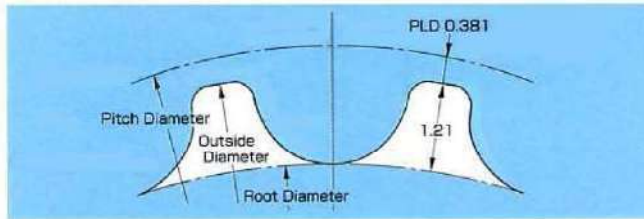


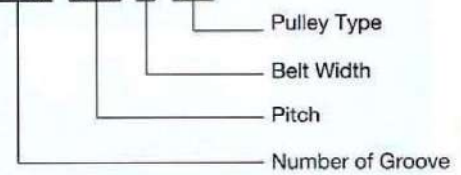
HTD 3M Pulley

Pulley Groove Profile



Pully Code

3mm Pitch **P30-3M-9-6F**



Pulley Type

Code	6	6F
Type		

W·A·fb Dimensions for standard belt width (mm)

Belt Width	6	9	15
W	11	14	20
A _{0.2}	7.3	10.3	16.3
fb	1.85	1.85	1.85

Pulley Dimension Table

Unit mm

No. of Grooves	PD	OD	FID	FOD
10	9.55	8.79	6	13
11	10.50	9.74	7	14
12	11.46	10.70	7	15
13	12.41	11.65	8	16
14	13.37	12.61	9	17
15	14.32	13.56	10	18
16	15.28	14.52	11	19
17	16.23	15.47	12	20
18	17.19	16.43	12	21
19	18.14	17.38	13	22
20	19.10	18.34	14	23
21	20.05	19.29	15	24
22	21.01	20.25	16	24
23	21.96	21.20	17	25
24	22.92	22.16	18	26
25	23.87	23.11	18	27
26	24.83	24.07	19	28
27	25.78	25.02	20	29
28	26.74	25.98	21	30
29	27.69	26.93	22	31
30	28.65	27.89	23	32
31	29.60	28.84	24	33
32	30.56	29.80	25	34
33	31.51	30.75	26	35
34	32.47	31.71	27	36
35	33.42	32.66	28	37
36	34.38	33.62	29	38
37	35.33	34.57	30	39
38	36.29	35.53	31	40
39	37.24	36.48	32	41
40	38.20	37.44	33	42
41	39.15	38.39	34	43
42	40.11	39.35	34	44
43	41.06	40.30	35	45
44	42.02	41.25	36	46
45	42.97	42.21	37	47
46	43.93	43.16	38	48
47	44.88	44.12	39	49
48	45.84	45.07	40	49
49	46.79	46.03	41	50
50	47.75	46.98	42	51

No. of Grooves	PD	OD	FID	FOD
51	48.70	47.94	43	52
52	49.66	48.89	44	53
53	50.61	49.85	45	54
54	51.57	50.80	46	55
55	52.52	51.76	47	56
56	53.48	52.71	48	57
57	54.43	53.67	49	58
58	55.39	54.62	50	59
59	56.34	55.58	51	60
60	57.30	56.53	52	61
61	58.25	57.49	53	62
62	59.21	58.44	54	63
63	60.16	59.40	55	64
64	61.12	60.35	56	65
65	62.07	61.31	56	66
66	63.03	62.26	57	67
67	63.98	63.22	58	68
68	64.94	64.17	59	69
69	65.89	65.13	60	70
70	66.85	66.08	61	70
71	67.80	67.04	62	71
72	68.75	67.99	63	72
73	69.71	68.95	64	73
74	70.66	69.90	65	74
75	71.62	70.86	66	75
76	72.57	71.81	67	76
77	73.53	72.77	68	77
78	74.48	73.72	69	78
79	75.44	74.68	70	79
80	76.39	75.63	71	80
81	77.35	76.59	72	81
82	78.30	77.54	73	82
83	79.26	78.50	74	83
84	80.21	79.45	75	84
85	81.17	80.41	76	85
86	82.12	81.36	76	86
87	83.08	82.32	77	87
88	84.03	83.27	78	88
89	84.99	84.23	79	89
90	85.94	85.18	80	90
91	86.90	86.14	81	91
92	87.85	87.09	82	91
93	88.81	88.05	83	92
94	89.76	89.00	84	93
95	90.72	89.96	85	94

