

PU Torque HTD5M Steel

Article code: TBUT002100

General information

Productgroup	Timing belts, PU Torque
Industry segment	General industry; Container & packaging; Paper & print
Main product feature	Positive drive, Non-marking, Wear resistant

Belt construction

Tension member		steel
Material	body	Polyurethane
Surface	tooth side	Polyurethane
	back side	Polyurethane

Characteristics

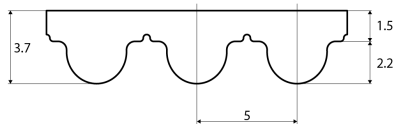
Food Grade (FG)	no	
Antistatic (AS)	no	
Oil & Fat resistance	yes	

Technical data

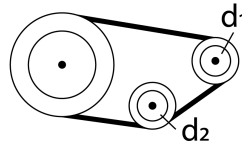
Tooth	profile		HTD5M		
	pitch		5 mm		0.2 in.
Hardness body material	ISO 868		92A Shore		
Belt thickness			3.6 mm		0.14 in.
Belt weight			4.8 kg/m ²		0.98 lbs/ft ²
Coefficient of friction	tooth side to steel	dynamic	0,5		
Operating temperature	continuous	from / to	-10 / 80 °C		14 / 176 °F
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	16		
		d1	24.32 mm		0.96 in.
		d2	50 mm		1.97 in.
	B) with counter flexing	number of teeth, t1	20		
		d1	30.69 mm		1.21 in.
		d2	50 mm		1.97 in.
Belt width	maximum		150 mm		5.91 in.
Belt length	minimum		900 mm		35.43 in.
	maximum		25000 mm		82.02 ft.

Reference images

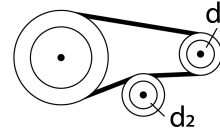
Side view



A) without counter flexing



B) with counter flexing



Fabrication

This information on the fabrication options is general, please contact Ammeraal Beltech to inquire for the specific fabrication possibilities of the timing belt of your choice.

Cleats welded or mechanically attached, metal teeth, guides welded or glued.

Covers can be welded, glued, coated or vulkanized onto the back side of the timing belt.

Thermoplastic covers can be embossed.

Perforations, lateral and longitudinal slots, lateral and longitudinal profiles.

Additional Information

Tooth profile according to standard: metric ISO 17396 , imperial ISO 5296-1, curvilinear ISO 13050, depending on the belt type.

This sheet contains typical values, which apply to a temperature of approx. 20 °C (68 °F), unless otherwise stated, individual data may differ.

Consult our specialists for further information like technical calculations. Instructions regarding joining, storage & maintenance and tracking & tensioning.

Standard belt width [mm]	Allow. tensile load Linear open end & Torque [N]	Allow. tensile load Linear welded endless [N]	Spring force [N]
10	880	440	220000
15	1320	660	330000
20	1750	875	450000
30	2600	1300	690000
50	5060	2530	1265000
85	8600	4300	2120000
100.1	10120	5060	2530000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
0	3.68	0
25	3.588	0.007
50	3.545	0.015
75	3.5	0.022
100	3.452	0.029
150	3.37	0.042
200	3.27	0.055
300	3.125	0.078
400	3.017	0.101
500	2.931	0.122
750	2.753	0.172
1000	2.605	0.217
1250	2.479	0.258
1500	2.371	0.296
1750	2.278	0.332
2000	2.191	0.365
3000	1.923	0.481
4000	1.723	0.574

Standard