

**Challenge Classical Timing Belts**

Challenge classical synchronous belts are manufactured to ISO 5296 in four pitch sizes.

**Belt Dimensions**

	XL	L	H	XH	
	Extra Light	Light	Heavy	Extra Heavy	
	Belt Pitch (P)	1/5" (5.080)	3/8" (9.525)	1/2" (12.700)	7/8" (22.225)
	Tooth Depth (T)	1.27	1.91	2.29	6.35
Belt Thickness (H)	2.40	3.60	4.40	11.40	

**XL (Extra Light Series) 1/5" Pitch (5.08mm)**

Width			Pitch Length	Number of Teeth
1/4" (6.5 mm) Part Number	5/16" (7.9 mm) Part Number	3/8" (9.5 mm) Part Number		
60XL025	60XL031	60XL037	152.4	30
70XL025	70XL031	70XL037	177.8	35
80XL025	80XL031	80XL037	203.2	40
90XL025	90XL031	90XL037	228.6	45
98XL025	98XL031	98XL037	248.9	49
100XL025	100XL031	100XL037	254.0	50
102XL025	102XL031	102XL037	259.1	51
104XL025	104XL031	104XL037	264.2	52
106XL025	106XL031	106XL037	269.2	53
110XL025	110XL031	110XL037	279.4	55
120XL025	120XL031	120XL037	304.8	60
130XL025	130XL031	130XL037	330.2	65
140XL025	140XL031	140XL037	355.6	70
146XL025	146XL031	146XL037	370.8	73
150XL025	150XL031	150XL037	381.0	75
156XL025	156XL031	156XL037	396.2	78
160XL025	160XL031	160XL037	406.4	80
170XL025	170XL031	170XL037	431.8	85
176XL025	176XL031	176XL037	447.0	88
180XL025	180XL031	180XL037	457.2	90
182XL025	182XL031	182XL037	462.3	91
188XL025	188XL031	188XL037	477.5	94
190XL025	190XL031	190XL037	482.6	95
198XL025	198XL031	198XL037	502.9	99
200XL025	200XL031	200XL037	508.0	100
202XL025	202XL031	202XL037	513.1	101
210XL025	210XL031	210XL037	533.4	105
212XL025	212XL031	212XL037	538.5	106
214XL025	214XL031	214XL037	543.6	107
220XL025	220XL031	220XL037	558.8	110
228XL025	228XL031	228XL037	579.1	114
230XL025	230XL031	230XL037	584.2	115
234XL025	234XL031	234XL037	594.4	117
240XL025	240XL031	240XL037	609.6	120
250XL025	250XL031	250XL037	635.0	125
260XL025	260XL031	260XL037	660.4	130

# Classical Timing Belts

## L (Light Series) 3/8" Pitch (9.525mm)

Width			Pitch Length	Number of Teeth
1/2" (13 mm) Part Number	3/4" (19 mm) Part Number	1" (25 mm) Part Number		
124L050	124L075	124L100	314.3	33
135L050	135L075	135L100	342.9	36
150L050	150L075	150L100	381.0	40
173L050	173L075	173L100	438.2	46
187L050	187L075	187L100	476.3	50
202L050	202L075	202L100	514.4	54
210L050	210L075	210L100	533.4	56
225L050	225L075	225L100	571.5	60
240L050	240L075	240L100	609.6	64
255L050	255L075	255L100	647.7	68
270L050	270L075	270L100	685.8	72
285L050	285L075	285L100	723.9	76
300L050	300L075	300L100	762.0	80
322L050	322L075	322L100	819.2	86
334L050	334L075	334L100	848.4	89
345L050	345L075	345L100	876.3	92
367L050	367L075	367L100	933.5	98
390L050	390L075	390L100	990.6	104
405L050	405L075	405L100	1028.7	108
412L050	412L050	412L100	1047.8	110
420L050	420L075	420L100	1066.8	112
450L050	450L075	450L100	1143.0	120
480L050	480L075	480L100	1219.2	128
510L050	510L075	510L100	1295.4	136
540L050	540L075	540L100	1371.6	144
600L050	600L075	600L100	1524.0	160

