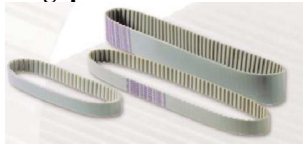
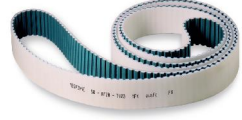
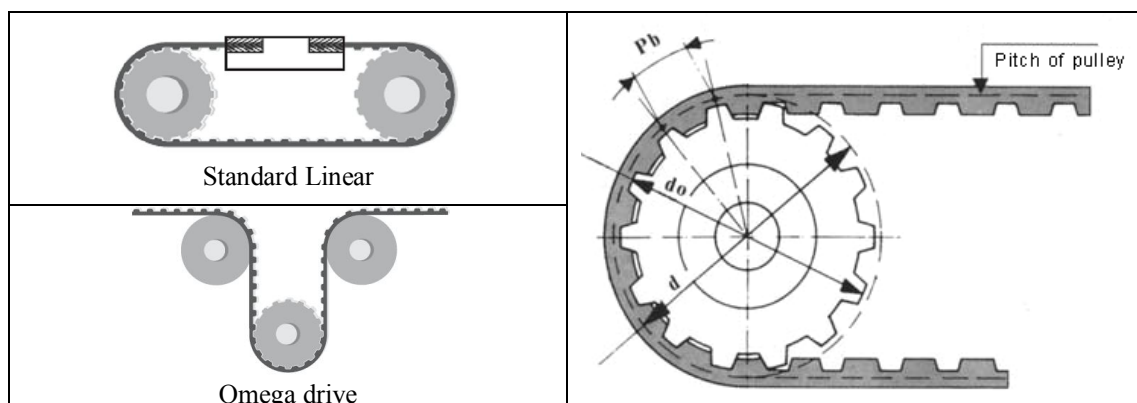


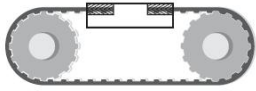
Timing Belt drives

Timing belt drives are ideal for many applications providing quiet running, maintenance free linear motion that is able to run in many challenging industrial environments. Various pitch profiles and pulley sizes are available to suit a wide variety of applications. Ranges are available from stock to suit drive mechanisms from plotters, miniature spray heads to heavy materials transfer applications. Belt drives are ideal for fast repetitive motions.

Megadyne group are one of the largest manufacturers of industrial belts. Their main belt drives fit into the following manufacturing types.

V belt	A full range of conventional V-belt drives
Megadyne rubber 	Endless rubber belts available in a wide range of tooth profiles • Fibreglass reinforcement • Chloroprene rubber for wear resistance • Nylon fabric teeth • High torque RPP silver and gold types • Can be supplied as opened ended linear belt • Ultra-high torque Platinum with similar performance to "Carbon" belts
Megapower 	Endless polyurethane moulded belts • Imperial and trapezoidal (T or AT) profiles • Good environmental resistance • Excellent dimensional stability • Wide range of cord possibilities
Megaflex 	Endless long length polyurethane moulded belts • Lengths from 1.5 to 22.7mtr • Thermoplastic polyurethane • Truly endless Spirally wound steel cord • Wide range of teeth and backing coatings possible
Megalinear 	Open long length linear belting – our specialty • Polyurethane outer for good environment resistance and dimensional stability • Continuous steel cords for high traction loads and rigidity with low settling times • Long lengths • Wide range of cord possibilities • Wide range of teeth and backing coatings possible • Can be joined to with any number of teeth using thermosetting process

