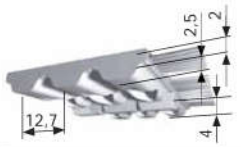
Standard



ATN12,7K6

Standard

ATN12,7K6 DC

	B	C_{min}	Belt widths b [mm]		
ATN12,7K6	25	12,7	50	75	100
ATN12,7K6 DC	25	12,7	50	75	100
Number of shapes for inset parts per tooth[1]			2	3	4

ATN12,7K6 / ATN12,7K6 DC (M/V)	Available lengths and versions
Standard delivery lengths (M)	rolls of 50 or 100 m
Cuts / lengths > 50 m	on request
Endless joined, minimum length (V)	880
Standard material	TPUST1
Steel cord tension member (standard)	x
VA tension member	o
PAZ (white)	x
PAR (green)	x
PAZ-PAR (white / green)	x

	Belt width [mm]		
	50	75	100
V-groove location	symmetrical	asymmetrical	asymmetrical

x available
o request minimum purchase amount
- not available

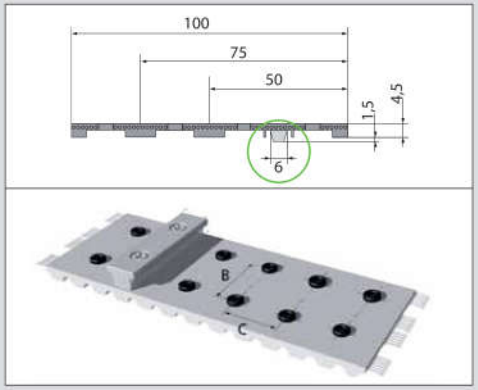
Available materials:

- *TPUST1: Standard material, steel cord tension members*
- *TPUFD1: Material is suitable for contact with food, FDA conform, with VA tension members*
- *TPUKF1: Material flexible at low temperatures, application area from -25°C to +5°C, with steel cord tension members*

Further materials on request. Depending on the material and/or version, a minimum purchase is required, please request

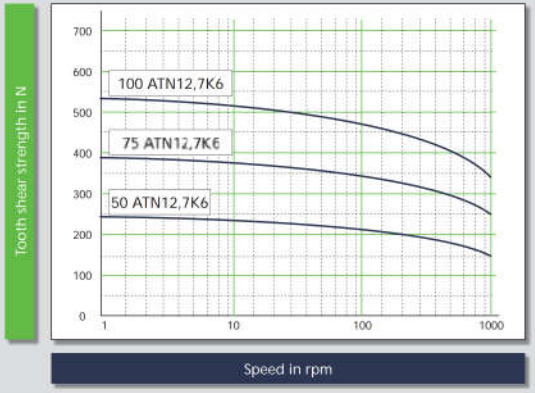
The location of the V-groove is only symmetrical in the 50 mm wide belt for technical production reasons. In the 75 and 100 mm wide belts it is located between the 1st and 2nd shape for the inset parts (see figure). Therefore, the location of the V-groove is to be considered when mounting the pulley and the flights.

The shapes for the inset parts are factory sealed with an approx. 0.2 mm thick TPU skin. Open these shapes to inset the profile fastenings. If you want the timing belt pierced, please inform your responsible distribution partner about the required spacing C when ordering. The shortest longitudinal spacing of the shapes in the belt tooth corresponds with pitch.



Technical data for the belt type / Belt width depend on the circumferential force load

ATN12,7 / ATN12,7 DC - Tooth shear strength F_{Uspec} per belt tooth in mesh in N



BRECO® ATN12,7K6 / ATN12,7K6 DC (M/V)			Tension cord strengths F_{Tadm} / Specific elasticities / Belt weights		
Belt width		b [mm]	50	75	100
M	Steel cord tension member	F_{Tadm} [N]	6000	9000	12000
	Specific elasticity (steel cord)	C_{spez} [N]	$1{,}5 \cdot 10^6$	$2{,}25 \cdot 10^6$	$3{,}0 \cdot 10^6$
	VA tension member	F_{Tadm} [N]	4300	6450	8600
	Specific elasticity (stainless steel)	C_{spez} [N]	$1{,}08 \cdot 10^6$	$1{,}61 \cdot 10^6$	$2{,}15 \cdot 10^6$
V	Steel cord tension member	F_{Tadm} [N]	2000	3000	4000
	VA tension member	F_{Tadm} [N]	2000	3000	4000
Belt weight[1]	ATN12,7K6	[kg/m]	0,226	0,340	0,453
	ATN12,7K6 DC	[kg/m]	0,286	0,430	0,573

BRECO® ATN12,7K6 / ATN12,7K6 DC (M/V)			Flexibility (minimum numbers of teeth / minimum diameter)	
			Steel cord	VA stainless steel cord
z_{min} / d_{min}	Without contra-flexure	z_{min}	20	20
		d_{min} [mm]	80	80

Circumferencial force F_U

The transmittable circumferential force F_U depends on the shear strength F_{Uspec} and the number of teeth in mesh z_e realised at the drive pulley, which should be $z_{emin} = 6$ at least.
Max. $z_{emax} = 6$ (welded belts) and $z_{emax} = 12$ (open length) are used for the calculation.

$$F_U = F_{Uspec} \cdot z_e$$

[1] The stated masses only refer to the extruded belt and are, for this reason, without inset parts, screws and profiles.