


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 3 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 5 kW
- **Max. length 2400 mm**

STANDARD TOLERANCES

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

TECHNICAL DATA
Standard steel cord

Belt width b [mm]	8	10	12	16	20	25	32	50	75	100
Allowable tensile load [N]	225	290	350	480	610	770	990	1535	2305	3105
Weight [kg/m]	0,018	0,022	0,026	0,035	0,044	0,054	0,070	0,108	0,162	0,216

Other widths 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]	1,550	1,530	1,520	1,500	1,490	1,470	1,420	1,390	1,360	1,320	1,290	1,250	1,224	1,196	1,170	1,147
P _{spez} [W/cm]	0,000	0,032	0,064	0,094	0,125	0,154	0,298	0,437	0,571	0,693	0,809	0,919	1,025	1,127	1,226	1,321
rpm [min ⁻¹]	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
M _{spez} [Ncm/cm]	1,124	1,104	1,084	1,077	1,066	1,048	1,031	1,016	1,001	0,986	0,959	0,934	0,911	0,889	0,868	0,849
P _{spez} [W/cm]	1,413	1,502	1,589	1,623	1,674	1,756	1,836	1,914	1,991	2,065	2,209	2,347	2,479	2,606	2,728	2,845
rpm [min ⁻¹]	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
M _{spez} [Ncm/cm]	0,831	0,814	0,797	0,782	0,746	0,713	0,683	0,656	0,631	0,607	0,585	0,565	0,545	0,527	0,510	0,493
P _{spez} [W/cm]	2,958	3,068	3,173	3,274	3,513	3,733	3,935	4,122	4,293	4,452	4,597	4,732	4,855	4,967	5,070	5,164

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	15	20 mm	20	20 mm

Min. available length

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