



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
 LENGTH TOLERANCE: $\pm 0,5$ [mm/m]
 THICKNESS TOLERANCE: $\pm 0,4$ [mm]

BELT CHARACTERISTICS

- Polyurethane timing belt with round tooth profile and high tensile load tension cords.
- Tooth profile according to ISO 13050
- Metric pitch 14 mm
- The round tooth profile allows a uniform load distribution that guarantees high performances, high transmissible torque and precise tooth engagement
- PAZ fabric on tooth side delivered as standard reduces noise in the drive
- Widely used in linear positioning, heavy power transmission applications
- Double sided tooth available (on request for special cords)

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]	0,48	0,68	1,00	1,40

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
HPF High flexibility and performance	F_{Tzul} [N]	15000	21000	33000	46000
	F_{Br} [N]	60000	84000	132000	184000

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	140,00	137,31	134,83	132,53	130,42	128,46	119,77	114,29	109,19	104,65	100,64	97,04	93,80	90,85	88,14	85,63

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	83,31	81,14	79,11	78,33	77,19	75,38	73,67	72,04	70,49	69,01	66,23	63,68	61,30	59,09	57,01	55,06

rpm	3400	3600	3800	4000	-	-	-	-	-	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	53,22	51,48	49,82	48,24	-	-	-	-	-	-	-	-	-	-	-	-

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	200 mm
ARAMID	28	120 mm	28	150 mm
HPF	30	130 mm	30	180 mm

Elatech® V Joined informations

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