

PU Linear HTD3M Steel

Article code: TBPU000082

General information

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

Belt construction

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

Characteristics

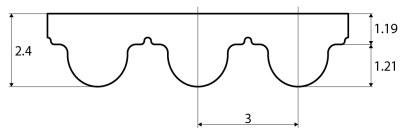
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	yes

Technical data

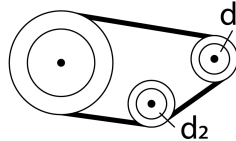
Tooth	profile		HTD3M		
	pitch		3 mm	0.12 in.	
Hardness body material	ISO 868		92A Shore		
Belt thickness	total		2.2 mm	0.09 in.	
Belt weight			2 kg/m ²	0.41 lbs/ft ²	
Coefficient of friction	tooth side to steel	dynamic	0,5		
Operating temperature	continuous	from / to	-10 / 80 °C	14 / 176 °F	
Minimum pulley diameter	A) without counter flexing	number of teeth, t1	16		
		d1	14.52 mm	0.57 in.	
		d2	40 mm	1.57 in.	
	B) with counter flexing	number of teeth, t1	20		
		d1	18.34 mm	0.72 in.	
		d2	50 mm	1.97 in.	
Belt width	maximum		100 mm	3.94 in.	
Endless length	minimum		500 mm	19.69 in.	
Manufacturing length	standard		100000 mm	328.08 ft.	

Reference images

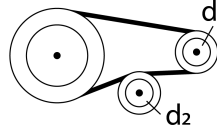
Side view



A) without counter flexing



B) with counter flexing



Fabrication

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

Open end, prepared splice, spliced endless with mechanical fastener or a pin joint fastener.

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	300	150		75000
15	480	240		120000
20	615	307.5		154000
25	780	390		195000
30	950	475		230000
50	1560	780		390000
100.1	3300	1650		825000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]	
0	2.52	0	
25	2.44	0.003	
50	2.37	0.006	
75	2.32	0.009	
100	2.272	0.011	
150	2.2	0.017	
200	2.122	0.021	
300	2.031	0.03	
400	1.975	0.04	
500	1.914	0.048	
750	1.755	0.066	
1000	1.624	0.081	
1250	1.52	0.095	
1500	1.406	0.105	
1750	1.317	0.115	
2000	1.236	0.124	
3000	0.979	0.147	
4000	0.786	0.157	

Standard