

17 POLY CHAIN® CARBON™ VOLT™

ANTI-STATIC POLYURETHANE SYNCHRONOUS BELT WITH OPTIMISED CURVILINEAR GT TOOTH



THE POWER YOU WANT, THE SAFETY YOU NEVER HAD

Antistatic power transmission belts are a must in ATEX environments. To ensure the highest safety standards, their capacity to safely dissipate static electricity should meet the required levels over the lifetime of the belt - and not only when new. The Poly Chain® Carbon™ VOLT™ belt is the only belt in the market that meets the ISO 9563 standard over the complete lifespan of the belt. Its patented static-conductive jacket construction transfers static electricity safely to carbon tensile cords, away from the driven side of the application – making it your safest and strongest option for applications in ATEX environments.

CONSTRUCTION

- Static conductive (ISO 9563) and can as such be used in the conditions described in the directive 2014/34/EU- ATEX.
- Chemically resistant polyurethane compound that ensures optimum adhesion with the carbon tensile cords.
- Carbon fibre reinforcement for high strength and length stability.
- Nylon fabric facing that acts as a wear resistant surface, protecting the teeth and keeping frictional losses to a minimum.
- Curvilinear tooth profile for improved stress distribution and higher overall loading.
- Standard widths of 12, 21, 36, 62mm (8MGT) and 20, 37, 68, 90, 125mm (14MGT). Other widths available on request.

BENEFITS

- Maintains static conductivity over belt lifetime.
- 400% greater capacity than HTD belts.
- 5% energy savings over V-belts.
- 99% efficiency for life of the drive.
- Reduced maintenance and downtime.
- Reduce weight and overhung loads.
- Inert to most acids, chemicals and water.
- On demand available in PowerPainT™ construction, to eliminate paint contamination risk (see p. 40).
- Temperature range: -54 °C to + 85 °C.
- Perfect fit on Poly Chain® GT profile pulleys.

Please refer to p. 181 for size list.

Ordering code

14MGTV-1890-37
 14MGT - Pitch 14mm
 V - Carbon™ VOLT™ version
 1890 - Pitch length (mm)
 37 - Belt width (mm)

NOTE: For correct design and tensioning of the belt please use Gates DesignFlex™ Pro™ Drive design software, available on www.Gates.com.

Identification

Durable white marking indicating the belt type and belt dimensions.

Sections and nominal dimensions

Section	Pitch (mm)	Tooth height (mm)	Belt height (mm)	Length range (pitch length - mm)
8MGT	8.0	3.4	5.9	640 - 4480
14MGT	14.0	6.0	10.2	994 - 4410

For Poly Chain® GT 8MGT and 14MGT sprocket range refer to p. 49, 51, 52, 53.

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14MGT

Description	Pitch length	nr of teeth	Stock	New size
mm				
14MGTV-994	994	71	●	
14MGTV-1120	1120	80	●	
14MGTV-1190	1190	85	●	
14MGTV-1260	1260	90	●	
14MGTV-1400	1400	100	●	
14MGTV-1568	1568	112	●	
14MGTV-1610	1610	115	●	
14MGTV-1750	1750	125	●	
14MGTV-1890	1890	135	●	
14MGTV-1960	1960	140	●	
14MGTV-2100	2100	150	●	
14MGTV-2240	2240	160	●	
14MGTV-2310	2310	165	●	
14MGTV-2380	2380	170	●	
14MGTV-2450	2450	175	●	
14MGTV-2520	2520	180	●	
14MGTV-2590	2590	185	●	
14MGTV-2660	2660	190	●	
14MGTV-2730	2730	195	●	●
14MGTV-2800	2800	200	●	
14MGTV-2828	2828	202	●	●
14MGTV-3136	3136	224	●	
14MGTV-3304	3304	236	●	
14MGTV-3360	3360	240	●	
14MGTV-3500	3500	250	●	
14MGTV-3850	3850	275	●	
14MGTV-3920	3920	280	●	
14MGTV-4326	4326	309	●	
14MGTV-4410	4410	315	●	

Standard widths*
mm
20
37
68
90
125

* Other widths available on request.