



DRIVE DESIGN
AND TECHNICAL MANUAL

**TIMING BELT CURVILINEAR
R-TYPE TOOTH PROFILE**

**DRIVE BELT
TECHNOLOGY .**

SECTION 2.1.5 | TIMING BELTS | RUBBER BELTS

DIN 7721 / ISO 13050 / IP27 RMA-MPTA

TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE (RPP) R3M, R5M, R8M, R14M

FEATURES

Those belts are demonstrating rounded tooth profile to provide perfect matching to pulley gearing, while offering high wear resistance and high dynamic load.

Allows compact design for minimum drive space requirements and low weight meaning better electrical efficiency output.

Such timing belt guarantees a low zero tension, thus bearing and axle tension are low.

Our rubber Timing Belt allows extensive speed range thanks to its teeth strength and flexibility of the belt.

Our flexible rubber backing ensures cord protection and perfect adhesion.



This will allow for reverse idler drive.

This belt features minimal friction with a cover fabric that allows perfect positive engagement with pulleys.

This belt can suit multi-axial transmission, along with packaging, open door, robotic, or any linear motion system applications.

Temperature range from -30°C up to +100°C

Moderate resistance to common oils, good resistance to heat and cold environment

Low noise, high speed ratio, high belt speed

Meets RoHS and REACH requirements

STRUCTURE DETAILS

Rubber teeth and backing

Perfect combination of best chloroprene (CR) prepared in Germany fibre grade materials, our rubber teeth and backing compound offers tooth pitch matching and high wear and vibration resistance. Our production process is highly precised and would ensure the timing belt teeth to have perfect match gearing on pulley.

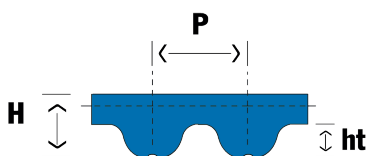
Tensile cord

Designed and manufactured in Japan, our high strength glass fiber, both S and Z orientated monitored by computer, will ensure perfect belt tracking, keep dimensional stability and flexibility with no elongation.

Fabric facing

Featuring very low friction, low noise and long lasting protection of the teeth rubber, our polyamid fabric protects your belt and enable high power transmission.

Dimensions



ISO 13050	R3M	R5M	R8M	R14M
Pitch (mm)	3.0	5.0	8.0	14.0
Height (mm)	1.15	1.95	3.20	6.00
Angle (°) +/-1	32	32	32	32
Width (mm)	1.95	3.30	5.50	9.50
Foot radius (mm)	0.40	0.60	1.00	1.75
Belt thickness (mm)	1.90	3.50	5.50	10.00
Belt weight per meter per 10mm width (Kg/m)	0.026	0.039	0.063	0.115
Min. Crimp (mm)	15	25	40	70
Teeth range (min-max)	58 - 162	45 - 736	60 - 550	69 - 309
Pitch length (mm)	174 - 486	225 - 3680	480 - 4400	966 - 4326

Applications



Appliances/
Machinery



Logistic/
Movement



Packaging



Textile



Technology
& Robots

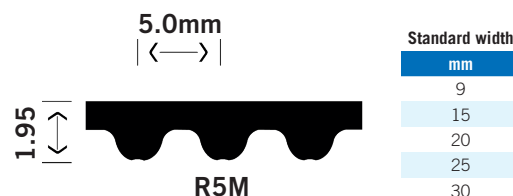
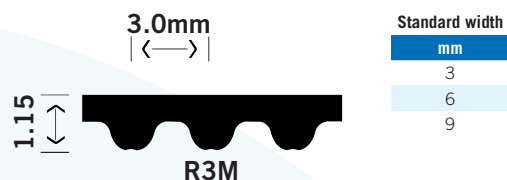
Marking

	NE PAS PLIER	1400-R14M	batch code/worker code + position in sleeve
	DO NOT CRIMP	1400-R14M	batch code/worker code + position in sleeve
	N I G H T KNICKEN	1400-R14M	batch code/worker code + position in sleeve
	NE PAS PLIER	1400-R14M	batch code/worker code + position in sleeve
	DO NOT CRIMP	1400-R14M	batch code/worker code + position in sleeve
	N I G H T KNICKEN	1400-R14M	batch code/worker code + position in sleeve

Product Codification

Example	P-2800-R8M-440 means	P	2800	R8M	440
		Performance line	Length in mm / 2800 mm	Section R8M Pitch 8 mm	Width 440 mm

