Technical datasheet

PU Linear AT20 Steel NT

Article code: TBPU000077

General information

Productgroup	Timing belts, PU Linear
Industry segment	General industry; Wood; Building materials: Stone & ceramics, Bricks & tiles
Main product feature	Low friction tooth side, Low noise, Positive drive, Wear resistant

Belt construction

Tension member		steel
Material	**body**	Polyurethane
Surface	**tooth side**	Polyamide fabric
	back side	Polyurethane

Characteristics

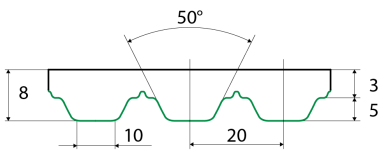
Food Grade (FG)	no
Antistatic (AS)	no
Oil & Fat resistance	yes

Technical data

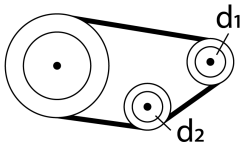
Tooth	profile		AT20			
	pitch		20	mm	0.79	in.
Hardness body material	ISO 868		92A	Shore		
Belt thickness	total		8	mm	0.31	in.
Belt weight			9.7	kg/m²	1.99	lbs/ft²
Coefficient of friction	tooth side to steel	dynamic	0,3			
Operating temperature	continuous	from / to	-10 / 80	°C	14 / 176	°F
Minimum pulley diameter	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.
Belt width	maximum		150	mm	5.91	in.
Endless length	minimum		1200	mm	47.24	in.
Manufacturing length	standard		100000	mm	328.08	ft.

Reference images

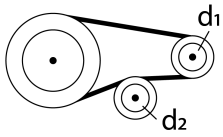
Side view



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 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	

Standard

Because of continuous development, the presented data is subject to alteration. This data replaces that included in previous publications. Ammeraal Beltech excludes any liability for the incorrect use of the above stated information. Subject to the general terms and conditions of sale and delivery, as applied by its operating companies, are all activities performed and services rendered by Ammeraal Beltech.