

3.2 ZRM/ZRP timing belt range

optibelt ZRM timing belts, metric sizes

	Order example for ZRM: 10 T2.5/200				
	Width	(mm)			
	Section				
	Pitch length	(mm)			
Construction: polyurethane with steel tension cord					
Section	Pitch t (mm)	Tooth depth h _t (mm)	Overall belt thickness h _s (mm)	Tooth width s (mm)	Tooth angle 2 β (°)
T2.5	2.5	0.70	1.30	1.50	40
T5	5.0	1.20	2.20	2.65	40
T10	10.0	2.50	4.50	5.30	40

Table 3.2: ZRM timing belt range

Section T2.5 – pitch 2.5 mm			Section T5 – pitch 5 mm						Section T10 – pitch 10 mm		
Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R	Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R	Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R	Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R
T2.5/120	120.0	48	T5/165	165.0	33	T5/ 550	550.0	110	T10/ 260	260.0	26
T2.5/160	160.0	64	T5/185	185.0	37	T5/ 560	560.0	112	T10/ 370	370.0	37
T2.5/177.5	177.5	71	T5/200	200.0	40	T5/ 575	575.0	115	T10/ 400	400.0	40
T2.5/200	200.0	80	T5/215	215.0	43	T5/ 590*	590.0	118	T10/ 410	410.0	41
T2.5/230	230.0	92	T5/220	220.0	44	T5/ 600	600.0	120	T10/ 440	440.0	44
T2.5/245	245.0	98	T5/225	225.0	45	T5/ 610	610.0	122	T10/ 450	450.0	45
T2.5/265	265.0	106	T5/245	245.0	49	T5/ 620	620.0	124	T10/ 500	500.0	50
T2.5/285	285.0	114	T5/250	250.0	50	T5/ 625*	625.0	125	T10/ 530	530.0	53
T2.5/305	305.0	122	T5/255	255.0	51	T5/ 630	630.0	126	T10/ 550*	550.0	55
T2.5/317.5	317.5	127	T5/260	260.0	52	T5/ 640	640.0	128	T10/ 560	560.0	56
T2.5/330	330.0	132	T5/270	270.0	54	T5/ 650	650.0	130	T10/ 600	600.0	60
T2.5/380	380.0	152	T5/275	275.0	55	T5/ 660	660.0	132	T10/ 610	610.0	61
T2.5/420	420.0	168	T5/280	280.0	56	T5/ 675*	675.0	135	T10/ 630	630.0	63
T2.5/480	480.0	192	T5/295	295.0	59	T5/ 690	690.0	138	T10/ 650	650.0	65
T2.5/500	500.0	200	T5/300	300.0	60	T5/ 700	700.0	140	T10/ 660	660.0	66
T2.5/540	540.0	216	T5/305	305.0	61	T5/ 720	720.0	144	T10/ 690	690.0	69
T2.5/600	600.0	240	T5/325	325.0	65	T5/ 725	725.0	145	T10/ 700	700.0	70
T2.5/650	650.0	260	T5/330	330.0	66	T5/ 750	750.0	150	T10/ 720	720.0	72
T2.5/780	780.0	312	T5/340	340.0	68	T5/ 780	780.0	156	T10/ 750	750.0	75
T2.5/915	915.0	366	T5/350	350.0	70	T5/ 800*	800.0	160	T10/ 780	780.0	78
T2.5/950	950.0	380	T5/355	355.0	71	T5/ 815	815.0	163	T10/ 800*	800.0	80
			T5/360*	360.0	72	T5/ 840	840.0	168	T10/ 810	810.0	81
			T5/365	365.0	73	T5/ 850	850.0	170	T10/ 840	840.0	84
			T5/375	375.0	75	T5/ 860*	860.0	172	T10/ 850*	850.0	85
			T5/390	390.0	78	T5/ 900	900.0	180	T10/ 880	880.0	88
			T5/400	400.0	80	T5/ 940	940.0	188	T10/ 890	890.0	89
			T5/410	410.0	82	T5/ 990	990.0	198	T10/ 900	900.0	90
			T5/420	420.0	84	T5/1000	1000.0	200	T10/ 910	910.0	91
			T5/425	425.0	85	T5/1075	1075.0	215	T10/ 920	920.0	92
			T5/440*	440.0	88	T5/1100	1100.0	220	T10/ 950	950.0	95
			T5/445*	445.0	89	T5/1115*	1115.0	223	T10/ 960	960.0	96
			T5/450	450.0	90	T5/1140*	1140.0	228	T10/ 970	970.0	97
			T5/455	455.0	91	T5/1215	1215.0	243	T10/ 980	980.0	98
			T5/460*	460.0	92	T5/1350*	1350.0	270	T10/1000*	1000.0	100
			T5/475	475.0	95	T5/1380	1380.0	276	T10/1010	1010.0	101
			T5/480	480.0	96	T5/1440	1440.0	288	T10/1050	1050.0	105
			T5/500	500.0	100				T10/1080	1080.0	108
			T5/510	510.0	102				T10/1100	1100.0	110
			T5/525	525.0	105				T10/1110	1110.0	111
			T5/545	545.0	109				T10/1140	1140.0	114
Standard widths b_{St} (mm): 4, 6, 8, 10, 12			Standard widths b_{St} (mm): 6, 8, 10, 12, 16, 20, 25						Standard widths b_{St} (mm): 10, 12, 16, 20, 25, 32, 50		

