

### Main industry segments

Automation, Materials Handling

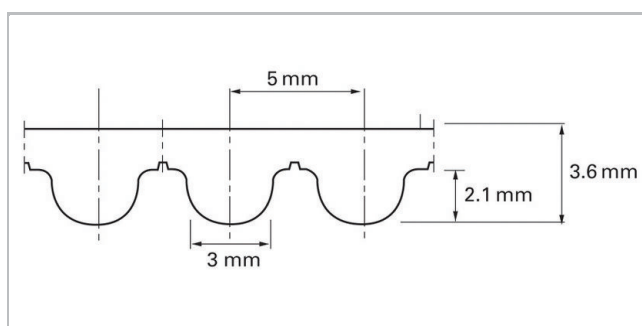
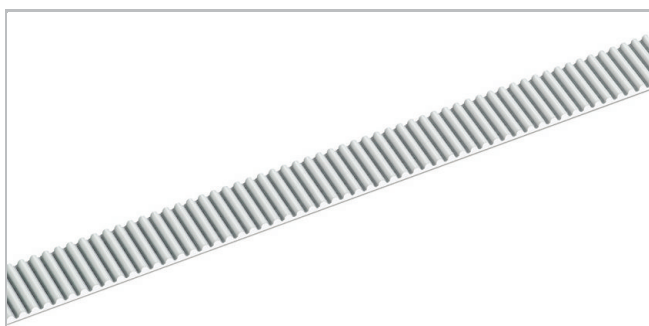
### Belt applications

General conveying for higher strength and precision, Wet conveying applications

### Description

Curvilinear shaped teeth are spaced on 5 mm centers.

White thermoplastic polyurethane with 92 Shore A provides excellent wear resistance on the tooth side and conveying side of the belt. Stainless steel cords are encapsulated in the urethane to insure accurate meshing and efficient single or bi-directional movement. Our material also provides high lubricity, which yields low noise and vibration free meshing in and out of the drive pulley. The stainless steel tensile member is resistant to influences caused by wet environment.



Sketch of basic shape according to ISO 13050 (HTD)

### 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
50	2.0	1780	400	9360	2104	4460	1003	0.24	0.16

**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.

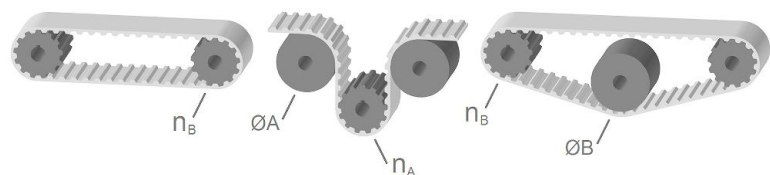
### Unit load table

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	29.40	0.047	0.000	1000	19.80	0.032	3.309	2800	14.20	0.023	6.685
20	28.96	0.046	0.096	1100	19.32	0.031	3.548	3000	13.80	0.022	6.912
40	28.56	0.046	0.191	1200	18.88	0.030	3.770	3200	13.44	0.022	7.238
60	28.20	0.045	0.281	1300	18.48	0.030	4.030	3400	13.08	0.021	7.406
80	27.84	0.044	0.372	1400	18.08	0.029	4.222	3600	12.76	0.020	7.691
100	27.48	0.044	0.457	1500	17.72	0.028	4.461	3800	12.44	0.020	7.959
200	26.00	0.042	0.871	1600	17.36	0.028	4.691	4000	12.12	0.019	8.042
300	24.84	0.040	1.244	1700	17.04	0.027	4.842	4500	11.40	0.018	8.482
400	23.80	0.038	1.592	1800	16.72	0.027	5.052	5000	10.76	0.017	9.006
500	22.96	0.036	1.906	1900	16.40	0.026	5.173	5500	10.20	0.016	9.446
600	22.20	0.035	2.212	2000	16.12	0.026	5.362	6000	9.680	0.015	9.550
700	21.48	0.034	2.522	2200	15.60	0.025	5.714	6500	9.200	0.015	10.07
800	20.88	0.033	2.781	2400	15.12	0.024	6.032				
900	20.32	0.032	3.054	2600	14.64	0.023	6.317				

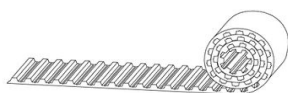
### Belt options

Description		ØA		n <sub>A</sub>	ØB		n <sub>B</sub>
		mm	inch		mm	inch	
Tooth side: unprocessed matrix material	U	65	2.56	25	40	1.57	18
Conveying side: unprocessed matrix material	U						
Tooth side: Polyamide fabric, green	P	65	2.56	25	40	1.57	18
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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