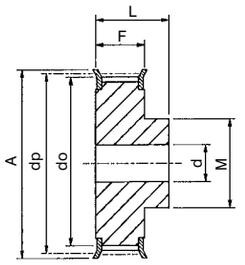
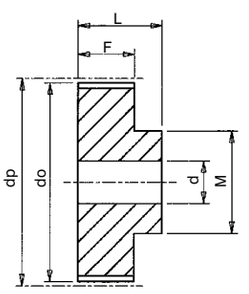
Pulleys for Metric Polyurethane T10 Belts

Pulley Types

The Pulley types referred to in tables are as drawings below. Suffix 'F' indicates pulley has flanges.
Std. Pulleys can be reworked to customers bore and keyswaying requirements.



Type 1F



Type 1

All pulleys machined from aluminium for low weight and inertia, and fitted as indicated with steel flanges.
All dimensions in mm

Catalogue No.	No. Teeth Z	Pulley Type	Pitch Circle Dia. dp	Min. Bore d	Max. Bore d	Ouside Diameter do	Flange Dia. A	Pulley Width F	Bore Length L	Hub Dia. M	Approx. Weight kg
10mm Pitch Pulleys for 16mm Wide Belt Ref. 16T10											
16 T10-12	12	1F	38.20	6	18	36.3	42	21	31	28	0.08
16 T10-14	14	1F	44.56	8	21	42.7	48	21	31	32	0.11
16 T10-15	15	1F	47.75	8	21	45.9	51	21	31	32	0.12
16 T10-16	16	1F	50.93	8	23	49.1	54	21	31	35	0.14
16 T10-18	18	1F	57.30	8	26	55.4	60	21	31	40	0.17
16 T10-19	19	1F	60.48	8	28	58.6	66	21	31	44	0.19
16 T10-20	20	1F	63.66	8	30	61.8	66	21	31	46	0.21
16 T10-22	22	1F	70.03	8	34	68.2	75	21	31	52	0.26
16 T10-24	24	1F	76.39	8	38	74.5	83	21	31	58	0.29
16 T10-25	25	1F	79.58	8	39	77.7	83	21	31	60	0.31
16 T10-26	26	1F	82.76	8	39	80.9	87	21	31	60	0.36
16 T10-27	27	1F	85.94	8	39	84.1	91	21	31	60	0.37
16 T10-28	28	1F	89.13	8	39	87.2	93	21	31	60	0.40
16 T10-30	30	1F	95.49	8	39	93.6	97	21	31	60	0.44
16 T10-32	32	1F	101.86	10	42	100.0	106	21	31	65	0.49
16 T10-36	36	1F	114.59	10	45	112.7	120	21	31	70	0.63
16 T10-40	40	1F	127.32	10	52	125.4	131	21	31	80	0.77
16 T10-44	44	1	140.06	10	57	138.2	–	21	31	88	1.00
16 T10-48	48	1	152.79	16	62	150.9	–	21	31	95	1.09
16 T10-60	60	1	190.99	16	72	189.1	–	21	31	110	1.70
10mm Pitch Pulleys for 25mm Wide Belt Ref. 25T10											
25 T10-12	12	1F	38.20	6	18	36.3	42	30	40	28	0.10
25 T10-14	14	1F	44.56	8	21	42.7	48	30	40	32	0.14
25 T10-15	15	1F	47.75	8	21	45.9	51	30	40	32	0.16
25 T10-16	16	1F	50.93	8	23	49.1	54	30	40	35	0.18
25 T10-18	18	1F	57.30	8	26	55.4	60	30	40	40	0.23
25 T10-19	19	1F	60.48	8	28	58.6	66	30	40	44	0.25
25 T10-20	20	1F	63.66	8	30	61.8	66	30	40	46	0.28
25 T10-22	22	1F	70.03	8	34	68.2	75	30	40	52	0.34
25 T10-24	24	1F	76.39	8	38	74.5	83	30	40	58	0.39
25 T10-25	25	1F	79.58	8	39	77.7	83	30	40	60	0.42
25 T10-26	26	1F	82.76	8	39	80.9	87	30	40	60	0.48
25 T10-27	27	1F	85.94	8	39	84.1	91	30	40	60	0.54
25 T10-28	28	1F	89.13	8	39	87.2	93	30	40	60	0.55
25 T10-30	30	1F	95.49	8	39	93.6	97	30	40	60	0.64
25 T10-32	32	1F	101.86	10	42	100.0	106	30	40	65	0.69
25 T10-36	36	1F	114.59	10	45	112.7	120	30	40	70	0.87
25 T10-40	40	1F	127.32	10	52	125.4	131	30	40	80	1.07
