

Timing Pulleys - T10

For Timing Belts, see **P.1504**. For Long Timing Belts, see **P.1507**. For Keyless High Torque Timing Pulleys, see **P.1475, 1476**. For Idlers with Teeth, see **P.1489**.

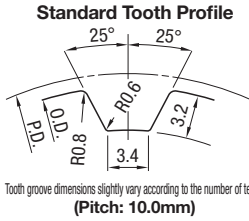


RoHS10

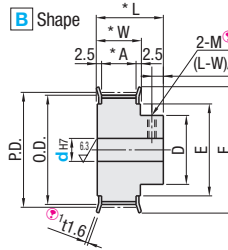
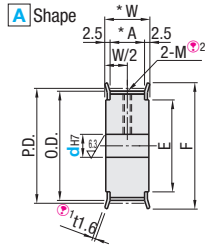
Type	Belt Width						Material ¹		Surface Treatment	Accessory ¹ Set Screws
	15mm T10150	20mm T10200	25mm T10250	30mm T10300	40mm T10400	50mm T10500	Pulley	Flange		
TTPA	●	●	●	●	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize Black Anodize Hard Clear Anodize ² Electroless Nickel Plating	SUS304
TPPB	●	●	●	●	●	●				
TPPK	●	●	●	●	●	●				
TPPN	●	●	●	●	●	●				
TTPT	●	●	●	●	●	●	S45C Equivalent	SPCC	- Black Oxide Electroless Nickel Plating	SCM435 (Black Oxide)
TPPM	●	●	●	●	●	●				
TTPP	●	●	●	●	●	●				

Flange is already swaged, and set screws are included with for Shaft Bores P, N and C. ¹The above material and accessory might be changed to the ones equivalent to the originals. ²Hard Clear Anodize: Film Hardness 300HV ~

Pulley Shape



Tooth groove dimensions slightly vary according to the number of teeth.
(Pitch: 10.0mm)



Tapped Hole Dimensions (Shaft Bore Specs.: P, N, C)

dH7 Shaft Bore I.D.	M (Coarse)	Accessory Set Screw
8~12	M4	M4x3
13~17	M5	M5x4
18~30	M6	M6x5
31~45	M8	M8x6
46~70	M10	M10x8

- Aluminum flanges will have a thickness of 1.5.
- t=2.0 for 34, 50 and 60 toothed pulleys. (Machined Flange)
- Shaft Bore Specs.: H (Round hole), V or F (Stepped Hole), Y (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

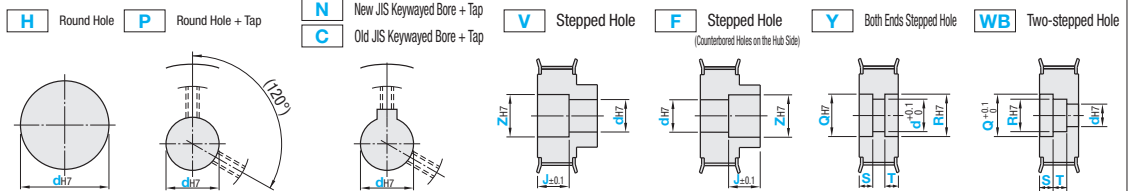
Number of Teeth / Dimension

mm	Number of Teeth																			
	12	14	15	16	18	20	22	24	25	26	28	30	32	34	36	40	44	48	50	60
P.D.	38.20	44.56	47.75	50.93	57.30	63.66	70.03	76.39	79.58	82.76	89.13	95.49	101.86	108.23	114.59	127.32	140.06	152.79	159.15	190.99
O.D.	36.35	42.70	45.90	49.05	55.45	61.80	68.15	74.55	77.70	80.90	87.25	93.65	100.00	106.40	112.75	125.45	138.20	150.95	157.30	189.10
D	-	32	33	37	40	47	50	60	63	63	70	75	85	90	95	100	100	100	100	100
F	40	48	52	58	61	67	80	87	87	87	95	104	111	115	123	135	152	160	170	200
E	27	35	36	40	45	50	60	67	67	67	75	84	90	95	102	115	130	140	150	175

Belt Nominal Width / Dimension

mm	Nominal					
	T10150	T10200	T10250	T10300	T10400	T10500
A	17	22	27	32	43	53
W	22	27	32	37	48	58
L (Number of Teeth 12-40)	37	42	47	52	61	70
L (Number of Teeth 44-60)	37	42	52	57	63	70

Shaft Bore Specs. Select shaft bore spec mark and each dim. from the table below. Surface treatment may not be applied to shaft bores.



