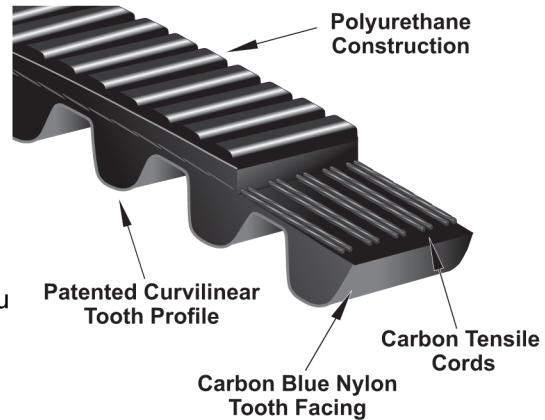
Poly Chain GT Carbon belts can be used on existing drives as replacement for previous generation Poly Chain belts.

Poly Chain GT Carbon belt part numbers are identical to those of Poly Chain GT2: part number 8MGT-1000-21 denotes an 8mm pitch, 1000mm pitch length and 21mm width.

Belt pitch is the distance in millimeters between two adjacent tooth centers as measured on the pitch line of the belt. **Belt pitch length** is the total length (circumference) in millimeters as measured along the pitch line. The theoretical pitch line of a Poly Chain GT Carbon belt lies within the tensile member.

WARNING: Use of non-Gates manufactured sprockets is not recommended: Gates Poly Chain GT2 sprockets are manufactured, specified and tested to fully support the full capabilities of the Poly Chain GT Carbon belt. Product performance cannot be guaranteed when non-Gates sprockets are used.

Always utilize Taper-Lock® type Poly Chain GT2 Sprockets when designing a new Poly Chain GT Carbon belt drive system.



Product No. Series 9274

8mm Pitch — 12mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
8MGT-640-12	9274-0080	80	25.20	.40	8MGT-1120-12	9274-0140	140	44.09	.68
8MGT-720-12	9274-0090	90	28.35	.47	8MGT-1200-12	9274-0150	150	47.24	.70
8MGT-800-12	9274-0100	100	31.50	.50	8MGT-1224-12	9274-0153	153	48.19	.72
8MGT-896-12	9274-0112	112	35.28	.55	8MGT-1280-12	9274-0160	160	50.39	.75
8MGT-960-12	9274-0120	120	37.80	.58	8MGT-1440-12	9274-0180	180	56.69	.80
8MGT-1000-12	9274-0125	125	39.37	.60	8MGT-1600-12	9274-0200	200	62.99	.90
8MGT-1040-12	9274-0130	130	40.95	.65	8MGT-1760-12	9274-0220	220	69.29	.95

Poly Chain® GT® Carbon™ Belts

Product No. Series 9274 (continued)

8mm Pitch — 12mm Wide (continued)

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
8MGT-1792-12	9274-0224	224	70.55	1.00	8MGT-2840-12	9274-0355	355	111.81	1.52
8MGT-2000-12	9274-0250	250	78.74	1.10	8MGT-3048-12	9274-0381	381	120.00	1.65
8MGT-2200-12	9274-0275	275	86.61	1.15	8MGT-3200-12	9274-0400	400	125.98	1.70
8MGT-2240-12	9274-0280	280	88.19	1.20	8MGT-3280-12	9274-0410	410	129.13	1.75
8MGT-2400-12	9274-0300	300	94.49	1.30	8MGT-3600-12	9274-0450	450	141.73	1.85
8MGT-2520-12	9274-0315	315	99.21	1.35	8MGT-4000-12	9274-0500	500	157.48	2.10
8MGT-2600-12	9274-0325	325	102.36	1.40	8MGT-4400-12	9274-0550	550	173.23	2.25
8MGT-2800-12	9274-0350	350	110.24	1.50	8MGT-4480-12	9274-0560	560	176.38	2.33