3.2 ZRM/ZRP timing belt range

optibelt ZRM double section timing belts, metric sizes

Order example for ZRM D:

Width (mm) 50

Section T 10

Pitch length (mm) 1420

Double section timing belts D

Construction:
polyurethane with steel tension cord

Section	Pitch t (mm)	Tooth depth h _t (mm)	Overall belt thickness h _{s1} (mm)	Tooth width s (mm)	Tooth angle 2 β (°)
T5D	5.0	1.20	3.40	2.65	40
T10D	10.0	2.50	7.00	5.30	40

Table 3.2 continued

Section T10, continued			Section T5D – pitch 5 mm			Section T10D – pitch 10 mm		
Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R	Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R	Belt No.	Pitch L _{WSt} (mm)	No. of teeth z _R
T10/1150	1150.0	115	T5/ 300 D*	300.0	60	T10/ 260 D	260.0	26
T10/1200	1200.0	120	T5/ 350 D*	350.0	70	T10/ 530 D	530.0	53
T10/1210	1210.0	121	T5/ 400 D*	400.0	80	T10/ 600 D	600.0	60
T10/1240	1240.0	124	T5/ 410 D	410.0	82	T10/ 630 D	630.0	63
T10/1250	1250.0	125	T5/ 450 D*	450.0	90	T10/ 660 D	660.0	66
T10/1300	1300.0	130	T5/ 460 D	460.0	92	T10/ 700 D	700.0	70
T10/1320	1320.0	132	T5/ 480 D	480.0	96	T10/ 720 D	720.0	72
T10/1350	1350.0	135	T5/ 500 D	500.0	100	T10/ 750 D	750.0	75
T10/1390	1390.0	139	T5/ 515 D	515.0	103	T10/ 800 D	800.0	80
T10/1400	1400.0	140	T5/ 550 D	550.0	110	T10/ 840 D	840.0	84
T10/1420	1420.0	142	T5/ 590 D	590.0	118	T10/ 900 D	900.0	90
T10/1440	1440.0	144	T5/ 600 D*	600.0	120	T10/ 980 D	980.0	98
T10/1450	1450.0	145	T5/ 620 D	620.0	124	T10/1000 D*	1000.0	100
T10/1460	1460.0	146	T5/ 650 D	650.0	130	T10/1100 D	1100.0	110
T10/1500	1500.0	150	T5/ 700 D	700.0	140	T10/1200 D*	1200.0	120
T10/1560	1560.0	156	T5/ 750 D	750.0	150	T10/1210 D	1210.0	121
T10/1600	1600.0	160	T5/ 800 D	800.0	160	T10/1240 D	1240.0	124
T10/1610	1610.0	161	T5/ 815 D	815.0	163	T10/1250 D	1250.0	125
T10/1700	1700.0	170	T5/ 850 D*	850.0	170	T10/1300 D*	1300.0	130
T10/1750	1750.0	175	T5/ 860 D	860.0	172	T10/1320 D	1320.0	132
T10/1780	1780.0	178	T5/ 900 D	900.0	180	T10/1350 D	1350.0	135
T10/1800*	1800.0	180	T5/ 940 D	940.0	188	T10/1400 D	1400.0	140
T10/1880	1880.0	188	T5/1100 D	1100.0	220	T10/1420 D	1420.0	142
T10/1960	1960.0	196				T10/1500 D	1500.0	150
T10/2250	2250.0	225				T10/1600 D*	1600.0	160
T20 and AT sizes on request						T10/1610 D	1610.0	161
						T10/1700 D	1700.0	170
						T10/1800 D	1800.0	180
						T10/1880 D	1880.0	188
Standard widths b_{St} (mm): 10, 12, 16, 20, 25, 32, 50			Standard widths b_{St} (mm): 6, 8, 10, 12, 16, 20, 25			Standard widths b_{St} (mm): 10, 12, 16, 20, 25, 32, 50		

