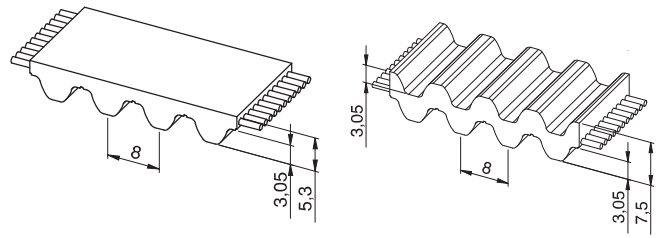


BELT CHARACTERISTICS

- Polyurethane timing belt with involute tooth, high tensile load steel cords and high torque capacity
- Tooth profile according to ISO 13050
- Metric pitch 8 mm
- Low noise generation in high speed drives
- Offers excellent operational reliability in linear positioning and medium power transmission applications
- Widely used in automatic doors
- The special profile allows smooth running properties
- 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	0,13	0,20	0,33	0,56	0,66

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]	74,10	73,05	72,06	71,13	70,26	69,43	65,98	62,11	59,43	57,08	55,02	53,18	51,53	50,03	48,66	47,39
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	46,22	45,12	44,10	43,70	43,13	42,22	41,36	40,54	39,76	39,02	37,62	36,34	35,15	34,04	33,00	32,02
rpm	3400	3600	3800	4000	4500	5000	5500	6000	-	-	-	-	-	-	-	-
F_{Uspez} [N/cm]	31,10	30,23	29,40	28,61	26,79	25,14	23,65	22,28	-	-	-	-	-	-	-	-

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 [*]