



BELT CHARACTERISTICS

- Polyurethane timing belt with involute tooth, high tensile load steel cords and high torque capacity
- Tooth profile according to ISO 13050
- Metric pitch 14 mm
- Low noise generation in high speed drives
- Tension cords with increased tensile load for lower elongation
- Superior performance in lifting applications
- The special profile allows smooth running properties

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]		40	55	85	115
Allowable tensile load	F_{Tzul} [N]*	12750	17850	28050	39100
Breaking load	F_{Br} [N]	48000	67200	105600	147200
Specific spring rate	C_{spez} [N]	3187500	4462500	7012500	9775000
Weight	[kg/m]	0,50	0,70	1,08	1,48

Other widths are available on request

Specialties

Belt width b [mm]		40	55	85	115
ARAMID CORD	F_{Tzul} [N]*	11250	15750	24750	34500
	F_{Br} [N]	45000	63000	99000	138000

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	134,00	131,31	128,83	126,53	124,42	122,46	114,77	109,29	104,19	99,65	95,64	92,04	88,80	85,85	83,14	80,63
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	78,31	76,14	74,11	73,33	72,19	70,38	68,67	67,04	65,49	64,01	61,23	58,68	56,30	54,09	52,01	50,06
rpm	3400	3600	3800	4000	-	-	-	-	-	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	48,22	46,48	44,82	43,24	-	-	-	-	-	-	-	-	-	-	-	-

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	32	140 mm	32	250 mm
ARAMID	28	120 mm	28	150 mm

Elatech® V Joined informations

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