

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

Description	Pitch length	nr of teeth	Stock	New size
mm				
105-3M	105	35		
111-3M	111	37		
120-3M	120	40		
123-3M	123	41		
126-3M	126	42		
129-3M	129	43		
141-3M	141	47		
144-3M	144	48		
150-3M	150	50	•	
156-3M	156	52	•	
159-3M	159	53	•	
165-3M	165	55	•	
168-3M	168	56	•	
171-3M	171	57		
174-3M	174	58		
177-3M	177	59	•	
180-3M	180	60	•	
183-3M	183	61		
186-3M	186	62		
189-3M	189	63		
192-3M	192	64	•	
195-3M	195	65	•	
201-3M	201	67	•	
204-3M	204	68		
210-3M	210	70	•	
213-3M	213	71		
216-3M	216	72		
219-3M	219	73		
222-3M	222	74		
225-3M	225	75	•	
234-3M	234	78		
237-3M	237	79		
243-3M	243	81	•	
246-3M	246	82	•	
249-3M	249	83	•	
252-3M	252	84	•	
255-3M	255	85	•	
267-3M	267	89	•	
276-3M	276	92	•	
282-3M	282	94	•	
285-3M	285	95	•	
288-3M	288	96	•	
291-3M	291	97	•	
294-3M	294	98	•	
297-3M	297	99		
300-3M	300	100	•	
306-3M	306	102	•	
312-3M	312	104	•	
315-3M	315	105		
318-3M	318	106	•	
330-3M	330	110	•	

Standard widths*

mm
6
9
15

* Other widths available
on request.