

The HTD™ curvilinear tooth form ensures an optimised load distribution leading to high power transmission in low speed and high torque applications. PowerGrip™ HTD™ 3M and 5M belts are suitable for domestic appliances, office machines, electric hand tools and for applications in the processing and chemical industry.

## CONSTRUCTION

- Special curvilinear tooth design improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure smooth engagement with the pulley grooves.
- Durable elastomeric backing protects the belt against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.
- Tough nylon facing protects the tooth surface.
- Fibre glass tensile cords.
- Belts conform to ISO13050:2014.
- Standard widths of 6, 9, 15mm (3M); 9, 15, 25mm (5M). Other widths available on request.

## BENEFITS

- 3M and 5M PowerGrip™ HTD™ are designed for speeds up to 20,000 rpm and capacities up to 10 kW.
- The optimized tooth form permits high loads to be transmitted, even in small pitches.
- Peripheral speed up to 80m/s.
- Efficiencies up to 99%.
- Compact design.
- 25% improved tooth jump resistance vs. PowerGrip™.
- Long service life and maintenance-free.
- Temperature range: -30 °C to +100 °C.
- Perfect fit on HTD™ profile pulleys



Please refer to p. 197 for size list.

### Ordering code

280-5M-15  
280 - Pitch length (mm)  
5M - Pitch 5mm  
15 - 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)
3M	3.0	1.2	2.4	105 - 1926
5M	5.0	2.1	3.8	120 - 2350

## 8M

Description	Pitch length	nr of teeth	Stock	New size
mm				
264-8M	264	33		
320-8M	320	40	●	
376-8M	376	47	●	
384-8M	384	48	●	
424-8M	424	53	●	
480-8M	480	60	●	
512-8M	512	64	●	
520-8M	520	65	●	
560-8M	560	70	●	
576-8M	576	72	●	
600-8M	600	75	●	
608-8M	608	76	●	
624-8M	624	78	●	
640-8M	640	80	●	
656-8M	656	82	●	
720-8M	720	90	●	
760-8M	760	95	●	
776-8M	776	97	●	
800-8M	800	100	●	
856-8M	856	107	●	
880-8M	880	110	●	
912-8M	912	114	●	
920-8M	920	115	●	
960-8M	960	120	●	
968-8M	968	121	●	
976-8M	976	122	●	
1000-8M	1000	125	●	
1040-8M	1040	130	●	
1064-8M	1064	133	●	
1080-8M	1080	135	●	
1120-8M	1120	140	●	
1128-8M	1128	141	●	
1160-8M	1160	145	●	
1176-8M	1176	147	●	
1200-8M	1200	150	●	
1216-8M	1216	152	●	
1224-8M	1224	153	●	
1256-8M	1256	157	●	
1264-8M	1264	158	●	
1280-8M	1280	160	●	
1304-8M	1304	163	●	
1360-8M	1360	170	●	
1424-8M	1424	178	●	
1432-8M	1432	179	●	
1440-8M	1440	180	●	
1512-8M	1512	189	●	
1520-8M	1520	190	●	
1552-8M	1552	194	●	
1584-8M	1584	198	●	
1600-8M	1600	200	●	
1696-8M	1696	212	●	

Standard widths*
mm
20
30
50
85

\* Other widths available on request.