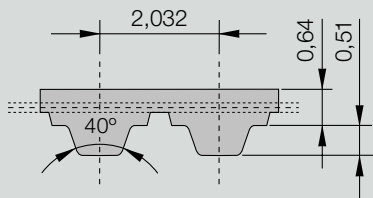


Imperial Timing Belts

M (MXL)



CONTI® SYNCHROFLEX Timing Belt (SFX) M (MXL)

Standard trapezoidal teeth according to DIN/ISO 5296 with Minipitch (2.032 mm = 0.08 Inch).

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

FA: with bigger back thickness

FN: with profiles on the back of the belt

Type / Length*	Number of teeth	Type / Length*	Number of teeth
M 111 / 111,76	55	M 264 / 264,16	130
M 113 / 113,79	56	M 284 / 284,48	140
M 121 / 121,92	60	M 304 / 304,80	150
M 121 / 121,92 FA	60	M 355 / 355,60	175
M 132 / 132,08	65	M 373 / 373,89	184
M 142 / 142,24	70	M 449 / 449,07	221
M 144 / 144,27	71	M 503 / 503,94	248
M 162 / 162,56	80	M 508 / 508,00 FN	250
M 182 / 182,88	90	M 520 / 520,19	256
M 197 / 197,10	97	M 599 / 599,44	295
M 203 / 203,20	100	M 731 / 731,52	360
M 209 / 209,30	103	M1178 / 1178,56	580
M 213 / 213,36	105		
M 243 / 243,86	120		
M 256 / 256,03	126		

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

* Other dimensions upon request.

Order example

CONTI® SYNCHROFLEX Timing Belt 6 M / 182

Belt width in mm _____
 Type/Pitch _____
 Belt length in mm _____

M (MXL) Technical data

1. Tooth shear strength (specific belt tooth strength)

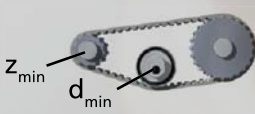
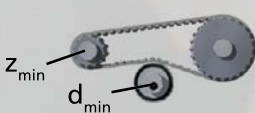
R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]	R.p.m. n [min ⁻¹]	F _{Uspec} [N/cm]	M _{spec} [Ncm/cm]	P _{spec} [W/cm]
0	6,58	0,209	0,000	2500	3,39	0,108	0,282
20	6,36	0,202	0,004	2600	3,35	0,107	0,290
40	6,18	0,197	0,008	2800	3,29	0,105	0,307
60	6,03	0,192	0,012	2880	3,26	0,104	0,313
80	5,90	0,188	0,016	3000	3,23	0,103	0,323
100	5,79	0,184	0,019	3200	3,17	0,101	0,338
150	5,56	0,177	0,028	3400	3,12	0,099	0,354
200	5,38	0,171	0,036	3600	3,07	0,098	0,368
300	5,10	0,162	0,051	3800	3,02	0,096	0,383
400	4,89	0,156	0,065	4000	2,98	0,095	0,397
500	4,72	0,150	0,079	4500	2,88	0,092	0,432
600	4,58	0,146	0,092	5000	2,78	0,088	0,463
700	4,45	0,142	0,104	5500	2,70	0,086	0,495
730	4,42	0,141	0,108	6000	2,63	0,084	0,526
800	4,35	0,138	0,116	6500	2,56	0,081	0,555
900	4,25	0,135	0,127	7000	2,49	0,079	0,581
1000	4,16	0,132	0,139	7500	2,43	0,077	0,607
1100	4,08	0,130	0,150	8000	2,37	0,075	0,632
1200	4,01	0,128	0,160	8500	2,32	0,074	0,657
1300	3,94	0,125	0,171	9000	2,27	0,072	0,681
1400	3,88	0,124	0,181	9500	2,22	0,071	0,703
1460	3,85	0,123	0,187	10000	2,18	0,069	0,727
1500	3,82	0,122	0,191	12000	2,02	0,064	0,808
1600	3,77	0,120	0,201	15000	1,82	0,058	0,910
1700	3,72	0,118	0,211	18000	1,66	0,053	0,996
1800	3,67	0,117	0,220	20000	1,57	0,050	1,047
1900	3,62	0,115	0,229				
2000	3,58	0,114	0,239				
2200	3,50	0,111	0,257				
2400	3,42	0,109	0,274				

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_{zul}), Belt weight

Belt width b	[mm]	4	6	10	16	25	32
Tension member strength F _{zul}	[N]	39	65	117	195	312	403
Belt weight M	[kg/m]	0,005	0,007	0,012	0,019	0,030	0,038

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

Timing pulley	Z _{min}	10		Drive type without contraflexure
Tension roller (smooth), running on teeth	d _{min} [mm]	15		
Timing pulley	Z _{min}	18		Drive type with contraflexure
Tension roller (smooth), running on the back of the belt	d _{min} [mm]	15		