

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 GT2 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

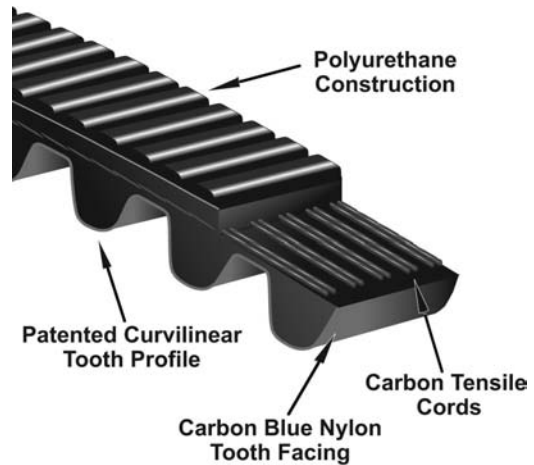
Poly Chain GT Carbon belts can be used on existing drives as replacement for previous generation Poly Chain belts.

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.	No. of Teeth	Pitch Length (In.)	Wt. Ea. (Lbs.)
8MGT-640-12	9274-0080	80	25.20	.40
8MGT-720-12	9274-0090	90	28.35	.47
8MGT-800-12	9274-0100	100	31.50	.50
8MGT-896-12	9274-0112	112	35.28	.55
8MGT-960-12	9274-0120	120	37.80	.58
8MGT-1000-12	9274-0125	125	39.37	.60
8MGT-1040-12	9274-0130	130	40.95	.65

Part No.	Product No.	No. of Teeth	Pitch Length (In.)	Wt. Ea. (Lbs.)
8MGT-1120-12	9274-0140	140	44.09	.68
8MGT-1200-12	9274-0150	150	47.24	.70
8MGT-1224-12	9274-0153	153	48.19	.72
8MGT-1280-12	9274-0160	160	50.39	.75
8MGT-1440-12	9274-0180	180	56.69	.80
8MGT-1600-12	9274-0200	200	62.99	.90
8MGT-1760-12	9274-0220	220	69.29	.95