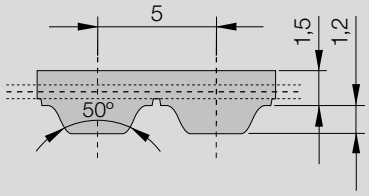
AT high performance Timing Belts

AT 5



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 5

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

Type / Length*	Number of teeth
AT 5 / 225	45
AT 5 / 255	51
AT 5 / 260	52
AT 5 / 280	56
AT 5 / 300	60
AT 5 / 330	66
AT 5 / 340	68
AT 5 / 375	75
AT 5 / 390	78
AT 5 / 420	84
AT 5 / 450	90
AT 5 / 455	91
AT 5 / 480	96
AT 5 / 490	98
AT 5 / 500	100
AT 5 / 525	105
AT 5 / 545	109
AT 5 / 600	120
AT 5 / 610	122
AT 5 / 620	124
AT 5 / 630	126
AT 5 / 660	132
AT 5 / 670	134
AT 5 / 690	138
AT 5 / 710	142

Type / Length*	Number of teeth
AT 5 / 720	144
AT 5 / 750	150
AT 5 / 780	156
AT 5 / 825	165
AT 5 / 860	172
AT 5 / 875	175
AT 5 / 900	180
AT 5 / 920	184
AT 5 / 975	195
AT 5 / 1050	210
AT 5 / 1125	225
AT 5 / 1230	246
AT 5 / 1500	300
AT 5 / 1750	350
AT 5 / 2000	400
AT 5 / 3800 FA**	760

Preferred belt width* in mm:
10, 16, 25, 32, 50

* Other dimensions upon request.
** Please request technical support from your Mulco sales partner.

Order example

CONTI® SYNCHROFLEX Timing Belt 10 AT5/450

Belt width in mm
Type/Pitch
Belt length in mm

AT 5 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	38,79	3,09	0,00	2000	24,06	1,91	4,01
20	38,37	3,05	0,06	2200	23,43	1,86	4,30
40	37,95	3,02	0,13	2400	22,86	1,82	4,57
60	37,55	2,99	0,19	2600	22,32	1,78	4,84
80	37,17	2,96	0,25	2800	21,83	1,74	5,09
100	36,82	2,93	0,31	3000	21,36	1,70	5,34
200	35,24	2,80	0,59	3200	20,92	1,66	5,58
300	33,94	2,70	0,85	3400	20,50	1,63	5,81
400	32,83	2,61	1,09	3600	20,10	1,60	6,03
500	31,86	2,54	1,33	3800	19,73	1,57	6,25
600	31,00	2,47	1,55	4000	19,37	1,54	6,46
700	30,23	2,41	1,76	4500	18,54	1,48	6,95
800	29,53	2,35	1,97	5000	17,80	1,42	7,42
900	28,89	2,30	2,17	5500	17,12	1,36	7,85
1000	28,29	2,25	2,36	6000	16,50	1,31	8,25
1100	27,75	2,21	2,54	6500	15,92	1,27	8,62
1200	27,24	2,17	2,72	7000	15,39	1,22	8,98
1300	26,76	2,13	2,90	7500	14,89	1,18	9,31
1400	26,31	2,09	3,07	8000	14,42	1,15	9,61
1500	25,88	2,06	3,24	8500	13,98	1,11	9,90
1600	25,48	2,03	3,40	9000	13,56	1,08	10,17
1700	25,10	2,00	3,56	9500	13,17	1,05	10,42
1800	24,74	1,97	3,71	10000	12,79	1,02	10,66
1900	24,39	1,94	3,86				

Rotational speeds over 10000 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	50	75	100
Tension member strength	F_{zul}	[N]	350	700	1260	2030	2660	4200	6370	8610
Belt weight	AT 5	[kg/m]	0,020	0,034	0,054	0,085	0,109	0,170	0,255	0,340

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]	25	
Timing pulley	z_{min}	20	Drive type with contraflexure
Tension roller (smooth), running on the back of the belt	d_{min} [mm]	60	