No. of Grooves	PD	OD	FID	FOD
96	91.67	90.91	86	95
97	92.63	91.87	87	96
98	93.58	92.82	88	97
99	94.54	93.78	89	98
100	95.49	94.73	90	99
101	96.45	95.69	90	100
102	97.40	96.64	91	101
103	98.36	97.60	92	102
104	99.31	98.55	93	103
105	100.27	99.51	94	104
106	101.22	100.46	95	105
107	102.18	101.42	96	106
108	103.13	102.37	97	107
109	104.09	103.33	98	108
110	105.04	104.28	99	109
111	106.00	105.24	100	110
112	106.95	106.19	101	111
113	107.91	107.15	102	112
114	108.86	108.10	103	113
115	109.82	109.05	104	113
116	110.77	110.01	105	114
117	111.73	110.96	106	115
118	112.68	111.92	107	116
119	113.64	112.87	108	117
120	114.59	113.83	109	118
121	115.55	114.78	110	119
122	116.50	115.74	111	120
123	117.46	116.69	112	121
124	118.41	117.65	113	122
125	119.37	118.60	114	123

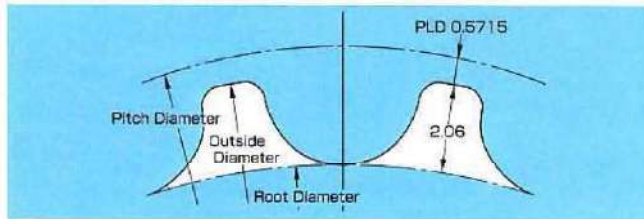
No. of Grooves	PD	OD	FID	FOD
126	120.32	119.56	115	124
127	121.28	120.51	116	125
128	122.23	121.47	117	126
129	123.19	122.42	118	127
130	124.14	123.38	118	128
131	125.10	124.33	119	129
132	126.05	125.29	120	130
133	127.01	126.24	121	131
134	127.96	127.20	122	132
135	128.92	128.15	123	133
136	129.87	129.11	124	134
137	130.83	130.06	125	134
138	131.78	131.02	126	135
139	132.74	131.97	127	136
140	133.69	132.93	128	137
141	134.65	133.88	129	138
142	135.60	134.84	130	139
143	136.55	135.79	131	140
144	137.51	136.75	132	141
145	138.46	137.70	133	142
146	139.42	138.66	134	143
147	140.37	139.61	135	144
148	141.33	140.57	136	145
149	142.28	141.52	137	146
150	143.24	142.48	138	147

Pulley Pitch
 Diameter = $\frac{P \times N}{\pi}$
 Outside Diameter (OD)
 = PD - 2 × PLD

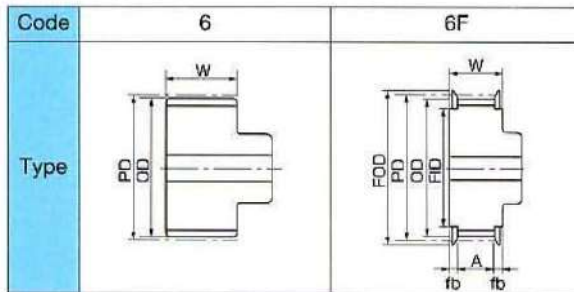
P : Belt Pitch (mm)
 N : Number of Grooves
 π : Ratio of Circumference
 3M · PLD : 0.381mm

