

### Main industry segments

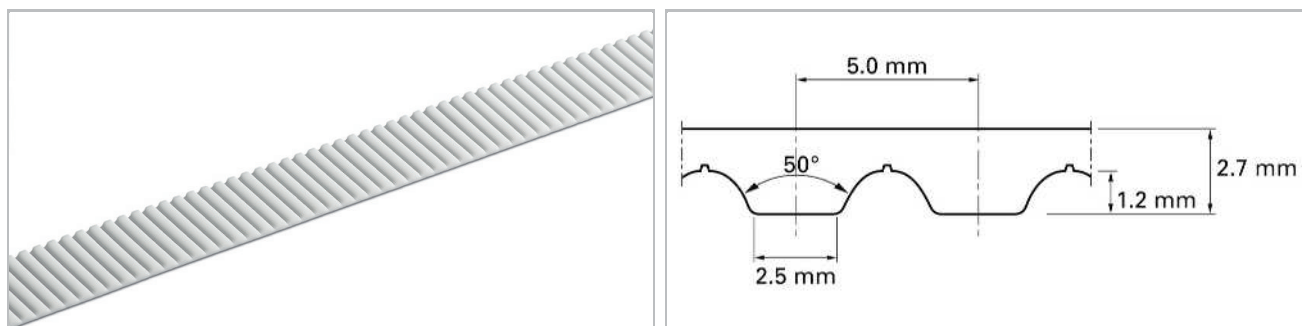
Paper, Postal, Packaging, Automation, Materials Handling

### Belt applications

General conveying for higher strength and precision, power transmission, robotic positioning arms, pick-n-place transports

### Description

Trapezoid teeth with a 50° tooth angle are spaced on 5 mm centers. White thermoplastic polyurethane in 92 Shore A hardness provides excellent wear resistance on the tooth side and conveying side of the belt. Steel cords, designed for maximum flexibility are encapsulated in the urethane in the right location to insure accurate meshing and efficient single or bi-directional movement. Our material provides good lubricity, which yields low noise and vibration free meshing in and out of the drive pulley.



Sketch of basic shape

### Belt data

Belt slitting width, nominal		Admissible tensile force, truly endless belt		Ultimate tensile strength		Tensile force for 1% elongation		Mass of belt	
mm	inch	N	lbf	N	lbf	N	lbf	kg/m	lb/ft
25	0.98	1415	318	7410	1666	3535	795	0.09	0.06

**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 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.

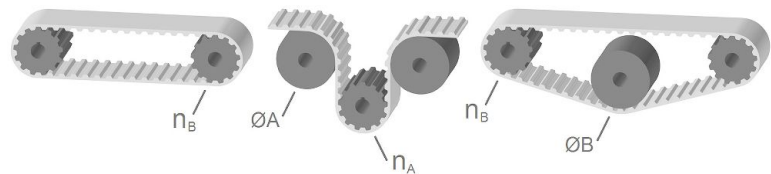
### Unit load table

RPM	F <sub>i</sub>	M <sub>i</sub>	P <sub>i</sub>	RPM	F <sub>i</sub>	M <sub>i</sub>	P <sub>i</sub>	RPM	F <sub>i</sub>	M <sub>i</sub>	P <sub>i</sub>
[min <sup>-1</sup> ]	[N/cm]	[Nm/cm]	[W/cm]	[min <sup>-1</sup> ]	[N/cm]	[Nm/cm]	[W/cm]	[min <sup>-1</sup> ]	[N/cm]	[Nm/cm]	[W/cm]
0	35.61	0.057	0.000	1000	23.98	0.038	4.008	2800	17.20	0.028	8.098
20	35.08	0.056	0.117	1100	23.40	0.037	4.297	3000	16.72	0.027	8.372
40	34.59	0.055	0.231	1200	22.87	0.036	4.566	3200	16.28	0.026	8.767
60	34.16	0.054	0.341	1300	22.38	0.036	4.881	3400	15.84	0.025	8.970
80	33.72	0.054	0.451	1400	21.90	0.035	5.114	3600	15.46	0.025	9.315
100	33.29	0.053	0.553	1500	21.46	0.034	5.403	3800	15.07	0.024	9.640
200	31.49	0.050	1.055	1600	21.03	0.034	5.683	4000	14.68	0.023	9.741
300	30.09	0.048	1.507	1700	20.64	0.033	5.865	4500	13.81	0.022	10.27
400	28.83	0.046	1.928	1800	20.25	0.032	6.119	5000	13.03	0.021	10.91
500	27.81	0.044	2.309	1900	19.86	0.031	6.266	5500	12.35	0.020	11.44
600	26.89	0.043	2.679	2000	19.53	0.031	6.494	6000	11.72	0.018	11.57
700	26.02	0.042	3.054	2200	18.90	0.030	6.920	6500	11.14	0.018	12.20
800	25.29	0.040	3.369	2400	18.31	0.029	7.306				
900	24.61	0.039	3.699	2600	17.73	0.028	7.651				

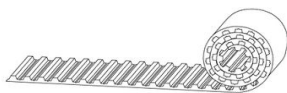
### Belt options

Description		ØA		n <sub>A</sub>	ØB		n <sub>B</sub>
		mm	inch		mm	inch	
Tooth side: unprocessed matrix material	U	40	1.57	15	25	0.98	12
Conveying side: unprocessed matrix material	U						
Tooth side: Polyamide fabric, green	P	40	1.57	15	25	0.98	12
Conveying side: unprocessed matrix material	U						

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



- A** = with counter flection
- B** = without counter flection



Truly endless (T)

### Disclaimer

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