Technical datasheet

## **PU Linear HTD5M Steel NTB**

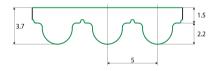


Article code: TBPU000087

General information					
Productgroup	Timing belts, PU	Linear			
Industry segment	General industry	; Container & p	ackaging; Paper & print		
Main product feature	Low friction back	side, Low fricti	on tooth side, Positive drive, W	ear resistant	
Belt construction					
Tension member		steel			
Material	body	Polyuretha	ne		
Surface	tooth side	Polyamide			
	back side	Polyamide			
Characteristics					
Food Grade (FG)	no				
Antistatic (AS)	no				
Oil & Fat resistance	yes				
Fechnical data					
Tooth	profile			HTD5M	
	pitch			5 mm	0.2 in.
Hardness body material	ISO 868			92A Shore	
Belt thickness	total			3.7 mm	0.15 in.
Belt weight				4.8 kg/m <sup>2</sup>	0.98 lbs/f
Coefficient of friction	tooth side to ste	el	dynamic	0,3	
Operating temperature	continuous		from / to	-10 / 80 °C	14/176 °F
Minimum pulley diameter	A) without count	er flexing	number of teeth, t1	16	
			d1	24.32 mm	0.96 in.
			d2	50 mm	1.97 in.
	B) with counter t	lexing	number of teeth, t1	20	
			d1	30.69 mm	1.21 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

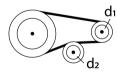


A) without counter flexing

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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 logitudinal 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 Specific power [W/mm]					
	[N/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

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