3.2 ZRM/ZRP timing belt range

optibelt ZRP timing belts, inch sizes

Order example for ZRP: K 120 XL 037

K = plastic (polyurethane)

Pitch length code

Pitch length (inch x 10)

Section

Width code

Width (inch x 100)

Section	Pitch t (mm)	Tooth depth h _t (mm)	Overall belt thickness h _s (mm)	Tooth width s (mm)	Tooth angle 2 β (°)
MXL	2.032	0.51	1.14	1.14	40
XL	5.080	1.27	2.30	2.57	50
	9.525	1.91	3.60	4.65	40

Construction: polyurethane with Aramid (MXL) or steel tension cord (XL, L) ^L

Table 3.3: ZRP timing belt range

Section MXL* – pitch 2.032 mm								Section XL – pitch 5.08 mm			
Belt No.	Pitch length L _{wSt}		No. of teeth z _R	Belt No.	Pitch length L _{wSt}		No. of teeth z _R	Belt No.	Pitch length L _{wSt}		No. of teeth z _R
	(inch)	(mm)			(inch)	(mm)			(inch)	(mm)	
K 240 MXL	2.40	60.96	30	K 1840 MXL	18.40	467.36	230	K 60 XL*	6.00	152.40	30
K 280 MXL	2.80	71.12	35	K 1880 MXL	18.80	477.52	235	K 70 XL*	7.00	177.80	35
K 320 MXL	3.20	81.28	40	K 1920 MXL	19.20	487.68	240	K 76 XL*	7.60	193.04	38
K 360 MXL	3.60	91.44	45	K 1960 MXL	19.60	497.84	245	K 80 XL*	8.00	203.20	40
K 400 MXL	4.00	101.60	50	K 2000 MXL	20.00	508.00	250	K 84 XL*	8.40	213.36	42
K 440 MXL	4.40	111.76	55	K 2040 MXL	20.40	518.16	255	K 90 XL*	9.00	228.60	45
K 480 MXL	4.80	121.92	60	K 2080 MXL	20.80	528.32	260	K 94 XL*	9.40	238.76	47
K 520 MXL	5.20	132.08	65	K 2120 MXL	21.20	538.48	265	K 96 XL*	9.60	243.84	48
K 560 MXL	5.60	142.24	70	K 2160 MXL	21.60	548.64	270	K 100 XL	10.00	254.00	50
K 600 MXL	6.00	152.40	75	K 2200 MXL	22.00	558.80	275	K 102 XL*	10.20	259.08	51
K 640 MXL	6.40	162.56	80	K 2240 MXL	22.40	568.96	280	K 104 XL*	10.40	264.16	52
K 680 MXL	6.80	172.72	85	K 2280 MXL	22.80	579.12	285	K 106 XL*	10.60	269.24	53
K 720 MXL	7.20	182.88	90	K 2320 MXL	23.20	589.28	290	K 110 XL	11.00	279.40	55
K 760 MXL	7.60	193.04	95	K 2360 MXL	23.60	599.44	295	K 114 XL*	11.40	289.56	57
K 800 MXL	8.00	203.20	100	K 2400 MXL	24.00	609.60	300	K 116 XL*	11.60	294.64	58
K 840 MXL	8.40	213.36	105	K 2480 MXL	24.80	629.92	310	K 120 XL	12.00	304.80	60
K 880 MXL	8.80	223.52	110	K 2560 MXL	25.60	650.24	320	K 124 XL*	12.40	314.96	62
K 920 MXL	9.20	233.68	115	K 2640 MXL	26.40	670.56	330	K 126 XL*	12.60	320.04	63
K 960 MXL	9.60	243.84	120	K 2720 MXL	27.20	690.88	340	K 128 XL*	12.80	325.12	64
K 1000 MXL	10.00	254.00	125	K 2800 MXL	28.00	711.20	350	K 130 XL	13.00	330.20	65
K 1040 MXL	10.40	264.16	130	K 2880 MXL	28.80	731.52	360	K 136 XL*	13.60	345.44	68
K 1080 MXL	10.80	274.32	135	K 2960 MXL	29.60	751.84	370	K 140 XL	14.00	355.60	70
K 1120 MXL	11.20	284.48	140	K 3040 MXL	30.40	772.16	380	K 150 XL	15.00	381.00	75
K 1160 MXL	11.60	294.64	145	K 3120 MXL	31.20	792.48	390	K 152 XL*	15.20	386.08	76
K 1200 MXL	12.00	304.80	150	K 3200 MXL	32.00	812.80	400	K 154 XL*	15.40	391.16	77
K 1240 MXL	12.40	314.96	155					K 160 XL	16.00	406.40	80
K 1280 MXL	12.80	325.12	160					K 166 XL*	16.60	421.64	83
K 1320 MXL	13.20	335.28	165					K 170 XL	17.00	431.80	85
K 1360 MXL	13.60	345.44	170					K 180 XL	18.00	457.20	90
K 1400 MXL	14.00	355.60	175					K 186 XL*	18.60	472.44	93
K 1440 MXL	14.40	365.76	180					K 190 XL	19.00	482.60	95
K 1480 MXL	14.80	375.92	185					K 200 XL	20.00	508.00	100
K 1520 MXL	15.20	386.08	190					K 210 XL	21.00	533.40	105
K 1560 MXL	15.60	396.24	195					K 212 XL*	21.20	538.48	106
K 1600 MXL	16.00	406.40	200					K 220 XL	22.00	558.80	110
K 1640 MXL	16.40	416.56	205					K 230 XL	23.00	584.20	115
K 1680 MXL	16.80	426.72	210					K 240 XL	24.00	609.60	120
K 1720 MXL	17.20	436.88	215					K 250 XL	25.00	635.00	125
K 1760 MXL	17.60	447.04	220					K 254 XL*	25.40	645.16	127
K 1800 MXL	18.00	457.20	225					K 260 XL	26.00	660.40	130
								Sleeve width: 127 ± 10 mm			
Standard widths b _{S1} :								Standard widths b _{S1} , continued on page 19:			
1/8" = 3.175 mm 3/16" = 4.764 mm 1/4" = 6.35 mm 5/16" = 7.94 mm				1/4" = 6.35 mm 5/16" = 7.94 mm							
Code No.:								Code No.:			
012 019 025 031				025 031							

