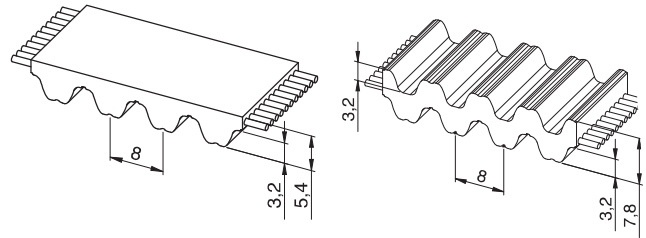


BELT CHARACTERISTICS

- Polyurethane timing belt with round tooth profile and high tensile load tension cords.
- Tooth profile according to ISO 13050
- Metric pitch 8 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, medium power transmission applications
- Double sided tooth available (on request for special cords)



STANDARD TOLERANCES

- WIDTH TOLERANCE: ±0,5 [mm]
- LENGTH TOLERANCE: ±0,5 [mm/m]
- THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]		10	15	20	30	50	85	100
Allowable tensile load	F_{Tzul} [N]*	1470	2210	3190	4660	8580	14700	17400
Breaking load	F_{Br} [N]	5700	8550	12350	18050	33250	57000	67450
Specific spring rate	C_{spez} [N]	367500	552500	797500	1165000	2145000	3675000	4350000
Weight	[kg/m]	0,07	0,10	0,14	0,20	0,35	0,60	0,75

Other widths are available on request

Specialties

Belt width b [mm]		10	15	20	30	50	85	100
ARAMID CORD	F_{Tzul} [N]*	1320	1980	2860	4180	7700	13200	15620
	F_{Br} [N]	6000	9000	13000	19000	35000	60000	71000
STAINLESS STEEL	F_{Tzul} [N]*	1080	1620	2340	3420	6300	10800	12780
	F_{Br} [N]	4500	6750	9750	14250	26250	45000	53250
HPL High Performance	F_{Tzul} [N]	-	-	5280	8160	14400	24480	29280
	F_{Br} [N]	-	-	19250	29750	52500	89250	106750

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	76,00	74,62	73,34	72,16	71,07	70,07	66,09	63,68	61,03	58,71	56,66	54,84	53,20	51,71	50,35	49,09

rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	47,93	46,84	45,82	45,43	44,86	43,96	43,10	42,29	41,52	40,78	39,39	38,12	36,94	35,83	34,80	33,83

rpm	3400	3600	3800	4000	4500	5000	5500	6000	-	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	32,91	32,05	31,22	30,44	28,63	27,00	25,51	24,15	-	-	-	-	-	-	-	-

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	50 mm	30	120 mm
ARAMID	18	50 mm	30	120 mm
STAINLESS	24	70 mm	40	120 mm
HPL	30	80 mm	30	150 mm

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