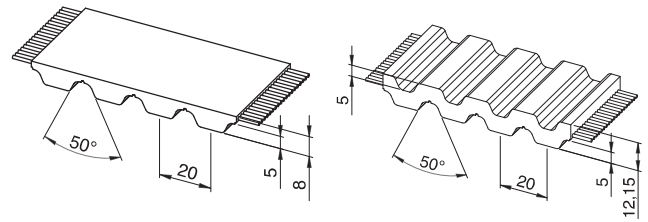


BELT CHARACTERISTICS

- Polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 20 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 heavy power transmission applications with high axial and angular positioning accuracy
- Double sided tooth available (on request for special cords)



STANDARD TOLERANCES

- WIDTH TOLERANCE: ±1,0 [mm]
 LENGTH TOLERANCE: ±0,5 [mm/m]
 THICKNESS TOLERANCE: ±0,4 [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]		25	32	50	75	100	150
Allowable tensile load	F_{Tzul} [N]*	5280	7200	11520	17280	23520	35520
Breaking load	F_{Br} [N]	19250	26250	42000	63000	85750	129500
Specific spring rate	C_{spez} [N]	1320000	1800000	2880000	4320000	5880000	8880000
Weight	[kg/m]	0,24	0,31	0,48	0,73	0,97	1,45

Other widths are available on request

Specialties

Belt width b [mm]		25	32	50	75	100
ARAMID CORD	F_{Tzul} [N]*	2420	3300	5280	7920	10780
	F_{Br} [N]	11000	15000	24000	36000	49000
STAINLESS STEEL	F_{Tzul} [N]*	3300	4500	7200	10800	14700
	F_{Br} [N]	15400	21000	33600	50400	68600
HFE High Flexibility	F_{Tzul} [N]*	5060	6900	11040	16560	22540
	F_{Br} [N]	21175	28875	46200	69300	94325

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	151,40	148,56	145,89	143,38	141,01	138,78	129,43	122,28	115,96	110,45	105,61	101,31	97,44	93,93	90,73	87,77
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	85,02	82,47	80,07	79,16	77,82	75,70	73,69	71,77	69,96	68,22	64,97	61,98	59,20	56,62	54,20	51,92
rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	49,77	47,74	45,80	43,96	39,72	35,90	32,42	29,23	26,29	-	-	-	-	-	-	-

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	18	120 mm	25	180 mm
ARAMID	18	120 mm	25	160 mm
STAINLESS	20	125 mm	30	200 mm
HFE	18	120 mm	25	150 mm

Elatech® V Joined informations
 Allowable tensile load of joined belt is 50% of M - open end [*]