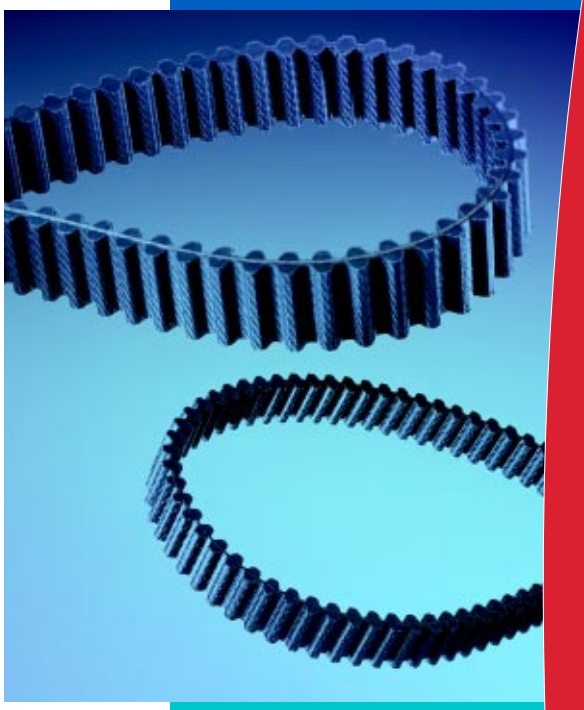
New double-sided synchronous belt with doubled power capacity

Twin Power® GT2

Due to the unique tooth design and improved materials Gates' Twin Power® synchronous belts provide high loading capacity on contra-rotating drives and ensure smooth running and high flexibility. Gates has now developed a Twin Power® double-sided belt with the unique GT2 tooth profile. This Twin Power® GT2 belt outperforms all previous Twin Power® constructions having twice the power rating of Twin Power® HTD® belts. Twin Power® GT2 is characterised by extraordinary load-carrying power and high tooth jump resistance, thus ensuring a positive non-slip drive. In addition, it runs at reduced noice levels.



Because of its high power capacity, the Twin Power® GT2 belt also permits design of more compact and cost effective drives.

A Twin Power® GT2 double-sided belt can transmit 100% of its maximum rated load from either side of the belt; alternatively, it can transmit a load on both sides provided the sum of the loads does not exceed the maximum capacity.

The new Twin Power® GT2 synchronous belt is available in 8MGT and 14MGT pitches.

The unique Twin Power® GT2 construction

- Precision-formed and accurately spaced elastomeric teeth for correct positioning.
- Helically wound tensile member for high strength, excellent flex life and resistance to elongation.
- Tough nylon fabric on both tooth sides for protection against frictional wear and pollution.

Twin Power® GT2: a top-performing belt for contrarotating drives

Twin Power® GT2: the performance choice

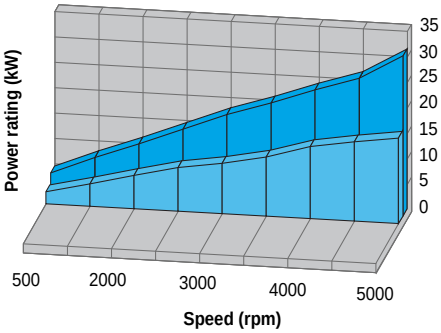
The PowerGrip® GT2 tooth profile and the construction of the Twin Power® GT2 belt provide substantial performance improvement compared with the former HTD® construction. The diagrams below illustrate the increase in power capacity and tooth jump resistance and the significant noise reduction offered by the Twin Power® GT2 belt.