8mm Pitch — 21mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
8MGT-640-21	9274-1080	80	25.20	.40	8MGT-2000-21	9274-1250	250	78.74	1.25
8MGT-720-21	9274-1090	90	28.35	.45	8MGT-2200-21	9274-1275	275	86.61	1.38
8MGT-800-21	9274-1100	100	31.50	.50	8MGT-2240-21	9274-1280	280	88.19	1.40
8MGT-896-21	9274-1112	112	35.28	.53	8MGT-2400-21	9274-1300	300	94.49	1.50
8MGT-960-21	9274-1120	120	37.80	.58	8MGT-2520-21	9274-1315	315	99.21	1.60
8MGT-1000-21	9274-1125	125	39.37	.60	8MGT-2600-21	9274-1325	325	102.36	1.65
8MGT-1040-21	9274-1130	130	40.95	.65	8MGT-2800-21	9274-1350	350	110.24	1.75
8MGT-1120-21	9274-1140	140	44.09	.70	8MGT-2840-21	9274-1355	355	111.81	1.80
8MGT-1200-21	9274-1150	150	47.24	.75	8MGT-3048-21	9274-1381	381	120.00	1.90
8MGT-1224-21	9274-1153	153	48.19	.75	8MGT-3200-21	9274-1400	400	125.98	2.05
8MGT-1280-21	9274-1160	160	50.39	.80	8MGT-3280-21	9274-1410	410	129.13	2.10
8MGT-1440-21	9274-1180	180	56.69	.90	8MGT-3600-21	9274-1450	450	141.73	2.25
8MGT-1600-21	9274-1200	200	62.99	1.00	8MGT-4000-21	9274-1500	500	157.48	2.55
8MGT-1760-21	9274-1220	220	69.29	1.15	8MGT-4400-21	9274-1550	550	173.23	2.75
8MGT-1792-21	9274-1224	224	70.55	1.15	8MGT-4480-21	9274-1560	560	176.38	2.80

8mm Pitch — 36mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
8MGT-640-36	9274-2080	80	25.20	.70	8MGT-2000-36	9274-2250	250	78.74	1.70
8MGT-720-36	9274-2090	90	28.35	.75	8MGT-2200-36	9274-2275	275	86.61	1.88
8MGT-800-36	9274-2100	100	31.50	.80	8MGT-2240-36	9274-2280	280	88.19	1.90
8MGT-896-36	9274-2112	112	35.28	.90	8MGT-2400-36	9274-2300	300	94.49	2.00
8MGT-960-36	9274-2120	120	37.80	.97	8MGT-2520-36	9274-2315	315	99.21	2.15
8MGT-1000-36	9274-2125	125	39.37	1.00	8MGT-2600-36	9274-2325	325	102.36	2.30
8MGT-1040-36	9274-2130	130	40.95	1.02	8MGT-2800-36	9274-2350	350	110.24	2.40
8MGT-1120-36	9274-2140	140	44.09	1.10	8MGT-2840-36	9274-2355	355	111.81	2.50
8MGT-1200-36	9274-2150	150	47.24	1.12	8MGT-3048-36	9274-2381	381	120.00	2.62
8MGT-1224-36	9274-2153	153	48.19	1.20	8MGT-3200-36	9274-2400	400	125.98	2.70
8MGT-1280-36	9274-2160	160	50.39	1.25	8MGT-3280-36	9274-2410	410	129.13	2.72
8MGT-1440-36	9274-2180	180	56.69	1.35	8MGT-3600-36	9274-2450	450	141.73	2.95
8MGT-1600-36	9274-2200	200	62.99	1.45	8MGT-4000-36	9274-2500	500	157.48	3.25
8MGT-1760-36	9274-2220	220	69.29	1.60	8MGT-4400-36	9274-2550	550	173.23	3.55
8MGT-1792-36	9274-2224	224	70.55	1.65	8MGT-4480-36	9274-2560	560	176.38	3.60

