Technical datasheet

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PU Linear AT5 Steel NT

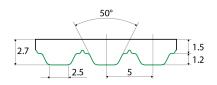
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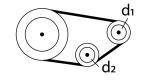
General information						
Productgroup	Timing belts, PL	J Linear				
Industry segment	General industr	y; Container & pa	ackaging; Paper & print			
Main product feature	Low friction too	th side, Low nois	e, Positive drive, Wear resistan	t		
Belt construction						
Tension member		steel				
Material	body	Polyurethane				
Surface	tooth side	Polyamide fa	bric			
	back side	Polyurethane				
Characteristics						
Food Grade (FG)	no					
Antistatic (AS)	no					
Oil & Fat resistance	yes					
Technical data						
Tooth	profile			AT5		
	pitch			5 mm	0.2	in.
Hardness body material	ISO 868			92A Shore		
Belt thickness	total			2.7 mm	0.11	in.
Belt weight				3.4 kg/m ²	0.7	lbs/ft ²
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					
	,	ter flexing	number of teeth, t1	15		
	.,	ter flexing	number of teeth, t1 d1	15 22.64 mm	0.89	in.
		ter flexing			0.89 1.18	
	B) with counter	-	d1	22.64 mm		
		-	d1 d2	22.64 mm 30 mm		in.
		-	d1 d2 number of teeth, t1	22.64 mm 30 mm 25	1.18	in.
Belt width		-	d1 d2 number of teeth, t1 d1	22.64 mm 30 mm 25 38.56 mm	1.18	in. in. in.
Belt width Endless length	B) with counter	-	d1 d2 number of teeth, t1 d1	22.64 mm 30 mm 25 38.56 mm 60 mm	1.18 1.52 2.36	in. in. in. in.

Reference images

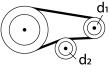
Side view



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]
10	560	280	140000
16	1100	550	280000
25	1700	850	437500
32	2220	1110	560000
50	3500	1750	875000
75	5250	2625	1312500
100.1	7000	3500	1750000

Speed rpm [1/min]	Specific tooth force [N/mm]	Specific power [W/mm]
0	3.64	0
25	3.572	0.007
50	3.501	0.015
75	3.468	0.022
100	3.424	0.029
150	3.34	0.042
200	3.292	0.055
300	3.192	0.08
400	3.089	0.103
500	2.995	0.125
750	2.807	0.175
1000	2.649	0.221
1250	2.522	0.263
1500	2.416	0.302
1750	2.326	0.339
2000	2.242	0.374
3000	1.985	0.496
4000	1.796	0.599

Standard

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