HTD 5M Pulley

Pulley Groove Profile

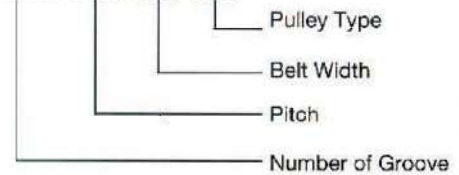


Pulley Type



Pully Code

5mm Pitch **P30-5M-15-6F**



W·A·fb Dimensions for standard belt width (mm)

Belt Width	9.0	15.0	20.0	25.0	30.0	40.0
W	14.0	20.0	25.0	30.0	35.0	45.0
A _{0.2}	10.3	16.3	21.3	26.3	31.3	41.3
fb	1.85	1.85	1.85	1.85	1.85	1.85

Pulley Dimension Table

No. of Grooves	PD	OD	FID	FOD
14	22.28	21.14	16	26
15	23.87	22.73	17	27
16	25.46	24.32	19	29
17	27.06	25.91	20	31
18	28.65	27.50	22	32
19	30.24	29.10	23	34
20	31.83	30.69	24	35
21	33.42	32.28	26	37
22	35.01	33.87	27	39
23	36.61	35.46	29	40
24	38.20	37.05	30	42
25	39.79	38.65	32	43
26	41.38	40.24	33	45
27	42.97	41.83	34	47
28	44.56	43.42	36	48
29	46.15	45.01	38	50
30	47.75	46.60	39	51
31	49.34	48.20	41	53
32	50.93	49.79	42	55
33	52.52	51.38	44	56
34	54.11	52.97	46	58
35	55.70	54.56	47	59
36	57.30	56.15	49	61
37	58.89	57.74	50	63
38	60.48	59.34	52	64
39	62.07	60.93	54	66
40	63.66	62.52	55	67
41	65.25	64.11	57	69
42	66.85	65.70	58	71
43	68.44	67.29	60	72
44	70.03	68.89	62	74
45	71.62	70.48	63	75
46	73.21	72.07	65	77
47	74.80	73.66	66	79
48	76.39	75.25	68	80
49	77.99	76.84	69	82
50	79.58	78.43	71	83
51	81.17	80.03	73	85
52	82.76	81.62	74	86
53	84.35	83.21	76	88
54	85.94	84.80	77	90
55	87.54	86.39	79	91

No. of Grooves	PD	OD	FID	FOD
56	89.13	87.98	81	93
57	90.72	89.58	82	94
58	92.31	91.17	84	96
59	93.90	92.76	85	98
60	95.49	94.35	87	99
61	97.08	95.94	89	101
62	98.68	97.53	90	102
63	100.27	99.12	92	104
64	101.86	100.72	93	106
65	103.45	102.31	95	107
66	105.04	103.90	96	109
67	106.63	105.49	98	110
68	108.23	107.08	100	112
69	109.82	108.67	101	114
70	111.41	110.27	103	115
71	113.00	111.86	104	117
72	114.59	113.45	106	118
73	116.18	115.04	108	120
74	117.77	116.63	109	122
75	119.37	118.22	111	123
76	120.96	119.81	112	125
77	122.55	121.41	114	126
78	124.14	123.00	116	128
79	125.73	124.59	117	129
80	127.32	126.18	119	131
81	128.92	127.77	120	133
82	130.51	129.36	122	134
83	132.10	130.96	124	136
84	133.69	132.55	125	137
85	135.28	134.14	127	139
86	136.87	135.73	128	141
87	138.46	137.32	130	142
88	140.06	138.91	132	144
89	141.65	140.50	133	145
90	143.24	142.10	135	147
91	144.83	143.69	136	149
92	146.42	145.28	138	150
93	148.01	146.87	139	152
94	149.61	148.46	141	153
95	151.20	150.05	143	155
96	152.79	151.65	144	157
97	154.38	153.24	146	158
98	155.97	154.83	147	160
99	157.56	156.42	149	161
100	159.15	158.01	151	163