Power rating

Similar pulley diameters

8MGT Twin Power® GT2

8M Twin Power® HTD®

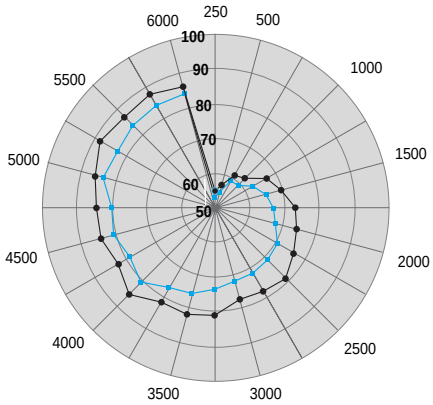


Noise

Overall noise - from 50 to 100 dB(A)
Speed - from 250 to 6000 rpm

8MGT Twin Power® GT2

8M Twin Power® HTD®



Tooth jump resistance

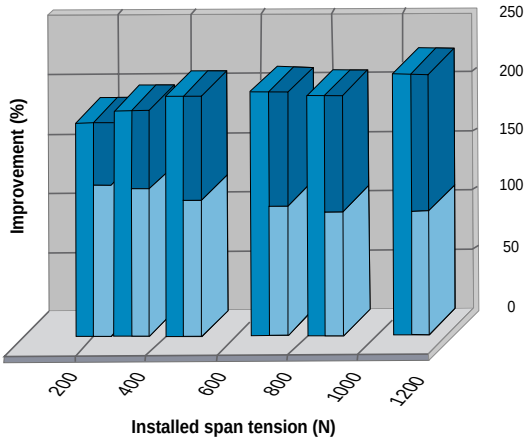
Improvements over Twin Power® HTD® 8M pitch

Similar pulley diameters

8MGT Twin Power® GT2

8M Twin Power® HTD®

Improvement



Gates' Twin Power® synchronous belts are also available from stock in XL, L and H pitches. Twin Power® HTD® 5M, 8M and 14M pitch belts are only available on a Made-To-Order basis.
Please consult Gates' industrial power transmission products catalogue (E2/20054) or visit our website at www.gates.com/europe for more information.

Your Distributor:

Drive the technology

Sizes

TP GT2 8MGT — Pitch: 8 mm

Length and pitch designation	Pitch length mm	Number of teeth
TP GT2 480 8MGT*	480	60
TP GT2 560 8MGT*	560	70
TP GT2 600 8MGT*	600	75
TP GT2 640 8MGT*	640	80
TP GT2 720 8MGT*	720	90
TP GT2 800 8MGT*	800	100
TP GT2 880 8MGT*	880	110
TP GT2 960 8MGT*	960	120
TP GT2 1040 8MGT*	1040	130
TP GT2 1120 8MGT**	1120	140
TP GT2 1200 8MGT**	**1200**	**150**
TP GT2 1280 8MGT**	**1280**	**160**
TP GT2 1440 8MGT**	**1440**	**180**
TP GT2 1600 8MGT**	**1600**	**200**
TP GT2 1760 8MGT**	**1760**	**220**
TP GT2 1800 8MGT**	**1800**	**225**
TP GT2 2000 8MGT**	**2000**	**250**
TP GT2 2400 8MGT**	**2400**	**300**
TP GT2 2600 8MGT**	**2600**	**325**
TP GT2 2800 8MGT**	**2800**	**350**
TP GT2 3048 8MGT**	3048	381
TP GT2 3280 8MGT**	3280	410
TP GT2 3600 8MGT**	3600	450
TP GT2 4400 8MGT**	4400	550
TP GT2 4960 8MGT***	4960	620

Available in widths of 20 mm, 30 mm, 50 mm and 85 mm.
* *Also available in slabs of 100 mm width*
** *Also available in slabs of 330 mm width*
*** *Also available in slabs of 150 mm width*

TP GT2 14MGT — Pitch: 14 mm

Length and pitch designation	Pitch length mm	Number of teeth
TP GT2 1610 14MGT	**1610**	**115**
TP GT2 1778 14MGT	1778	127
TP GT2 1890 14MGT	**1890**	**135**
TP GT2 2100 14MGT	**2100**	**150**
TP GT2 2310 14MGT	**2310**	**165**
TP GT2 2450 14MGT	2450	175
TP GT2 2590 14MGT	2590	185
TP GT2 2800 14MGT	**2800**	**200**
TP GT2 3150 14MGT	**3150**	**225**
TP GT2 3360 14MGT	3360	240
TP GT2 3500 14MGT	**3500**	**250**
TP GT2 3850 14MGT	3850	275
TP GT2 4326 14MGT	4326	309
TP GT2 4578 14MGT	**4578**	**327**
TP GT2 4956 14MGT	4956	354
TP GT2 5320 14MGT	5320	380
TP GT2 5740 14MGT	**5740**	**410**
TP GT2 6160 14MGT	6160	440
TP GT2 6860 14MGT	6860	490

Available in widths of 40 mm, 55 mm, 85 mm, 115 mm and 170 mm.

Twin Power® GT2 ordering code

Example: TP GT2 480 8MGT 20

TP GT2	- Twin Power® GT2
480	- pitch length 480 mm
8MGT	- pitch 8 mm
20	- belt width (mm)

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