2.1.5 TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE



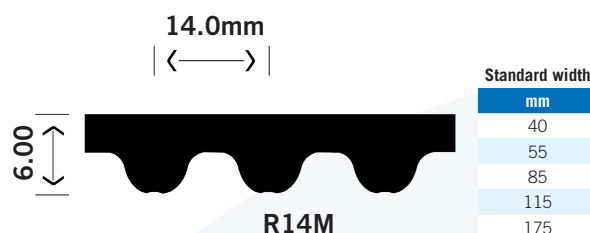
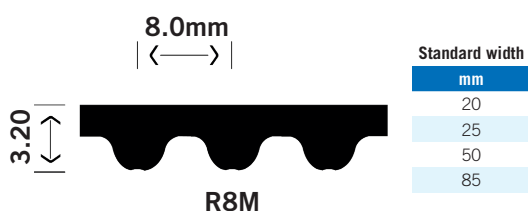
Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
P-174-R3M-450	3666445035303	58	174
P-180-R3M-450	3666445035297	60	180
P-195-R3M-450	3666445035280	65	195
P-207-R3M-450	3666445035273	69	207
P-213-R3M-450	3666445035266	71	213
P-255-R3M-450	3666445035259	85	255
P-270-R3M-450	3666445035242	90	270
P-300-R3M-450	3666445035235	100	300
P-390-R3M-450	3666445035228	130	390
P-405-R3M-450	3666445035211	135	405
P-420-R3M-450	3666445035204	140	420
P-486-R3M-450	3666445035198	162	486

Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
P-225-R5M-450	3666445035181	45	225
P-245-R5M-450	3666445035174	49	245
P-420-R5M-450	3666445035167	84	420
P-500-R5M-450	3666445035150	100	500
P-510-R5M-450	3666445035143	102	510
P-525-R5M-450	3666445035136	105	525
P-535-R5M-450	3666445035129	107	535
P-540-R5M-450	3666445035112	108	540
P-565-R5M-450	3666445035105	113	565
P-575-R5M-450	3666445035099	115	575
P-600-R5M-450	3666445035082	120	600
P-650-R5M-450	3666445035075	130	650
P-800-R5M-450	3666445035068	160	800
P-850-R5M-450	3666445035051	170	850
P-900-R5M-450	3666445035044	180	900
P-1000-R5M-450	3666445035037	200	1000
P-1240-R5M-450	3666445035020	248	1240
P-1595-R5M-450	3666445035013	319	1595
P-2000-R5M-450	3666445035006	400	2000
P-2160-R5M-450	3666445034993	432	2160
P-2250-R5M-450	3666445034986	450	2250
P-2590-R5M-450	3666445034979	518	2590
P-2680-R5M-450	3666445034962	536	2680
P-2725-R5M-450	3666445034955	545	2725
P-2790-R5M-450	3666445034948	558	2790
P-2890-R5M-450	3666445034931	578	2890
P-2990-R5M-450	3666445034924	598	2990
P-3060-R5M-450	3666445034917	612	3060
P-3360-R5M-450	3666445034900	672	3360
P-3500-R5M-450	3666445034894	700	3500
P-3680-R5M-450	3666445034887	736	3680
P-2160-R5M-450	3666445034993	432	2160
P-2250-R5M-450	3666445034986	450	2250
P-2590-R5M-450	3666445034979	518	2590
P-2680-R5M-450	3666445034962	536	2680
P-2725-R5M-450	3666445034955	545	2725
P-2790-R5M-450	3666445034948	558	2790
P-2890-R5M-450	3666445034931	578	2890
P-2990-R5M-450	3666445034924	598	2990
P-3060-R5M-450	3666445034917	612	3060
P-3360-R5M-450	3666445034900	672	3360
P-3500-R5M-450	3666445034894	700	3500
P-3680-R5M-450	3666445034887	736	3680

