

# PU Linear HTD 5M steel NT black AS

Article code: TBPU000254

## General information

<b>Productgroup</b>	Timing belts, PU Linear
<b>Industry segment</b>	General industry; Electronics
<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

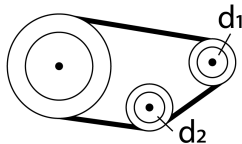
<b>Food Grade (FG)</b>	no
<b>Antistatic (AS)</b>	yes
<b>Oil &amp; Fat resistance</b>	good

## Technical data

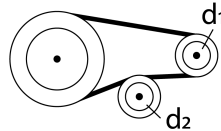
<b>Tooth</b>	profile		HTD5M	
	pitch		5 mm	0.2 in.
<b>Hardness body material</b>	ISO 868		92A Shore	
<b>Belt thickness</b>	total		3.7 mm	0.15 in.
<b>Belt weight</b>			4.8 kg/m <sup>2</sup>	0.98 lbs/ft <sup>2</sup>
<b>Coefficient of friction</b>	tooth side to steel	dynamic	0,3	
		static	0,3	
<b>Operating temperature</b>	continuous	from / to	-10 / 80 °C	14 / 176 °F
<b>Minimum pulley diameter</b>	A) without counter flexing	number of teeth, t1	16	
		d1	30.69 mm	1.21 in.
		d2	50 mm	1.97 in.
	B) with counter flexing	number of teeth, t1	20	
		d1	24.32 mm	0.96 in.
		d2	50 mm	1.97 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

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	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