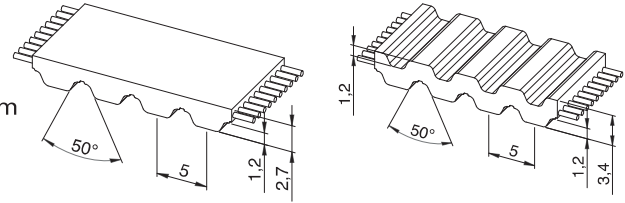


BELT CHARACTERISTICS

- Polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 5 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced drive vibration
- Particularly suitable for linear drives and light power transmission applications with high axial and angular positioning accuracy
- Double sided tooth available (on request for special cords)
- Negative length tolerance available on request



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
LENGTH TOLERANCE: $\pm 0,5$ [mm/m]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]		10	16	25	32	50	75	100	150
Allowable tensile load	F_{Tzul} [N]*	640	1120	1840	2400	3840	5840	7840	11840
Breaking load	F_{Br} [N]	2160	3780	6210	8100	12960	19710	26460	39960
Specific spring rate	C_{spez} [N]	160000	280000	460000	600000	960000	1460000	1960000	2960000
Weight	[kg/m]	0,03	0,05	0,09	0,11	0,17	0,26	0,34	0,57

Other widths are available on request

Specialties

Belt width b [mm]		10	16	25	32	50	75	100	150
ARAMID CORD	F_{Tzul} [N]*	880	1540	2530	3300	5280	8030	10780	16280
	F_{Br} [N]	3600	6300	10350	13500	21600	32850	44100	66600
STAINLESS STEEL	F_{Tzul} [N]*	600	1050	1725	2250	3600	5475	7350	-
	F_{Br} [N]	2400	4200	6900	9000	14400	21900	29400	-
HFE High Flexibility	F_{Tzul} [N]*	960	1680	2760	3600	5760	8760	11760	-
	F_{Br} [N]	3440	6020	9890	12900	20640	31390	42140	-

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	36,40	35,88	35,40	34,97	34,59	34,24	32,92	31,92	30,89	29,95	29,12	28,37	27,69	27,06	26,49	25,96

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	25,47	25,01	24,57	24,41	24,16	23,78	23,41	23,07	22,73	22,42	21,82	21,28	20,77	20,29	19,85	19,43

rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	19,03	18,66	18,30	17,96	17,18	16,47	15,83	15,24	14,69	14,18	13,71	13,26	12,85	12,45	12,07	11,72

Flexibility

Minimum pulley number of teeth and minimum idler diameter	Drive without reverse bending		Drive with reverse bending	
	z_{min}	idler d_{min}	z_{min}	idler d_{min}
STANDARD	15	30 mm	25	60 mm
ARAMID	15	30 mm	25	60 mm
STAINLESS	18	40 mm	25	65 mm
HFE	15	25 mm	20	50 mm

Elatech® V Joined informations

Allowable tensile load of joined belt is 50% of M - open end [*]