2.1.5 TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE



Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
P-480-R8M-450	3666445034689	60	480
P-600-R8M-450	3666445034672	75	600
P-640-R8M-450	3666445034665	80	640
P-800-R8M-450	3666445034658	100	800
P-840-R8M-450	3666445034641	105	840
P-896-R8M-450	3666445034634	112	896
P-920-R8M-450	3666445034627	115	920
P-960-R8M-450	3666445034610	120	960
P-1000-R8M-450	3666445034603	125	1000
P-1032-R8M-450	3666445034597	129	1032
P-1040-R8M-450	3666445034580	130	1040
P-1056-R8M-450	3666445034573	132	1056
P-1064-R8M-450	3666445034566	133	1064
P-1080-R8M-450	3666445034559	135	1080
P-1096-R8M-450	3666445034542	137	1096
P-1120-R8M-450	3666445034535	140	1120
P-1136-R8M-450	3666445034528	142	1136
P-1160-R8M-450	3666445034511	145	1160
P-1200-R8M-450	3666445034504	150	1200
P-1280-R8M-450	3666445034498	160	1280
P-1424-R8M-450	3666445034481	178	1424
P-1600-R8M-450	3666445034474	200	1600
P-1760-R8M-450	3666445034467	220	1760
P-1904-R8M-450	3666445034450	238	1904
P-2000-R8M-450	3666445034443	250	2000
P-2064-R8M-450	3666445034436	258	2064
P-2320-R8M-450	3666445034429	290	2320
P-2400-R8M-450	3666445034412	300	2400
P-2496-R8M-450	3666445034405	312	2496
P-2552-R8M-450	3666445034399	319	2552
P-2600-R8M-450	3666445034382	325	2600
P-2680-R8M-450	3666445034375	335	2680
P-2720-R8M-450	3666445034368	340	2720
P-2800-R8M-450	3666445034351	350	2800
P-2880-R8M-450	3666445034344	360	2880
P-2920-R8M-450	3666445034337	365	2920
P-3048-R8M-450	3666445034320	381	3048
P-3200-R8M-450	3666445034313	400	3200
P-3304-R8M-450	3666445034306	413	3304
P-3400-R8M-450	3666445034290	425	3400
P-3712-R8M-450	3666445034283	464	3712
P-4272-R8M-450	3666445034276	534	4272
P-4400-R8M-450	3666445034269	550	4400

Standard Belt Range

CMW Product code	GTIN (EAN) code	Number of teeth	Pitch Length Lp (mm)
P-966-R14M-430	3666445033859	69	966
P-1064-R14M-430	3666445033842	76	1064
P-1176-R14M-430	3666445033835	84	1176
P-1246-R14M-430	3666445033828	89	1246
P-1330-R14M-430	3666445033811	95	1330
P-1400-R14M-430	3666445033804	100	1400
P-1610-R14M-430	3666445033798	115	1610
P-1764-R14M-430	3666445033781	126	1764
P-1778-R14M-430	3666445033774	127	1778
P-1820-R14M-430	3666445033767	130	1820
P-1848-R14M-430	3666445033750	132	1848
P-1862-R14M-430	3666445033743	133	1862
P-1960-R14M-430	3666445033736	140	1960
P-2030-R14M-430	3666445033729	145	2030
P-2100-R14M-430	3666445033712	150	2100
P-2310-R14M-430	3666445033705	165	2310
P-2590-R14M-430	3666445033699	185	2590
P-2968-R14M-430	3666445033682	212	2968
P-3150-R14M-430	3666445033675	225	3150
P-3360-R14M-430	3666445033668	240	3360
P-3500-R14M-430	3666445033651	250	3500
P-3850-R14M-430	3666445033644	275	3850
P-4326-R14M-430	3666445033637	309	4326

