


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 10 mm
- Ideal for drives where high belt flexibility is required
- Allows the use of small diameter pulleys
- Transmissible power up to 30 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**

STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

Belt width b [mm]	10	16	25	32	50	75	100	150
Allowable tensile load [N]	1150	1840	2760	3570	5640	8400	11160	16790
Weight [kg/m]	0,05	0,07	0,12	0,15	0,23	0,35	0,46	0,69

Other widths are available on request

Specialties

Belt width b [mm]		10	16	25	32	50	75	100	150
ARAMID CORD	F_{Tzul} [N]	770	1210	1980	2530	3960	6050	8030	12100
STAINLESS STEEL	F_{Tzul} [N]	675	1125	1800	2325	3600	5475	7275	10950
HFE High Flexibility	F_{Tzul} [N]	1080	1800	2880	3720	5760	8670	11640	17520
HPL High Performance	F_{Tzul} [N]	1470	2695	4165	5390	8330	12740	16905	25480

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]	8,244	8,009	7,805	7,627	7,472	7,339	6,804	6,411	6,105	5,857	5,648	5,467	5,306	5,163	5,034	4,916
P_{spez} [W/cm]	0,000	0,168	0,327	0,479	0,626	0,768	1,425	2,014	2,557	3,066	3,549	4,007	4,445	4,866	5,271	5,663

rpm [min ⁻¹]	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
M_{spez} [Ncm/cm]	4,808	4,708	4,614	4,577	4,526	4,444	4,366	4,292	4,222	4,157	4,033	3,920	3,815	3,718	3,626	3,541
P_{spez} [W/cm]	6,042	6,409	6,764	6,902	7,109	7,445	7,771	8,090	8,401	8,706	9,291	9,851	10,386	10,901	11,389	11,866

rpm [min ⁻¹]	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
M_{spez} [Ncm/cm]	3,460	3,385	3,312	3,245	3,088	2,946	2,817	2,701	2,593	2,492	2,398	2,311	2,228	2,150	2,077	2,007
P_{spez} [W/cm]	12,318	12,761	13,179	13,592	14,549	15,424	16,224	16,969	17,646	18,269	18,836	19,359	19,832	20,264	20,661	21,015

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	12	60 mm	20	60 mm
ARAMID	15	60 mm	20	60 mm
STAINLESS	15	60 mm	25	70 mm
HFE	10	50 mm	15	50 mm
HPL	15	100 mm	30	100 mm

Min. available length

Max width	Execution	
	Standard	PAZ
100 mm	≥ 800 mm	≥ 900 mm
150 mm	≥ 1600 mm	≥ 1800 mm

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