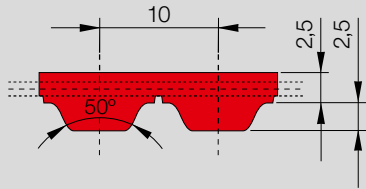


AT high performance Timing Belts

AT 10 GEN III



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 10 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

FN: with profiles on the back of the belt

Type / Length* GEN III	Number of teeth	Type / Length* GEN III	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 / 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, 150

* Other dimensions upon request.

Order example

CONTI® SYNCHROFLEX Timing Belt 32 AT10/800 GEN III

Belt width in mm _____

Type/Pitch _____

Belt length in mm _____

Specification Generation III _____

AT 10 GEN III Technical data

1. Tooth shear strength (specific belt tooth strength)

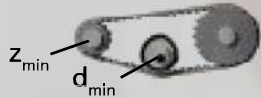

R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]	R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]
0	100,99	16,07	0,00	2000	55,45	8,82	18,48
20	99,58	15,85	0,33	2200	53,61	8,53	19,65
40	98,19	15,63	0,65	2400	51,91	8,26	20,76
60	96,88	15,42	0,97	2600	50,33	8,01	21,81
80	95,65	15,22	1,28	2800	48,86	7,78	22,80
100	94,48	15,04	1,57	3000	47,48	7,56	23,74
200	89,43	14,23	2,98	3200	46,19	7,35	24,63
300	85,32	13,58	4,27	3400	44,96	7,16	25,48
400	81,86	13,03	5,46	3600	43,80	6,97	26,28
500	78,88	12,55	6,57	3800	42,70	6,80	27,04
600	76,25	12,14	7,62	4000	41,65	6,63	27,77
700	73,90	11,76	8,62	4500	39,23	6,24	29,42
800	71,78	11,42	9,57	5000	37,05	5,90	30,87
900	69,85	11,12	10,48	5500	35,07	5,58	32,14
1000	68,07	10,83	11,34	6000	33,25	5,29	33,25
1100	66,43	10,57	12,18	6500	31,57	5,02	34,20
1200	64,90	10,33	12,98	7000	30,01	4,78	35,01
1300	63,47	10,10	13,75	7500	28,55	4,54	35,69
1400	62,13	9,89	14,50	8000	27,19	4,33	36,25
1500	60,86	9,69	15,21	8500	25,90	4,12	36,69
1600	59,67	9,50	15,91	9000	24,69	3,93	37,03
1700	58,53	9,32	16,58	9500	23,54	3,75	37,26
1800	57,46	9,14	17,24	10000	22,44	3,57	37,40
1900	56,43	8,98	17,87				

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_{zul}), Belt weight

Belt width	b	[mm]	16	25	32	50	75	100	150
Tension member strength F _{zul}		[N]	3000	5000	6750	10750	16500	22000	33500
Belt weight	AT 10 GEN III	[kg/m]	0,117	0,183	0,234	0,365	0,548	0,730	1,095

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]	50		
Timing pulley	z _{min}	25		Drive type with contraflexure
Tension roller (smooth), running on the back of the belt	d _{min} [mm]	120		