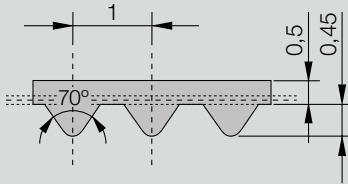
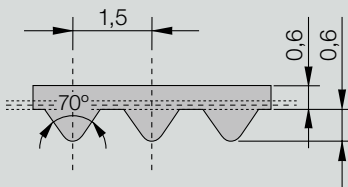


# Serrated Profile Timing Belts

## 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)

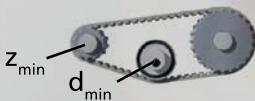

R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]	R.p.m. n [min <sup>-1</sup> ]	F <sub>Uspec</sub> [N/cm]	M <sub>spec</sub> [Ncm/cm]	P <sub>spec</sub> [W/cm]
0	6,45	0,154	0,000	2500	3,32	0,079	0,207
20	6,23	0,149	0,003	2600	3,29	0,079	0,214
40	6,06	0,145	0,006	2800	3,22	0,077	0,225
60	5,91	0,141	0,009	2880	3,20	0,076	0,230
80	5,79	0,138	0,012	3000	3,17	0,076	0,238
100	5,68	0,136	0,014	3200	3,11	0,074	0,249
150	5,46	0,130	0,020	3400	3,06	0,073	0,260
200	5,28	0,126	0,026	3600	3,01	0,072	0,271
300	5,00	0,119	0,037	3800	2,96	0,071	0,281
400	4,80	0,115	0,048	4000	2,92	0,070	0,292
500	4,63	0,111	0,058	4500	2,82	0,067	0,317
600	4,49	0,107	0,067	5000	2,73	0,065	0,341
700	4,37	0,104	0,076	5500	2,65	0,063	0,364
730	4,33	0,103	0,079	6000	2,57	0,061	0,385
800	4,26	0,102	0,085	6500	2,51	0,060	0,408
900	4,17	0,100	0,094	7000	2,44	0,058	0,427
1000	4,08	0,097	0,102	7500	2,38	0,057	0,446
1100	4,00	0,095	0,110	8000	2,33	0,056	0,466
1200	3,93	0,094	0,118	8500	2,27	0,054	0,482
1300	3,87	0,092	0,126	9000	2,22	0,053	0,499
1400	3,81	0,091	0,133	9500	2,18	0,052	0,518
1460	3,77	0,090	0,138	10000	2,13	0,051	0,532
1500	3,75	0,090	0,141	12000	1,98	0,047	0,594
1600	3,69	0,088	0,148	15000	1,78	0,042	0,667
1700	3,64	0,087	0,155	18000	1,63	0,039	0,733
1800	3,60	0,086	0,162	20000	1,54	0,037	0,770
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				

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		