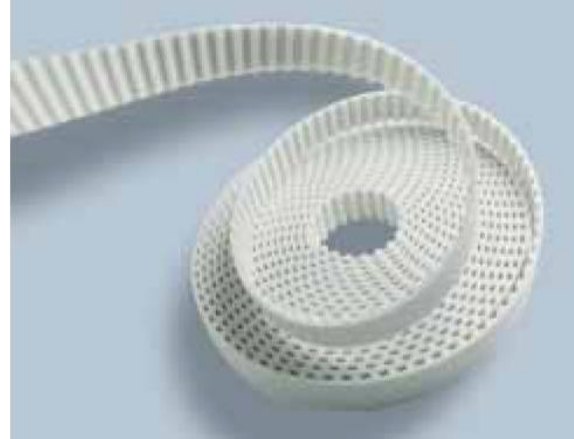
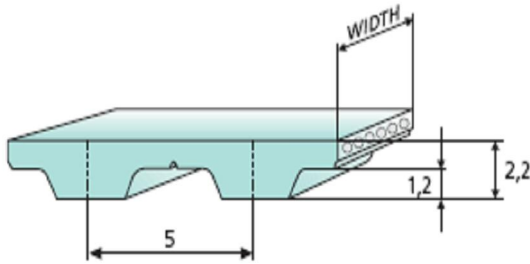




T5 open ended belting

A popular type for smaller applications, stocked in 10mm, 16mm and 25mm widths. Lower rating and accuracy than parabolic RPP pitch.

STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100
Weight (gr/m)	15	20	35	55	70	105	160	220



Standard compound: Polyurethane thermoplastic 92 ShA
 Cord: Steel
 Minimum bend diameter: 15mm (10teeth) (for reverse idler 30mm)

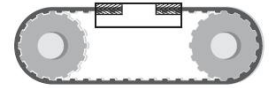
Tooth Resistance

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	24	23	23	22	22	22	20	19	19	18	17	16	15	14	12	11	11	9

Traction Resistance

Belt width (mm)	6	10	16	25	32	50	75	100
Max Traction Load (N)	175	355	475	800	1005	1660	2280	3060
Breaking Strength (N)	710	1425	1900	3205	4035	6650	8665	11635
Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4

Kevlar, High Power, High Flexibility and Stainless steel cords are also available. Special colours, Nylon fabric, FDA compliant, antistatic, cleats and ribs are also possible.



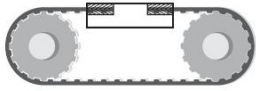
T5 Pulley profile

Standard widths

Type	Belt width		Min.width of pulley		
	Code	Belt width	Double flanged pulley	Single flanged pulley	No Flanged pulley
T5	6	6	8	9	11
	10	10	12	13	15
	16	16	18	20	22
	25	25	27	29	31

