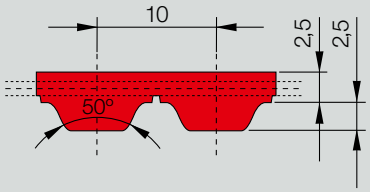
AT high performance Timing Belts

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
AT 10 / 440	44
AT 10 / 460	46
AT 10 / 500	50
AT 10 / 560	56
AT 10 / 570	57
AT 10 / 580	58
AT 10 / 600	60
AT 10 / 610	61
AT 10 / 660	66
AT 10 / 700	70
AT 10 / 730	73
AT 10 / 780	78
AT 10 / 800	80
AT 10 / 840	84
AT 10 / 840 FN2	84
AT 10 / 880	88
AT 10 / 890	89
AT 10 / 920	92
AT 10 / 960	96
AT 10 / 980	98
AT 10 / 1000	100
AT 10 / 1010	101
AT 10 / 1050	105
AT 10 / 1080	108
AT 10 / 1100	110

Type / Length* GEN III	Number of teeth
AT 10 / 1150	115
AT 10 / 1200	120
AT 10 / 1210	121
AT 10 / 1250	125
AT 10 / 1280	128
AT 10 / 1300	130
AT 10 / 1320	132
AT 10 / 1350	135
AT 10 / 1360	136
AT 10 / 1360 FN2	136
AT 10 / 1400	140
AT 10 / 1480	148
AT 10 / 1500	150
AT 10 / 1600	160
AT 10 / 1700	170
AT 10 / 1720	172
AT 10 / 1800	180
AT 10 / 1860	186
AT 10 / 1940	194
AT 10 / 2910 FN2	291

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	91,88	14,63	0,00	2000	50,38	8,03	16,80
20	90,50	14,41	0,30	2200	48,75	7,75	17,88
40	89,25	14,21	0,60	2400	47,25	7,51	18,88
60	88,13	14,01	0,88	2600	45,75	7,29	19,83
80	87,00	13,84	1,16	2800	44,38	7,08	20,73
100	85,88	13,68	1,43	3000	43,13	6,88	21,59
200	81,25	12,94	2,71	3200	42,00	6,69	22,40
300	77,63	12,35	3,88	3400	40,88	6,50	23,16
400	74,38	11,85	4,96	3600	39,88	6,34	23,89
500	71,75	11,41	5,98	3800	38,88	6,18	24,59
600	69,38	11,04	6,94	4000	37,88	6,03	25,25
700	67,13	10,69	7,84	4500	35,63	5,68	26,75
800	65,25	10,39	8,70	5000	33,63	5,36	28,13
900	63,50	10,10	9,53	5500	31,88	5,08	29,25
1000	61,88	9,85	10,31	6000	30,25	4,81	30,25
1100	60,38	9,61	11,08	6500	28,75	4,56	31,13
1200	59,00	9,39	11,80	7000	27,25	4,34	31,88
1300	57,75	9,19	12,50	7500	26,00	4,13	32,50
1400	56,50	8,99	13,18	8000	24,71	3,94	33,00
1500	55,38	8,80	13,84	8500	23,55	3,75	33,38
1600	54,25	8,64	14,46	9000	22,44	3,58	33,63
1700	53,25	8,48	15,08	9500	21,40	3,40	33,88
1800	52,25	8,31	15,68	10000	20,40	3,25	34,00
1900	51,25	8,16	16,25				

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	