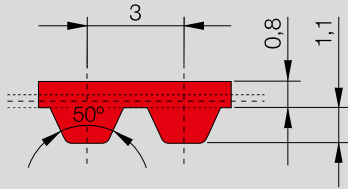


AT high performance Timing Belts

AT 3 GEN III



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 3 GEN III

High performance AT profile with metric pitch and trapezoidal teeth.

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
- steel cord tension members in highly flexible construction

FA: with bigger back thickness

FN: with profiles on the back of the belt

Type / Length* GEN III	Number of teeth	Type / Length* GEN III	Number of teeth
AT 3 / 150	50	AT 3 / 816	272
AT 3 / 201	67	AT 3 / 816 FA	272
AT 3 / 201 FN68	67	AT 3 / 900	300
AT 3 / 252	84	AT 3 / 1011	337
AT 3 / 267	89		
AT 3 / 270	90		
AT 3 / 300	100		
AT 3 / 351	117		
AT 3 / 399	133		
AT 3 / 417	139		
AT 3 / 450	150		
AT 3 / 486 FN18	162		
AT 3 / 501	167		
AT 3 / 549	183		
AT 3 / 600	200		
AT 3 / 639	213		
AT 3 / 648	216		
AT 3 / 648 FN24	216		
AT 3 / 714	238		

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

* Other dimensions upon request.

Order example

CONTI® SYNCHROFLEX Timing Belt 10 AT3/450 GEN III

Belt width in mm _____

Type/Pitch _____

Belt length in mm _____

Specification Generation III _____

AT 3 GEN III Technical data

1. Tooth shear strength (specific belt tooth strength)

R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]
0	44,44	2,12	0,00
20	44,00	2,10	0,04
40	43,56	2,08	0,09
60	43,14	2,06	0,13
80	42,74	2,04	0,17
100	42,35	2,02	0,21
200	40,67	1,94	0,41
300	39,26	1,87	0,59
400	38,06	1,82	0,76
500	37,01	1,77	0,93
600	36,07	1,72	1,08
700	35,23	1,68	1,23
800	34,47	1,65	1,38
900	33,76	1,61	1,52
1000	33,12	1,58	1,66
1100	32,52	1,55	1,79
1200	31,96	1,53	1,92
1300	31,43	1,50	2,04
1400	30,94	1,48	2,17
1500	30,47	1,45	2,28
1600	30,03	1,43	2,40
1700	29,61	1,41	2,52
1800	29,20	1,39	2,63
1900	28,82	1,38	2,74
2000	28,46	1,36	2,85
2200	27,77	1,33	3,05
2400	27,14	1,30	3,26
2600	26,54	1,27	3,45
2800	25,99	1,24	3,64
3000	25,48	1,22	3,82
3200	24,99	1,19	4,00
3400	24,53	1,17	4,17
3600	24,09	1,15	4,34
3800	23,68	1,13	4,50

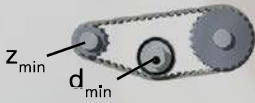

R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]
4000	23,28	1,11	4,66
4500	22,36	1,07	5,03
5000	21,54	1,03	5,38
5500	20,79	0,99	5,72
6000	20,10	0,96	6,03
6500	19,46	0,93	6,32
7000	18,87	0,90	6,60
7500	18,32	0,87	6,87
8000	17,80	0,85	7,12
8500	17,31	0,83	7,36
9000	16,85	0,80	7,58
9500	16,41	0,78	7,79
10000	15,99	0,76	8,00
10500	15,59	0,74	8,19
11000	15,22	0,73	8,37
11500	14,85	0,71	8,54
12000	14,51	0,69	8,70
12500	14,17	0,68	8,86
13000	13,85	0,66	9,00
13500	13,54	0,65	9,14
14000	13,24	0,63	9,27
14500	12,96	0,62	9,39
15000	12,68	0,61	9,51
15500	12,41	0,59	9,62
16000	12,15	0,58	9,72
16500	11,89	0,57	9,81
17000	11,65	0,56	9,90
17500	11,41	0,54	9,98
18000	11,18	0,53	10,06
18500	10,95	0,52	10,13
19000	10,73	0,51	10,19
19500	10,52	0,50	10,25
20000	10,31	0,49	10,31

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_{zul}), Belt weight

Belt width	b	[mm]	6	10	16	25	32
Tension member strength F _{zul}		[N]	330	599	1002	1608	2079
Belt weight	AT 3 GEN III	[kg/m]	0,016	0,026	0,042	0,065	0,083

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

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