25 T10-44	44	1	140.06	10	57	138.2	–	30	40	88	1.35
25 T10-48	48	1	152.79	16	62	150.9	–	30	40	95	1.52
25 T10-60	60	1	190.99	16	72	189.1	–	30	40	110	2.34
10mm Pitch Pulleys for 32mm Wide Belt Ref. 32T10-											
32 T10-18	18	1F	57.30	10	26	55.4	60	37	47	40	0.26
32 T10-19	19	1F	60.48	10	28	58.6	66	37	47	44	0.28
32 T10-20	20	1F	63.66	12	30	61.8	66	37	47	46	0.32
32 T10-22	22	1F	70.03	12	34	68.2	75	37	47	52	0.40
32 T10-24	24	1F	76.39	12	38	74.5	83	37	47	58	0.48
32 T10-25	25	1F	79.58	12	39	77.7	83	37	47	60	0.53
32 T10-26	26	1F	82.76	12	39	80.9	87	37	47	60	0.57
32 T10-27	27	1F	85.94	12	39	84.1	91	37	47	60	0.60
32 T10-28	28	1F	89.13	12	39	87.2	93	37	47	60	0.64
32 T10-30	30	1F	95.49	12	39	93.6	97	37	47	60	0.74
32 T10-32	32	1F	101.86	12	42	100.0	106	37	47	65	0.85
32 T10-36	36	1F	114.59	16	45	112.7	120	37	47	70	1.07
32 T10-40	40	1F	127.32	16	52	125.4	131	37	47	80	1.32
32 T10-44	44	1	140.06	16	57	138.2	–	37	47	88	1.61
32 T10-48	48	1	152.79	16	62	150.9	–	37	47	95	1.93
32 T10-60	60	1	190.99	16	72	189.1	–	37	47	110	3.00
10mm Pitch Pulleys for 50mm Wide Belt Ref. 50T10											
50 T10-18	18	1F	57.30	10	26	55.4	60	56	66	40	0.43
50 T10-19	19	1F	60.48	10	28	58.6	66	56	66	44	0.47
50 T10-20	20	1F	63.66	12	30	61.8	66	56	66	46	0.52
50 T10-22	22	1F	70.03	12	34	68.2	75	56	66	52	0.57
50 T10-24	24	1F	76.39	12	38	74.5	83	56	66	58	0.74
50 T10-25	25	1F	79.58	12	39	77.7	83	56	66	60	0.77
50 T10-26	26	1F	82.76	12	39	80.9	87	56	66	60	0.82
50 T10-27	27	1F	85.94	12	39	84.1	91	56	66	60	0.91
50 T10-28	28	1F	89.13	12	39	87.2	93	56	66	60	0.96
50 T10-30	30	1F	95.49	12	39	93.6	97	56	66	60	1.17
50 T10-32	32	1F	101.86	12	42	100.0	106	56	66	65	1.30
50 T10-36	36	1F	114.59	16	45	112.7	120	56	66	70	1.64
50 T10-40	40	1F	127.32	16	52	125.4	131	56	66	80	2.00
50 T10-44	44	1	140.06	16	57	138.2	–	56	66	88	2.36
50 T10-48	48	1	152.79	16	62	150.9	–	56	66	95	2.83
50 T10-60	60	1	190.99	16	72	189.1	–	56	66	110	4.37

Pulley Installation

Correct and accurate installation of Timing Drives is essential. Pulley alignment and shaft parallelism is very important as misalignment of the drive will cause unequal loading across the belt width and edge wear of belt on flanges. Pulley alignment can be checked by placing a straight edge against the outside edge of the pulleys and adjusting so contact made evenly across both pulleys.
The shafts should be located within a rigid framework, as any distortion under load could result in a reduction of centre distance which will cause jumping of belt on pulley teeth. If idlers are used they must be locked firmly into position after correct belt tensioning.
Refer to page 10 for additional information on drive installation.