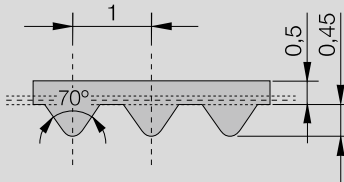
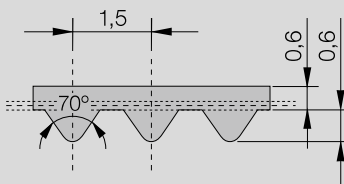


# Serrated Profile Timing Belts

## K 1 / K 1,5



CONTI® SYNCHROFLEX Timing Belt (SFX) K 1



CONTI® SYNCHROFLEX Timing Belt (SFX) K 1,5

Serrated metric pitch profile.

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

**Available versions:**

- single-sided
- with Aramide tension member
- polyurethane special materials upon request
- antistatic, coloured, mechanical reworked

Type / Length*	Number of teeth	Type / Length*	Number of teeth
K 1 / 279,0	279	K 1,5 / 400,5	267
K 1 / 348,0	348	K 1,5 / 501,0	334
K 1,5 / 57,0**	38	K 1,5 / 600,0	400
K 1,5 / 64,5**	43	K 1,5 / 1242,5	828
K 1,5 / 67,5**	45	K 1,5 / 1671,5	1114
K 1,5 / 100,5	67		
K 1,5 / 141,0	94		
K 1,5 / 165,0	110		
K 1,5 / 201,0	134		
K 1,5 / 228,0	152		
K 1,5 / 286,0	191		
K 1,5 / 300,0	200		

Preferred belt width\* in mm:  
4, 6, 10

\* Other dimensions upon request.  
\*\* In casting polyurethane 93 ShA, red colour.

**Order example**

CONTI® SYNCHROFLEX Timing Belt 6 K1,5/100,5

Belt width in mm \_\_\_\_\_  
 Type/Pitch \_\_\_\_\_  
 Belt length in mm \_\_\_\_\_

# K / K1,5 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	6,45	0,154	0,000
20	6,23	0,149	0,003
40	6,06	0,145	0,006
60	5,91	0,141	0,009
80	5,79	0,138	0,012
100	5,68	0,136	0,014
150	5,46	0,130	0,020
200	5,28	0,126	0,026
300	5,00	0,119	0,037
400	4,80	0,115	0,048
500	4,63	0,111	0,058
600	4,49	0,107	0,067
700	4,37	0,104	0,076
730	4,33	0,103	0,079
800	4,26	0,102	0,085
900	4,17	0,100	0,094
1000	4,08	0,097	0,102
1100	4,00	0,095	0,110
1200	3,93	0,094	0,118
1300	3,87	0,092	0,126
1400	3,81	0,091	0,133
1460	3,77	0,090	0,138
1500	3,75	0,090	0,141
1600	3,69	0,088	0,148
1700	3,64	0,087	0,155
1800	3,60	0,086	0,162
1900	3,55	0,085	0,169
2000	3,51	0,084	0,175
2200	3,43	0,082	0,189
2400	3,35	0,080	0,201



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]
2500	3,32	0,079	0,207
2600	3,29	0,079	0,214
2800	3,22	0,077	0,225
2880	3,20	0,076	0,230
3000	3,17	0,076	0,238
3200	3,11	0,074	0,249
3400	3,06	0,073	0,260
3600	3,01	0,072	0,271
3800	2,96	0,071	0,281
4000	2,92	0,070	0,292
4500	2,82	0,067	0,317
5000	2,73	0,065	0,341
5500	2,65	0,063	0,364
6000	2,57	0,061	0,385
6500	2,51	0,060	0,408
7000	2,44	0,058	0,427
7500	2,38	0,057	0,446
8000	2,33	0,056	0,466
8500	2,27	0,054	0,482
9000	2,22	0,053	0,499
9500	2,18	0,052	0,518
10000	2,13	0,051	0,532
12000	1,98	0,047	0,594
15000	1,78	0,042	0,667
18000	1,63	0,039	0,733
20000	1,54	0,037	0,770

Rotational speeds over 20000 rpm and/or belt speeds over 80 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]	4	6	10	16	25	32
Tension member strength F <sub>zul</sub>		[N]	39	65	117	195	312	403
Belt weight	K 1	[kg/m]	0,0044	0,007	0,011	0,018	0,028	0,035
	K 1,5	[kg/m]	0,004	0,006	0,010	0,016	0,025	0,032

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

Timing pulley	z <sub>min</sub>	14		Drive type without contraflexure
Tension roller (smooth), running on teeth	d <sub>min</sub> [mm]	15		
Timing pulley	z <sub>min</sub>	20		Drive type with contraflexure
Tension roller (smooth), running on the back of the belt	d <sub>min</sub> [mm]	15		