No. of Grooves	PD	OD	FID	FOD
101	160.75	159.60	152	165
102	162.34	161.20	154	166
103	163.93	162.79	155	168
104	165.52	164.38	157	169
105	167.11	165.97	158	171
106	168.70	167.56	160	172
107	170.30	169.15	162	174
108	171.89	170.74	163	176
109	173.48	172.34	165	177
110	175.07	173.93	166	179
111	176.66	175.52	168	180
112	178.25	177.11	170	182
113	179.85	178.70	171	184
114	181.44	180.29	173	185
115	183.03	181.89	174	187
116	184.62	183.48	176	188
117	186.21	185.07	178	190
118	187.80	186.66	179	192
119	189.39	188.25	181	193
120	190.99	189.84	182	195
121	192.58	191.43	184	196
122	194.17	193.03	186	198
123	195.76	194.62	187	200
124	197.35	196.21	189	201
125	198.94	197.80	190	203

No. of Grooves	PD	OD	FID	FOD
126	200.54	199.39	192	204
127	202.13	200.98	193	206
128	203.72	202.58	195	207
129	205.31	204.17	197	209
130	206.90	205.76	198	211
131	208.49	207.35	200	212
132	210.08	208.94	201	214
133	211.68	210.53	203	215
134	213.27	212.12	205	217
135	214.86	213.72	206	219
136	216.45	215.31	208	220
137	218.04	216.90	209	222
138	219.63	218.49	211	223
139	221.23	220.08	213	225
140	222.82	221.67	214	227
141	224.41	223.27	216	228
142	226.00	224.86	217	230
143	227.59	226.45	219	231
144	229.18	228.04	221	233
145	230.77	229.63	222	235
146	232.37	231.22	224	236
147	233.96	232.81	225	238
148	235.55	234.41	227	239
149	237.14	236.00	229	241
150	238.73	237.59	230	242

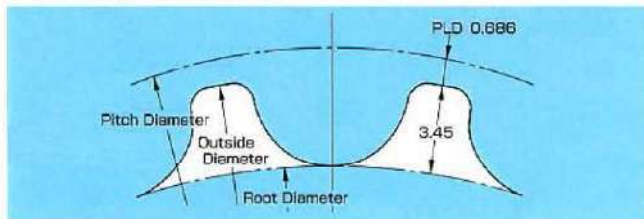
Pulley Pitch Diameter (PD) = $\frac{P \times N}{\pi}$

Outside Diameter (OD) = PD - 2 × PLD

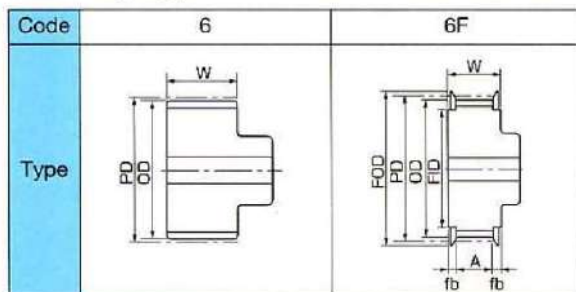
P : Belt Pitch (mm)
N : No. of Grooves
π : Ratio of Circumference
5M · PLD : 0.5715 mm

HTD 8M Pulley

Pulley Groove Profile

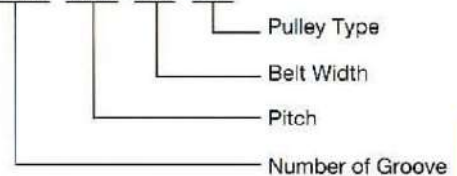


Pulley Type



Pully Code

8mm Pitch **P40-8M-20-6F**



W-A-fb Dimensions for standard belt width (mm)

Belt Width	20.0	25.0	30.0	40.0	50.0	60.0	70.0	85.0
W	28.0	33.0	38.0	48.0	59.0	69.0	79.0	95.0
A _{-0.2}	21.7	26.7	31.7	41.7	52.7	62.7	72.7	88.7
fb	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15

