

# PU Torque AT20 Steel NT

Article code: TBUT101000

## General information

<b>Productgroup</b>	Timing belts, PU Torque
<b>Industry segment</b>	General industry; Wood; Building materials: Stone & ceramics, Bricks & tiles
<b>Main product feature</b>	Low friction tooth side, Positive drive, Wear resistant bottom side

## 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

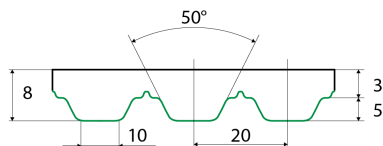
<b>Food Grade (FG)</b>	no
<b>Antistatic (AS)</b>	no
<b>Oil &amp; Fat resistance</b>	yes

## Technical data

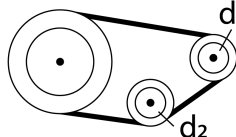
<b>Tooth</b>	profile		AT20		
	pitch		20 mm	0.79 in.	
<b>Hardness body material</b>	ISO 868		92A Shore		
<b>Belt thickness</b>			8 mm	0.31 in.	
<b>Belt weight</b>			9.7 kg/m <sup>2</sup>	1.99 lbs/ft <sup>2</sup>	
<b>Coefficient of friction</b>	tooth side to steel	dynamic	0,3		
<b>Operating temperature</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	111.75 mm	4.4 in.	
		d2	120 mm	4.72 in.	
	B) with counter flexing	number of teeth, t1	25		
		d1	156.32 mm	6.15 in.	
		d2	180 mm	7.09 in.	
<b>Belt width</b>	maximum		150 mm	5.91 in.	
<b>Belt length</b>	minimum		900 mm	35.43 in.	
	maximum		25000 mm	82.02 ft.	

## Reference images

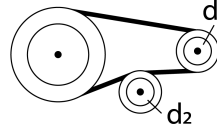
### Side view



### 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 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]
25	5600	2800		1375000
32	7200	3600		1875000
50	11700	5850		3000000
75	18000	9000		4625000
100	25200	12600		6125000
150.1	37000	18500		9250000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]	
0	15.14	0	
25	14.81	0.123	
50	14.41	0.24	
75	14.2	0.355	
100	13.87	0.462	
150	13.36	0.668	
200	12.94	0.863	
300	12.23	1.223	
400	11.59	1.545	
500	11.04	1.84	
750	9.94	2.485	
1000	9.08	3.027	
1250	8.37	3.488	
1500	7.78	3.89	
1750	7.21	4.206	
2000	6.82	4.547	
3000	5.42	5.42	
4000	4.39	5.853	

<b>Standard</b>	