Standard Pulleys

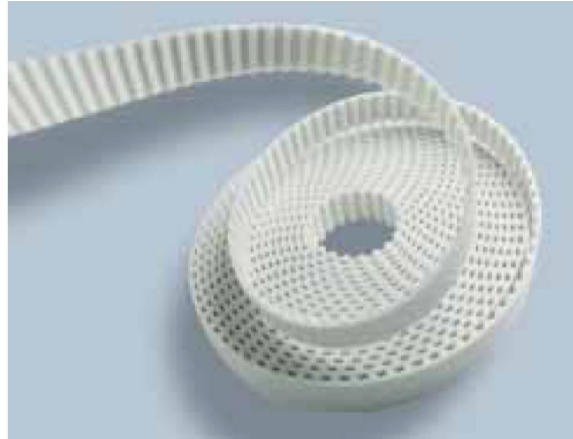
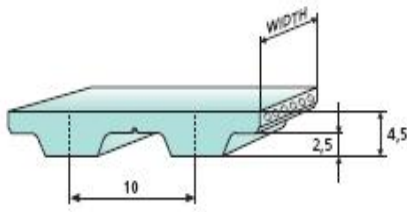
Type	Tooth No.	Pitch diameter	Outside diameter	Flanged OD	Flanged ID	Thickness of Flange	Lead
10-T5	10	15.92	15.07	18	12	1	50.01
11-T5	11	17.51	16.66	22	11	1	55.01
12-T5	12	19.1	18.25	25	15	1	60.00
13-T5	13	20.69	19.84	25	15	1	65.00
14-T5	14	22.28	21.43	25	15	1	69.99
15-T5	15	23.87	23.02	26	17	1	74.99
16-T5	16	25.46	24.61	29	18	1	79.98
17-T5	17	27.06	26.21	29	18	1	85.01
18-T5	18	28.65	27.8	32	21	1	90.01
19-T5	19	30.24	29.39	34.5	24.5	1	95.00
20-T5	20	31.83	30.98	34.5	24.5	1	100.00
21-T5	21	33.42	32.57	37.8	28	1	104.99
22-T5	22	35.01	34.16	40	27	1	109.99
23-T5	23	36.61	35.76	40	27	1	115.01
24-T5	24	38.2	37.35	44	32	1	120.01
25-T5	25	39.79	38.94	44	32	1	125.00
26-T5	26	41.38	40.53	44	32	1	130.00
27-T5	27	42.97	42.12	48	38	1	134.99
28-T5	28	44.56	43.71	48	38	1	139.99
29-T5	29	46.15	45.3	51	36	1	144.98
30-T5	30	47.75	46.9	51	36	1	150.01
32-T5	32	50.93	50.08	54	39	1.5	160.00
34-T5	34	54.11	53.26	58	47	1.5	169.99
36-T5	36	57.3	56.45	61	45	1.5	180.01
38-T5	38	60.48	59.63	64	48	1.5	190.00
40-T5	40	63.66	62.81	68	52	1.5	199.99
42-T5	42	66.85	66	73	61	1.5	210.02
44-T5	44	70.03	69.18	73	61	1.5	220.01
46-T5	46	73.21	72.36	78	66	1.5	230.00
48-T5	48	76.39	75.54	82	64	1.5	239.99
50-T5	50	79.58	78.73	86	70	1.5	250.01
60-T5	60	95.49	94.64	102	90	1.5	299.99



T10 open ended belting

Stocked in 16mm, 25mm, 32mm and 50mm widths. . Lower rating and accuracy than parabolic RPP pitch.

STANDARD WIDTHS (mm)	12	16	25	32	50	75	100	150
Weight (gr/m)	50	75	115	145	225	340	435	680



Standard compound: Polyurethane thermoplastic 92 ShA
 Cord: Steel
 Minimum bend diameter: 36mm (12teeth) (for reverse idler 60mm)

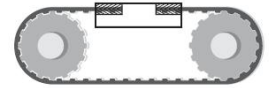
Tooth Resistance

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	51	49	48	47	46	45	41	39	37	36	33	31	28	25	22	20	18	14

Traction Resistance

Belt width (mm)	12	16	25	32	50	75	100	150
Max Traction Load (N)	995	1395	2290	2890	4785	7665	10290	11855
Breaking Strength (N)	3990	5585	9175	11570	19150	29125	39100	41495
Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4

Kevlar, High Power, High Flexibility and Stainless steel cords are also available. Special colours, Nylon fabric, FDA compliant, antistatic, cleats and ribs are also possible.



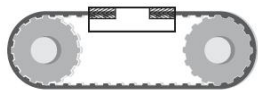
T10 Pulley profile

Standard widths

Type	Belt width		Min.width of pulley		
	Code	Belt width	Double flanged pulley	Single flanged pulley	No Flanged pulley
T10	16	16	18	22	24
	25	25	27	30	33
	32	32	34	37	40

