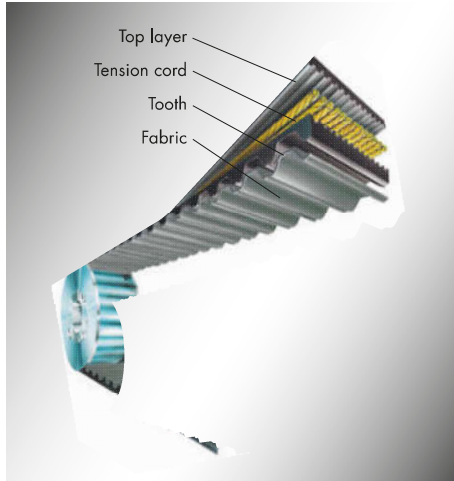


PRODUCT DESCRIPTION

optibelt OMEGA TIMING BELTS



Structure



Top layer

The belt top layer consists of a flexible polychloroprene compound which protects the tension cord from external influences. In addition, it offers limited resistance to mineral oils and humidity as well as protection from frictional wear and tear.

Tension cord

The tension member is composed of a pair of counter twisted glass fibre cords. These tension cords have high tensile strength, very high flexibility and very low stretch.

Teeth

Just like the belt top layer, the teeth consist of a polychloroprene compound guaranteeing high shear strength. The dimples in the teeth promote quiet running.

Fabric

The polyamide fabric protects the teeth from premature wear and tooth root cracking. At the same time, the low coefficient of friction lowers the operating temperature and helps to reduce the running noise.

High performance optibelt OMEGA timing belts are the result of a continuing development process. Operational experience with optibelt ZR and optibelt HTD has been applied to this belt generation. Endless optibelt OMEGA timing belts set the standard for synchronous performance and for positioning drives. The geometry of the optibelt OMEGA tooth profile has been developed to run in the established, curvilinear timing belt pulleys. optibelt OMEGA timing belts can be used in 3M, 5M, 8M and 14M HTD pulley profiles. optibelt ZRS HTD timing belt pulleys are standard items in our range with pilot bores or bored for optibelt TB taper bushes. In addition, all OMEGA timing belts can also be used in RPP timing belt pulleys. Special timing belt pulleys for optibelt OMEGA timing belts are not required.



Application example: lawn mowers

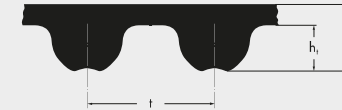
Overview of the advantages and characteristics

- synchronous speed
- highest precision
- perceptibly lower noise level due to the optibelt OMEGA tooth profile
- use in standard HTD and RPP timing belt pulleys
- maintenance-free
- temperature resistant from -30°C to $+100^{\circ}\text{C}$
- efficiency of up to 98 %

PRODUCT DESCRIPTION

optibelt OMEGA TIMING BELTS

STANDARD PRODUCT RANGE



Profile	2M
t [mm]	2.0
h _s [mm]	1.3
h _i [mm]	0.7

optibelt OMEGA 2M					
Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
74 2M•	74.00	37	310 2M•	310.00	155
90 2M•	90.00	45	314 2M•	314.00	157
100 2M•	100.00	50	318 2M•	318.00	159
104 2M•	104.00	52	328 2M•	328.00	164
112 2M•	112.00	56	330 2M•	330.00	165
118 2M•	118.00	59	336 2M•	336.00	168
120 2M•	120.00	60	340 2M•	340.00	170
124 2M•	124.00	62	368 2M•	368.00	184
130 2M•	130.00	65	370 2M•	370.00	185
140 2M•	140.00	70	386 2M•	386.00	193
148 2M•	148.00	74	392 2M•	392.00	196
158 2M•	158.00	79	406 2M•	406.00	203
180 2M•	180.00	90	426 2M•	426.00	213
184 2M•	184.00	92	448 2M•	448.00	224
188 2M•	188.00	94	558 2M•	558.00	279
192 2M•	192.00	96	560 2M•	560.00	280
200 2M•	200.00	100	710 2M•	710.00	355
208 2M•	208.00	104	930 2M•	930.00	465
210 2M•	210.00	105	984 2M•	984.00	492
216 2M•	216.00	108	1066 2M•	1066.00	533
224 2M•	224.00	112	1224 2M•	1224.00	612
232 2M•	232.00	116			
250 2M•	250.00	125			
256 2M•	256.00	128			
266 2M•	266.00	133			
274 2M•	274.00	137			
280 2M•	280.00	140			
288 2M•	288.00	144			
304 2M•	304.00	152			
308 2M•	308.00	154			

