

# PU Linear HTD8M Steel NT

Article code: TBPU000089

## General information

<b>Productgroup</b>	Timing belts, PU Linear
<b>Industry segment</b>	General industry; Container & packaging; Wood: Panel board
<b>Main product feature</b>	Low friction tooth side, Low noise, Positive drive, Wear resistant

## Belt construction

<b>Tension member</b>		steel
<b>Material</b>	<b>body</b>	Polyurethane
<b>Surface</b>	<b>tooth side</b>	Polyamide fabric
	<b>back side</b>	Polyurethane

## Characteristics

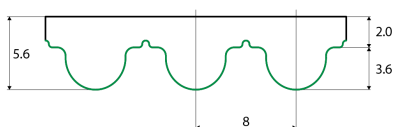
<b>Food Grade (FG)</b>	no
<b>Antistatic (AS)</b>	no
<b>Oil &amp; Fat resistance</b>	yes

## Technical data

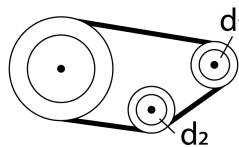
<b>Tooth</b>	profile		HTD8M	
	pitch		8 mm	0.31 in.
<b>Hardness body material</b>	ISO 868		92A Shore	
<b>Belt thickness</b>	total		5.6 mm	0.22 in.
<b>Belt weight</b>			6.9 kg/m <sup>2</sup>	1.41 lbs/ft <sup>2</sup>
<b>Coefficient of friction</b>	tooth side to steel	dynamic	0,3	
<b>Operating temperature</b>	continuous	from / to	-10 / 80 °C	14 / 176 °F
<b>Minimum pulley diameter</b>	A) without counter flexing	number of teeth, t1	18	
		d1	44.46 mm	1.75 in.
		d2	50 mm	1.97 in.
	B) with counter flexing	number of teeth, t1	18	
		d1	44.46 mm	1.75 in.
		d2	120 mm	4.72 in.
<b>Belt width</b>	maximum		100 mm	3.94 in.
<b>Endless length</b>	minimum		500 mm	19.69 in.
<b>Manufacturing length</b>	standard		100000 mm	328.08 ft.

## Reference images

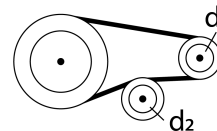
### Side view



### 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	2000	1000	504000
15	2900	1450	728000
30	4250	2125	1064000
50	7170	3585	1792000
85	12750	6375	3192000
100	14550	7275	3640000
115.1	16670	8335	4180000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
0	7.4	0
25	7.31	0.024
50	7.06	0.047
75	7	0.07
100	6.81	0.091
150	6.608	0.132
200	6.409	0.171
300	6.168	0.247
400	5.903	0.315
500	5.671	0.378
750	5.198	0.52
1000	4.835	0.645
1250	4.487	0.748
1500	4.286	0.857
1750	4.048	0.945
2000	3.878	1.034
3000	3.28	1.312
4000	2.844	1.517

Standard