# Classical Timing Belts

## H (Heavy Series) 1/2" Pitch (12.7mm)

Width					Pitch Length	Number of Teeth
3/4" (19 mm) Part Number	1" (25 mm) Part Number	1.1/2" (38 mm) Part Number	2" (51 mm) Part Number	3" (75 mm) Part Number		
240H075	240H100	240H150	240H200	240H300	609.6	48
270H075	270H100	270H150	270H200	270H300	685.8	54
300H075	300H100	300H150	300H200	300H300	762.0	60
310H075	310H100	310H150	310H200	310H300	787.4	62
330H075	330H100	330H150	330H200	330H300	838.2	66
360H075	360H100	360H150	360H200	360H300	914.4	72
370H075	370H100	370H150	370H200	370H300	939.8	74
390H075	390H100	390H150	390H200	390H300	990.6	78
420H075	420H100	420H150	420H200	420H300	1066.8	84
450H075	450H100	450H150	450H200	450H300	1143.0	90
480H075	480H100	480H150	480H200	480H300	1219.2	96
510H075	510H100	510H150	510H200	510H300	1295.4	102
540H075	540H100	540H150	540H200	540H300	1371.6	108
570H075	570H100	570H150	570H200	570H300	1447.8	114
600H075	600H100	600H150	600H200	600H300	1524.0	120
630H075	630H100	630H150	630H200	630H300	1600.2	126
660H075	660H100	660H150	660H200	660H300	1676.4	132
670H075	670H100	670H150	670H200	670H300	1701.8	134
700H075	700H100	700H150	700H200	700H300	1778.0	140
725H075	725H100	725H150	725H200	725H300	1841.5	145
750H075	750H100	750H150	750H200	750H300	1905.0	150
800H075	800H100	800H150	800H200	800H300	2032.0	160
850H075	850H100	850H150	850H200	850H300	2159.0	170
900H075	900H100	900H150	900H200	900H300	2286.0	180
1000H075	1000H100	1000H150	1000H200	1000H300	2540.0	200
1100H075	1100H100	1100H150	1100H200	1100H300	2794.0	220
1120H075	1120H100	1120H150	1120H200	1120H300	2844.8	224
1140H075	1140H100	1140H150	1140H200	1140H300	2895.6	228
1150H075	1150H100	1150H150	1150H200	1150H300	2921.0	230
1250H075	1250H100	1250H150	1250H200	1250H300	3175.0	250
1400H075	1400H100	1400H150	1400H200	1400H300	3556.0	280
1645H075	1645H100	1645H150	1645H200	1645H300	4178.3	329
1700H075	1700H100	1700H150	1700H200	1700H300	4318.0	340

## XH (Extra Heavy Series) 7/8" Pitch (22.225mm)

Width			Pitch Length	Number of Teeth
2" (51 mm) Part Number	3" (75 mm) Part Number	4" (102 mm) Part Number		
507XH200	507XH300	507XH400	1289.1	58
534XH200	534XH300	534XH400	1356.4	61
560XH200	560XH300	560XH400	1422.4	64
630XH200	630XH300	630XH400	1600.2	72
700XH200	700XH300	700XH400	1778.0	80
770XH200	770XH300	770XH400	1955.8	88
840XH200	840XH300	840XH400	2133.6	96
980XH200	980XH300	980XH400	2489.2	112
1120XH200	1120XH300	1120XH400	2844.8	128
1260XH200	1260XH300	1260XH400	3200.4	144
1400XH200	1400XH300	1400XH400	3556.0	160
1540XH200	1540XH300	1540XH400	3911.6	176
1750XH200	1750XH300	1750XH400	4445.0	200

## Curved Tooth Timing Belts HTD®

### Challenge Curved Tooth Timing Belts HTD®

The special curved tooth design provides improved power transmission in a wide range of industrial applications.

The precision formed teeth ensure smooth engagement with pulley grooves ensuring a long trouble free service life.

Challenge Curved Tooth Timing Belts conform to ISO 13050

3M and 5M pitch belts are especially suited for many domestic, office machinery and power tool applications.

