

25 POWERGRIP HTD 3M & 5M

RUBBER SYNCHRONOUS BELT WITH HTD TOOTH PROFILE

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 sprocket 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 sprockets

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 Design Power software, available on www.gates.com

Identification

Durable white marking indicating the belt type and belt dimensions.

PLEASE REFER TO P. 196 FOR SIZE LIST.

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