- No tapped holes or set screws.
- For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks.
- For Keyway Dimension Details, see P1413. Specify NK10 when selecting "New JIS Keyway Bore" + "Shaft Bore Dia. 10" + "Keyway Width 4.0mm (Height 1.8mm)".
- No tapped holes or set screws.
- Applicable to Shape B only.
- Applicable to Shape A only.
- Shaft Bore Dia. is +0.1/0 only.
- No tapped holes or set screws.
- No tapped holes or set screws.

Part Number	Type	Number of Teeth	Type Nominal Width	Pulley Shape	Pulley Shape																								
					Shaft Bore Specs. "A": 1mm Increments "B": Selectable						Shaft Bore Specs. "B": 1mm Increments "A": Selectable																		
					H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	Stepped Hole		Both Ends Stepped Hole		WB Two-stepped Hole		H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	Stepped Hole												
12	Aluminum	12	T10150	A	8-23	8-18	8-18	8-21	10-23			8-21	10-23			10-28	10-22	10-20	10-26	12-28									
14					10-31	10-26	10-26	10-26	10-29	12-31			10-29	12-31			10-29	10-23	10-20	10-27	12-29								
15					10-32	10-26	10-26	10-30	12-32			10-30	12-32			12-33	12-27	12-22	12-31	14-33									
16					12-36	12-30	12-30	12-34	14-36			12-34	14-36			12-39	14-41			12-36	12-30	12-25	12-34	14-36					
18					12-41	12-30	12-30	12-39	14-41			12-39	14-41			12-44	14-46			12-43	12-35	12-29	12-41	14-43					
20					12-46	12-40	12-40	12-44	14-46			12-44	14-46			12-56	12-48	12-48	12-54	14-56			12-46	12-38	12-32	12-44	14-46		
22		12-56	12-48	12-48	12-54	14-56			12-54	14-56			12-63	12-50	12-50	12-61	14-63			12-56	12-46	12-40	12-54	14-56					
24		12-63	12-50	12-50	12-61	14-63			12-61	14-63			12-63	12-50	12-50	12-61	14-63			12-61	14-63			12-59	12-49	12-43	12-57	14-59	
25		12-63	12-50	12-50	12-61	14-63			12-61	14-63			12-69	12-49	12-43	12-57	14-59			12-59	12-49	12-43	12-57	14-59					
26		12-63	12-50	12-50	12-61	14-63			12-61	14-63			12-66	14-68			12-66	14-68			12-66	14-68			12-69	12-49	12-43	12-57	14-59
28		12-68	12-57	12-50	12-66	14-68			12-66	14-68			12-74	14-76			12-71	12-61	12-50	12-69	14-71			12-70	20-80	20-70	20-55	20-82	22-81
30		12-76	12-65	12-55	12-74	14-76			12-74	14-76			20-80	20-70	20-55	20-80	22-82			20-80	20-70	20-55	20-82	22-81					
32	20-80	20-70	20-55	20-80	22-82			20-80	22-82			20-85	20-70	20-55	20-83	22-84			20-80	20-70	20-55	20-83	22-81						
34	20-80	20-70	20-55	20-80	22-82			20-80	22-82			20-85	20-70	20-55	20-83	22-84			20-80	20-70	20-55	20-83	22-81						
36	20-85	20-70	20-55	20-83	22-84			20-83	22-84			20-85	20-70	20-55	20-83	22-85			20-85	20-70	20-55	20-83	22-81						
40	20-85	20-70	20-55	20-83	22-85			20-83	22-85			20-85	20-70	20-55	20-83	22-85			20-85	20-70	20-55	20-83	22-81						
44	20-85	20-70	20-55	20-83	22-85			20-83	22-85			20-85	20-70	20-55	20-83	22-85			20-85	20-70	20-55	20-83	22-81						
48	20-85	20-70	20-55	20-83	22-85			20-83	22-85			20-85	20-70	20-55	20-83	22-85			20-85	20-70	20-55	20-83	22-81						
50	20-85	20-70	20-55	20-83	22-85			20-83	22-85			20-85	20-70	20-55	20-83	22-85			20-85	20-70	20-55	20-83	22-81						
60	20-85	20-70	20-55	20-83	22-85			20-83	22-85			20-85	20-70	20-55	20-83	22-85			20-85	20-70	20-55	20-83	22-81						

Shaft Bore Dia. 9, 51~54 are not available for Shaft Bore Specs. N. Shaft Bore Dia. 8, 11, 13, 14, 17, 21~55 are not available for Shaft Bore Spec. C.



Ordering Example

Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J - Q - R - S - T

(Shaft Bore Specs.: H, P, N, C) TPA14T10500 - A - NK10

(Shaft Bore Specs.: V, F) TTPA48T10500 - B - V20 - Z38 - J23.5

(Shaft Bore Specs.: Y, WB) TTPA24T10250 - A - Y25 - Q37 - R37 - S7 - T7