8M and 14M pitch belts are widely used in high performance drive applications.

### Belt Dimensions

	3M	5M	8M	14M
Belt Pitch (P)	3.00	5.00	8.00	14.00
Tooth Depth (T)	1.15	2.00	3.20	6.00
Belt Thickness (H)	2.40	3.80	5.40	9.70

### Curved Tooth, 3mm Pitch 3M

Width			Number of Teeth
6mm Part Number	9mm Part Number	15mm Part Number	
90-3M-6	90-3M-9	90-3M-15	30
105-3M-6	105-3M-9	105-3M-15	35
129-3M-6	129-3M-9	129-3M-15	43
141-3M-6	141-3M-9	141-3M-15	47
144-3M-6	144-3M-9	144-3M-15	48
147-3M-6	147-3M-9	147-3M-15	49
150-3M-6	150-3M-9	150-3M-15	50
159-3M-6	159-3M-9	159-3M-15	53
168-3M-6	168-3M-9	168-3M-15	56
174-3M-6	174-3M-9	174-3M-15	58
177-3M-6	177-3M-9	177-3M-15	59
180-3M-6	180-3M-9	180-3M-15	60
186-3M-6	186-3M-9	186-3M-15	62
195-3M-6	195-3M-9	195-3M-15	65
201-3M-6	201-3M-9	201-3M-15	67
204-3M-6	204-3M-9	204-3M-15	68
210-3M-6	210-3M-9	210-3M-15	70
213-3M-6	213-3M-9	213-3M-15	71
225-3M-6	225-3M-9	225-3M-15	75
231-3M-6	231-3M-9	231-3M-15	77
240-3M-6	240-3M-9	240-3M-15	80
243-3M-6	243-3M-9	243-3M-15	81
246-3M-6	246-3M-9	246-3M-15	82
249-3M-6	249-3M-9	249-3M-15	83
252-3M-6	252-3M-9	252-3M-15	84
255-3M-6	255-3M-9	255-3M-15	85
261-3M-6	261-3M-9	261-3M-15	87
264-3M-6	264-3M-9	264-3M-15	88
267-3M-6	267-3M-9	267-3M-15	89
270-3M-6	270-3M-9	270-3M-15	90
276-3M-6	276-3M-9	276-3M-15	92
285-3M-6	285-3M-9	285-3M-15	95
288-3M-6	288-3M-9	288-3M-15	96
291-3M-6	291-3M-9	291-3M-15	97
297-3M-6	297-3M-9	297-3M-15	99
300-3M-6	300-3M-9	300-3M-15	100
312-3M-6	312-3M-9	312-3M-15	104
318-3M-6	318-3M-9	318-3M-15	106
327-3M-6	327-3M-9	327-3M-15	109
330-3M-6	330-3M-9	330-3M-15	110
333-3M-6	333-3M-9	333-3M-15	111
336-3M-6	336-3M-9	336-3M-15	112
339-3M-6	339-3M-9	339-3M-15	113