Standard width: 3 mm, 6 mm, 9 mm
• Not available ex stock

Order example:

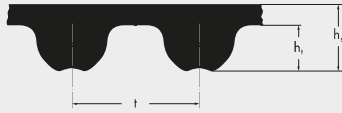
TIMING BELTS: optibelt OMEGA 180 2M 6

180 = 180 mm pitch length
2M = profile
6 = 6 mm belt width

PRODUCT DESCRIPTION

optibelt **OMEGA** TIMING BELTS

STANDARD PRODUCT RANGE



Profile	3M
t [mm]	3.0
h _s [mm]	2.3
h ₁ [mm]	1.1

optibelt OMEGA 3M

Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
111 3M	111.00	37	255 3M	255.00	85
117 3M (HTD)•	117.00	39	267 3M	267.00	89
120 3M (HTD)•	120.00	40	276 3M	276.00	92
123 3M (HTD)•	123.00	41	282 3M•	282.00	94
126 3M (HTD)•	126.00	42	285 3M	285.00	95
129 3M	129.00	43	288 3M	288.00	96
141 3M	141.00	47	291 3M	291.00	97
144 3M	144.00	48	294 3M	294.00	98
150 3M	150.00	50	300 3M	300.00	100
156 3M (HTD)•	156.00	52	306 3M (HTD)•	306.00	102
159 3M	159.00	53	312 3M	312.00	104
165 3M	165.00	55	315 3M	315.00	105
168 3M	168.00	56	318 3M	318.00	106
171 3M	171.00	57	330 3M	330.00	110
174 3M	174.00	58	333 3M	333.00	111
177 3M	177.00	59	336 3M (HTD)	336.00	112
180 3M	180.00	60	339 3M	339.00	113
183 3M	183.00	61	345 3M	345.00	115
186 3M	186.00	62	357 3M	357.00	119
192 3M	192.00	64	363 3M	363.00	121
195 3M	195.00	65	366 3M	366.00	122
201 3M	201.00	67	384 3M	384.00	128
204 3M	204.00	68	390 3M	390.00	130
207 3M	207.00	69	411 3M	411.00	137
210 3M	210.00	70	420 3M	420.00	140
213 3M	213.00	71	426 3M	426.00	142
216 3M (HTD)	216.00	72	435 3M•	435.00	145
219 3M•	219.00	73	447 3M	447.00	149
225 3M	225.00	75	462 3M	462.00	154
237 3M•	237.00	79	474 3M	474.00	158
240 3M	240.00	80	477 3M (HTD)•	477.00	159
243 3M (HTD)•	243.00	81	480 3M	480.00	160
246 3M	246.00	82	486 3M	486.00	162
249 3M•	249.00	83	489 3M (HTD)•	489.00	163
252 3M	252.00	84	495 3M	495.00	165

Standard width: 6 mm, 9 mm, 15 mm
• Not available ex stock

Order example:

