



ATN20 / ATNS20

	B	C _{min}	Belt widths b [mm]		
ATN20	25	20	50	75	100
ATNS20	25	20	50	75	-
Number of shapes for inset parts per tooth ¹⁾			ATN20	3	4
			ATNS20	2	-

ATN20 / ATNS20 (M/V)	Available lengths and versions
Standard delivery lengths (M)	rolls of 50 m
Cuts / lengths > 50 m	on request
Endless joined, minimum length (V)	1000
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

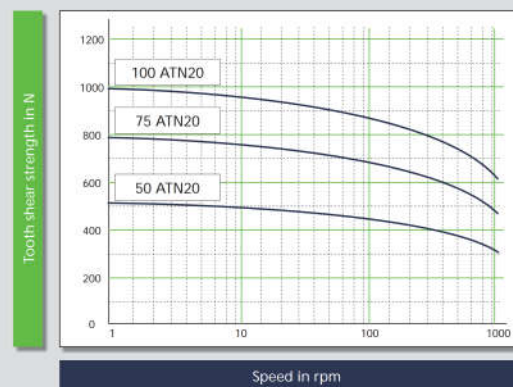
Further materials on request. Depending on the material and/or version, a minimum purchase is required, please request



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

ATN20 / ATNS20 - Tooth shear strength $F_{U\text{spec}}$ per belt tooth in mesh in N



BRECO® ATN20 / ATNS20 (M/V)		Tension cord strengths F_{Tadm} / Specific elasticities / Belt weights				
Belt width		b [mm]	50	75	100	
M	Steel cord tension member	ATN20	F_{Tadm} [N]	8000	12000	16000
	Specific elasticity (steel cord)		C_{spec} [N]	2,0·10 ⁶	3,0·10 ⁶	4,0·10 ⁶
	VA tension member		F_{Tadm} [N]	7300	10950	14600
	Specific elasticity (stainless steel)	ATNS20	C_{spec} [N]	1,83·10 ⁶	2,73·10 ⁶	3,65·10 ⁶
	Steel cord tension member		F_{Tadm} [N]	11200	19600	-
	VA tension member		C_{spec} [N]	2,8·10 ⁶	4,2·10 ⁶	-
V	Steel cord tension member	ATN20	F_{Tadm} [N]	2700	4000	5400
	VA tension member		F_{Tadm} [N]	2700	4000	5400
	Steel cord tension member	ATNS20	F_{Tadm} [N]	2700	4000	-
Belt weight ¹⁾		ATN20	[kg/m]	0,403	0,604	0,806
		ATNS20	[kg/m]	0,433	0,717	-

BRECO® ATN20 / ATNS20 (M/V)		Flexibility (minimum numbers of teeth / minimum diameter)			
		Steel cord	VA stainless steel cord		
	Without contra-flexure	ATN20	z_{min}	20	20
			d_{min} [mm]	125	120
	ATNS20	z_{min}	25	-	
		d_{min} [mm]	160	-	

Circumferential force F_U

The transmittable circumferential force F_U depends on the shear strength $F_{U\text{spec}}$ and the number of teeth in mesh z_e realised at the drive pulley, which should be $z_{\text{emin}} = 6$ at least.

Max. $z_{\text{emax}} = 6$ (welded belts) and $z_{\text{emax}} = 12$ (open length) are used for the calculation.

$$F_U = F_{U\text{spec}} \cdot z_e$$

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