

27 POWERGRIP™ HTD™ 8M, 14M & 20M

RUBBER SYNCHRONOUS BELT WITH HTD™ TOOTH PROFILE



The curvilinear PowerGrip™ HTD™ tooth geometry eliminates stress concentration at tooth roots and allows higher power capacity and longer life. PowerGrip™ HTD™ 8M, 14M and 20M belts are used in high performance drives in the machine tool, paper and textile industries where durability and low maintenance are required.

CONSTRUCTION

- Special curvilinear tooth form improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure correct positioning in the pulley grooves.
- Tough nylon facing protects the tooth surfaces.
- Fibre glass tensile member provides the required strength combined with excellent flex life and high resistance to elongation.
- Durable elastomeric backing protects against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.
- Belts conform to ISO13050:2014.
- Standard widths of 20, 30, 50, 85mm (8M); 40, 55, 85, 115, 170mm (14M); 115, 170, 230, 290, 340mm (20M). Other widths available on request.

BENEFITS

- Load capacities up to 1,000 kW.
- No slippage. PowerGrip™ HTD™ belt teeth mesh smoothly with pulley grooves, reducing speed variations.
- Wide speed range.
- Economical operation. No lubrication needed, no need for adjustment due to stretch and wear.
- High mechanical efficiency. The belt construction minimizes heat build-up and, since friction is not required to transmit the load, belt tensions are reduced.
- Constant driven speeds.
- Long trouble-free service life (because of excellent abrasion resistance) in many applications where metal components like chains and gears wear out in a matter of months.
- PowerGrip™ HTD™ 14M: static conductive (ISO 9563) and can as such be used in the conditions described in the Directive 2014/34/EU- ATEX.
- Temperature range: -30 °C to +100 °C.
- Perfect fit on HTD™ profile pulleys.

Please refer to p. 202 for size list.

Ordering code

480-8M-20
480 - Pitch length (mm)
8M - Pitch 8mm
20 - 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)
8M	8.0	3.4	5.6	264 – 2800
14M	14.0	6.1	10.0	784 – 4578
20M	20.0	8.4	13.2	2000 – 6600

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8M (CONTINUED)

Description	Pitch length	nr of teeth	Stock	New size
mm				
1728-8M	1728	216	●	
1760-8M	1760	220	●	
1800-8M	1800	225	●	
1880-8M	1880	235		
1896-8M	1896	237	●	
1904-8M	1904	238	●	
2000-8M	2000	250	●	
2080-8M	2080	260	●	
2200-8M	2200	275	●	
2240-8M	2240	280	●	
2272-8M	2272	284	●	
2400-8M	2400	300	●	
2504-8M	2504	313		
2600-8M	2600	325	●	
2800-8M	2800	350	●	

Standard widths*
mm
20
30
50
85

* Other widths available on request.