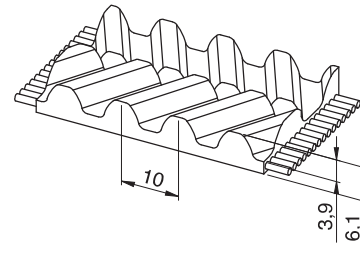


## BELT CHARACTERISTICS

- 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 10 mm
- **Extremely reduced noise generation**
- Offers excellent operational reliability in linear positioning and medium power transmission applications
- The special profile allows most compact drive
- White colour and grey fabric on tooth side (PAZ) as standard



### STANDARD TOLERANCES

- WIDTH TOLERANCE: ±0,8 [mm]
- LENGTH TOLERANCE: ±0,8 [mm/m]
- THICKNESS TOLERANCE: ±0,3 [mm]

## TECHNICAL DATA

### Standard steel cord

Belt width b [mm]		25	32	50	75	100
Allowable tensile load	$F_{Tzul}$ [N]*	6720	8640	14400	21120	28800
Breaking load	$F_{Br}$ [N]	24500	31500	52500	77000	105000
Specific spring rate	$C_{spez}$ [N]	1680000	2160000	3600000	5280000	7200000
Weight	[kg/m]	0,18	0,23	0,37	0,54	0,74

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]	93,50	92,03	90,63	89,28	88,00	86,77	81,36	77,02	73,54	70,76	68,43	66,33	64,43	62,70	61,11	59,63
rpm	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
$F_{Uspez}$ [N/cm]	58,27	56,99	55,79	55,33	54,66	53,59	52,58	51,62	50,70	49,83	48,19	46,67	45,27	43,96	42,73	41,57
rpm	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
$F_{Uspez}$ [N/cm]	40,48	39,45	38,46	37,53	35,37	33,42	31,65	30,02	28,51	27,12	25,81	24,59	23,43	22,34	21,31	20,33

### Flexibility

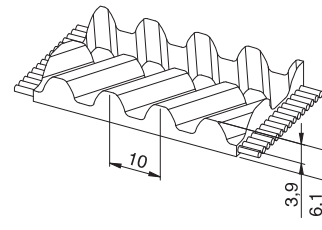
Minimum pulley number of teeth and minimum idler diameter	Drive without reverse bending		Drive with reverse bending	
	$z_{min}$	idler $d_{min}$	$z_{min}$	idler $d_{min}$
STANDARD	25	80 mm	25	150 mm

### 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 10 mm
- **Extremely reduced noise generation**
- The special profile allows most compact drive



### STANDARD TOLERANCES

WIDTH TOLERANCE:  $\pm 0,8$  [mm]  
 THICKNESS TOLERANCE:  $\pm 0,3$  [mm]

## TECHNICAL DATA

### Standard steel cord

Belt width b [mm]	25	32	50
Allowable tensile load [N]	5810	7920	12140
Weight [kg/m]	0,18	0,23	0,37

Other widths or special cords are available on request

### Tooth shear strength

rpm [min <sup>-1</sup> ]	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
M <sub>spez</sub> [Ncm/cm]	14,881	14,647	14,424	14,210	14,005	13,809	12,949	12,259	11,705	11,263	10,890	10,556	10,254	9,979	9,725	9,491
P <sub>spez</sub> [W/cm]	0,000	0,307	0,604	0,893	1,173	1,446	2,712	3,851	4,903	5,897	6,842	7,738	8,590	9,404	10,184	10,932
rpm [min <sup>-1</sup> ]	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
M <sub>spez</sub> [Ncm/cm]	9,273	9,070	8,879	8,806	8,699	8,530	8,369	8,215	8,070	7,930	7,669	7,428	7,205	6,996	6,800	6,616
P <sub>spez</sub> [W/cm]	11,653	12,347	13,017	13,278	13,664	14,290	14,897	15,485	16,055	16,608	17,667	18,668	19,615	20,512	21,363	22,170
rpm [min <sup>-1</sup> ]	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
M <sub>spez</sub> [Ncm/cm]	6,443	6,278	6,122	5,973	5,629	5,319	5,036	4,778	4,540	4,320	4,110	3,910	3,730	3,560	3,390	3,230
P <sub>spez</sub> [W/cm]	22,937	23,666	24,359	25,017	26,523	27,847	29,006	30,016	30,890	31,630	32,260	32,780	33,190	33,510	33,740	33,870

### Flexibility

Minimum pulley number of teeth and minimum idler diameter	Drive without reverse bending		Drive with reverse bending	
	z <sub>min</sub>	idler d <sub>min</sub>	z <sub>min</sub>	idler d <sub>min</sub>
STANDARD	25	80 mm	25	150 mm

### Min. available length

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