Pulley Dimension Table

No. of Grooves	PD	OD	FID	FOD
20	50.93	49.56	40	62
21	53.48	52.10	40	62
22	56.02	54.65	45	64
23	58.57	57.20	47	67
24	61.12	59.74	50	70
25	63.66	62.29	52	72
26	66.21	64.84	54	75
27	68.75	67.38	57	77
28	71.30	69.93	59	80
29	73.85	72.48	62	82
30	76.39	75.02	64	85
31	78.94	77.57	67	88
32	81.49	80.12	69	90
33	84.03	82.66	71	93
34	86.58	85.21	74	95
35	89.13	87.75	76	98
36	91.67	90.30	79	100
37	94.22	92.85	81	103
38	96.77	95.39	84	105
39	99.31	97.94	86	108
40	101.86	100.49	89	110
41	104.41	103.03	92	113
42	106.95	105.58	94	116
43	109.50	108.13	97	118
44	112.05	110.67	99	121
45	114.59	113.22	102	123
46	117.14	115.77	104	126
47	119.68	118.31	107	128
48	122.23	120.86	109	131
49	124.78	123.41	112	133
50	127.32	125.95	114	136
51	129.87	128.50	117	139
52	132.42	131.04	119	141
53	134.96	133.59	122	143
54	137.51	136.14	125	146
55	140.06	138.68	127	149
56	142.60	141.23	130	151
57	145.15	143.78	132	154
58	147.70	146.32	135	156
59	150.24	148.87	137	159
60	152.79	151.42	140	161

No. of Grooves	PD	OD	FID	FOD
61	155.34	153.96	142	164
62	157.88	156.51	145	166
63	160.43	159.06	147	169
64	162.97	161.60	150	172
65	165.52	164.15	153	174
66	168.07	166.70	155	177
67	170.61	169.24	158	179
68	173.16	171.79	160	182
69	175.71	174.34	163	184
70	178.25	176.88	165	187
71	180.80	179.43	168	190
72	183.35	181.97	171	192
73	185.89	184.52	173	195
74	188.44	187.07	175	197
75	190.99	189.61	178	200
76	193.53	192.16	180	202
77	196.08	194.71	183	205
78	198.63	197.25	186	207
79	201.17	199.80	188	210
80	203.72	202.35	191	212
81	206.26	204.89	193	215
82	208.81	207.44	196	218
83	211.36	209.99	198	220
84	213.90	212.53	201	223
85	216.45	215.08	203	225
86	219.00	217.63	206	228
87	221.54	220.17	208	230
88	224.09	222.72	211	233
89	226.64	225.26	214	235
90	229.18	227.81	216	238
91	231.73	230.36	219	240
92	234.28	232.90	221	243
93	236.82	235.45	224	246
94	239.37	238.00	226	248
95	241.92	240.54	229	251
96	244.46	243.09	231	253
97	247.01	245.64	234	256
98	249.55	248.18	236	258
99	252.10	250.73	239	261
100	254.65	253.28	242	263
101	257.19	255.82	244	266
102	259.74	258.37	247	268
103	262.29	260.92	249	271
104	264.83	263.46	252	274
105	267.38	266.01	254	276

No. of Grooves	PD	OD	FID	FOD
106	269.93	268.55	257	279
107	272.47	271.10	259	281
108	275.02	273.65	262	284
109	277.57	276.19	264	286
110	280.11	278.74	267	289
111	282.66	281.29	270	291
112	285.21	283.83	272	294
113	287.75	286.38	275	296
114	290.30	288.93	277	299
115	292.85	291.47	280	302
116	295.39	294.02	282	304
117	297.94	296.57	285	307
118	300.48	299.11	287	309
119	303.03	301.66	290	312
120	305.58	304.21	292	314
121	308.12	306.75	295	317
122	310.67	309.30	298	319
123	313.22	311.84	300	322
124	315.76	314.39	303	324
125	318.31	316.94	305	327
126	320.86	319.48	308	330
127	323.40	322.03	310	332
128	325.95	324.58	313	335
129	328.50	327.12	315	337
130	331.04	329.67	318	340

