



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with high tensile load steel cords and high torque capacity
- Tooth profile according to ISO 13050
- Metric pitch 5 mm
- Low noise generation in high speed drives
- Offer excellent operational reliability
- The special profile allows smooth running properties
- Transmissible power up to 6 kW

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]

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

TECHNICAL DATA

Standard steel cord

Belt width b [mm]	10	15	25	50	100	150
Allowable tensile load [N]	1150	1725	2760	5635	11155	16790
Weight [kg/m]	0,046	0,068	0,114	0,228	0,456	0,684

Other widths are available on request

Specialties

Belt width b [mm]		10	15	25	50	100	150
ARAMID CORD	F_{Tzul} [N]	770	1210	1980	3960	8030	12100
STAINLESS STEEL	F_{Tzul} [N]	675	1050	1800	3600	7275	10950
HFE High Flexibility	F_{Tzul} [N]	1080	1680	2880	5760	11640	17520

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]	2,936	2,892	2,853	2,817	2,784	2,755	2,645	2,497	2,435	2,372	2,313	2,257	2,205	2,157	2,113	2,071
P_{spez} [W/cm]	0,000	0,061	0,119	0,177	0,233	0,288	0,554	0,784	1,020	1,242	1,453	1,654	1,847	2,033	2,212	2,385

rpm [min ⁻¹]	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
M_{spez} [Ncm/cm]	2,031	1,995	1,960	1,946	1,927	1,895	1,865	1,837	1,810	1,784	1,734	1,689	1,647	1,607	1,570	1,535
P_{spez} [W/cm]	2,553	2,715	2,873	2,935	3,026	3,175	3,321	3,462	3,600	3,735	3,996	4,245	4,483	4,712	4,931	5,142

rpm [min ⁻¹]	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
M_{spez} [Ncm/cm]	1,501	1,470	1,440	1,411	1,345	1,285	1,230	1,180	1,133	1,090	1,049	1,011	0,975	0,941	0,909	0,878
P_{spez} [W/cm]	5,345	5,54	5,728	5,910	6,336	6,726	7,083	7,411	7,711	7,987	8,238	8,469	8,678	8,868	9,040	9,195

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
ARAMID	16	30 mm	25	60 mm
STAINLESS	18	40 mm	25	65 mm
HFE	15	25 mm	20	40 mm

Min. available length

Max width	Execution	
	Standard	PAZ
100 mm	≥ 800 mm	≥ 900 mm

Timing pulleys → page 188