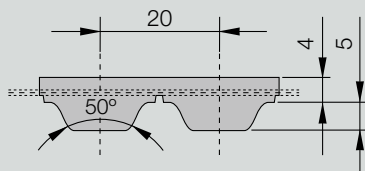


# AT high performance Timing Belts

## AT 20



CONTI® SYNCHROFLEX Timing Belt (SFX) AT 20

High performance AT profile with metric pitches and trapezoidal teeth.

The technical data refer to standard polyurethane and standard steel cord tension members.

**Available versions:**

- single-sided
- polyurethane special materials upon request
- antistatic, coloured, mechanical reworked

Type / Length*	Number of teeth	Type / Length*	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 **50 AT20/1500**

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

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

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

# AT 20 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]
0	147,0	46,80	0,000
20	144,2	45,90	0,962
40	141,7	45,10	1,889
60	139,3	44,30	2,790
80	137,0	43,60	3,650
100	134,9	42,90	4,500
200	125,8	40,00	8,390
300	118,5	37,70	11,850
400	112,4	35,80	14,990
500	107,2	34,10	17,860
600	102,6	32,70	20,500
700	98,5	31,40	23,000
800	94,8	30,20	25,300
900	91,5	29,10	27,400
1000	88,4	28,10	29,500
1100	85,6	27,20	31,400
1200	82,9	26,40	33,200
1300	80,5	25,60	34,900
1400	78,2	24,90	36,500
1500	76,0	24,20	38,000
1600	73,9	23,50	39,400
1700	72,0	22,90	40,800
1800	70,1	22,30	42,100
1900	68,4	21,80	43,300

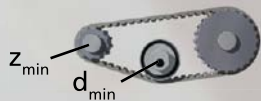

R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]
2000	66,7	21,20	44,500
2200	63,6	20,20	46,600
2400	60,7	19,31	48,500
2600	58,0	18,45	50,200
2800	55,5	17,65	51,800
3000	53,1	16,90	53,100
3200	50,9	16,20	54,300
3400	48,8	15,53	55,300
3600	46,8	14,91	56,200
3800	45,0	14,31	56,900
4000	43,2	13,74	57,600
4500	39,0	12,43	58,600
5000	35,3	11,25	58,800
5500	32,0	10,17	60,600
6000	28,9	9,19	61,700
6500	26,0	8,28	62,400

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]	32	50	75	100	150
Tension member strength F <sub>zul</sub>		[N]	6750	11250	17550	23850	36450
Belt weight	AT 20	[kg/m]	0,339	0,530	0,795	1,060	1,590

## 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		