Standard Teeth

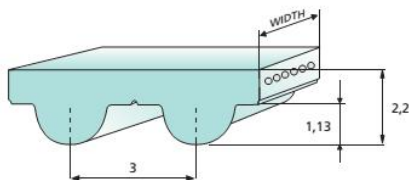
Type	Tooth No.	Pitch diameter	Outside diameter	Flanged OD	Flanged ID	Thickness of Flange	Lead
12-T10	12	38.2	36.35	40	27	1	120.01
13-T10	13	41.38	39.53	49	29	1	130.00
14-T10	14	44.56	42.71	49	29	1	139.99
15-T10	15	47.75	45.9	51	36	1	150.01
16-T10	16	50.93	49.08	54	39	1	160.00
17-T10	17	54.11	52.26	61	45	1.5	169.99
18-T10	18	57.3	55.45	61	45	1.5	180.01
19-T10	19	60.48	58.63	64	48	1.5	190.00
20-T10	20	63.66	61.81	68	52	1.5	199.99
21-T10	21	66.85	65	75	55	1.5	210.02
22-T10	22	70.03	68.18	75	55	1.5	220.01
23-T10	23	73.21	71.36	80	60	1.5	230.00
24-T10	24	76.39	74.54	82	64	1.5	239.99
25-T10	25	79.58	77.73				250.01
26-T10	26	82.76	80.91	90	70	1.5	260.00
27-T10	27	85.94	84.09	90	70	1.5	269.99
28-T10	28	89.13	87.28	98	78	1.5	280.01
29-T10	29	92.31	90.46	98	78	1.5	290.00
30-T10	30	95.49	93.64	102	83	1.5	299.99
32-T10	32	101.86	100.01	106	88	1.5	320.00
34-T10	34	108.23	106.38	115	95	1.5	340.01
36-T10	36	114.59	112.74	123	103	1.5	360.00
38-T10	38	120.96	119.11	131	111	1.5	380.01
40-T10	40	127.32	125.47	131	111	1.5	399.99
42-T10	42	133.67	131.84	138	118	1.5	419.94
44-T10	44	140.06	138.21	146	126	1.5	440.01
46-T10	46	146.42	144.57	153	133	1.5	459.99
48-T10	48	152.79	150.94				480.00
50-T10	50	159.15	157.3				499.98
60-T10	60	190.99	189.14				600.01



MTD3 open ended belting

Ideal for small sized drives, stocked in 10 widths.

STANDARD WIDTHS (mm)	10	15	25	50
Weight (gr/m)	20	60	100	195



Standard compound : Polyurethane thermoplastic 92 ShA
Standard tooth cover : none
Cord: Steel
Min bend diameter: 19mm (20teeth) (reverse idler 30mm)

Tooth Resistance

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	23	23	22	22	22	22	21	20	20	19	18	17	16	15	13	12	11	9

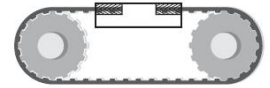
Traction Resistance

Belt width (mm)	10	20	25	50
Max Traction Load (N)	385	775	1010	2060
Breaking Strength (N)	1555	3115	4050	8255
Elongation at MTL (mm/m)	4	4	4	4

Standard Teeth

Type	Tooth No.	Pitch diameter	Outside diameter	Flanged OD	Flanged ID	Thickness of Flange	Lead
15-3M	15	14.32	13.56	18	10	1	44.99
16-3M	16	15.28	14.52	18	10	1	48.00
17-3M	17	16.23	15.47	22	11	1	50.99
18-3M	18	17.19	16.43	22	11	1	54.00
19-3M	19	18.14	17.38	22	11	1	56.99
20-3M	20	19.1	18.34	22	11	1	60.00
21-3M	21	20.05	19.29	22	11	1	62.99
22-3M	22	21.01	20.25	25	15	1	66.00
23-3M	23	21.96	21.2	25	15	1	68.99
24-3M	24	22.92	22.16	26	17	1	72.01
25-3M	25	23.87	23.11	26	17	1	74.99
26-3M	26	24.83	24.07	29	18	1	78.01

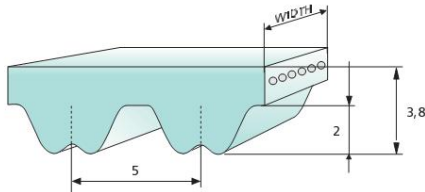
Larger sizes are possible.



RPP5 open ended belting

Can run on standard HTD5 pulleys in the smaller sizes, Stocked in 10, 25 and 50mm widths. RPP profile has better messing characteristics then T or HTD belts and has larger steel cords. This gives more rigid and accurate positioning with minimal backlash.