POWER RATING

2.1.5 TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE

Section R3M / 6mm

r.p.m. of small Pulley	Number of teeth on small pulley z_k															
	10	12	14	16	18	20	24	28	32	40	48	56	64	72	80	
n_k (min ⁻¹)	Pitch ϕd_w (mm)															
	9,55	11,46	13,37	15,28	17,19	19,10	22,92	26,74	30,56	38,20	45,84	53,48	61,12	68,75	76,39	
10	1,40	1,40	1,40	1,40	2,80	2,80	2,80	4,20	4,20	5,60	7,00	8,40	9,80	11,20	12,60	14,00
20	1,40	2,80	2,80	2,80	4,20	4,20	5,60	7,00	8,40	9,80	12,60	15,40	18,20	21,00	23,80	26,60
30	2,80	2,80	4,20	4,20	5,60	5,60	7,00	8,40	9,80	14,00	16,80	21,00	23,80	28,00	30,80	35,00
50	4,20	4,20	5,60	7,00	7,00	8,40	11,20	12,60	15,40	19,60	25,20	29,40	35,00	40,60	46,20	51,80
70	4,20	5,60	7,00	8,40	9,80	11,20	14,00	16,80	19,60	25,20	32,20	39,20	44,80	51,80	58,80	65,80
100	7,00	8,40	9,80	11,20	12,60	14,00	18,20	22,40	25,20	33,60	42,00	50,40	58,80	68,60	77,00	86,40
200	11,20	14,00	15,40	18,20	22,40	25,20	30,80	36,40	43,40	56,00	70,00	85,40	99,40	114,80	130,20	145,60
300	14,00	18,20	22,40	25,20	29,40	33,60	42,00	50,40	58,80	77,00	95,20	114,80	134,40	155,40	176,40	197,40
400	18,20	22,40	26,60	32,20	36,40	42,00	51,80	61,60	86,80	112,00	140,00	168,00	197,40	228,20	259,00	290,00
500	21,00	26,60	32,20	37,80	43,40	49,00	61,60	72,80	99,40	128,80	161,00	193,20	226,80	261,80	296,80	331,80
600	23,80	30,80	36,40	43,40	49,00	56,00	70,00	84,00	110,60	144,20	180,60	217,00	254,80	292,60	331,80	366,80
700	28,00	33,60	40,60	47,60	56,00	63,00	78,40	93,80	121,80	159,60	198,80	239,40	281,40	323,40	366,80	409,80
800	30,80	37,80	44,80	53,20	61,60	70,00	86,80	105,00	134,40	175,00	217,00	261,80	306,60	354,20	400,40	447,00
900	33,60	40,60	49,00	58,80	67,20	75,60	95,20	113,40	144,20	189,00	235,20	282,80	331,80	382,20	434,00	484,00
1000	36,40	44,80	53,20	63,00	72,80	82,60	102,20	123,20	155,40	203,00	253,40	303,80	357,00	410,20	464,80	518,00
1100	39,20	47,60	57,40	67,20	78,40	88,20	110,60	133,00	166,60	217,00	270,20	324,80	380,80	438,20	497,00	554,00
1200	40,60	51,80	61,60	72,80	82,60	93,80	117,60	141,40	176,40	229,60	285,60	344,40	403,20	464,80	526,40	586,00
1300	43,40	54,60	65,80	77,00	88,20	100,80	124,60	149,80	186,20	243,60	302,40	364,00	427,00	491,40	555,80	618,00