Width			Number of Teeth
6mm Part Number	9mm Part Number	15mm Part Number	
345-3M-6	345-3M-9	345-3M-15	115
357-3M-6	357-3M-9	357-3M-15	119
363-3M-6	363-3M-9	363-3M-15	121
375-3M-6	375-3M-9	375-3M-15	125
384-3M-6	384-3M-9	384-3M-15	128
390-3M-6	390-3M-9	390-3M-15	130
393-3M-6	393-3M-9	393-3M-15	131
405-3M-6	405-3M-9	405-3M-15	135
420-3M-6	420-3M-9	420-3M-15	140
432-3M-6	432-3M-9	432-3M-15	144
447-3M-6	447-3M-9	447-3M-15	149
474-3M-6	474-3M-9	474-3M-15	158
480-3M-6	480-3M-9	480-3M-15	160
486-3M-6	486-3M-9	486-3M-15	162
489-3M-6	489-3M-9	489-3M-15	163
501-3M-6	501-3M-9	501-3M-15	167
510-3M-6	510-3M-9	510-3M-15	170
513-3M-6	513-3M-9	513-3M-15	171
522-3M-6	522-3M-9	522-3M-15	174
531-3M-6	531-3M-9	531-3M-15	177
537-3M-6	537-3M-9	537-3M-15	179
564-3M-6	564-3M-9	564-3M-15	188
570-3M-6	570-3M-9	570-3M-15	190
576-3M-6	576-3M-9	576-3M-15	192
579-3M-6	579-3M-9	579-3M-15	193
597-3M-6	597-3M-9	597-3M-15	199
600-3M-6	600-3M-9	600-3M-15	200
633-3M-6	633-3M-9	633-3M-15	211
648-3M-6	648-3M-9	648-3M-15	216
669-3M-6	669-3M-9	669-3M-15	223
711-3M-6	711-3M-9	711-3M-15	237
735-3M-6	735-3M-9	735-3M-15	245
738-3M-6	738-3M-9	738-3M-15	246
756-3M-6	756-3M-9	756-3M-15	252
804-3M-6	804-3M-9	804-3M-15	268
882-3M-6	882-3M-9	882-3M-15	294
945-3M-6	945-3M-9	945-3M-15	315
1062-3M-6	1062-3M-9	1062-3M-15	354
1125-3M-6	1125-3M-9	1125-3M-15	375
1245-3M-6	1245-3M-9	1245-3M-15	415
1263-3M-6	1263-3M-9	1263-3M-15	421
1500-3M-6	1500-3M-9	1500-3M-15	500
1530-3M-6	1530-3M-9	1530-3M-15	510

All dimensions in millimetres unless otherwise stated. Every effort has been taken to ensure that the data listed in this catalogue is correct. Challenge accepts no liability for any inaccuracies or damage caused.

## Curved Tooth Timing Belts HTD®

### Curved Tooth, 5mm Pitch 5M

Width			Number of Teeth
9mm Part Number	15mm Part Number	25mm Part Number	
305-5M-9	305-5M-15	305-5M-25	61
325-5M-9	325-5M-15	325-5M-25	65
345-5M-9	345-5M-15	345-5M-25	69
350-5M-9	350-5M-15	350-5M-25	70
375-5M-9	375-5M-15	375-5M-25	75
400-5M-9	400-5M-15	400-5M-25	80
420-5M-9	420-5M-15	420-5M-25	84
425-5M-9	425-5M-15	425-5M-25	85
450-5M-9	450-5M-15	450-5M-25	90
455-5M-9	455-5M-15	455-5M-25	91
460-5M-9	460-5M-15	460-5M-25	92
465-5M-9	465-5M-15	465-5M-25	93
475-5M-9	475-5M-15	475-5M-25	95
500-5M-9	500-5M-15	500-5M-25	100
525-5M-9	525-5M-15	525-5M-25	105
535-5M-9	535-5M-15	535-5M-25	107
565-5M-9	565-5M-15	565-5M-25	113
575-5M-9	575-5M-15	575-5M-25	115
580-5M-9	580-5M-15	580-5M-25	116
600-5M-9	600-5M-15	600-5M-25	120
610-5M-9	610-5M-15	610-5M-25	122
615-5M-9	615-5M-15	615-5M-25	123
635-5M-9	635-5M-15	635-5M-25	127
640-5M-9	640-5M-15	640-5M-25	128
670-5M-9	670-5M-15	670-5M-25	134
675-5M-9	675-5M-15	675-5M-25	135
700-5M-9	700-5M-15	700-5M-25	140
705-5M-9	705-5M-15	705-5M-25	141
710-5M-9	710-5M-15	710-5M-25	142
725-5M-9	725-5M-15	725-5M-25	145
740-5M-9	740-5M-15	740-5M-25	148

