

Main industry segments

Textiles, materials handling, packaging, automation, postal, paper and wood

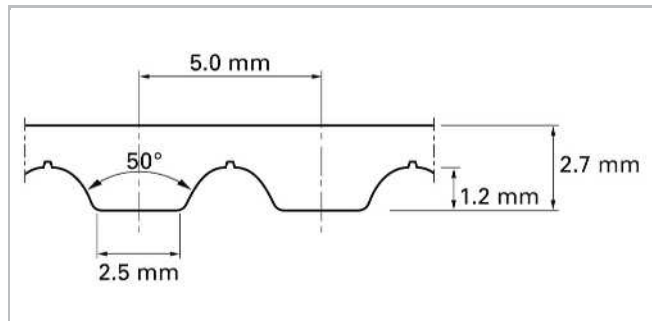
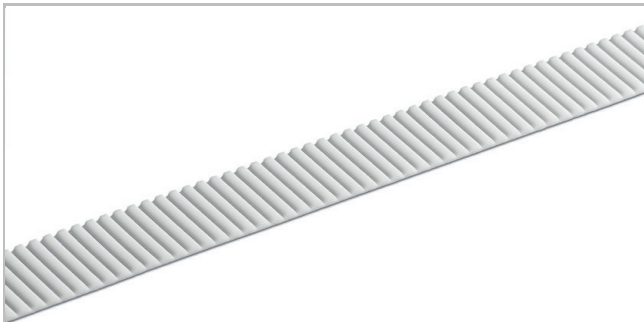
Belt applications

Automated stop gauge and pusher systems, large format printers, automatic gate and door entry systems, automatic vending machines, window opening devices, robotic positioning arms, pick-n-place transports, small parts conveying, XYZ axis drives, textile scanning, cutting and knitting machines, media and paper conveying, electronic assembly equipment, package conveying, wood panel conveying, fitness equipment

Description

Trapezoid teeth with a 50° tooth angle are spaced on 5 mm centers.

White thermoplastic polyurethane with 92 Shore A provides excellent wear resistance on the tooth side and protects the aramid tensile member. Our material also provides high lubricity, which yields low noise and vibration meshing in and out of the drive pulley.



Sketch of basic shape

Belt data

| Belt slitting width, nominal | | Admissible tensile force, open belt | | Admissible tensile force, joined belt | | Tensile force for 1% elongation | | Mass of belt | |
|------------------------------|------|-------------------------------------|-----|---------------------------------------|-----|---------------------------------|-----|--------------|-------|
| mm | inch | N | lbf | N | lbf | N | lbf | kg/m | lb/ft |
| 10 | 0.39 | 700 | 157 | 350 | 79 | 1416 | 318 | 0.04 | 0.03 |
| 16 | 0.59 | 1120 | 252 | 560 | 126 | 2116 | 476 | 0.06 | 0.04 |
| 25 | 0.98 | 1750 | 393 | 875 | 197 | 2833 | 637 | 0.08 | 0.05 |

Standard belt widths are equal to, or multiples of the nominal belt slitting width.

Maximum belt width (150 mm / 6 inch): All **non-standard belt widths** can be slitted on request.

Temperature range of matrix material: -20 to 80 °C (-4 to 176 °F)

The tensile force for 1% elongation (k1% static) per unit of width determines the stress-strain behavior of the belt. It defines the resulting strain if a certain stress is applied and vice versa. This value corresponds to the belt without joint.

The ultimate tensile strength (or breaking strength) for the widest slitting width mentioned above is 12100 N.

The admissible tensile force of a running belt is defined by the strength of the joint or by the strength of the belt without joint. Habasit defines an admissible belt force (without joint) for all belts, which always corresponds with a belt elongation of 0.6 %. Joined belts are calculated with half admissible force. Please contact Habasit for detailed information and calculations.

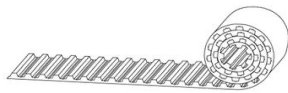
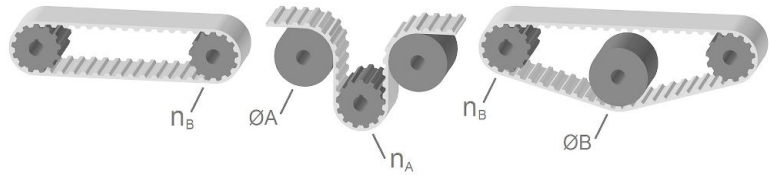
All data are approximate values under **standard climatic conditions**: 23 °C / 73 °F, 50% relative humidity (DIN 50005 / ISO 554), and are based on the Master Joining Method.

Belt options

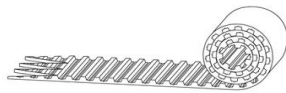
| Description | | ØA | | n _A | ØB | | n _B |
|--|--------|----|------|----------------|----|------|----------------|
| | | mm | inch | | mm | inch | |
| Tooth side: unprocessed matrix material Conveying side: unprocessed matrix material | U U | 60 | 2.36 | 25 | 25 | 0.98 | 15 |
| Tooth side: unprocessed matrix material Conveying side: Polyamide fabric, green | U P | 60 | 2.36 | 25 | 25 | 0.98 | 15 |
| Tooth side: Polyamide fabric, green Conveying side: unprocessed matrix material | P U | 60 | 2.36 | 25 | 25 | 0.98 | 15 |
| Tooth side: Polyamide fabric, green Conveying side: Polyamide fabric, green | P P | 60 | 2.36 | 25 | 25 | 0.98 | 15 |

For **detailed material properties** (e.g. coefficient of friction, colors, etc.) please contact your Habasit representative.

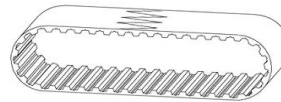
A = with counter flection
B = without counter flection



Open ended (O)



Prepared ends (P)



Joined endless (J)

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