8mm Pitch — 62mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
8MGT-640-62	9274-3080	80	25.20	.80	8MGT-1040-62	9274-3130	130	40.95	1.35
8MGT-720-62	9274-3090	90	28.35	1.00	8MGT-1120-62	9274-3140	140	44.09	1.40
8MGT-800-62	9274-3100	100	31.50	1.08	8MGT-1200-62	9274-3150	150	47.24	1.75
8MGT-896-62	9274-3112	112	35.28	1.20	8MGT-1224-62	9274-3153	153	48.19	1.65
8MGT-960-62	9274-3120	120	37.80	1.25	8MGT-1280-62	9274-3160	160	50.39	1.70
8MGT-1000-62	9274-3125	125	39.37	1.30	8MGT-1440-62	9274-3180	180	56.69	1.85

Poly Chain® GT® Carbon™ Belts

Product No. Series 9274 (continued)

8mm Pitch — 62mm Wide (continued)

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
8MGT-1600-62	9274-3200	200	62.99	2.00	8MGT-2800-62	9274-3350	350	110.24	3.10
8MGT-1760-62	9274-3220	220	69.29	2.10	8MGT-2840-62	9274-3355	355	111.81	3.15
8MGT-1792-62	9274-3224	224	70.55	2.10	8MGT-3048-62	9274-3381	381	120.00	3.40
8MGT-2000-62	9274-3250	250	78.74	2.30	8MGT-3200-62	9274-3400	400	125.98	3.60
8MGT-2200-62	9274-3275	275	86.61	2.50	8MGT-3280-62	9274-3410	410	129.13	3.70
8MGT-2240-62	9274-3280	280	88.19	2.55	8MGT-3600-62	9274-3450	450	141.73	4.05
8MGT-2400-62	9274-3300	300	94.49	2.80	8MGT-4000-62	9274-3500	500	157.48	4.40
8MGT-2520-62	9274-3315	315	99.21	2.90	8MGT-4400-62	9274-3550	550	173.23	4.80
8MGT-2600-62	9274-3325	325	102.36	2.95	8MGT-4480-62	9274-3560	560	176.38	4.90

14mm Pitch — 20mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-994-20	9274-4071	71	39.13	1.30	14MGT-2520-20	9274-4180	180	99.21	2.20
14MGT-1120-20	9274-4080	80	44.09	1.35	14MGT-2590-20	9274-4185	185	101.97	2.20
14MGT-1190-20	9274-4085	85	46.85	1.40	14MGT-2660-20	9274-4190	190	104.72	2.25
14MGT-1260-20	9274-4090	90	49.61	1.45	14MGT-2730-20	9274-4195	195	107.48	.94
14MGT-1400-20	9274-4100	100	55.12	1.55	14MGT-2800-20	9274-4200	200	110.24	2.30
14MGT-1568-20	9274-4112	112	61.73	1.65	14MGT-2828-20	9274-4202	202	111.34	.97
14MGT-1610-20	9274-4115	115	63.39	1.70	14MGT-3136-20	9274-4224	224	123.46	2.50
14MGT-1750-20	9274-4125	125	68.90	1.75	14MGT-3304-20	9274-4236	236	130.08	2.55
14MGT-1890-20	9274-4135	135	74.41	1.75	14MGT-3360-20	9274-4240	240	132.28	2.60
14MGT-1960-20	9274-4140	140	77.17	1.80	14MGT-3500-20	9274-4250	250	137.80	2.70
14MGT-2100-20	9274-4150	150	82.68	1.90	14MGT-3850-20	9274-4275	275	151.58	2.85
14MGT-2240-20	9274-4160	160	88.19	1.98	14MGT-3920-20	9274-4280	280	154.33	2.95
14MGT-2310-20	9274-4165	165	90.95	2.05	14MGT-4326-20	9274-4309	309	170.32	3.15
14MGT-2380-20	9274-4170	170	93.70	2.10	14MGT-4410-20	9274-4315	315	173.62	3.20
14MGT-2450-20	9274-4175	175	96.46	2.15					