Width			Number of Teeth
9mm Part Number	15mm Part Number	25mm Part Number	
750-5M-9	750-5M-15	750-5M-25	150
755-5M-9	755-5M-15	755-5M-25	151
800-5M-9	800-5M-15	800-5M-25	160
835-5M-9	835-5M-15	835-5M-25	167
850-5M-9	850-5M-15	850-5M-25	170
890-5M-9	890-5M-15	890-5M-25	178
900-5M-9	900-5M-15	900-5M-25	180
935-5M-9	935-5M-15	935-5M-25	187
940-5M-9	940-5M-15	940-5M-25	188
950-5M-9	950-5M-15	950-5M-25	190
980-5M-9	980-5M-15	980-5M-25	196
1000-5M-9	1000-5M-15	1000-5M-25	200
1025-5M-9	1025-5M-15	1025-5M-25	205
1050-5M-9	1050-5M-15	1050-5M-25	210
1100-5M-9	1100-5M-15	1100-5M-25	220
1125-5M-9	1125-5M-15	1125-5M-25	225
1135-5M-9	1135-5M-15	1135-5M-25	227
1195-5M-9	1195-5M-15	1195-5M-25	239
1200-5M-9	1200-5M-15	1200-5M-25	240
1240-5M-9	1240-5M-15	1240-5M-25	248
1270-5M-9	1270-5M-15	1270-5M-25	254
1420-5M-9	1420-5M-15	1420-5M-25	284
1595-5M-9	1595-5M-15	1595-5M-25	319
1690-5M-9	1690-5M-15	1690-5M-25	338
1790-5M-9	1790-5M-15	1790-5M-25	358
1800-5M-9	1800-5M-15	1800-5M-25	360
1870-5M-9	1870-5M-15	1870-5M-25	374
1895-5M-9	1895-5M-15	1895-5M-25	379
1945-5M-9	1945-5M-15	1945-5M-25	389
2000-5M-9	2000-5M-15	2000-5M-25	400

# Curved Tooth Timing Belts HTD®

## Curved Tooth, 8mm Pitch 8M

Width				Number of Teeth
20mm Part Number	30mm Part Number	50mm Part Number	85mm Part Number	
480-8M-20	480-8M-30	480-8M-50	480-8M-85	60
536-8M-20	536-8M-30	536-8M-50	536-8M-85	67
544-8M-20	544-8M-30	544-8M-50	544-8M-85	68
560-8M-20	560-8M-30	560-8M-50	560-8M-85	70
600-8M-20	600-8M-30	600-8M-50	600-8M-85	75
608-8M-20	608-8M-30	608-8M-50	608-8M-85	76
632-8M-20	632-8M-30	632-8M-50	632-8M-85	79
640-8M-20	640-8M-30	640-8M-50	640-8M-85	80
680-8M-20	680-8M-30	680-8M-50	680-8M-85	85
720-8M-20	720-8M-30	720-8M-50	720-8M-85	90
800-8M-20	800-8M-30	800-8M-50	800-8M-85	100
840-8M-20	840-8M-30	840-8M-50	840-8M-85	105
880-8M-20	880-8M-30	880-8M-50	880-8M-85	110
896-8M-20	896-8M-30	896-8M-50	896-8M-85	112
920-8M-20	920-8M-30	920-8M-50	920-8M-85	115
960-8M-20	960-8M-30	960-8M-50	960-8M-85	120
1000-8M-20	1000-8M-30	1000-8M-50	1000-8M-85	125
1040-8M-20	1040-8M-30	1040-8M-50	1040-8M-85	130
1080-8M-20	1080-8M-30	1080-8M-50	1080-8M-85	135
1120-8M-20	1120-8M-30	1120-8M-50	1120-8M-85	140
1200-8M-20	1200-8M-30	1200-8M-50	1200-8M-85	150
1224-8M-20	1224-8M-30	1224-8M-50	1224-8M-85	153
1280-8M-20	1280-8M-30	1280-8M-50	1280-8M-85	160
1352-8M-20	1352-8M-30	1352-8M-50	1352-8M-85	169
1440-8M-20	1440-8M-30	1440-8M-50	1440-8M-85	180
1464-8M-20	1464-8M-30	1464-8M-50	1464-8M-85	183
1600-8M-20	1600-8M-30	1600-8M-50	1600-8M-85	200
1760-8M-20	1760-8M-30	1760-8M-50	1760-8M-85	220
1800-8M-20	1800-8M-30	1800-8M-50	1800-8M-85	225
2000-8M-20	2000-8M-30	2000-8M-50	2000-8M-85	250
2200-8M-20	2200-8M-30	2200-8M-50	2200-8M-85	275
2400-8M-20	2400-8M-30	2400-8M-50	2400-8M-85	300
2520-8M-20	2520-8M-30	2520-8M-50	2520-8M-85	315
2600-8M-20	2600-8M-30	2600-8M-50	2600-8M-85	325
2800-8M-20	2800-8M-30	2800-8M-50	2800-8M-85	350