STANDARD WIDTHS (mm)	10	15	25	30	50	75
Weight (gr/m)	40	60	100	120	195	295



Standard compound : Polyurethane thermoplastic 92 ShA
 Standard tooth cover : nylon fabric (NFT)
 Cord: Steel
 Min bend diameter: 19mm (12teeth) (reverse idler 60mm)

Tooth Resistance

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	37	36	36	36	35	33	35	32	30	30	27	26	24	23	21	19	18	15

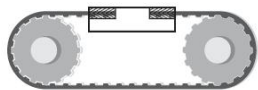
Traction Resistance

Belt width (mm)	10	15	25	30	50	75
Max Traction Load (N)	635	950	1715	2100	3560	5690
Breaking Strength (N)	2545	3815	6870	8400	14255	31640
Elongation at MTL (mm/m)	4	4	4	4	4	4

Standard Teeth

Type	Tooth No.	Pitch diameter	Outside diameter	Flanged OD	Flanged ID	Thickness of Flange	Lead
12-5M	12	19.1	17.94	25	15	1	60.00
14-5M	14	22.28	21.14	25	15	1	69.99
15-5M	15	23.87	22.73	29	18	1	74.99
16-5M	16	25.46	24.32	29	18	1	79.98
17-5M	17	27.06	25.92	32	21	1	85.01
18-5M	18	28.65	27.51	32	21	1	90.01
19-5M	19	30.24	29.1	34.5	24.5	1	95.00
20-5M	20	31.83	30.69	34.5	24.5	1	100.00
21-5M	21	33.42	32.28	40	27	1	104.99
22-5M	22	35.01	33.87	40	27	1	109.99
23-5M	23	36.61	35.47	40	27	1	115.01
24-5M	24	38.2	37.06	44	32	1	120.01

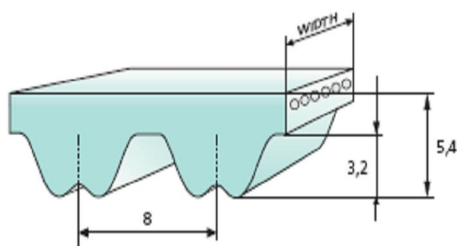
Larger sizes are possible.



RPP8 open ended belting – our recommended pitch

Runs on standard HTD8 pulleys, Stocked in 20, 30 and 50mm widths. RPP profile has better messing characteristics then T or HTD belts and has larger steel cords. This gives more rigid and accurate positioning with minimal backlash.

STANDARD WIDTHS (mm)	10	15	20	30	50	85	100
Weight (gr/m)	65	100	130	195	330	560	655



Standard compound: Polyurethane thermoplastic 92 ShA
 Standard tooth cover: nylon fabric (NFT)
 Cord: Steel
 Minimum bend diameter: 45mm (18teeth) (for reverse idler 100mm)

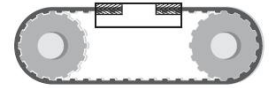
Tooth Resistance

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	76	75	74	73	72	71	65	62	60	57	53	50	45	42	38	35	32	25

Traction Resistance

Belt width (mm)	10	15	20	30	50	85	100
Max Traction Load (N)	1350	2030	2930	4510	7670	14010	16625
Breaking Strength (N)	5415	8120	11730	18050	30685	53245	63175
Elongation at MTL (mm/m)	4	4	4	4	4	4	4

Kevlar and High Power cords are also available. Special colours, antistatic, cleats and ribs are also possible.