No. of Grooves	PD	OD	FID	FOD
131	333.59	332.22	320	342
132	336.14	334.76	323	345
133	338.68	337.31	326	348
134	341.23	339.86	328	350
135	343.77	342.40	331	353
136	346.32	344.95	333	355
137	348.87	347.50	336	358
138	351.41	350.04	338	360
139	353.96	352.59	341	363
140	356.51	355.14	343	365
141	359.05	357.68	346	368
142	361.60	360.23	348	370
143	364.15	362.77	351	373
144	366.69	365.32	354	376
145	369.24	367.87	356	378
146	371.79	370.41	359	381
147	374.33	372.96	361	383
148	376.88	375.51	364	386
149	379.43	378.05	366	388
150	381.97	380.60	369	391

Unit mm

Pulley Pitch

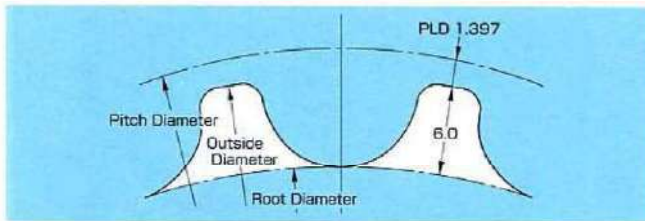
$$\text{Diameter} = \frac{P \times N}{\pi}$$

$$\text{Outside Diameter (OD)} = \text{PD} - 2 \times \text{PLD}$$

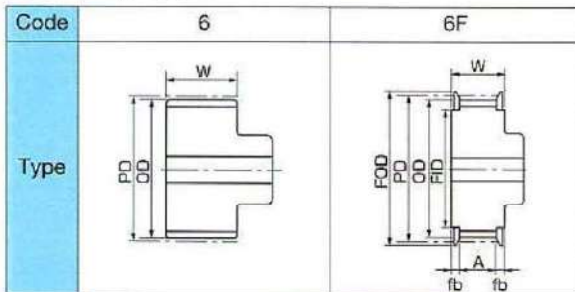
P : Belt Pitch (mm)
N : No. of Grooves
 π : Ratio of Circumference
8M : PLD : 0.686mm

HTD 14M Pulley

Pulley Groove Profile

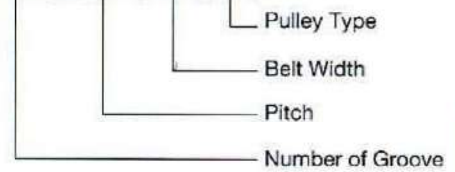


Pulley Type



Pully Code

14mm Pitch **P44-14M-40-6F**



W·A·fb Dimensions for standard belt width (mm)

Belt Width	30.0	40.0	55.0	70.0	85.0	100.0	115.0	130.0	150.0	170.0
W	40.0	50.0	66.0	81.0	97.0	112.0	128.0	143.0	163.0	183.0
A _{0.2}	32.0	42.0	58.0	73.0	89.0	104.0	120.0	135.0	155.0	175.0
fb	4	4	4	4	4	4	4	4	4	4

Pulley Dimension Table

No. of Grooves	PD	OD	FID	FOD
28	124.78	121.98	106	137
29	129.23	126.44	111	141
30	133.69	130.90	115	146
31	138.15	135.35	120	150
32	142.60	139.81	123	155
33	147.06	144.27	128	159
34	151.52	148.72	132	164
35	155.97	153.18	137	168
36	160.43	157.63	140	173
37	164.88	162.09	144	177
38	169.34	166.55	149	182
39	173.80	171.00	153	186
40	178.25	175.46	158	190
41	182.71	179.92	162	195
42	187.17	184.37	167	200
43	191.62	188.83	171	204
44	196.08	193.28	176	208
45	200.54	197.74	180	213
46	204.99	202.20	185	217
47	209.45	206.65	189	222
48	213.90	211.11	194	226
49	218.36	215.57	198	231
50	222.82	220.02	203	235
51	227.27	224.48	207	240
52	231.73	228.94	211	244
53	236.19	233.39	216	249
54	240.64	237.85	220	253
55	245.10	242.30	225	257
56	249.55	246.76	229	262
57	254.01	251.22	234	266
58	258.47	255.67	238	271
59	262.92	260.13	242	275
60	267.38	264.59	247	280
61	271.84	269.04	252	284
62	276.29	273.50	256	289
63	280.75	277.96	261	293
64	285.21	282.41	265	297
65	289.66	286.87	269	302
66	294.12	291.32	274	306
67	298.57	295.78	278	311
68	303.03	300.24	283	315
69	307.49	304.69	287	320
70	311.94	309.15	291	324

