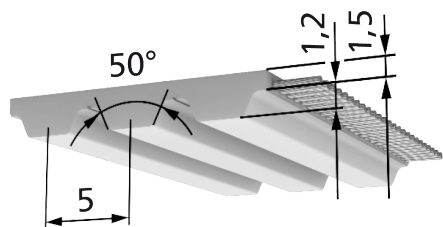


Standard



AT5

Belt widths b [mm] (In-between belt widths on request)

10	16	25	32	50	75	100
----	----	----	----	----	----	-----

Available length and versions	AT5	Comment
Standard lengths	rolls of 50 or 100 m	-
Cut to lengths / lengths > 100 m	on request	-
In-between belt widths / other widths	on request	-
minimum length endless joined (b ≤ 100 mm)	880 mm	-
minimum length endless joined (b > 100 mm)	not available	-
Standard material	TPUST1	further materials on request
Steel tension member	Standard	-
E tension member	available	Minimum purchase amount on request
Stainless steel tension member	available	Minimum purchase amount on request
PAZ	available	-
PAR	available	-
PAZ-PAR	available	-
DL / DL-PAZ	not available	-
DR / DR-PAZ	not available	-
T / T-PAZ	not available	-

Tooth shear strength (specific belt tooth load bearing)

R.p.m. n [min-1]	F_{tspez} [N/cm]	R.p.m. n [min-1]	F_{tspez} [N/cm]	R.p.m. n [min-1]	F_{tspez} [N/cm]	R.p.m. n [min-1]	F_{tspez} [N/cm]
0	42	800	31.964	2,000	26.05	5,000	19.284
20	41.521	900	31.271	2,200	25.377	5,500	18.55
40	41.069	1,000	30.633	2,400	24.755	6,000	17.877
60	40.641	1,100	30.04	2,600	24.177	6,500	17.255
80	40.234	1,200	29.488	2,800	23.637	7,000	16.677
100	39.846	1,300	28.971	3,000	23.13	7,500	16.138
200	38.142	1,400	28.484	3,200	22.654	8,000	15.631
300	36.733	1,500	28.025	3,400	22.203	8,500	15.154
400	35.531	1,600	27.59	3,600	21.776	9,000	14.704
500	34.483	1,700	27.177	3,800	21.37	9,500	14.277
600	33.554	1,800	26.784	4,000	20.983	10,000	13.871
700	32.721	1,900	26.409	4,500	20.089		

AT5			Admissible tensile force of the belt F_{adm} / belt weight						
belt width		b [mm]	10	16	25	32	50	75	100
M	E / Steel tension member	F_{Tadm} [N]	700	1,120	1,750	2,240	3,500	5,250	7,000
	Specific elasticity (E- / Steel tension member)	C_{spez} [N]	$0.175 \cdot 10^6$	$0.280 \cdot 10^6$	$0.440 \cdot 10^6$	$0.560 \cdot 10^6$	$0.875 \cdot 10^6$	$1.310 \cdot 10^6$	$1.750 \cdot 10^6$
	Stainless steel tension member	F_{Tadm} [N] F_{Tzul} [N]	450	720	1,125	1,440	2,250	3,375	4,500
	Specific elasticity (stainless steel tens. m.)	C_{spez} [N]	$0.175 \cdot 10^6$	$0.280 \cdot 10^6$	$0.440 \cdot 10^6$	$0.560 \cdot 10^6$	$0.875 \cdot 10^6$	$1.310 \cdot 10^6$	$1.750 \cdot 10^6$
V	E / Steel tension member	F_{Tadm} [N]	350	560	910	1,120	1,750	2,380	3,500
	Stainless steel tension member	T_{adm} [N]	225	360	565	720	1,125	1,690	2,250
Belt weight (Standard)		[kg/m]	0.033	0.052	0.082	0.105	0.164	0.245	0.327
Belt weight (DL)		[kg/m]	-	-	-	-	-	-	-
Belt weight (DR)		[kg/m]	-	-	-	-	-	-	-
Belt weight (T)		[kg/m]	-	-	-	-	-	-	-

AT5		Flexibility (Minimum number of teeth / minimum diameter)											
		Steel tension member				E / Steel tension member				Stainless steel tension member			
		Standard	DL	DR	T	Standard	DL	DR	T	Standard	DL	DR	T
	Minimum number of teeth without contraflexure (z_{min})	18	-	-	-	15	-	-	-	22	-	-	-
	Minimum diameter of tensioning roller without contraflexure (d_{min} [mm])	30	-	-	-	25	-	-	-	35	-	-	-
	Minimum number of teeth with contraflexure (z_{min})	25	-	-	-	20	-	-	-	30	-	-	-
	Minimum diameter of tensioning roller with contraflexure (d_{min} [mm])	60	-	-	-	50	-	-	-	60	-	-	-