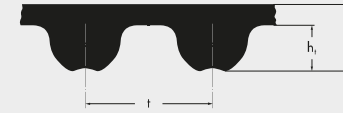
TIMING BELTS: optibelt OMEGA 150 3M 15

150 = 150 mm pitch length
3M = profile
15 = 15 mm belt width

PRODUCT DESCRIPTION

optibelt **OMEGA** TIMING BELTS

STANDARD PRODUCT RANGE



Profile	3M
t [mm]	3.0
h _s [mm]	2.3
h ₁ [mm]	1.1

optibelt OMEGA 3M

Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
501 3M	501.00	167	1062 3M	1062.00	354
513 3M	513.00	171	1068 3M (HTD)•	1068.00	356
519 3M	519.00	173	1071 3M (HTD)	1071.00	357
522 3M	522.00	174	1125 3M (HTD)•	1125.00	375
525 3M	525.00	175	1176 3M (HTD)•	1176.00	392
531 3M	531.00	177	1245 3M (HTD)•	1245.00	415
537 3M	537.00	179	1263 3M (HTD)	1263.00	421
558 3M	558.00	186	1500 3M (HTD)•	1500.00	500
564 3M	564.00	188	1530 3M (HTD)•	1530.00	510
570 3M	570.00	190	1569 3M	1569.00	523
582 3M	582.00	194	1587 3M•	1587.00	529
591 3M (HTD)•	591.00	197	1692 3M•	1692.00	564
594 3M (HTD)•	594.00	198	1863 3M (HTD)	1863.00	621
597 3M	597.00	199			
600 3M	600.00	200			
606 3M	606.00	202			
612 3M (HTD)•	612.00	204			
615 3M	615.00	205			
633 3M	633.00	211			
648 3M (HTD)•	648.00	216			
669 3M	669.00	223			
672 3M (HTD)•	672.00	224			
675 3M	675.00	225			
708 3M (HTD)•	708.00	236			
711 3M	711.00	237			
738 3M	738.00	246			
753 3M (HTD)	753.00	251			
804 3M	804.00	268			
816 3M	816.00	272			
843 3M	843.00	281			
882 3M	882.00	294			
888 3M	888.00	296			
945 3M (HTD)	945.00	315			
960 3M (HTD)•	960.00	320			
1041 3M (HTD)•	1041.00	347			

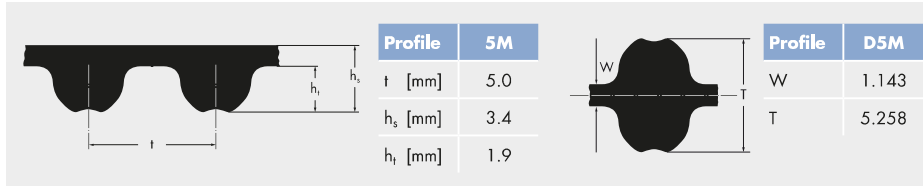
Standard width: 6 mm, 9 mm, 15 mm
• Not available ex stock

Order example:

TIMING BELTS: optibelt OMEGA 150 3M 15

150 = 150 mm pitch length
3M = profile
15 = 15 mm belt width

PRODUCT DESCRIPTION
optibelt OMEGA TIMING BELTS
STANDARD PRODUCT RANGE

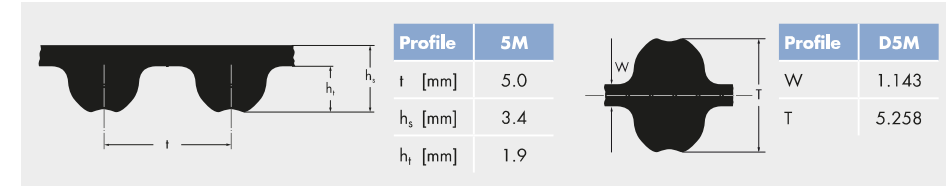


optibelt OMEGA 5M					
Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
120 5M (HTD)	120.00	24	560 5M	560.00	112
180 5M	180.00	36	565 5M▲	565.00	113
225 5M	225.00	45	575 5M	575.00	115
255 5M	255.00	51	580 5M	580.00	116
265 5M	265.00	53	600 5M▲	600.00	120
270 5M	270.00	54	610 5M	610.00	122
275 5M	275.00	55	615 5M▲	615.00	123
280 5M	280.00	56	620 5M	620.00	124
295 5M	295.00	59	625 5M	625.00	125
300 5M	300.00	60	630 5M▲	630.00	126
305 5M	305.00	61	635 5M▲	635.00	127
325 5M	325.00	65	640 5M	640.00	128
330 5M	330.00	66	645 5M	645.00	129
340 5M	340.00	68	650 5M	650.00	130
345 5M (HTD)	345.00	69	655 5M	655.00	131
350 5M	350.00	70	665 5M▲	665.00	133
360 5M	360.00	72	670 5M	670.00	134
365 5M	365.00	73	700 5M▲	700.00	140
370 5M	370.00	74	710 5M▲	710.00	142
375 5M	375.00	75	720 5M	720.00	144
385 5M	385.00	77	740 5M▲	740.00	148
400 5M	400.00	80	745 5M•	745.00	149
415 5M	415.00	83	750 5M	750.00	150
420 5M	420.00	84	755 5M▲	755.00	151
425 5M	425.00	85	775 5M	775.00	155
450 5M	450.00	90	790 5M	790.00	158
460 5M	460.00	92	800 5M▲	800.00	160
475 5M	475.00	95	810 5M•	810.00	162
490 5M	490.00	98	825 5M	825.00	165
500 5M	500.00	100	830 5M	830.00	166
520 5M	520.00	104	835 5M▲	835.00	167
525 5M	525.00	105	845 5M•	845.00	169
535 5M	535.00	107	850 5M	850.00	170
540 5M	540.00	108	860 5M	860.00	172
550 5M	550.00	110	870 5M•	870.00	174

