

Main industry segments

Materials handling and automation

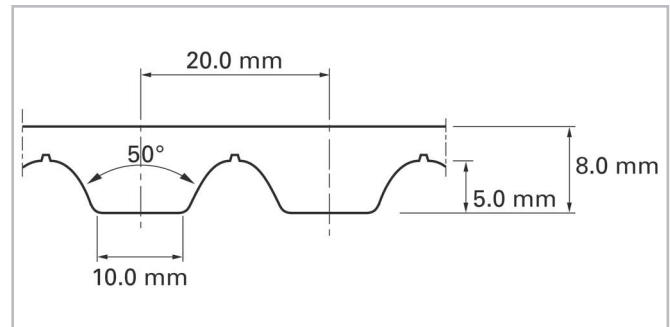
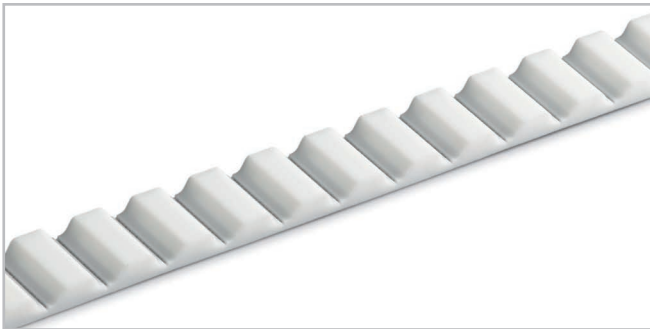
Belt applications

Linear actuators, automated storage systems, robotic positioning arms

Description

Trapezoid teeth with a 50° tooth angle are spaced on 20 mm centers.

White thermoplastic polyurethane with 92 Shore A provides excellent wear resistance on the tooth side and protects the steel tensile member. The **high performing tensile member (P)** is stronger than standard steel. Making them the right choice for heavy load applications or where bi-directional precision tooth engagement is required.



Sketch of basic shape according to DIN ISO 5296

Belt data

Belt width, nominal		Ultimate tensile strength		Admissible tensile force, open belt		Tensile force for 1% elongation		Mass of belt (belt weight)	
mm	inch	N	lbf	N	lbf	N	lbf	kg/m	lb/ft
25	0.98	30833	6932	9167	2061	22919	5152	0.3	0.16

Belt width (max 150 mm / 6 inch): Possible **cutting widths** are multiples of the nominal belt width.

In general timing belts with high performing tensile member do not have a fusion joint.

Temperature range of matrix material: -30 to 80 °C (-22 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 admissible tensile force of a running belt is defined by the strength of the belt without joint. Habasit defines an admissible belt force (without joint) for all belts, which always corresponds to a belt elongation of 0.4%. 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.

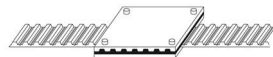
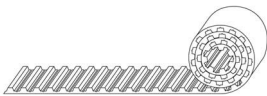
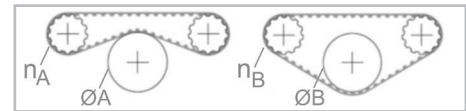
Belt options

Description		ØA		n _A	ØB		n _B
		mm	inch		mm	inch	
Tooth side: unprocessed matrix material Conveying side: unprocessed matrix material	U	250	9.84	25	160	6.30	18
Tooth side: Polyamide 6 fabric, green Conveying side: unprocessed matrix material	PT U	250	9.84	25	160	6.30	18

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

A = with counter flection

B = without counter flection



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