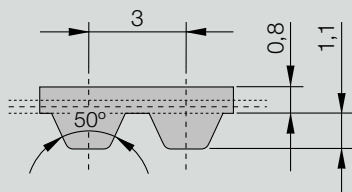


AT high performance Timing Belts

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	Type / Length*	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

Belt width in mm _____

Type/Pitch _____

Belt length in mm _____

AT 3 Technical data

1. Tooth shear strength (specific belt tooth strength)

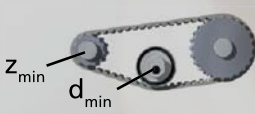
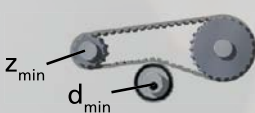
R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]	R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]
0	32,34	1,544	0,000	2200	20,20	0,964	2,222
20	32,00	1,528	0,032	2400	19,73	0,942	2,367
40	31,68	1,513	0,063	2500	19,52	0,932	2,440
60	31,37	1,498	0,094	2600	19,31	0,922	2,510
80	31,08	1,484	0,124	2800	18,90	0,902	2,646
100	30,80	1,471	0,154	2880	18,75	0,895	2,700
150	30,16	1,440	0,226	3000	18,53	0,885	2,779
200	29,58	1,412	0,296	3200	18,17	0,868	2,907
300	28,55	1,363	0,428	3400	17,84	0,852	3,033
400	27,68	1,322	0,554	3600	17,52	0,837	3,153
500	26,91	1,285	0,673	3800	17,22	0,822	3,272
600	26,23	1,252	0,787	4000	16,93	0,808	3,386
700	25,62	1,223	0,897	4500	16,27	0,777	3,660
730	25,45	1,215	0,929	5000	15,67	0,748	3,917
800	25,07	1,197	1,003	5500	15,12	0,722	4,158
900	24,56	1,173	1,105	6000	14,62	0,698	4,386
1000	24,09	1,150	1,204	6500	14,15	0,676	4,598
1100	23,65	1,129	1,301	7000	13,72	0,655	4,802
1200	23,24	1,110	1,394	7500	13,32	0,636	4,995
1300	22,86	1,091	1,486	8000	12,94	0,618	5,176
1400	22,50	1,074	1,575	8500	12,59	0,601	5,350
1460	22,29	1,064	1,627	9000	12,25	0,585	5,512
1500	22,16	1,058	1,662	9500	11,93	0,570	5,666
1600	21,84	1,043	1,747	10000	11,63	0,555	5,815
1700	21,53	1,028	1,830	12000	10,55	0,504	6,330
1800	21,24	1,014	1,911	15000	9,22	0,440	6,914
1900	20,96	1,001	1,991	18000	8,13	0,388	7,316
2000	20,70	0,988	2,070	20000	7,50	0,358	7,499

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]	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	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		