1400	46,20	57,40	68,60	81,20	93,80	106,40	131,60	158,20	196,00	256,20	317,80	382,20	449,40	516,60	585,20	650,00
1500	49,00	60,20	72,80	85,40	98,00	112,00	138,60	166,60	205,80	268,80	334,60	401,80	470,40	541,80	613,20	684,00
1600	50,40	63,00	77,00	89,60	103,60	117,60	145,60	175,00	215,60	281,40	350,00	420,00	492,80	565,60	641,20	716,00
1700	53,20	65,80	79,80	93,80	107,80	123,20	152,60	183,40	224,00	292,60	364,00	438,20	513,80	590,80	667,80	744,00
1800	56,00	70,00	84,00	98,00	113,40	127,40	159,60	191,80	233,80	305,20	379,40	456,40	533,40	613,20	694,40	774,00
1900	57,40	72,80	86,80	102,20	117,60	133,00	165,20	198,80	243,60	317,80	393,40	473,20	554,40	637,00	721,00	804,00
2000	60,20	75,60	89,60	106,40	121,80	138,60	172,20	207,20	278,60	362,60	450,80	540,40	632,80	726,60	820,40	914,00
2400	68,60	85,40	103,60	121,80	140,00	158,20	197,40	236,60	312,20	406,00	504,00	603,40	705,60	809,20	912,80	1018,00
2800	77,00	96,60	116,20	135,80	156,80	177,80	221,20	266,00	344,40	448,00	554,40	663,60	774,20	886,20	998,20	1112,00
3200	85,40	106,40	128,80	151,20	173,60	196,00	243,60	294,00	375,20	487,20	602,00	719,60	838,60	957,60	1075,20	1200,00
3600	93,80	116,20	140,00	163,80	189,00	214,20	266,00	320,60	404,60	525,00	648,20	772,80	898,80	1023,40	1146,60	1274,00
4000	100,80	126,00	151,20	177,80	204,40	232,40	288,40	345,80	473,20	613,20	753,20	891,80	1029,00	1162,00	1290,00	1424,00
5000	119,00	148,40	179,20	210,00	240,80	273,00	338,80	406,00	537,60	690,20	842,80	989,80	1131,20	1264,20	1384,60	1518,00
6000	137,20	170,80	204,40	239,40	275,80	312,20	385,00	460,60	595,00	758,80	917,00	1066,80	1202,60	1323,00	1423,80	1538,00
7000	154,00	190,40	228,20	267,40	308,00	347,20	429,80	512,40	646,80	817,60	975,80	1118,60	1240,40	1335,60	1398,60	1498,00
8000	169,40	210,00	252,00	294,00	337,40	382,20	470,40	558,60	730,80	901,60	1043,00	1145,20	1201,20	1201,20	1138,20	1218,00
10000	198,80	246,40	295,40	344,40	393,40	442,40	541,80	638,40	789,60	938,00	1030,40	1052,80	988,40	823,20		
12000	226,80	280,00	334,60	387,80	442,40	495,60	600,60	698,60	819,00	959,00	929,60	820,40				
14000	252,00	310,80	369,60	427,00	484,40	540,40	645,40	739,20								

