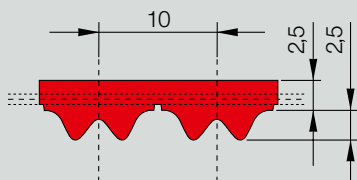


# ATP high performance Timing Belts

## ATP 10 GEN III



CONTI® SYNCHROFLEX Timing Belt (SFX) ATP 10 GEN III

High performance ATP profile with metric pitch and optimised meshing of the double engagement toothform.

### Standard version

- single-sided
- high performance polyurethane in red colour
- steel cord tension members with high density
- steel cord tension members in two-filament construction

Type / Length* GEN III	Number of teeth
ATP 10 / 630	63
ATP 10 / 660	66
ATP 10 / 700	70
ATP 10 / 780	78
ATP 10 / 840	84
ATP 10 / 890	89
ATP 10 / 920	92
ATP 10 / 1010	101
ATP 10 / 1080	108
ATP 10 / 1150	115

Type / Length* GEN III	Number of teeth
ATP 10 / 1280	128
ATP 10 / 1400	140
ATP 10 / 1650	165
ATP 10 / 1800	180

Preferred belt width\* in mm:  
16, 25, 32, 50, 75, 100, 150

\* Other dimensions upon request.

### Order example

CONTI® SYNCHROFLEX Timing Belt 32 ATP10/780 GEN III

Belt width in mm \_\_\_\_\_

Type/Pitch \_\_\_\_\_

Belt length in mm \_\_\_\_\_

Specification Generation III \_\_\_\_\_

# ATP 10 GEN III Technical data

## 1. Tooth shear strength (specific belt tooth strength)

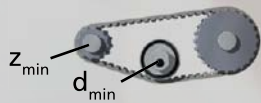

R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]	R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]
0	105,050	16,713	0,000	2000	57,636	9,170	19,205
20	103,508	16,468	0,345	2200	55,722	8,865	20,425
40	102,064	16,238	0,680	2400	53,957	8,584	21,575
60	100,706	16,023	1,007	2600	52,318	8,324	22,663
80	99,424	15,818	1,326	2800	50,790	8,081	23,694
100	98,210	15,626	1,637	3000	49,358	7,853	24,671
150	95,432	15,183	2,385	3200	48,010	7,638	25,597
200	92,956	14,790	3,098	3400	46,737	7,436	26,476
300	88,706	14,110	4,433	3600	45,532	7,245	27,310
400	85,093	13,538	5,671	3800	44,387	7,062	28,102
500	81,989	13,045	6,830	4000	43,297	6,888	28,855
600	79,257	12,609	7,923	4500	40,780	6,488	30,575
700	76,817	12,222	8,985	5000	38,513	6,127	32,084
800	74,614	11,871	9,945	5500	36,452	5,799	33,403
900	72,604	11,551	10,887	6000	34,561	5,499	34,549
1000	70,758	11,257	11,789	6500	32,815	5,221	35,538
1100	69,049	10,986	12,654	7000	31,194	4,963	36,380
1200	67,461	10,733	13,487	7500	29,679	4,722	37,087
1300	65,975	10,496	14,290	8000	28,260	4,496	37,666
1400	64,580	10,275	15,063	8500	26,923	4,283	38,128
1500	63,265	10,065	15,811	9000	25,661	4,082	38,477
1600	62,022	9,868	16,534	9500	24,464	3,892	38,721
1700	60,844	9,680	17,234	10000	23,328	3,711	38,865
1800	59,723	9,502	17,911				
1900	58,655	9,332	18,568				

Rotational speeds over 10000 rpm and/or belt speeds over 60 m/s need special drive designs. Please ask our advice.

## 2. Tension member strength (permitted tensile force of the belt F<sub>zul</sub>), Belt weight

Belt width	b	[mm]	16	25	32	50	75	100	150
Tension member strength F <sub>zul</sub>		[N]	3000	5000	6750	10750	16500	22000	33500
Belt weight	ATP 10 GEN III	[kg/m]	0,109	0,170	0,218	0,340	0,510	0,680	1,020

## 3. Flexibility (Minimum numbers of teeth, minimum diameter)

Timing pulley	Z <sub>min</sub>	15		Drive type without contraflexure
Tension roller (smooth), running on teeth	d <sub>min</sub> [mm]	50		
Timing pulley	Z <sub>min</sub>	25		Drive type with contraflexure
Tension roller (smooth), running on the back of the belt	d <sub>min</sub> [mm]	120		