14mm Pitch — 37mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-994-37	9274-5071	71	39.13	1.60	14MGT-2520-37	9274-5180	180	99.21	3.20
14MGT-1120-37	9274-5080	80	44.09	1.70	14MGT-2590-37	9274-5185	185	101.97	3.25
14MGT-1190-37	9274-5085	85	46.85	1.75	14MGT-2660-37	9274-5190	190	104.72	3.35
14MGT-1260-37	9274-5090	90	49.61	1.80	14MGT-2730-37	9274-5195	195	107.48	1.74
14MGT-1400-37	9274-5100	100	55.12	2.05	14MGT-2800-37	9274-5200	200	110.24	3.40
14MGT-1568-37	9274-5112	112	61.73	2.20	14MGT-2828-37	9274-5202	202	111.34	1.80
14MGT-1610-37	9274-5115	115	63.39	2.30	14MGT-3136-37	9274-5224	224	123.46	3.65
14MGT-1750-37	9274-5125	125	68.90	2.45	14MGT-3304-37	9274-5236	236	130.08	3.85
14MGT-1890-37	9274-5135	135	74.41	2.55	14MGT-3360-37	9274-5240	240	132.28	3.85
14MGT-1960-37	9274-5140	140	77.17	2.60	14MGT-3500-37	9274-5250	250	137.80	3.95
14MGT-2100-37	9274-5150	150	82.68	2.70	14MGT-3850-37	9274-5275	275	151.58	4.25
14MGT-2240-37	9274-5160	160	88.19	2.85	14MGT-3920-37	9274-5280	280	154.33	4.35
14MGT-2310-37	9274-5165	165	90.95	2.90	14MGT-4326-37	9274-5309	309	170.32	4.70
14MGT-2380-37	9274-5170	170	93.70	3.00	14MGT-4410-37	9274-5315	315	173.62	4.75
14MGT-2450-37	9274-5175	175	96.46	3.10					

14mm Pitch — 68mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)	Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-994-68	9274-6071	71	39.13	2.40	14MGT-1568-68	9274-6112	112	61.73	3.25
14MGT-1120-68	9274-6080	80	44.09	2.60	14MGT-1610-68	9274-6115	115	63.39	3.40
14MGT-1190-68	9274-6085	85	46.85	2.70	14MGT-1750-68	9274-6125	125	68.90	3.60
14MGT-1260-68	9274-6090	90	49.61	2.80	14MGT-1890-68	9274-6135	135	74.41	3.95
14MGT-1400-68	9274-6100	100	55.12	3.00	14MGT-1960-68	9274-6140	140	77.17	4.00

Poly Chain® GT® Carbon™ Belts

Product No. Series 9274 (continued)

14mm Pitch — 68mm Wide (continued)

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-2100-68	9274-6150	150	82.68	4.20
14MGT-2240-68	9274-6160	160	88.19	4.50
14MGT-2310-68	9274-6165	165	90.95	4.70
14MGT-2380-68	9274-6170	170	93.70	4.70
14MGT-2450-68	9274-6175	175	96.46	4.85
14MGT-2520-68	9274-6180	180	99.21	4.90
14MGT-2590-68	9274-6185	185	101.97	5.00
14MGT-2660-68	9274-6190	190	104.72	5.15
14MGT-2730-68	9274-6195	195	107.48	3.20
14MGT-2800-68	9274-6200	200	110.24	5.20

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-2828-68	9274-6202	202	111.34	3.31
14MGT-3136-68	9274-6224	224	123.46	5.80
14MGT-3304-68	9274-6236	236	130.08	6.05
14MGT-3360-68	9274-6240	240	132.28	6.10
14MGT-3500-68	9274-6250	250	137.80	6.30
14MGT-3850-68	9274-6275	275	151.58	6.80
14MGT-3920-68	9274-6280	280	154.33	7.00
14MGT-4326-68	9274-6309	309	170.32	7.70
14MGT-4410-68	9274-6315	315	173.62	7.85