## Curved Tooth Timing Belts HTD®

### Curved Tooth, 14mm Pitch 14M

Width					Number of Teeth
40mm Part Number	55mm Part Number	85mm Part Number	115mm Part Number	170mm Part Number	
966-14M-40	966-14M-55	966-14M-85	966-14M-115	966-14M-170	69
994-14M-40	994-14M-55	994-14M-85	994-14M-115	994-14M-170	71
1092-14M-40	1092-14M-55	1092-14M-85	1092-14M-115	1092-14M-170	78
1106-14M-40	1106-14M-55	1106-14M-85	1106-14M-115	1106-14M-170	79
1190-14M-40	1190-14M-55	1190-14M-85	1190-14M-115	1190-14M-170	85
1260-14M-40	1260-14M-55	1260-14M-85	1260-14M-115	1260-14M-170	90
1288-14M-40	1288-14M-55	1288-14M-85	1288-14M-115	1288-14M-170	92
1344-14M-40	1344-14M-55	1344-14M-85	1344-14M-115	1344-14M-170	96
1400-14M-40	1400-14M-55	1400-14M-85	1400-14M-115	1400-14M-170	100
1442-14M-40	1442-14M-55	1442-14M-85	1442-14M-115	1442-14M-170	103
1568-14M-40	1568-14M-55	1568-14M-85	1568-14M-115	1568-14M-170	112
1610-14M-40	1610-14M-55	1610-14M-85	1610-14M-115	1610-14M-170	115
1764-14M-40	1764-14M-55	1764-14M-85	1764-14M-115	1764-14M-170	126
1778-14M-40	1778-14M-55	1778-14M-85	1778-14M-115	1778-14M-170	127
1848-14M-40	1848-14M-55	1848-14M-85	1848-14M-115	1848-14M-170	132
1890-14M-40	1890-14M-55	1890-14M-85	1890-14M-115	1890-14M-170	135
1904-14M-40	1904-14M-55	1904-14M-85	1904-14M-115	1904-14M-170	136
1960-14M-40	1960-14M-55	1960-14M-85	1960-14M-115	1960-14M-170	140
2100-14M-40	2100-14M-55	2100-14M-85	2100-14M-115	2100-14M-170	150
2240-14M-40	2240-14M-55	2240-14M-85	2240-14M-115	2240-14M-170	160
2310-14M-40	2310-14M-55	2310-14M-85	2310-14M-115	2310-14M-170	165
2380-14M-40	2380-14M-55	2380-14M-85	2380-14M-115	2380-14M-170	170
2450-14M-40	2450-14M-55	2450-14M-85	2450-14M-115	2450-14M-170	175
2590-14M-40	2590-14M-55	2590-14M-85	2590-14M-115	2590-14M-170	185
2660-14M-40	2660-14M-55	2660-14M-85	2660-14M-115	2660-14M-170	190
2800-14M-40	2800-14M-55	2800-14M-85	2800-14M-115	2800-14M-170	200
3150-14M-40	3150-14M-55	3150-14M-85	3150-14M-115	3150-14M-170	225
3360-14M-40	3360-14M-55	3360-14M-85	3360-14M-115	3360-14M-170	240
3500-14M-40	3500-14M-55	3500-14M-85	3500-14M-115	3500-14M-170	250
3850-14M-40	3850-14M-55	3850-14M-85	3850-14M-115	3850-14M-170	275
3920-14M-40	3920-14M-55	3920-14M-85	3920-14M-115	3920-14M-170	280
4326-14M-40	4326-14M-55	4326-14M-85	4326-14M-115	4326-14M-170	309
4578-14M-40	4578-14M-55	4578-14M-85	4578-14M-115	4578-14M-170	327



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