Standard width: 9 mm, 15 mm, 25 mm
 • Not available ex stock
 ▲ Double-sided available in HTD

Order example: 1200 = 1200 mm pitch length
 5M = profile
 TIMING BELTS: optibelt OMEGA 1200 5M 15
 15 = 15 mm belt width

PRODUCT DESCRIPTION
optibelt OMEGA TIMING BELTS
STANDARD PRODUCT RANGE

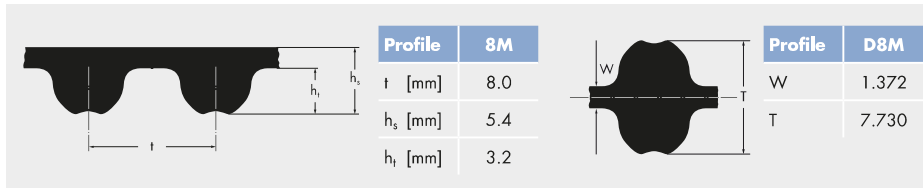


optibelt OMEGA 5M					
Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
890 5M▲	890.00	178	2250 5M	2250.00	450
900 5M▲	900.00	180	2350 5M	2350.00	470
920 5M•	920.00	184	2525 5M	2525.00	505
925 5M	925.00	185			
935 5M	935.00	187			
940 5M	940.00	188			
950 5M	950.00	190			
960 5M•	960.00	192			
965 5M	965.00	193			
975 5M	975.00	195			
980 5M	980.00	196			
985 5M•	985.00	197			
1000 5M▲	1000.00	200			
1025 5M	1025.00	205			
1035 5M	1035.00	207			
1050 5M▲	1050.00	210			
1100 5M	1100.00	220			
1125 5M▲	1125.00	225			
1135 5M	1135.00	227			
1200 5M▲	1200.00	240			
1270 5M	1270.00	254			
1350 5M•	1350.00	270			
1380 5M	1380.00	276			
1400 5M	1400.00	280			
1420 5M	1420.00	284			
1425 5M	1425.00	285			
1500 5M	1500.00	300			
1595 5M	1595.00	319			
1690 5M	1690.00	338			
1790 5M	1790.00	358			
1800 5M	1800.00	360			
1870 5M	1870.00	374			
1895 5M	1895.00	379			
2000 5M	2000.00	400			
2110 5M	2110.00	422			

Standard width: 9 mm, 15 mm, 25 mm
 • Not available ex stock
 ▲ Doublesided available in HTD

Order example: 1200 = 1200 mm pitch length
 5M = profile
 TIMING BELTS: optibelt OMEGA 1200 5M 15
 15 = 15 mm belt width

