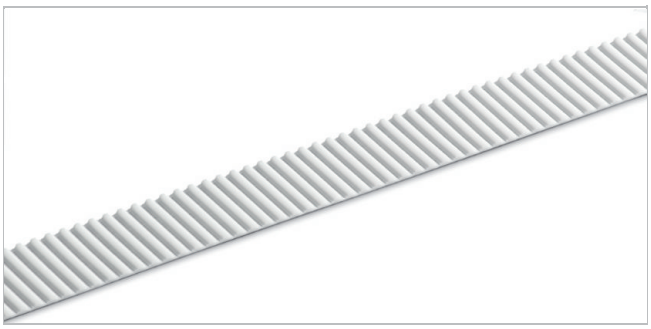
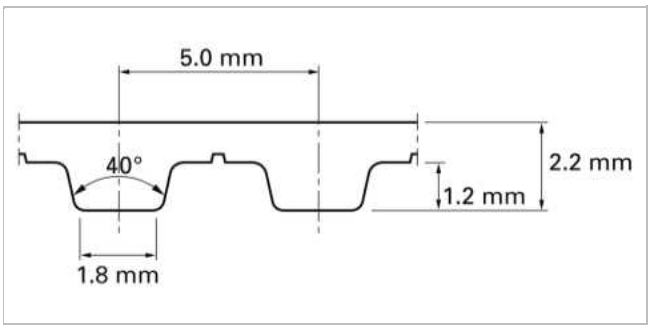
HabaSYNC Flex Belts
FT5-H

Description

Metric, T shape, Standard trapezoidal, 5 mm pitch, Highly flexible steel cord





Sketch of basic shape

Product Construction / Design								
Material Type	**Color**	**Hardness**	**Temperature range**				**Food grade[1]**	**Characteristic**
		ShA	°C	*°F*	°C	*°F*		
01	White	92	-20	*-4*	80	*176*	No	TPU - polyester
05	Cobalt blue	90	-30	*-22*	80	*176*	Yes	TPU - polyether
16	Transparent	85	-30	*-22*	80	*176*	Yes	TPU - polyester
22	Transparent	90	-20	*-4*	70	*158*	Yes	TPU - polyester
06	Black	92	-20	*-4*	80	*176*	No	TPU - polyester

[1] This product is in compliance with relevant EU and/or US food contact requirements. Check the following link for detailed information **Documents of Compliance**

Standard belt options - Conveying side
Unprocessed (U)

Standard belt options - Teeth side
Unprocessed (U), Green polyamide fabric (P), Antistatic black polyamide fabric (A)[2]

[2] Fulfills ISO 9563

Technical data									
Belt slitting width, nominal		**Admissible tensile force, truly endless belt**		**Ultimate tensile strength**		**Tensile force for 1% elongation**		**Mass of belt (belt weight)**	
mm	*inch*	N	*lbf*	N	*lbf*	N	*lbf*	kg/m	*lb/ft*
50.0	*2.0*	2070	*465*	8700	*1956*	5180	*1165*	0.12	*0.08*

Maximum belt width (150 mm / 6 *inch*).
Belt versions with increased thickness are available on request. Please consider larger minimum pulley diameters.

The admissible tensile force of a running belt is defined by the strength of a truly endless belt. Habasit defines an admissible belt force for all belts, which always corresponds to a belt elongation of 0.4 %.

The unit load table displays per rotational speed (RPM); tooth shear strength (F_i), torque (M_i) and power (P_i).

Please contact Habasit for detailed information and calculations.
Link to JDS:

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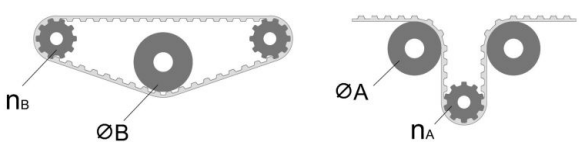
Unit load table

RPM	F_i	M_i	P_i
[min^{-1}]	[N/cm]	[Nm/cm]	[W/cm]
0	24.35	0.019	0.000
20	23.74	0.019	0.040
40	23.22	0.018	0.077
60	22.73	0.018	0.114
80	22.32	0.017	0.149
100	21.99	0.017	0.183
200	20.60	0.016	0.343
300	19.60	0.016	0.490
400	18.83	0.015	0.627
500	18.19	0.014	0.758
600	17.66	0.014	0.882
700	17.20	0.014	1.003
800	16.79	0.013	1.119
900	16.43	0.013	1.232

RPM	F_i	M_i	P_i
[min^{-1}]	[N/cm]	[Nm/cm]	[W/cm]
1000	16.10	0.013	1.341
1100	15.80	0.012	1.447
1200	15.52	0.012	1.552
1300	15.27	0.012	1.653
1400	15.03	0.012	1.752
1500	14.81	0.012	1.850
1600	14.59	0.012	1.945
1700	14.40	0.011	2.037
1800	14.21	0.011	2.129
1900	14.03	0.011	2.220
2000	13.86	0.011	2.308
2200	13.55	0.011	2.481
2400	13.26	0.011	2.651
2600	12.99	0.010	2.813

RPM	F_i	M_i	P_i
[min^{-1}]	[N/cm]	[Nm/cm]	[W/cm]
2800	12.74	0.010	2.973
3000	12.51	0.010	3.126
3200	12.30	0.010	3.276
3400	12.09	0.010	3.424
3600	11.90	0.009	3.568
3800	11.72	0.009	3.708
4000	11.54	0.009	3.847
4500	11.14	0.009	4.178
5000	10.78	0.009	4.491
5500	10.46	0.008	4.793
6000	10.16	0.008	5.079
6500	9.89	0.008	5.352

Technical data					
ØB		n_B	ØA		n_A
mm	inch		mm	inch	
30	1.18	10	30	1.18	15



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.
Limited representative testing based on a standard configuration is carried out to estimate minimum pulley diameters. Please contact Habasit for specific guidance regarding non-standard applications, including, but not exclusively, when profiles or cleats are used, or if the belt working temperature is close to the limits listed in this document.