3.2 ZRM/ZRP Timing Belt Range

optibelt ZRP timing belts, inch sizes

	Order example for ZRP: K 480 L 150				
	K = plastic (polyurethane)				
	Pitch length code				
	Pitch length (inch x 10)				
Section					
Width code					
Width (inch x 100)					
		Section	Pitch	Tooth depth	Overall belt thickness
			t (mm)	h _t (mm)	h _s (mm)
				s (mm)	2 β (°)
		MXL	2.032	0.51	1.14
		XL	5.080	1.27	2.30
			9.525	1.91	3.60
				4.65	40

Construction: polyurethane with Aramid (MXL) or steel tension cord (XL, L) L

Table 3.3, continued:

Section XL – pitch 5.08 mm, continued				Section L – pitch 9.525 mm			
Belt No.	Pitch length		No. of teeth	Belt No.	Pitch length		No. of teeth
	(inch)	(mm)			(inch)	(mm)	
K 270 XL	27.00	685.80	135	K 124 L	12.40	314.30	33
K 290 XL	29.00	736.60	145	K 150 L	15.00	381.00	40
K 300 XL	30.00	762.00	150	K 165 L*	16.50	419.10	44
K 320 XL*	32.00	812.80	160	K 173 L*	17.30	439.42	46
K 330 XL	33.00	838.20	165	K 187 L	18.70	476.20	50
K 360 XL*	36.00	914.40	180	K 210 L	21.00	533.40	56
K 376 XL*	37.60	955.04	188	K 225 L	22.50	571.50	60
K 384 XL*	38.40	975.36	192	K 240 L	24.00	609.60	64
K 390 XL	39.00	990.60	195	K 255 L	25.50	647.70	68
K 414 XL*	41.40	1051.56	207	K 270 L	27.00	685.80	72
K 460 XL*	46.00	1168.40	230	K 285 L	28.50	723.90	76
K 480 XL*	48.00	1219.20	240	K 300 L	30.00	762.00	80
K 512 XL*	51.20	1300.48	256	K 322 L	32.20	819.10	86
K 550 XL*	55.00	1397.00	275	K 345 L	34.50	876.30	92
K 564 XL*	56.40	1432.56	282	K 367 L	36.70	933.40	98
K 630 XL*	63.00	1600.20	315	K 375 L*	37.50	952.50	100
K 670 XL*	67.00	1701.80	335	K 390 L	39.00	990.60	104
				K 420 L	42.00	1066.80	112
				K 427 L*	42.70	1084.58	114
				K 450 L	45.00	1143.00	120
				K 480 L	48.00	1219.20	128
				K 510 L	51.00	1295.40	136
				K 525 L*	52.50	1333.50	140
				K 540 L	54.00	1371.60	144
				K 600 L	60.00	1524.00	160
Sleeve width: 150 ± 10 mm				Sleeve width: 150 ± 10 mm			
Standard widths b _{St} , continued for page 18: 3/8" = 9.53 mm 1/2" = 12.7 mm				Standard widths b _{St} : 1/2" = 12.7 mm 3/4" = 19.05 mm 1" = 25.4 mm 1 1/2" = 38.1 mm			
Code No.: 037 050				Code No.: 050 075 100 150			