8M Pulley profile

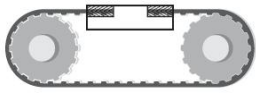
Standard widths

Type	Belt width		Min.width of pulley		
	Code	Belt width	Double flanged pulley	Single flanged pulley	No Flanged pulley
8M	20	20	34	36	38
	30	30	44	46	48
	50	50	54	56	58
	85	85	90	92	94

Standard Teeth

Type	Tooth No.	Pitch diameter	Outside diameter	Flanged OD	Flanged ID	Thickness of Flange	Lead
18-8M	18	45.84	44.46	50	32	1.5	144.01
20-8M	20	50.93	49.56	55	36	1.5	160.00
22-8M	22	56.02	54.65	61	45	1.5	175.99
23-8M	23	58.57	57.2	64	48	1.5	184.00
24-8M	24	61.12	59.75	68	52	1.5	192.01
25-8M	25	63.66	62.29	75	55	1.5	199.99
26-8M	26	66.21	64.84	75	55	1.5	208.00
27-8M	27	68.75	67.38	75	55	1.5	215.98
28-8M	28	71.3	69.93	80	60	1.5	224.00
30-8M	30	76.39	75.02	82	64	1.5	239.99
32-8M	32	81.49	80.12	90	70	1.5	256.01
34-8M	34	86.58	85.21	98	78	1.5	272.00
36-8M	36	91.67	90.3	98	78	1.5	287.99
38-8M	38	96.77	95.4	106	88	1.5	304.01
40-8M	40	101.86	100.49	108.5	90	1.5	320.00
42-8M	42	106.95	105.58	115	95	1.5	335.99
44-8M	44	112.05	110.68	123	103	1.5	352.02
46-8M	46	117.14	115.77	123	103	1.5	368.01
48-8M	48	122.23	120.86	131	111	1.5	384.00
50-8M	50	127.32	125.95	138	118	1.5	399.99
64-8M	64	162.97	161.6				511.99
72-8M	72	183.35	181.98				576.01
80-8M	80	203.72	202.35				640.01
90-8M	90	229.18	227.81				719.99
112-8M	112	285.21	283.84				896.01

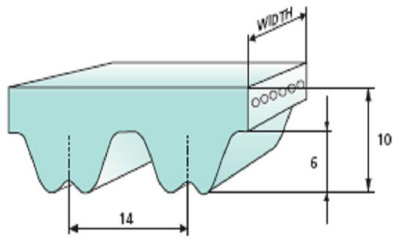
The bold types are stocked in aluminium in most widths.



RPP14 Open ended Belting

Runs on standard HTD14 pulleys, Stocked in 40mm, 55mm and 85mm widths.

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	470	650	1000	1355	1840



Standard compound: Polyurethane thermoplastic 92 ShA
 Standard tooth cover: nylon fabric (NFT)
 Cord: Steel
 Minimum bend diameter: 140mm (32teeth) (for reverse idler 250mm)

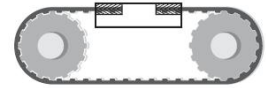
Tooth Resistance

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	140	137	135	133	131	128	118	111	105	101	91	84	75	62	52	40	30	–

Traction Resistance

Belt width (mm)	40	55	85	115	150
Max Traction Load (N)	12160	17600	28000	40820	53850
Breaking Strength (N)	48640	66880	106400	142880	188480
Elongation at MTL (mm/m)	4	4	4	4	4

Special colours, antistatic, cleats and ribs are also possible.



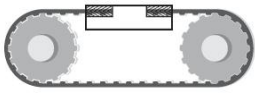
14M Pulley profile

Standard widths

Type	Belt width		Min.width of pulley		
	Code	Belt width	Double flanged pulley	Single flanged pulley	No Flanged pulley
14M	40	40	54	58	62
	55	55	65	68	70
	85	85	95	99	102

