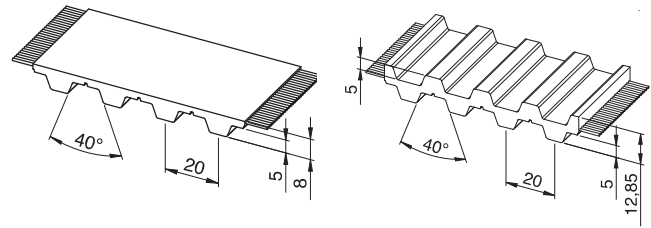


BELT CHARACTERISTICS

- Polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 20 mm
- Ideal for drives where high belt flexibility is requested
- Widely used for conveying, linear drive and heavy power transmission applications
- 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]*	4170	5390	8580	12990	17400	26220
Breaking load	F_{Br} [N]	16150	20900	33250	50350	67450	101650
Specific spring rate	C_{spez} [N]	1042500	1347500	2145000	3247500	4350000	6555000
Weight	[kg/m]	0,20	0,26	0,41	0,61	0,82	1,23

Other widths are available on request

Specialties

Belt width b [mm]		25	32	50	75	100	150
ARAMID CORD	F_{Tzul} [N]*	3740	4840	7700	11660	15620	23540
	F_{Br} [N]	17000	22000	35000	53000	71000	107000
STAINLESS STEEL	F_{Tzul} [N]*	3060	3960	6300	-	-	-
	F_{Br} [N]	12750	16500	26250	-	-	-
HFE High Flexibility	F_{Tzul} [N]*	3400	4400	7000	-	-	-
	F_{Br} [N]	14450	18700	29750	-	-	-

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	104,50	101,10	98,15	95,58	93,35	91,41	83,50	77,84	73,49	69,96	66,98	64,41	62,15	60,13	58,31	56,64
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	55,11	53,7	52,38	51,87	51,14	49,98	48,89	47,86	46,88	45,94	44,2	42,61	41,13	39,77	38,49	37,29
rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	36,16	35,10	34,09	33,13	30,92	28,93	27,14	25,49	23,97	-	-	-	-	-	-	-

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	120 mm	25	120 mm
ARAMID	15	120 mm	25	120 mm
STAINLESS	20	130 mm	30	150 mm
HFE	12	100 mm	22	120 mm

Elatech® V Joined informations

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