

# Poly Chain®GT Carbon™

Polyurethane synchronous belt with patented carbon tensile cords

## Belt Range

| 8MGT        |              |                 | 14MGT       |              |                 |
|-------------|--------------|-----------------|-------------|--------------|-----------------|
| Description | Pitch Length | Number of Teeth | Description | Pitch Length | Number of Teeth |
| 8MGTC-640   | 640          | 80              | 14MGTC-994  | 994          | 71              |
| 8MGTC-720   | 720          | 90              | 14MGTC-1120 | 1120         | 80              |
| 8MGTC-800   | 800          | 100             | 14MGTC-1190 | 1190         | 85              |
| 8MGTC-896   | 896          | 112             | 14MGTC-1260 | 1260         | 90              |
| 8MGTC-960   | 960          | 120             | 14MGTC-1400 | 1400         | 100             |
| 8MGTC-1000  | 1000         | 125             | 14MGTC-1568 | 1568         | 112             |
| 8MGTC-1040  | 1040         | 130             | 14MGTC-1610 | 1610         | 115             |
| 8MGTC-1120  | 1120         | 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-2100 | 2100         | 150             |
| 8MGTC-1440  | 1440         | 180             | 14MGTC-2240 | 2240         | 160             |
| 8MGTC-1600  | 1600         | 200             | 14MGTC-2310 | 2310         | 165             |
| 8MGTC-1760  | 1760         | 220             | 14MGTC-2380 | 2380         | 170             |
| 8MGTC-1792  | 1792         | 224             | 14MGTC-2450 | 2450         | 175             |
| 8MGTC-2000  | 2000         | 250             | 14MGTC-2520 | 2520         | 180             |
| 8MGTC-2200  | 2200         | 275             | 14MGTC-2590 | 2590         | 185             |
| 8MGTC-2240  | 2240         | 280             | 14MGTC-2660 | 2660         | 190             |
| 8MGTC-2400  | 2400         | 300             | 14MGTC-2800 | 2800         | 200             |
| 8MGTC-2520  | 2520         | 315             | 14MGTC-3136 | 3136         | 224             |
| 8MGTC-2600  | 2600         | 325             | 14MGTC-3304 | 3304         | 236             |
| 8MGTC-2800  | 2800         | 350             | 14MGTC-3360 | 3360         | 240             |
| 8MGTC-2840  | 2840         | 355             | 14MGTC-3500 | 3500         | 250             |
| 8MGTC-3048  | 3048         | 381             |             |              |                 |
| 8MGTC-3200  | 3200         | 400             |             |              |                 |
| 8MGTC-3280  | 3280         | 410             |             |              |                 |
| 8MGTC-3600  | 3600         | 450             |             |              |                 |
| 8MGTC-4000  | 4000         | 500             |             |              |                 |
| 8MGTC-4400  | 4400         | 550             |             |              |                 |
| 8MGTC-4480  | 4480         | 560             |             |              |                 |