POWER RATING

2.1.5 TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE

Section R5M / 10mm

r.p.m. of small Pulley	Number of teeth on small pulley z_k												
	14	16	18	20	24	28	32	40	48	56	64	72	80
n_k (min ⁻¹)	Pitch ϕd_w (mm)												
	22,28	25,46	28,65	31,83	38,2	44,56	50,93	63,66	76,39	89,13	101,86	114,59	127,32
10	7,00	8,40	9,80	9,80	12,87	15,40	18,20	21,00	23,80	26,60	29,40	36,40	42,90
20	11,20	14,00	15,40	18,20	22,88	26,60	30,80	35,00	40,60	44,80	50,40	60,20	72,93
30	15,40	18,20	21,00	23,80	30,03	35,00	42,00	47,60	54,60	61,60	68,60	82,60	98,67
50	22,40	26,60	30,80	35,00	44,33	51,80	61,60	71,40	79,80	89,60	99,40	120,40	144,43
70	29,40	35,00	39,20	44,80	57,20	67,20	78,40	91,00	103,60	116,20	128,80	154,00	185,90
100	37,80	44,80	51,80	58,80	74,36	88,20	103,60	119,00	134,40	151,20	168,00	201,60	241,67
200	64,40	75,60	86,80	99,40	125,84	148,40	173,60	200,20	226,80	254,80	282,80	340,20	407,55
300	86,80	102,20	117,60	134,40	170,17	200,20	235,20	271,60	308,00	344,40	382,20	460,60	551,98
400	107,80	127,40	147,00	166,60	211,64	249,20	292,60	336,00	382,20	428,40	474,60	571,20	684,97
500	127,40	149,80	173,60	196,00	250,25	294,00	345,80	397,60	450,80	505,40	561,40	674,80	809,38
600	147,00	172,20	198,80	225,40	286,00	337,40	396,20	455,00	516,60	579,60	642,60	774,20	926,64
700	165,20	193,20	222,60	253,40	321,75	378,00	443,80	511,00	579,60	651,00	722,40	868,00	1039,61
800	182,00	214,20	246,40	280,00	354,64	418,60	491,40	565,60	641,20	718,20	798,00	959,00	1148,29
900	198,80	233,80	268,80	305,20	387,53	456,40	536,20	617,40	700,00	784,00	870,80	1047,20	1254,11
1000	215,60	252,00	291,20	330,40	418,99	494,20	579,60	667,80	757,40	848,40	942,20	1131,20	1355,64
1100	231,00	271,60	312,20	354,20	450,45	530,60	623,00	726,60	813,40	911,40	1010,80	1213,80	1454,31
1200	246,40	289,80	333,20	378,00	480,48	565,60	663,60	764,40	866,60	971,60	1078,00	1295,00	1550,12
1300	261,80	308,00	354,20	401,80	510,51	600,60	705,60	812,00	919,80	1030,40	1143,80	1373,40	1643,07
1400	277,20	324,80	373,80	424,20	539,11	635,60	744,80	856,80	971,60	1089,20	1206,80	1449,00	1733,16
1500	291,20	341,60	393,40	446,60	567,71	667,80	784,00	901,60	998,20	1145,20	1269,80	1524,60	1821,82
1600	306,60	358,40	413,00	469,00	596,31	701,40	821,80	946,40	1086,40	1201,20	1331,40	1597,40	1909,05
1700	320,60	375,20	432,60	491,40	623,48	733,60	859,60	989,80	1121,40	1255,80	1391,60	1668,80	1991,99
1800	334,60	392,00	450,80	512,40	650,65	765,80	897,40	1031,80	1169,00	1309,00	1450,40	1737,40	2074,93
1900	348,60	408,80	470,40	533,40	676,39	796,60	933,80	1073,80	1216,60	1360,80	1507,80	1806,00	2155,01
2000	361,20	424,20	488,60	554,40	703,56	827,40	968,80	1254,40	1262,80	1412,60	1563,80	1873,20	2233,66
2400	414,40	485,80	558,60	634,20	805,09	945,00	1107,40	1272,60	1439,20	1608,60	1779,40	2125,20	2526,81
2800	464,80	544,60	627,20	709,80	900,90	1057,00	1237,60	1419,60	1604,40	1790,60	1978,20	2354,80	2359,50
3200	512,40	600,60	691,60	782,60	992,42	1163,40	1359,40	1558,20	1758,40	1960,00	2160,20	2562,00	3020,16
3600	558,60	655,20	753,20	852,60	1079,65	1264,20	1475,60	1688,40	1902,60	2115,40	2328,20	2746,80	3220,36
4000	604,80	707,00	813,40	919,80	1162,59	1360,80	1584,80	1810,20	2034,20	2258,20	2478,00	2907,80	3386,24
5000	711,20	831,60	953,40	1076,60	1355,64	1579,20	1829,80	2077,60	2319,80	2555,00	2640,40	3200,40	3642,21
6000	809,20	945,00	1082,20	1219,40	1527,24	1766,80	2032,80	2289,00	2532,60	2759,40	2968,00	3320,80	3643,64
7000	901,60	1048,60	1198,40	1346,80	1674,53	1923,60	2192,40	2441,60	2667,00	2864,40	3029,60	3245,20	3356,21
8000	985,60	1145,20	1303,40	1460,20	1800,37	2046,80	2304,40	2528,40	2714,60	2856,00	2947,00	2951,20	2737,02
10000	1135,40	1309,00	1478,40	1639,40	1976,26	2182,60	2370,20	2486,40	2520,00	2458,40	2291,80		
12000	1258,60	1436,40	1601,60	1752,80	2040,61	2153,20	2198,00	2109,80					
14000	1352,40	1521,80	1670,20	1792,00	1981,98	1934,80	1747,20						