14mm Pitch — 90mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-994-90	9274-7071	71	39.13	3.00
14MGT-1120-90	9274-7080	80	44.09	3.30
14MGT-1190-90	9274-7085	85	46.85	3.35
14MGT-1260-90	9274-7090	90	49.61	3.60
14MGT-1400-90	9274-7100	100	55.12	3.35
14MGT-1568-90	9274-7112	112	61.73	4.10
14MGT-1610-90	9274-7115	115	63.39	4.25
14MGT-1750-90	9274-7125	125	68.90	4.50
14MGT-1890-90	9274-7135	135	74.41	4.85
14MGT-1960-90	9274-7140	140	77.17	4.95
14MGT-2100-90	9274-7150	150	82.68	5.20
14MGT-2240-90	9274-7160	160	88.19	5.45
14MGT-2310-90	9274-7165	165	90.95	5.50
14MGT-2380-90	9274-7170	170	93.70	5.70
14MGT-2450-90	9274-7175	175	96.46	5.85

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-2520-90	9274-7180	180	99.21	5.90
14MGT-2590-90	9274-7185	185	101.97	5.95
14MGT-2660-90	9274-7190	190	104.72	6.10
14MGT-2730-90	9274-7195	195	107.48	4.23
14MGT-2800-90	9274-7200	200	110.24	6.40
14MGT-2828-90	9274-7202	202	111.34	4.39
14MGT-3136-90	9274-7224	224	123.46	7.00
14MGT-3304-90	9274-7236	236	130.08	7.35
14MGT-3360-90	9274-7240	240	132.28	7.50
14MGT-3500-90	9274-7250	250	137.80	7.70
14MGT-3850-90	9274-7275	275	151.58	8.30
14MGT-3920-90	9274-7280	280	154.33	8.50
14MGT-4326-90	9274-7309	309	170.32	9.20
14MGT-4410-90	9274-7315	315	173.62	9.30

14mm Pitch — 125mm Wide

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-994-125	9274-8071	71	39.13	3.60
14MGT-1120-125	9274-8080	80	44.09	3.90
14MGT-1190-125	9274-8085	85	46.85	4.00
14MGT-1260-125	9274-8090	90	49.61	4.20
14MGT-1400-125	9274-8100	100	55.12	4.60
14MGT-1568-125	9274-8112	112	61.73	5.00
14MGT-1610-125	9274-8115	115	63.39	5.20
14MGT-1750-125	9274-8125	125	68.90	5.40
14MGT-1890-125	9274-8135	135	74.41	5.80
14MGT-1960-125	9274-8140	140	77.17	6.00
14MGT-2100-125	9274-8150	150	82.68	6.50
14MGT-2240-125	9274-8160	160	88.19	6.80
14MGT-2310-125	9274-8165	165	90.95	7.00
14MGT-2380-125	9274-8170	170	93.70	7.10
14MGT-2450-125	9274-8175	175	96.46	7.20

Part No.	Product No.	Number of Teeth	Pitch Length (in)	Weight (Lbs.)
14MGT-2520-125	9274-8180	180	99.21	7.40
14MGT-2590-125	9274-8185	185	101.97	7.60
14MGT-2660-125	9274-8190	190	104.72	7.75
^N 14MGT-2730-125	9274-8195	195	107.48	5.88
14MGT-2800-125	9274-8200	200	110.24	8.30
^N 14MGT-2828-125	9274-8202	202	111.34	6.09
14MGT-3136-125	9274-8224	224	123.46	9.10
14MGT-3304-125	9274-8236	236	130.08	9.50
14MGT-3360-125	9274-8240	240	132.28	9.65
14MGT-3500-125	9274-8250	250	137.80	10.00
14MGT-3850-125	9274-8275	275	151.58	10.75
14MGT-3920-125	9274-8280	280	154.33	11.00
14MGT-4326-125	9274-8309	309	170.32	12.00
14MGT-4410-125	9274-8315	315	173.62	12.20

^N New Product