3.2 ZRM/ZRP timing belt range

optibelt ZRM timing belts, metric

AT5 / AT10					
	10	AT5 / 300			
			Pitch length	(mm)	
			Pitch	(5 mm)	
			Width	(mm)	

Construction: polyurethane with steel-wire cord

Table 3.4

Type AT5 – pitch 5 mm			Type AT10 – pitch 10 mm		
Belt No.	Pitch length (mm)	Number of teeth	Belt No.	Pitch length (mm)	Number of teeth
AT5/ 225	225.00	45	AT10/ 500	500.00	50
AT5/ 255	255.00	51	AT10/ 560	560.00	56
AT5/ 280	280.00	56	AT10/ 600	600.00	60
AT5/ 300	300.00	60	AT10/ 610	610.00	61
AT5/ 340	340.00	68	AT10/ 660	660.00	66
AT5/ 375	375.00	75	AT10/ 700	700.00	70
AT5/ 390	390.00	78	AT10/ 730	730.00	73
AT5/ 420	420.00	84	AT10/ 780	780.00	78
AT5/ 450	450.00	90	AT10/ 800	800.00	80
AT5/ 455	455.00	91	AT10/ 840	840.00	84
AT5/ 500	500.00	100	AT10/ 890	890.00	89
AT5/ 545	545.00	109	AT10/ 920	920.00	92
AT5/ 600	600.00	120	AT10/ 960	960.00	96
AT5/ 610	610.00	122	AT10/ 980	980.00	98
AT5/ 660	660.00	132	AT10/1000	1000.00	100
AT5/ 710	710.00	142	AT10/1010	1010.00	101
AT5/ 720	720.00	144	AT10/1050	1050.00	105
AT5/ 750	750.00	150	AT10/1080	1080.00	108
AT5/ 780	780.00	156	AT10/1100	1100.00	110
AT5/ 825	825.00	165	AT10/1150	1150.00	115
AT5/ 860	860.00	172	AT10/1200	1200.00	120
AT5/ 975	975.00	195	AT10/1210	1210.00	121
AT5/1050	1050.00	210	AT10/1250	1250.00	125
AT5/1125	1125.00	225	AT10/1280	1280.00	128
AT5/1500	1500.00	300	AT10/1300	1300.00	130
			AT10/1320	1320.00	132
			AT10/1350	1350.00	135
			AT10/1360	1360.00	136
			AT10/1400	1400.00	140
			AT10/1420	1420.00	142
			AT10/1480	1480.00	148
			AT10/1500	1500.00	150
			AT10/1600	1600.00	160
			AT10/1700	1700.00	170
			AT10/1720	1720.00	172
			AT10/1800	1800.00	180
			AT10/1860	1860.00	186
			AT10/1940	1940.00	194

Standard widths:

6 mm – Code **6**; 8 mm – Code **8**; 10 mm – Code **10**; 12 mm – Code **12**;
16 mm – Code **16**; 20 mm – Code **20**; 25 mm – Code **25**.

Standard widths:

10 mm – Code **10**; 12 mm – Code **12**; 16 mm – Code **16**; 20 mm – Code **20**;
25 mm – Code **25**; 32 mm – Code **32**; 50 mm – Code **50**.

Further sizes on request.