


**BELT CHARACTERISTICS**

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to UNI/ISO 5296
- Imperial pitch 1/5" = 5,08 mm
- Allow to use small diameter pulley
- Transmissible power up to 5 kW

**STANDARD TOLERANCES**

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

**TECHNICAL DATA**
**Standard steel cord**

Belt width b [inch]/[mm]	0,25 / 6,35	0,37 / 9,53	0,50 / 12,7	0,75 / 19,1	1,00 / 25,4	1,50 / 38,1	2,00 / 50,8	4,00 / 101,6
Allowable tensile load [N]	224	352	480	704	960	1440	1920	3840
Weight [kg/m]	0,016	0,024	0,033	0,049	0,065	0,098	0,130	0,260

Other widths are available on request

**Specialties**

Belt width b [inch]/[mm]		0,25 / 6,35	0,31 / 7,94	0,37 / 9,53	0,50 / 12,7	0,75 / 19,1	1,00 / 25,4	1,50 / 38,1	2,00 / 50,8	4,00 / 101,6
<b>ARAMID CORD</b>	$F_{Tzul}$ [N]	490	770	980	1540	2030	3080	4130	8330	8400
<b>HFE High Flexibility</b>	$F_{Tzul}$ [N]	252	396	504	792	1044	1584	2124	4284	4320

**Tooth shear strength**

rpm [min <sup>-1</sup> ]	0	20	40	60	80	100	200	300	400	500	600	700	800	900	1000	1100
$M_{spez}$ [Ncm/cm]	2,029	1,978	1,932	1,894	1,860	1,830	1,717	1,635	1,570	1,518	1,473	1,434	1,400	1,370	1,342	1,317
$P_{spez}$ [W/cm]	0,000	0,041	0,081	0,119	0,156	0,192	0,360	0,514	0,658	0,795	0,926	1,051	1,173	1,291	1,405	1,517
rpm [min <sup>-1</sup> ]	1200	1300	1400	1440	1500	1600	1700	1800	1900	2000	2200	2400	2600	2800	3000	3200
$M_{spez}$ [Ncm/cm]	1,294	1,273	1,252	1,245	1,234	1,216	1,200	1,184	1,169	1,155	1,129	1,104	1,082	1,061	1,041	1,023
$P_{spez}$ [W/cm]	1,626	1,732	1,836	1,877	1,938	2,037	2,136	2,231	2,326	2,418	2,600	2,776	2,945	3,110	3,271	3,427
rpm [min <sup>-1</sup> ]	3400	3600	3800	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
$M_{spez}$ [Ncm/cm]	1,006	0,990	0,974	0,960	0,926	0,896	0,868	0,843	0,820	0,798	0,779	0,759	0,741	0,725	0,709	0,695
$P_{spez}$ [W/cm]	3,581	3,730	3,877	4,020	4,362	4,690	5,001	5,298	5,580	5,849	6,115	6,360	6,599	6,835	7,053	7,272

**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 $d_{min}$
<b>STANDARD</b>	10	30 mm	15	30 mm
<b>ARAMID</b>	10	30 mm	15	30 mm
<b>HFE</b>	10	30 mm	12	30 mm

**Min. available length**

Max width	Execution	
	Standard	PAZ
4"	≥ 800 mm	≥ 900 mm