


STANDARD TOLERANCES

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

BELT CHARACTERISTICS

- Polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 3 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
- Negative length tolerance available on request

TECHNICAL DATA
Standard steel cord

Belt width b [mm]		8	10	12	16	20	25	50	100
Allowable tensile load	F_{Tzul} [N]*	260	320	416	540	700	900	1860	3780
Breaking load	F_{Br} [N]	1000	1250	1625	2125	2750	3500	7250	14750
Specific spring rate	C_{spez} [N]	65000	80000	104000	135000	175000	225000	465000	945000
Weight	[kg/m]	0,018	0,022	0,026	0,035	0,044	0,054	0,110	0,220

Other widths are available on request

Specialties

Belt width b [mm]		8	10	12	16	20	25	50	100
HFE High Flexibility	F_{Tzul} [N]*	290	360	470	610	790	1010	2090	4250
	F_{Br} [N]	1200	1500	1950	2550	3300	4200	8700	17700

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	32,50	32,13	31,79	31,48	31,19	30,92	29,86	29,15	28,47	27,66	26,92	26,25	25,62	25,05	24,52	24,02
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	23,56	23,13	22,72	22,57	22,34	21,97	21,63	21,29	20,98	20,68	20,11	19,59	19,1	18,64	18,22	17,81
rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	17,43	17,07	16,73	16,40	15,64	14,96	14,33	13,76	13,23	12,74	12,28	11,84	11,43	11,05	10,68	10,34

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	20 mm	20	20 mm
HFE	12	15 mm	15	18 mm

Elatech® V Joined informations

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