PRODUCT DESCRIPTION
optibelt OMEGA TIMING BELTS
STANDARD PRODUCT RANGE



optibelt OMEGA 8M								
Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
288 8M	288.00	36	912 8M	912.00	114	1432 8M (HTD)	1432.00	179
320 8M (HTD)	320.00	40	920 8M▲	920.00	115	1440 8M■	1440.00	180
352 8M	352.00	44	936 8M	936.00	117	1480 8M	1480.00	185
376 8M	376.00	47	960 8M▲	960.00	120	1520 8M■	1520.00	190
416 8M	416.00	52	968 8M	968.00	121	1552 8M■	1552.00	194
424 8M	424.00	53	976 8M	976.00	122	1584 8M■	1584.00	198
480 8M	480.00	60	1000 8M	1000.00	125	1600 8M■	1600.00	200
512 8M	512.00	64	1040 8M▲	1040.00	130	1680 8M■	1680.00	210
520 8M	520.00	65	1056 8M	1056.00	132	1696 8M	1696.00	212
536 8M	536.00	67	1064 8M	1064.00	133	1728 8M■	1728.00	216
560 8M	560.00	70	1080 8M	1080.00	135	1760 8M■	1760.00	220
576 8M	576.00	72	1096 8M	1096.00	137	1800 8M■	1800.00	225
584 8M	584.00	73	1120 8M■	1120.00	140	1896 8M	1896.00	237
600 8M▲	600.00	75	1128 8M■	1128.00	141	1904 8M■	1904.00	238
608 8M	608.00	76	1152 8M●	1152.00	144	1936 8M■	1936.00	242
624 8M	624.00	78	1160 8M■	1160.00	145	2000 8M■	2000.00	250
632 8M	632.00	79	1168 8M	1168.00	146	2080 8M■	2080.00	260
640 8M▲	640.00	80	1184 8M■	1184.00	148	2104 8M■	2104.00	263
656 8M▲	656.00	82	1192 8M●	1192.00	149	2240 8M■	2240.00	280
672 8M●	672.00	84	1200 8M■	1200.00	150	2248 8M■	2248.00	281
680 8M	680.00	85	1216 8M■	1216.00	152	2272 8M■	2272.00	284
712 8M	712.00	89	1224 8M■	1224.00	153	2400 8M■	2400.00	300
720 8M▲	720.00	90	1248 8M■	1248.00	156	2504 8M■	2504.00	313
744 8M●	744.00	93	1256 8M■	1256.00	157	2600 8M■	2600.00	325
760 8M	760.00	95	1264 8M■	1264.00	158	2800 8M■	2800.00	350
776 8M▲	776.00	97	1280 8M■	1280.00	160	3048 8M	3048.00	381
784 8M▲	784.00	98	1296 8M●	1296.00	162	3280 8M■	3280.00	410
792 8M●	792.00	99	1304 8M■	1304.00	163	3600 8M■	3600.00	450
800 8M▲	800.00	100	1320 8M	1320.00	165	4400 8M*●	4400.00	550
824 8M	824.00	103	1328 8M■	1328.00	166			
840 8M	840.00	105	1344 8M■	1344.00	168			
848 8M	848.00	106	1360 8M	1360.00	170			
856 8M	856.00	107	1392 8M	1392.00	174			
880 8M▲	880.00	110	1400 8M■	1400.00	175			
896 8M	896.00	112	1424 8M■	1424.00	178			

Standard width: 20 mm, 30 mm, 50 mm, 85 mm

● Not available ex stock

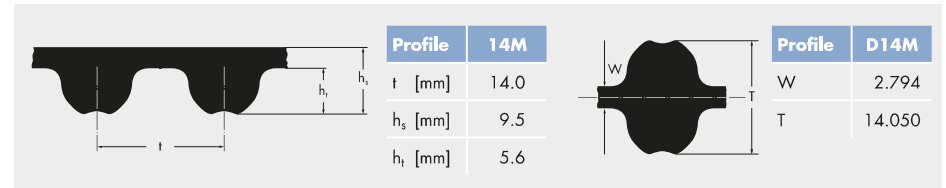
▲ Double-sided available in HTD ■ Double-sided available in OMEGA on request * Profile on request

Order example:

TIMING BELTS: optibelt OMEGA 1200 8M 50

1200 = 1200 mm pitch length
 8M = profile
 50 = 50 mm belt width

PRODUCT DESCRIPTION
optibelt OMEGA TIMING BELTS
STANDARD PRODUCT RANGE



optibelt OMEGA 14M					
Belt designation	Pitch length [mm]	Number of teeth	Belt designation	Pitch length [mm]	Number of teeth
966 14M▲	966.00	69	2800 14M	2800.00	200
1092 14M	1092.00	78	3150 14M	3150.00	225
1190 14M▲	1190.00	85	3360 14M	3360.00	240
1344 14M	1344.00	96	3500 14M	3500.00	250
1400 14M▲	1400.00	100	3850 14M	3850.00	275
1456 14M	1456.00	104	4004 14M*●	4004.00	286
1512 14M	1512.00	108	4326 14M	4326.00	309
1610 14M▲	1610.00	115	4578 14M	4578.00	327
1680 14M	1680.00	120			
1778 14M▲	1778.00	127			
1890 14M▲	1890.00	135			
2100 14M▲	2100.00	150			
2310 14M▲	2310.00	165			
2450 14M	2450.00	175			
2590 14M	2590.00	185			

Standard width: 40 mm, 55 mm, 85 mm, 115 mm, 170 mm

● Not available ex stock

▲ Double-sided available in HTD * Profile on request

Order example:

TIMING BELTS: optibelt OMEGA 1400 14M 55

1400 = 1400 mm pitch length
 14M = profile
 55 = 55 mm belt width