

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

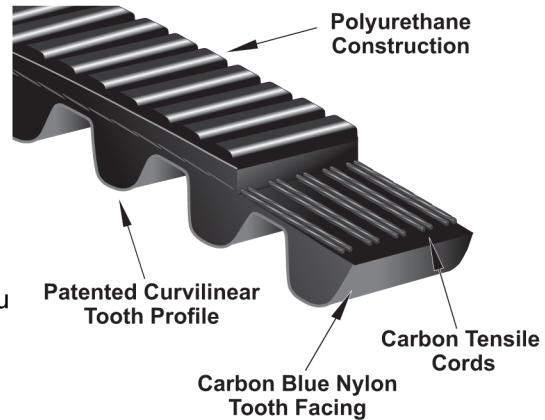
Poly Chain GT Carbon belts can be used on existing drives as replacement for previous generation Poly Chain belts.

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)

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