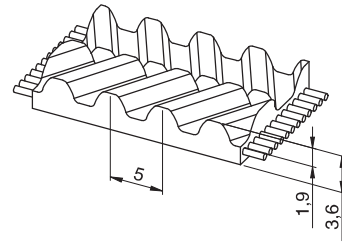


BELT CHARACTERISTICS

- Polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- **Self tracking no need of pulley flanges**
- Metric pitch 5 mm
- **Extremely reduced noise generation**
- Offers excellent operational reliability in linear positioning and medium power transmission applications
- The special profile allows most compact drive
- Black colour and black fabric on tooth side (PAZ) as standard



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]		12,5	25
Allowable tensile load	F_{Tzul} [N]*	1150	2530
Breaking load	F_{Br} [N]	4200	9240
Specific spring rate	C_{spez} [N]	287500	632500
Weight	[kg/m]	0,06	0,12

Other widths are available on request

Tooth shear strength

rpm	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
F_{Uspez} [N/cm]	37,80	37,25	36,75	36,30	35,89	35,52	34,13	32,87	32,10	31,31	30,56	29,86	29,21	28,61	28,05	27,52
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
F_{Uspez} [N/cm]	27,03	26,56	26,13	25,96	25,71	25,32	24,94	24,58	24,24	23,91	23,30	22,72	22,19	21,69	21,23	20,78
rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
F_{Uspez} [N/cm]	20,37	19,97	19,59	19,23	18,40	17,64	16,95	16,32	15,74	15,19	14,68	14,20	13,75	13,33	12,92	12,53

Flexibility

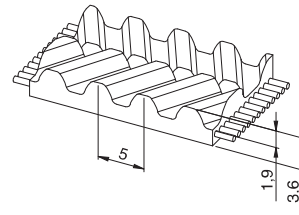
Minimum pulley number of teeth and minimum idler diameter	Drive without reverse bending		Drive with reverse bending	
	z_{min}	idler d_{min}	z_{min}	idler d_{min}
STANDARD	16	30 mm	25	60 mm

Elatech® V Joined informations

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

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- **Self tracking no need of pulley flanges**
- Metric pitch 5 mm
- **Extremely reduced noise generation**
- The special profile allows most compact drive



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,8$ [mm]
 THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

Belt width b [mm]	12,5	25
Allowable tensile load [N]	1380	2760
Weight [kg/m]	0,06	0,12

Other widths or special cords are available on request

Tooth shear strength

rpm [min ⁻¹]	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
M _{spez} [Ncm/cm]	3,008	2,964	2,924	2,888	2,856	2,826	2,716	2,616	2,555	2,492	2,432	2,376	2,325	2,277	2,232	2,190
P _{spez} [W/cm]	0,000	0,062	0,122	0,182	0,240	0,296	0,570	0,823	1,068	1,304	1,527	1,745	1,944	2,149	2,335	2,523
rpm [min ⁻¹]	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
M _{spez} [Ncm/cm]	2,151	2,114	2,079	2,066	2,046	2,015	1,985	1,956	1,929	1,903	1,854	1,808	1,766	1,726	1,689	1,654
P _{spez} [W/cm]	2,702	2,872	3,049	3,121	3,220	3,368	3,525	3,695	3,840	3,979	4,262	4,549	4,819	5,073	5,306	5,542
rpm [min ⁻¹]	3400	3600	3800	4000	4500	5000	5500	6000	6500	-	-	-	-	-	-	-
M _{spez} [Ncm/cm]	1,621	1,589	1,559	1,530	1,464	1,404	1,349	1,299	1,252	-	-	-	-	-	-	-
P _{spez} [W/cm]	5,768	5,994	6,208	6,409	6,880	7,330	7,775	8,168	8,508	-	-	-	-	-	-	-

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	16	30 mm	25	60 mm

Min. available length

Max width	Execution	
	Standard	PAZ
25 mm	≥ 900 mm	≥ 900 mm