

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

**5M**

Description	Pitch length	nr of teeth	Stock	New size
mm				
120-5M	120	24		
180-5M	180	36	●	
225-5M	225	45	●	
255-5M	255	51	●	
265-5M	265	53	●	
270-5M	270	54	●	
275-5M	275	55		
280-5M	280	56	●	
295-5M	295	59	●	
300-5M	300	60	●	
305-5M	305	61	●	
325-5M	325	65	●	
330-5M	330	66	●	
335-5M	335	67		
340-5M	340	68	●	
345-5M	345	69	●	
350-5M	350	70	●	
360-5M	360	72	●	
365-5M	365	73	●	
370-5M	370	74	●	
375-5M	375	75	●	
385-5M	385	77	●	
400-5M	400	80	●	
405-5M	405	81	●	
420-5M	420	84	●	
425-5M	425	85	●	
450-5M	450	90	●	
460-5M	460	92	●	
475-5M	475	95	●	
500-5M	500	100	●	
510-5M	510	102		
520-5M	520	104	●	
525-5M	525	105	●	
535-5M	535	107	●	
550-5M	550	110	●	
560-5M	560	112	●	
565-5M	565	113	●	
575-5M	575	115	●	
580-5M	580	116	●	
600-5M	600	120	●	
610-5M	610	122	●	
615-5M	615	123	●	
635-5M	635	127	●	
640-5M	640	128	●	
645-5M	645	129	●	
665-5M	665	133	●	
670-5M	670	134	●	
695-5M	695	139	●	
700-5M	700	140	●	
710-5M	710	142	●	
720-5M	720	144	●	

Standard widths*
mm
9
15
25

* Other widths available
on request.