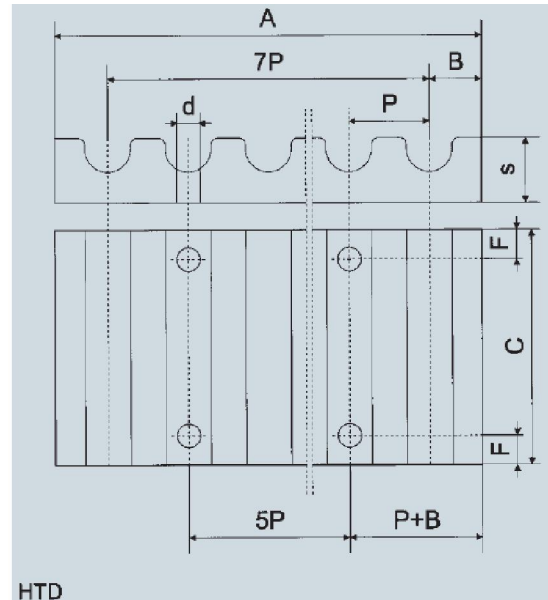
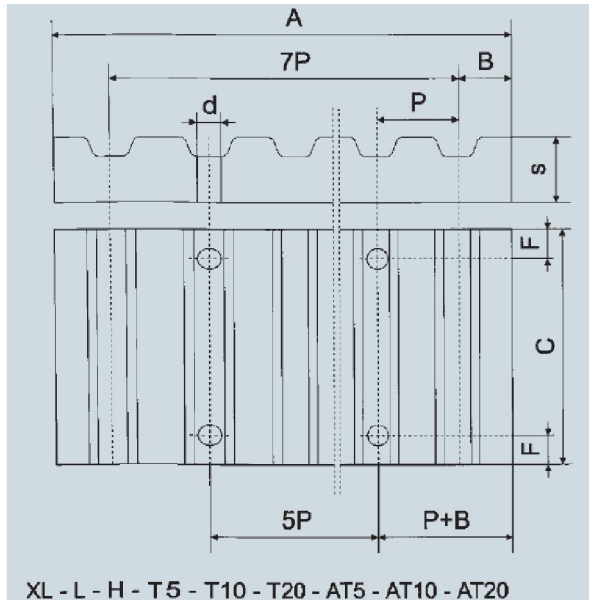
Standard Teeth

Type	Tooth No.	Pitch diameter	Outside diameter	Flanged OD	Flanged ID	Thickness of Flange	Lead
28-14M	28	124.78	121.98	134	108	3.5	392.01
29-14M	29	129.23	126.43	138	112	3.5	405.99
30-14M	30	133.69	130.89	143	117	3.5	420.00
32-14M	32	142.6	139.8	152	126	3.5	447.99
34-14M	34	151.52	148.72	161	135	3.5	476.01
36-14M	36	160.43	157.63	170	144	3.5	504.01
38-14M	38	169.34	166.54	179	153	3.5	532.00
40-14M	40	178.25	175.45	187	161	3.5	559.99
42-14M	42	187.17	184.37	196	170	3.5	588.01
44-14M	44	196.08	193.28	205	179	3.5	616.00
46-14M	46	204.99	202.19				644.00
48-14M	48	213.9	211.1				671.99
50-14M	50	222.82	220.02				700.01
56-14M	56	249.55	246.75				783.98
64-14M	64	285.21	282.41				896.01
72-14M	72	320.86	318.06				1008.01
80-14M	80	356.51	353.71				1120.01
90-14M	90	401.07	398.27				1260.00



Clamping plates

Fabricated plates are the preferred method of fastening linear belts. These avoid pressure points in the belts that can lead to pinching of the belt cords and premature failure.



Dimensions for HTD clamping plates

						Belt width (mm)										
						6	9	10	15	20	25	30	40	50	55	85
Pitch	F	d	B	A	S	C										
5M	6	5,5	3,25	41,5	8	25	28		34		44					
8M	8	9	5	66	15			35	40	45		55		75	110	
14M	10	11	9	116	22						56		71		86 116	

Dimensions for T profile clamping plates

						Belt width (mm)									
						6	10	16	20	25	32	50	75	100	
Pitch	F	d	B	A	S	C									
•T5 •AT5	6	5,5	3,25	41,65	8	25	29	35	39	44	51	69			
•T10 •AT10	8	9	5	80	15		35	41		50	57	75	100	125	
•T20 •AT20	10	11	10	160	20					56	63	81	106	132	