

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.

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

3M (CONTINUED)

Description	Pitch length	nr of teeth	Stock	New size
mm				
333-3M	333	111	•	
336-3M	336	112	•	
339-3M	339	113		
342-3M	342	114		
345-3M	345	115	•	
357-3M	357	119	•	
363-3M	363	121	•	
372-3M	372	124	•	
381-3M	381	127	•	
384-3M	384	128	•	
420-3M	420	140	•	
435-3M	435	145	•	
447-3M	447	149	•	
462-3M	462	154	•	
474-3M	474	158	•	
477-3M	477	159		
480-3M	480	160	•	
486-3M	486	162		
489-3M	489	163		
501-3M	501	167	•	
513-3M	513	171		
522-3M	522	174		
525-3M	525	175		
531-3M	531	177		
537-3M	537	179		
552-3M	552	184		
558-3M	558	186		
564-3M	564	188	•	
570-3M	570	190		
573-3M	573	191		
582-3M	582	194	•	
591-3M	591	197		
594-3M	594	198		
600-3M	600	200	•	
612-3M	612	204	•	
627-3M	627	209		
633-3M	633	211	•	
645-3M	645	215	•	
648-3M	648	216		
669-3M	669	223	•	
672-3M	672	224		
681-3M	681	227		
711-3M	711	237	•	
720-3M	720	240	•	
735-3M	735	245		
738-3M	738	246		
753-3M	753	251	•	
804-3M	804	268	•	
822-3M	822	274	•	
882-3M	882	294		
945-3M	945	315	•	

Standard widths*

mm
6
9
15

* Other widths available on request.