POWER RATING

2.1.5 TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE

Section R8M / 20mm

r.p.m. of small Pulley	Number of teeth on small pulley z_k															
	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80
n_k (min ⁻¹)	Pitch ϕd_w (mm)															
10	0,08	0,10	0,11	0,11	0,13	0,14	0,15	0,15	0,17	0,18	0,20	0,22	0,27	0,31	0,36	0,41
20	0,15	0,17	0,18	0,20	0,21	0,22	0,25	0,27	0,28	0,31	0,34	0,38	0,45	0,53	0,62	0,69
30	0,20	0,22	0,24	0,27	0,29	0,31	0,34	0,36	0,38	0,41	0,46	0,50	0,62	0,71	0,83	0,94
50	0,29	0,32	0,36	0,39	0,42	0,46	0,49	0,53	0,56	0,60	0,67	0,74	0,90	1,05	1,22	1,37
70	0,38	0,42	0,46	0,50	0,55	0,59	0,63	0,69	0,73	0,77	0,87	0,97	1,15	1,36	1,57	1,78
100	0,49	0,55	0,60	0,66	0,71	0,77	0,83	0,88	0,95	1,01	1,13	1,26	1,51	1,78	2,04	2,31
200	0,83	0,92	1,01	1,11	1,20	1,30	1,40	1,50	1,60	1,69	1,90	2,11	2,53	2,98	3,43	3,89
300	1,12	1,25	1,37	1,50	1,62	1,76	1,89	2,03	2,16	2,30	2,58	2,86	3,44	4,03	4,65	5,28
400	1,39	1,54	1,69	1,86	2,02	2,18	2,34	2,51	2,67	2,84	3,19	3,54	4,27	5,00	5,77	6,54
500	1,64	1,82	2,00	2,20	2,38	2,58	2,77	2,97	3,16	3,36	3,78	4,19	5,04	5,91	6,80	7,71
600	1,89	2,09	2,30	2,52	2,73	2,95	3,18	3,40	3,63	3,86	4,33	4,80	5,77	6,76	7,78	8,83
700	2,11	2,35	2,59	2,83	3,07	3,32	3,57	3,82	4,07	4,33	4,86	5,38	6,47	7,59	8,74	9,90
800	2,34	2,59	2,86	3,12	3,39	3,67	3,93	4,21	4,49	4,79	5,36	5,95	7,14	8,37	9,63	10,91
900	2,55	2,83	3,12	3,40	3,70	4,00	4,30	4,61	4,91	5,28	5,85	6,48	7,80	9,13	10,50	11,89
1000	2,76	3,07	3,37	3,68	4,00	4,33	4,65	4,97	5,31	5,64	6,33	7,01	8,41	9,86	11,33	12,82
1100	2,97	3,29	3,63	3,96	4,30	4,63	4,98	5,33	5,70	6,05	6,78	7,52	9,03	10,57	12,14	13,72
1200	3,16	3,51	3,86	4,21	4,58	4,96	5,32	5,70	6,08	6,45	7,22	8,01	9,62	11,24	12,91	14,59
1300	3,36	3,72	4,10	4,48	4,86	5,25	5,64	6,03	6,44	6,85	7,66	8,50	10,18	11,91	13,65	15,43
1400	3,54	3,93	4,33	4,73	5,14	5,54	5,96	6,38	6,80	7,22	8,09	8,96	10,74	12,54	14,38	16,23
1500	3,74	4,14	4,56	4,98	5,40	5,84	6,27	6,71	7,15	7,60	8,50	9,42	11,27	13,16	15,06	16,98
1600	3,92	4,34	4,77	5,22	5,67	6,12	6,57	7,03	7,49	7,97	8,90	9,86	11,80	13,76	15,74	17,72
1700	4,10	4,55	5,00	5,46	5,92	6,40	6,87	7,35	7,83	8,32	9,30	10,29	12,31	14,34	16,10	18,42
1800	4,27	4,75	5,21	5,70	6,17	6,66	7,15	7,66	8,16	8,67	9,69	10,71	12,80	14,90	16,38	19,04
1900	4,45	4,93	5,42	5,92	6,43	6,93	7,45	7,97	8,48	9,00	10,07	11,13	13,27	15,43	17,58	19,73
2000	4,62	5,12	5,63	6,15	6,66	7,20	7,73	8,26	8,79	9,34	10,43	11,52	13,73	15,95	18,16	21,73
2200	4,96	5,49	6,05	6,58	7,14	7,70	8,26	8,83	9,41	9,98	11,13	12,29	14,62	16,93	19,21	21,43
2400	5,28	5,85	6,43	7,00	7,59	8,19	8,78	9,38	9,98	10,58	11,80	13,02	15,44	17,82	20,15	22,40
2600	5,59	6,19	6,80	7,42	8,04	8,65	9,28	9,91	10,54	11,17	12,43	13,69	16,20	18,63	20,99	23,23
2800	5,89	6,52	7,17	7,81	8,46	9,11	9,76	10,42	11,07	11,73	13,03	14,34	16,90	19,36	21,70	23,88
3000	6,19	6,86	7,52	8,19	8,86	9,55	10,22	10,91	11,58	12,26	13,61	14,94	17,53	20,01	22,30	24,40
3500	6,90	7,63	8,36	9,09	9,83	10,56	11,28	12,01	12,74	13,45	14,87	16,24	18,84	21,20		
4000					10,70	11,47	12,22	12,99	13,73	14,46	15,89	17,25	19,71			
4500						12,25	13,03	13,80	14,56	15,29	16,67	17,95				
5000							13,72	14,48	15,20	15,89	17,18	18,31				
5500								15,65	16,28	17,42						
6000									15,90	16,45	17,33					

