



DRIVEN BY POSSIBILITY™

POLYURETHANE SYNCHRONOUS BELTS:

# POLY CHAIN<sup>®</sup> CARBON<sup>™</sup> VOLT<sup>™</sup>

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## UNMATCHED PERFORMANCE WITH ANTISTATIC EXCELLENCE

Antistatic power transmission belts are a must in explosive environments. What you may not realise is that power transmission belts that meet the ISO 9563 standard for static conductivity are only required to meet that level when new. To ensure the highest safety standards, it is important to guarantee antistatic properties over the lifetime of the belt. Gates Poly Chain Carbon Volt belt has been proven to maintain static conductivity many times longer than any other belt on the market, making it the safest and strongest option.

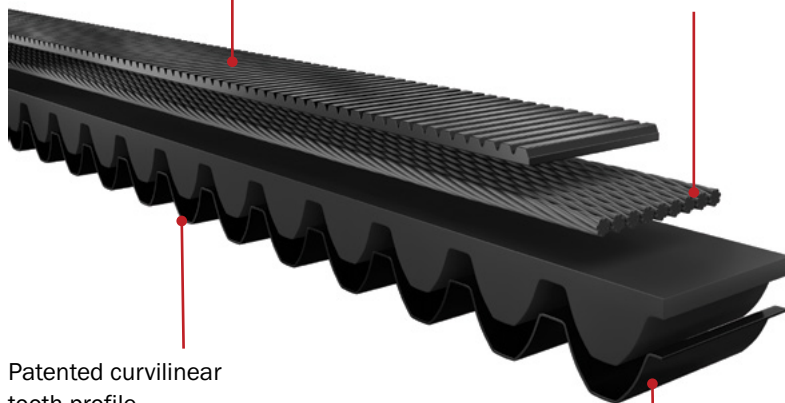
# THE MOST POWERFUL SYNCHRONOUS BELT IN THE MARKET



Strength, flexibility, durability and reliability are all vital qualities in the field of power transmission. With Poly Chain Carbon Volt belts, you can be confident that all these are guaranteed. The Poly Chain Carbon Volt belt consists of a tough, lightweight polyurethane compound with carbon tensile cord. The carbon fibre reinforcement provides high strength and length stability with improved shock load and fatigue resistance, while reducing stretch and increasing flexibility. The new facing covering the teeth is a graphite fabric that gives the necessary static-conductivity to the belt.

Polyurethane construction

Carbon tensile cords



Patented curvilinear tooth profile

Patent pending antistatic black jacket construction

## CONSTRUCTION FEATURES

- Static conductive to ISO 9563 throughout the lifetime of the belt
- Patented static conductive construction
- High fatigue-resisting carbon fibre tensile cord
- Patented carbon tensile cord design
- Suitable for high torque, low speed drives
- ATEX directive compliant: suitable for environments with explosive atmospheres
- Nylon tooth facing reduces friction and eliminates the need for lubrication



## MEETS ISO 9563 STANDARDS FROM START TO FINISH

Gates combines engineering excellence with manufacturing expertise to make sure you get the ultimate in synchronous drive systems. Our new Poly Chain Carbon Volt is the only belt in the market that meets ISO 9563 standard when new, and maintains it for an extended period of time. The belt features patented static-conductive fibres that safely transfer static electricity to carbon tensile cords and away from the driven side of a power transmission application for improved safety in environments where build-up of static electricity needs to be avoided, like oil and gas refineries, chemical processing plants, grain silos... Maximise your safety standards with Gates.

### YOUR BENEFITS USING POLY CHAIN CARBON VOLT

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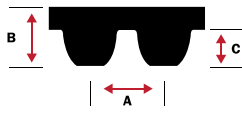
- Precise drive solutions
- Unsurpassed quality
- Clean, quiet, compact, durable
- Extraordinary power capacity
- Supports a maintenance-free, energy saving, environmentally friendly operation
- Suitable for temperatures from -54°C to +85°C
- Compatible with genuine Gates Poly Chain GT sprockets
- Maintains static conductivity over the lifetime of the belt
- No lubrication required
- No re-tensioning required
- Equivalent capacity to roller chain drives in the same width

# POLY CHAIN CARBON VOLT



## BELT IDENTIFICATION CHART

Examples: 8GTV-1600-21 Belt 8MX-22S-21 Sprocket

	Standard Widths (mm)	A	B	C	
					8mm Pitch 
8mm	12, 21, 36, 62	8mm .315 in.	5.9mm .233 in.	3.4mm .135 in.	14mm Pitch 
14mm	20, 37, 68, 90, 125	14mm .552 in.	10.2mm .401 in.	6mm .236 in.	

Note: Gates recommends that Poly Chain Carbon Volt belts run only in Poly Chain GT sprockets when used for new applications. Gates recommends that Poly Chain Carbon Volt belts be used for replacement belts in Poly Chain GT sprockets.

## BELT IDENTIFICATION

**14GTV-2100-37**  
**14GT** - 14mm Pitch  
**V** - Carbon Volt Construction  
**2100** - Pitch Length (mm)  
**37** - Belt Width (mm)

**Available Stock Sizes**  
**8M** 640-4480 (mm)  
**14M** 994-4410 (mm)

\*Minimum order quantities may apply

The power and performance you expect only from a Gates Poly Chain system, as well as industry-leading reliable dissipation of electrostatic charges.

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