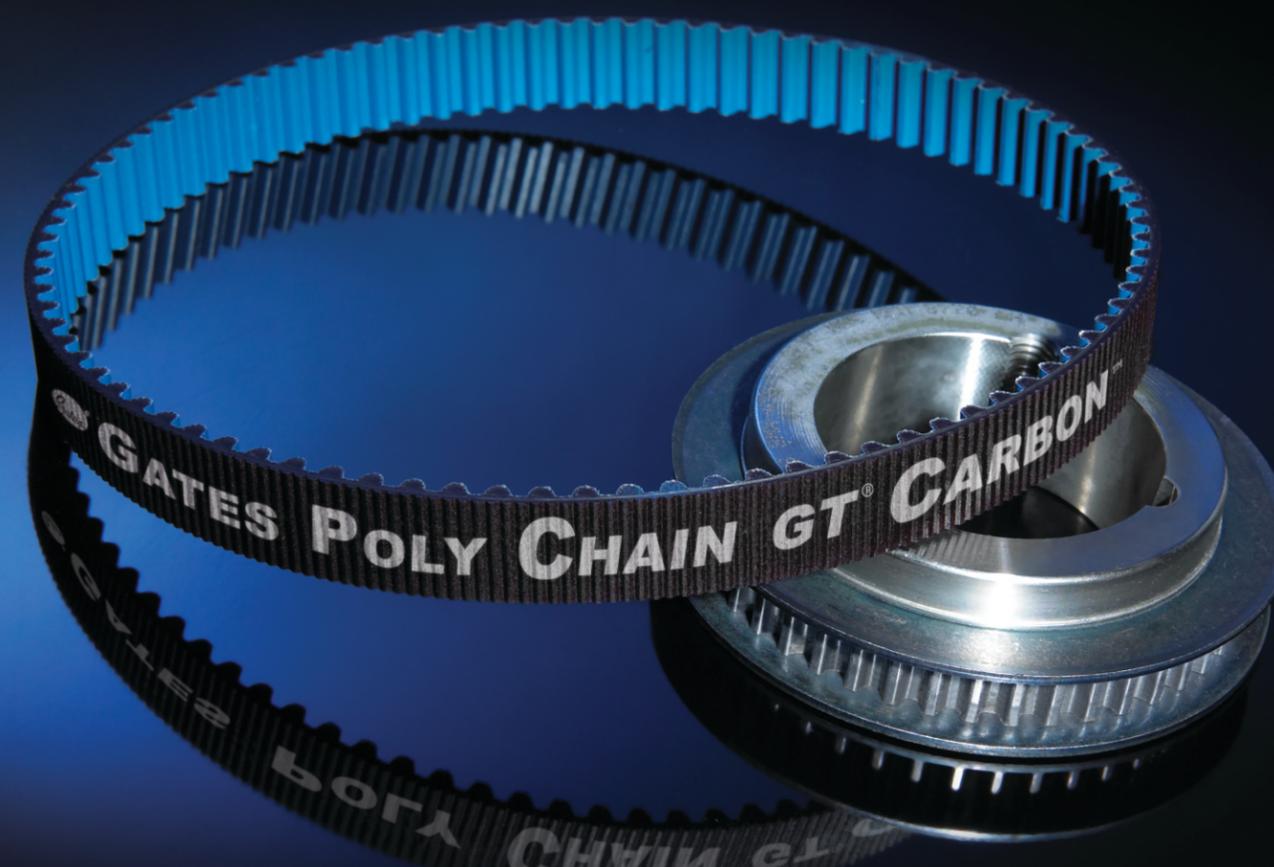


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Nothing Tough

**Polyurethane Synchronous Belt with Patented Carbon Tensile Cords**



**POLY CHAIN® GT® CARBON™**

**BELT DRIVE SYSTEMS**

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 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 environment friendly operation offering an excellent alternative to roller chain drives and gear.



OUT WITH THE MESS, DOWNTIME, AND EXPENSE.

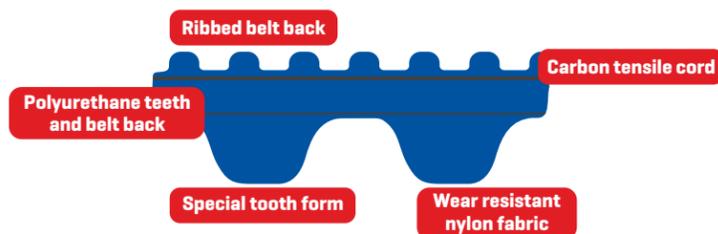
## Poly Chain®GT Carbon™

### Polyurethane synchronous belt with patented carbon tensile cords

Continuous investment in engineering, field-tested development and proximity to our customers have made us world market leader in drive system solutions. Wherever optimum performance is a priority, our high-tech drive solutions are in operation. Strength, flexibility, durability and reliability are all vital qualities in the field of power transmission with Gates new Poly Chain®GT Carbon™ synchronous belts these qualities are guaranteed.

#### Construction Features

- > 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.



#### Additional Benefits

- > Extraordinary power capacity: at least 25% higher power ratings than Poly Chain®GT2 Belts.
- > Clean, quiet, compact, durable, maintenance-free, energy saving and environment 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.
- > 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)



## Poly Chain®GT Carbon™

### Polyurethane synchronous belt with patented carbon tensile cords

A Poly Chain®GT Carbon™ synchronous belts drive system offers innumerable cost saving advantages for both design and maintenance engineers.

Design engineers can obtain a competitive advantage by designing in the Poly Chain®GT Carbon™ drives in their next power transmission application. They will be able to provide end-users with better-performing, longer-lasting, cleaner, quieter and maintenance-free products that operate at a significantly lower overall cost. In the MRO market, Poly Chain®GT Carbon™ drives can substantially reduce day-to-day operational costs.

They can also increase production output by eliminating downtime and lost productivity resulting from all-tpp-frequent maintenance and replacement of defective drive components.



#### All out knowledge is there for you to share

Whatever your challenge, Gates' application engineers will gladly lend a hand at no cost to you. From routine questions to complex analyses, they will help you find the most cost-effective drive solution.

Gates also puts forward a fast and easy resource for selecting and maintaining belt drive systems and get every possible drive solution that fits your design parameters.

If you are interested in finding out more about the many performance advantage of Gates Poly Chain®GT Carbon™ belt drive systems, Please visit [www.Gates.com/India](http://www.Gates.com/India) or contact your local Gates representative.

