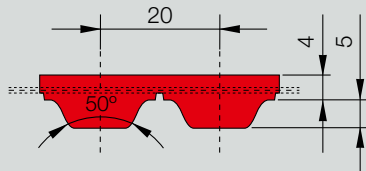


# AT high performance Timing Belts

## AT 20 GEN III



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 20 GEN III

High performance AT profile with metric pitches 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

Type / Length* GEN III	Number of teeth	Type / Length* GEN III	Number of teeth
AT 20 / 1000**	50	AT 20 / 1960**	98
AT 20 / 1100	55		
AT 20 / 1200**	60		
AT 20 / 1260	63		
AT 20 / 1500**	75		
AT 20 / 1600**	80		
AT 20 / 1700	85		
AT 20 / 1760**	88		
AT 20 / 1800	90		
AT 20 / 1900**	95		

Preferred belt width\* in mm:  
32, 50, 75, 100

\* Other dimensions upon request.  
\*\* In combination with reduced pulley gap  
please ask for technical support from  
your Mulco sales partner.

**Order example**

CONTI® SYNCHROFLEX Timing Belt 32 AT20/1000 GEN III

Belt width in mm \_\_\_\_\_

Type/Pitch \_\_\_\_\_

Belt length in mm \_\_\_\_\_

Specification Generation III \_\_\_\_\_

# AT 20 GEN III Technical data

## 1. Tooth shear strength (specific belt tooth strength)

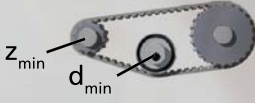
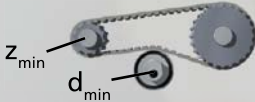
R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]	R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]
0	183,750	58,489	0,000	2000	83,380	26,541	55,587
20	180,310	57,395	1,202	2200	79,444	25,288	58,259
40	177,108	56,375	2,361	2400	75,816	24,133	60,653
60	174,112	55,422	3,482	2600	72,451	23,062	62,791
80	171,298	54,526	4,568	2800	69,314	22,063	64,693
100	168,645	53,682	5,622	3000	66,375	21,128	66,375
150	162,609	51,760	8,130	3200	63,612	20,248	67,852
200	157,268	50,060	10,485	3400	61,003	19,418	69,137
300	148,138	47,154	14,814	3600	58,534	18,632	70,241
400	140,512	44,726	18,735	3800	56,189	17,886	71,173
500	133,963	42,642	22,327	4000	53,957	17,175	71,943
600	128,226	40,816	25,645	4500	48,806	15,535	73,209
700	123,120	39,190	28,728	5000	44,170	14,060	73,617
800	118,521	37,726	31,606	5500	39,955	12,718	73,251
900	114,336	36,394	34,301	6000	36,091	11,488	72,183
1000	110,498	35,173	36,833	6500	32,525	10,353	70,470
1100	106,953	34,044	39,216				
1200	103,660	32,996	41,464				
1300	100,585	32,017	43,587				
1400	97,701	31,099	45,594				
1500	94,986	30,235	47,493				
1600	92,421	29,419	49,291				
1700	89,990	28,645	50,995				
1800	87,681	27,910	52,608				
1900	85,481	27,209	54,138				

Rotational speeds over 6500 rpm and/or belt speeds over 40 m/s need special drive designs. Please ask for our advice.

## 2. Tension member strength (permitted tensile force of the belt F<sub>zul</sub>), Belt weight

Belt width	b	[mm]	25	32	50	75	100	150
Tension member strength F <sub>zul</sub>		[N]	6300	8550	13950	21600	28800	44100
Belt weight	AT 20 GEN III	[kg/m]	0,290	0,371	0,583	0,87	1,16	1,74

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

Timing pulley	Z <sub>min</sub>	18		Drive type without contraflexure
Tension roller (smooth), running on teeth	d <sub>min</sub> [mm]	120		
Timing pulley	Z <sub>min</sub>	25		Drive type with contraflexure
Tension roller (smooth), running on the back of the belt	d <sub>min</sub> [mm]	180		