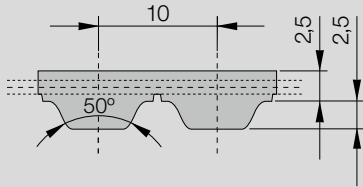


# AT high performance Timing Belts

## AT 10



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 10

High performance AT profile with metric pitch and trapezoidal teeth.

The technical data refer to standard polyurethane and standard steel cord tension members.

**Available versions:**

- single-sided
- with "E" tension member for a better flexibility
- with reinforced design
- with Aramide tension member
- polyurethane special materials upon request
- antistatic, coloured, mechanical reworked

**FN:** with profiles on the back of the belt

Type / Length*	Number of teeth	Type / Length*	Number of teeth
AT 10 / 440	44	AT 10 / 1150	115
AT 10 / 460	46	AT 10 / 1200	120
AT 10 / 500	50	AT 10 / 1210	121
AT 10 / 560	56	AT 10 / 1250	125
AT 10 / 570	57	AT 10 / 1280	128
AT 10 / 580	58	AT 10 / 1300	130
AT 10 / 600	60	AT 10 / 1320	132
AT 10 / 610	61	AT 10 / 1350	135
AT 10 / 660	66	AT 10 / 1360	136
AT 10 / 700	70	AT 10 / 1360 FN2	136
AT 10 / 730	73	AT 10 / 1400	140
AT 10 / 780	78	AT 10 / 1480	148
AT 10 / 800	80	AT 10 / 1500	150
AT 10 / 840	84	AT 10 / 1600	160
AT 10 / 840 FN2	84	AT 10 / 1700	170
AT 10 / 880	88	AT 10 / 1720	172
AT 10 / 890	89	AT 10 / 1800	180
AT 10 / 920	92	AT 10 / 1860	186
AT 10 / 960	96	AT 10 / 1940	194
AT 10 / 980	98	AT 10 / 2910 FN2	291
AT 10 / 1000	100		
AT 10 / 1010	101		
AT 10 / 1050	105		
AT 10 / 1080	108		
AT 10 / 1100	110		

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

\* Other dimensions upon request.

**Order example**

CONTI® SYNCHROFLEX Timing Belt 32 AT10/800

Belt width in mm \_\_\_\_\_  
 Type/Pitch \_\_\_\_\_  
 Belt length in mm \_\_\_\_\_

# AT 10 Technical data

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

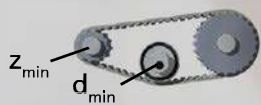

R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]	R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]
0	80,79	12,86	0,00	2000	44,36	7,06	14,78
20	79,66	12,68	0,27	2200	42,89	6,83	15,72
40	78,55	12,50	0,52	2400	41,53	6,61	16,61
60	77,51	12,34	0,78	2600	40,27	6,41	17,45
80	76,52	12,18	1,02	2800	39,09	6,22	18,24
100	75,59	12,03	1,26	3000	37,99	6,05	18,99
200	71,54	11,39	2,38	3200	36,95	5,88	19,71
300	68,26	10,86	3,41	3400	35,97	5,72	20,38
400	65,49	10,42	4,37	3600	35,04	5,58	21,02
500	63,10	10,04	5,26	3800	34,16	5,44	21,63
600	61,00	9,71	6,10	4000	33,32	5,30	22,21
700	59,12	9,41	6,90	4500	31,39	5,00	23,54
800	57,43	9,14	7,66	5000	29,64	4,72	24,70
900	55,88	8,89	8,38	5500	28,05	4,47	25,71
1000	54,46	8,67	9,08	6000	26,60	4,23	26,60
1100	53,14	8,46	9,74	6500	25,26	4,02	27,36
1200	51,92	8,26	10,38	7000	24,01	3,82	28,01
1300	50,78	8,08	11,00	7500	22,84	3,64	28,55
1400	49,70	7,91	11,60	8000	21,75	3,46	29,00
1500	48,69	7,75	12,17	8500	20,72	3,30	29,35
1600	47,73	7,60	12,73	9000	19,75	3,14	29,62
1700	46,83	7,45	13,27	9500	18,83	3,00	29,81
1800	45,97	7,32	13,79	10000	17,95	2,86	29,92
1900	45,14	7,18	14,29				

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]	2000	3500	4750	7750	12000	16000	24500
Belt weight	AT 10	[kg/m]	0,101	0,158	0,202	0,315	0,473	0,630	0,945

## 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		