No. of Grooves	PD	OD	FID	FOD
71	316.40	313.61	296	329
72	320.86	318.06	301	333
73	325.31	322.52	305	338
74	329.77	326.98	309	342
75	334.23	331.43	314	346
76	338.68	335.89	318	351
77	343.14	340.34	323	355
78	347.59	344.80	327	360
79	352.05	349.26	332	364
80	356.51	353.71	336	369
81	360.96	358.17	341	373
82	365.42	362.63	345	378
83	369.88	367.08	349	382
84	374.33	371.54	354	387
85	378.79	375.99	358	391
86	383.25	380.45	363	395
87	387.70	384.91	367	400
88	392.16	389.36	372	404
89	396.61	393.82	376	409
90	401.07	398.28	381	413
91	405.53	402.73	385	418
92	409.98	407.19	390	422
93	414.44	411.65	394	427
94	418.90	416.10	398	431
95	423.35	420.56	403	436
96	427.81	425.01	407	440
97	432.26	429.47	412	445
98	436.72	433.93	416	449
99	441.18	438.38	421	453
100	445.63	442.84	425	458
101	450.09	447.30	430	462
102	454.55	451.75	434	467
103	459.00	456.21	439	471
104	463.46	460.67	443	476
105	467.92	465.12	447	480
106	472.37	469.58	452	485
107	476.83	474.03	456	489
108	481.28	478.49	461	494
109	485.74	482.95	465	498
110	490.20	487.40	470	502
111	494.65	491.86	474	507
112	499.11	496.32	479	511
113	503.57	500.77	483	516
114	508.02	505.23	487	520
115	512.48	509.68	492	525

No. of Grooves	PD	OD	FID	FOD
116	516.94	514.14	496	529
117	521.39	518.60	501	534
118	525.85	523.05	505	538
119	530.30	527.51	510	543
120	534.76	531.97	514	547
121	539.22	536.42	519	552
122	543.67	540.88	523	556
123	548.13	545.34	528	560
124	552.59	549.79	532	565
125	557.04	554.25	537	569
126	561.50	558.70	541	574
127	565.95	563.16	545	578
128	570.41	567.62	550	583
129	574.87	572.07	554	587
130	579.32	576.53	559	592
131	583.78	580.99	563	596
132	588.24	585.44	568	601
133	592.69	589.90	572	605
134	597.15	594.36	577	609
135	601.61	598.81	581	614

No. of Grooves	PD	OD	FID	FOD
136	606.06	603.27	586	618
137	610.52	607.72	590	623
138	614.97	612.18	595	627
139	619.43	616.64	599	632
140	623.89	621.09	603	636
141	628.34	625.55	608	641
142	632.80	630.01	612	645
143	637.26	634.46	617	650
144	641.71	638.92	621	654
145	646.17	643.38	626	659
146	650.63	647.83	630	663
147	655.08	652.29	635	667
148	659.54	656.74	639	672
149	663.99	661.20	644	676
150	668.45	665.66	648	681

Unit mm

Pulley Pitch

$$\text{Diameter} = \frac{P \times N}{\pi}$$

Outside Diameter (OD)

$$= PD - 2 \times PLD$$

P : Belt Pitch (mm)

N : No. of Grooves

π : Ratio of

Circumference

14M · PLD : 1.397mm