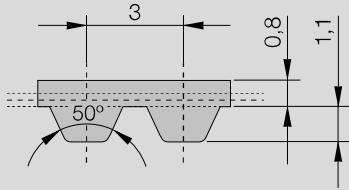


# AT high performance Timing Belts

## AT 3



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 3

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 reinforced design
- with Aramide tension member
- polyurethane special materials upon request
- antistatic, coloured, mechanical reworked

**FA:** with bigger back thickness

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

Type	/ Length*	Number of teeth
AT 3	/ 150	50
AT 3	/ 201	67
AT 3	/ 201 FN68	67
AT 3	/ 252	84
AT 3	/ 267	89
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AT 3	/ 270	90
AT 3	/ 300	100
AT 3	/ 351	117
AT 3	/ 399	133
AT 3	/ 417	139
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AT 3	/ 450	150
AT 3	/ 486 FN18	162
AT 3	/ 501	167
AT 3	/ 549	183
AT 3	/ 600	200
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AT 3	/ 639	213
AT 3	/ 648	216
AT 3	/ 648 FN24	216
AT 3	/ 714	238

Type	/ Length*	Number of teeth
AT 3	/ 816	272
AT 3	/ 816 FA	272
AT 3	/ 900	300
AT 3	/ 1011	337

**Preferred belt width\* in mm:**  
6, 10, 16, 25, 32

\* Other dimensions upon request.

**Order example**

CONTI® SYNCHROFLEX Timing Belt 10 AT3/450

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

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

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

## AT 3 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]
0	35,55	1,70	0,00
20	35,20	1,68	0,04
40	34,85	1,66	0,07
60	34,51	1,65	0,10
80	34,19	1,63	0,14
100	33,88	1,62	0,17
200	32,53	1,55	0,33
300	31,41	1,50	0,47
400	30,45	1,45	0,61
500	29,61	1,41	0,74
600	28,86	1,38	0,87
700	28,18	1,35	0,99
800	27,57	1,32	1,10
900	27,01	1,29	1,22
1000	26,49	1,26	1,32
1100	26,01	1,24	1,43
1200	25,56	1,22	1,53
1300	25,14	1,20	1,63
1400	24,75	1,18	1,73
1500	24,37	1,16	1,83
1600	24,02	1,15	1,92
1700	23,68	1,13	2,01
1800	23,36	1,12	2,10
1900	23,06	1,10	2,19
2000	22,77	1,09	2,28
2200	22,22	1,06	2,44
2400	21,71	1,04	2,60
2600	21,24	1,01	2,76
2800	20,79	0,99	2,91
3000	20,38	0,97	3,06
3200	19,99	0,95	3,20
3400	19,62	0,94	3,34
3600	19,27	0,92	3,47
3800	18,94	0,90	3,60



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]
4000	18,62	0,89	3,72
4500	17,89	0,85	4,03
5000	17,23	0,82	4,31
5500	16,63	0,79	4,57
6000	16,08	0,77	4,82
6500	15,57	0,74	5,06
7000	15,10	0,72	5,28
7500	14,65	0,70	5,49
8000	14,24	0,68	5,69
8500	13,85	0,66	5,88
9000	13,48	0,64	6,06
9500	13,13	0,63	6,23
10000	12,79	0,61	6,40
10500	12,48	0,60	6,55
11000	12,17	0,58	6,69
11500	11,88	0,57	6,83
12000	11,60	0,55	6,96
12500	11,34	0,54	7,09
13000	11,08	0,53	7,20
13500	10,83	0,52	7,31
14000	10,60	0,51	7,42
14500	10,36	0,49	7,51
15000	10,14	0,48	7,61
15500	9,93	0,47	7,69
16000	9,72	0,46	7,77
16500	9,51	0,45	7,85
17000	9,32	0,44	7,92
17500	9,13	0,44	7,99
18000	8,94	0,43	8,05
18500	8,76	0,42	8,10
19000	8,58	0,41	8,15
19500	8,41	0,40	8,20
20000	8,25	0,39	8,24

Rotational speeds over 20000 rpm and/or belt speeds over 80 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]	6	10	16	25	32
Tension member strength F <sub>zul</sub>		[N]	190	380	646	1102	1406
Belt weight	AT 3	[kg/m]	0,014	0,023	0,037	0,058	0,074

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

Timing pulley Tension roller (smooth), running on teeth	z <sub>min</sub>	15		Drive type without contraflexure
	d <sub>min</sub> [mm]	20		
Timing pulley Tension roller (smooth), running on the back of the belt	z <sub>min</sub>	20		Drive type with contraflexure
	d <sub>min</sub> [mm]	20		