

Main industry segments

Textiles, materials handling, packaging, automation and paper

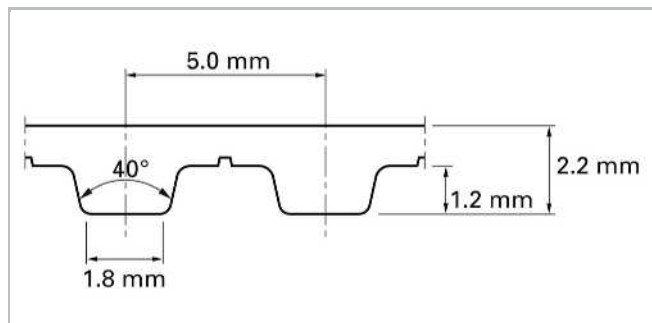
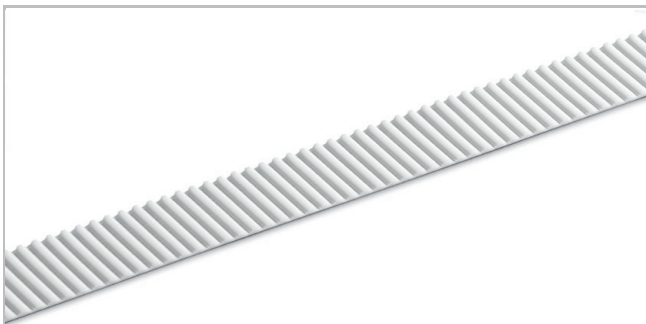
Belt applications

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 40° 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 steel 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 according to DIN 7721

Belt data

Belt slitting width, nominal		Admissible tensile force, open belt		Admissible tensile force, joined belt		Tensile force for 1% elongation		Mass of belt (belt weight)	
mm	inch	N	lbf	N	lbf	N	lbf	kg/m	lb/ft
10	0.39	336	76	168	38	840	189	0.02	0.02
16	0.63	540	121	270	61	1350	303	0.04	0.03
25	0.98	840	189	420	94	2100	472	0.06	0.04

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 3500 N.

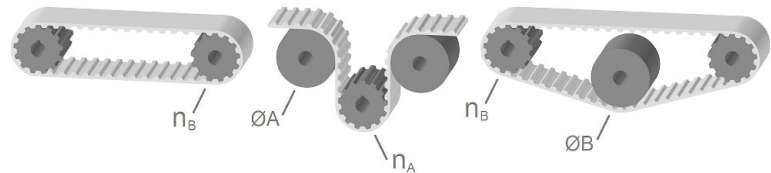
The admissible tensile force of a running belt is defined by the strength of the joint or by the strength of the belt without joint. Habasit defines an admissible belt force (without joint) for all belts, which always corresponds with a belt elongation of 0.4 %. Joined belts are calculated with half 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.

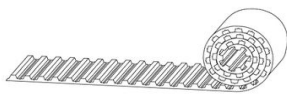
Belt options

Description		ØA		n _A	ØB		n _B
		mm	inch		mm	inch	
Tooth side: unprocessed matrix material	U	30	1.18	15	30	1.18	12
Conveying side: unprocessed matrix material	U						
Tooth side: Polyamide fabric, green	P	30	1.18	15	30	1.18	12
Conveying side: unprocessed matrix material	U						
Tooth side: Polyamide fabric, green	P	30	1.18	15	30	1.18	12
Conveying side: Polyamide fabric, green	P						

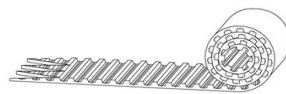
For **detailed material properties** (e.g. coefficient of friction, colors, etc.) please contact your Habasit representative.



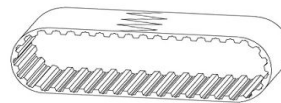
A = with counter flexion
B = without counter flexion



Open ended (O)



Prepared ends (P)



Joined endless (J)

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