

# 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)

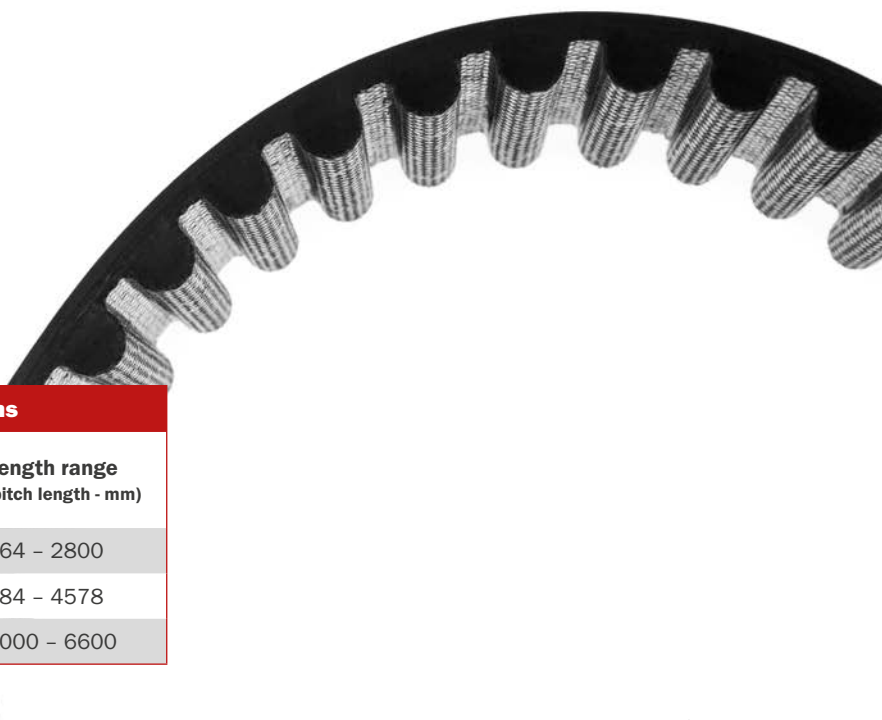
NOTE: For correct design and tensioning of the belt please use Gates DesignFlex™ Pro™ Drive design software, available on [www.Gates.com](http://www.Gates.com).

### 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



## 14M

Description	Pitch length	nr of teeth	Stock	New size
mm				
784-14M	784	56	●	
826-14M	826	59		
924-14M	924	66	●	
966-14M	966	69	●	
1092-14M	1092	78	●	
1190-14M	1190	85	●	
1400-14M	1400	100	●	
1610-14M	1610	115	●	
1778-14M	1778	127	●	
1890-14M	1890	135	●	
2100-14M	2100	150	●	
2310-14M	2310	165	●	
2450-14M	2450	175	●	
2590-14M	2590	185	●	
2800-14M	2800	200	●	
3150-14M	3150	225	●	
3500-14M	3500	250	●	
3850-14M	3850	275	●	
4004-14M	4004	286	●	
4326-14M	4326	309	●	
4578-14M	4578	327	●	

Standard widths*
mm
40
55
85
115
170

\* Other widths available on request.

## 20M

Description	Pitch length	nr of teeth	Stock	New size
mm				
2000-20M	2000	100		
2500-20M	2500	125		
3400-20M	3400	170		
3800-20M	3800	190		
4200-20M	4200	210		
4600-20M	4600	230		
5000-20M	5000	250		
5200-20M	5200	260		
5400-20M	5400	270		
5600-20M	5600	280		
5800-20M	5800	290		
6200-20M	6200	310		
6400-20M	6400	320		
6600-20M	6600	330		

Standard widths*
mm
115
170
230
290
340

\* Other widths available on request.