POWER RATING

2.1.5 TIMING BELT CURVILINEAR R-TYPE TOOTH PROFILE

Section R14M / 40mm

r.p.m. of small Pulley	Number of teeth on small pulley z_k																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
n_k (min ⁻¹)	Pitch $\varnothing d_w$ (mm)																
	124,78	129,23	133,69	142,6	151,51	160,43	169,34	178,25	196,08	213,9	231,73	249,55	267,38	285,21	303,03	320,86	356,51
10	0,60	0,63	0,66	0,71	0,76	0,81	0,87	0,92	1,04	1,15	1,27	1,39	1,51	1,62	1,75	1,88	2,13
20	1,02	1,06	1,11	1,19	1,29	1,37	1,47	1,55	1,75	1,93	2,13	2,34	2,53	2,74	2,94	3,15	3,58
30	1,37	1,44	1,50	1,61	1,74	1,86	1,99	2,11	2,37	2,63	2,90	3,16	3,43	3,71	3,99	4,27	4,84
50	2,02	2,10	2,20	2,37	2,55	2,73	2,91	3,09	3,47	3,85	4,24	4,63	5,04	5,45	5,85	6,27	7,11
70	2,60	2,72	2,83	3,05	3,28	3,51	3,75	3,99	4,47	4,96	5,46	5,96	6,48	7,00	7,53	8,06	9,16
100	3,39	3,54	3,68	3,99	4,28	4,59	4,90	5,21	5,84	6,48	7,14	7,80	8,47	9,16	9,84	10,54	11,96
200	5,71	5,95	6,20	6,71	7,21	7,71	8,23	8,75	9,81	10,89	12,00	13,10	14,24	15,39	16,53	17,71	20,09
300	7,73	8,06	8,40	9,07	9,76	10,46	11,16	11,86	13,30	14,76	16,24	17,74	19,26	20,82	22,37	23,95	27,17
400	9,59	10,00	10,42	11,26	12,10	12,96	13,82	14,70	16,48	18,28	20,12	21,97	23,86	25,76	27,69	29,64	33,59
500	11,33	11,82	12,31	13,29	14,29	15,30	16,32	17,35	19,45	21,56	23,72	25,90	28,11	30,35	32,62	34,89	39,51
600	12,98	13,54	14,10	15,22	16,37	17,51	18,68	19,87	22,25	24,67	27,12	29,61	32,12	34,65	37,21	39,79	45,01
700	14,55	15,18	15,79	17,07	18,34	19,63	20,93	22,25	24,91	27,59	30,34	33,10	35,88	38,70	41,52	44,38	50,12
800	16,06	16,74	17,43	18,83	20,23	21,64	23,07	24,51	27,44	30,39	33,38	36,40	39,44	42,50	45,57	48,66	54,87
900	17,51	18,26	19,01	20,52	22,05	23,59	25,13	26,70	29,86	33,05	36,27	39,52	42,80	46,07	49,36	52,67	59,25
1000	18,91	19,68	20,52	22,15	23,79	25,45	27,12	28,78	32,17	35,59	39,03	42,49	45,95	49,43	52,91	56,38	63,28
1100	20,27	21,14	21,99	23,73	25,48	27,23	29,01	30,79	34,38	38,00	41,64	45,28	48,93	52,57	56,20	59,81	66,93
1200	21,59	22,50	23,41	25,24	27,10	28,97	30,83	32,72	36,50	40,29	44,10	47,91	51,70	55,90	59,22	62,94	70,22
1300	22,86	23,83	24,78	26,71	28,66	30,62	32,59	34,55	38,51	42,48	46,44	50,37	54,29	58,17	62,01	65,77	73,12
1400	24,09	25,10	26,11	28,14	30,17	32,21	34,27	36,32	40,43	44,53	48,62	52,68	56,69	60,63	64,51	68,31	75,61
1500	25,30	26,35	27,40	29,51	31,63	33,75	35,88	38,02	42,25	46,48	50,68	54,81	58,87	62,86	66,74	70,52	77,67
1600	26,46	27,55	28,64	30,83	33,03	35,22	37,42	39,62	43,99	48,31	52,58	56,77	60,86	64,83	68,68	72,39	79,31
1700	27,58	28,70	29,83	32,10	34,37	36,64	38,89	41,15	45,61	50,02	54,33	58,55	62,62	66,57	70,34	73,93	80,49
180	28,67	29,83	31,00	33,33	35,66	37,98	40,29	42,59	47,14	51,60	55,94	60,14	64,18	68,04	71,69	75,11	81,20
1900	29,72	30,91	32,12	34,51	36,89	39,27	41,62	43,96	48,57	53,06	57,39	61,54	65,51	69,24	72,72	75,92	81,41
2000	30,73	31,96	33,19	35,63	38,07	40,49	42,88	45,25	49,90	54,38	58,69	62,76	66,60	70,17	73,43		
2500	35,27	36,61	37,93	40,54	43,11	45,61	48,05	50,40	54,87	58,95	62,58	65,72					
3000			41,57	44,16	46,63	48,97	51,18	53,24									
3500			44,00	46,34	48,48	50,39	52,07	53,47									
4000				46,97	48,48												



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