

ATN10



ATN10 DC

	B	C _{min}	Belt widths b [mm]			
ATN10	25	10	25	50	75	100
ATN10 DC	25	10	-	50	75	100
Number of shapes for inset parts per tooth ¹⁾			1	2	3	4

ATN10 / ATN10 DC (M/V)	Available lengths and versions
Standard delivery lengths (M)	rolls of 50 or 100 m
Cuts / lengths > 100 m	on request
Endless joined, minimum length (V)	880 mm
Standard material	TPUST1
Steel cord tension member (standard)	x
VA tension member	o
PAZ (white)	x
PAR (green)	x
PAZ-PAR (white / green)	x

- 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

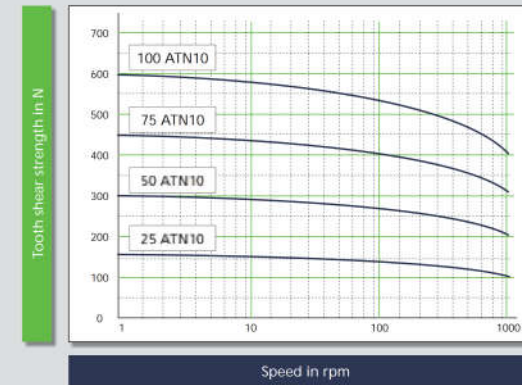
Further materials on request. Depending on the material and/or version, a minimum purchase is required, please request.

The 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

ATN10 / ATN10 DC - Tooth shear strength F_{Uspec} per belt tooth in mesh in N



BRECO® ATN10 / ATN10 DC (M/V)		Tension cord strengths F_{Tadm} / Specific elasticities / Belt weights					
Belt width		b [mm]	25	50	75	100	
M	Steel cord tension member	F_{Tadm} [N]	3000	6000	9000	12000	
	Specific elasticity (steel cord)	C_{spec} [N]	0,75 · 10 ⁶	1,5 · 10 ⁶	2,25 · 10 ⁶	3,0 · 10 ⁶	
	VA tension member	F_{Tadm} [N]	2150	4300	6450	8600	
	Specific elasticity (stainless steel)	C_{spec} [N]	0,54 · 10 ⁶	1,08 · 10 ⁶	1,61 · 10 ⁶	2,15 · 10 ⁶	
V	Steel cord tension member	F_{Tadm} [N]	1000	2000	3000	4000	
	VA tension member	F_{Tadm} [N]	1000	2000	3000	4000	
Belt weight ¹⁾							
		ATN10	[kg/m]	0,120	0,240	0,360	0,480
		ATN10 DC	[kg/m]	-	0,300	0,450	0,600

BRECO® ATN10 / ATN10 DC (M/V)		Flexibility (minimum numbers of teeth / minimum diameter)	
		Steel cord	VA stainless steel cord
	Without contra-flexure	z_{min}	25
		d_{min} [mm]	80

Circumferential 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.