

# Timing Pulleys - T5

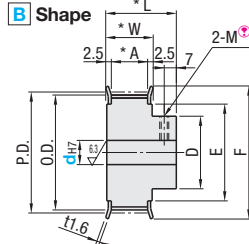
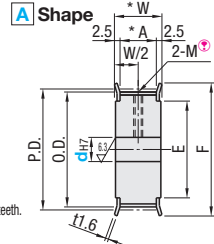
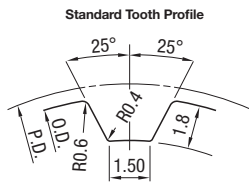
For Timing Belts, see **P.1504**. For Long Timing Belts, see **P.1507**. For Keyless High Torque Timing Pulleys, see **P.1473, 1474**. For Idlers with Teeth, see **P.1489**.



Type	Belt Width				Material <sup>1</sup>		Surface Treatment	Accessory <sup>1</sup> Set Screws
	10mm	15mm	20mm	25mm	Pulley	Flange		
TTPA	●	●	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize Black Anodize Hard Clear Anodize <sup>2</sup> Electroless Nickel Plating	SUS304
TTPB	●	●	●	●				
TTPK	●	●	●	●				
TTPN	●	●	●	●				
TTPT	●	●	●	●	S45C Equivalent	SPCC	- Black Oxide Electroless Nickel Plating	SCM435 (Black Oxide)
TTPM	●	●	●	●				
TTPP	●	●	●	●				

<sup>1</sup> Flange is already swaged, and set screws are included with for Shaft Bore P, N and C. <sup>2</sup> The above material and accessory might be changed to the ones equivalent to the originals. <sup>3</sup> Hard Clear Anodize: Film Hardness 300HV ~

### Pulley Shape



Tooth groove dimensions slightly vary according to the number of teeth. (Pitch: 5.0mm)

- Aluminum flanges will have a thickness of 1.5.
- 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.

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

dH7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
5	M3	M3x3
6-12	M4	M4x3
13-17	M5	M5x4
18-30	M6	M6x5
31-50	M8	M8x6

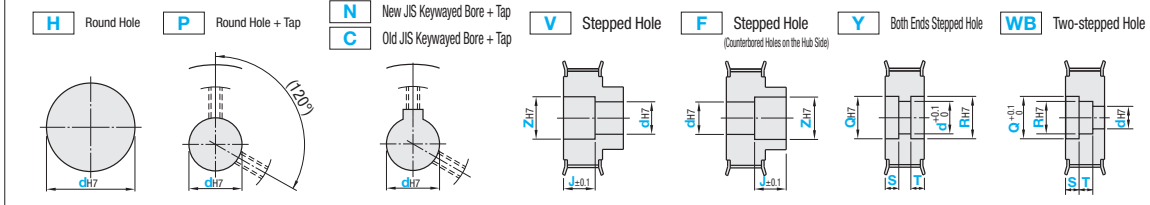
### Number of Teeth / Dimension

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.	19.10	22.28	23.87	25.46	28.65	31.83	35.01	38.20	39.79	41.38	44.56	47.75	50.93	54.11	57.30	63.66	70.03	76.39	79.58	95.49
O.D.	18.25	21.45	23.05	24.60	27.80	31.00	34.25	37.40	39.00	40.60	43.75	46.95	50.10	53.25	56.45	62.85	69.20	75.55	78.75	94.65
D	-	14	15	17	19	19	24	27	27	31	32	33	37	40	40	47	50	60	63	75
F	24	26	28	32	33	36	40	45	45	48	48	52	55	61	61	67	74	83	87	99
E	12	16	18	20	22	24	27	30	30	35	35	36	40	45	45	50	58	63	67	80

### Belt Nominal Width / Dimension

mm	Nominal			
	T5100	T5150	T5200	T5250
A	11	17	22	27
W	16	22	27	32
L	28	34	39	44

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 P.1413. 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.
- Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
- Applicable to Shape B only.
- No tapped holes or set screws.
- Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
- Applicable to Shape A only.
- No tapped holes or set screws.
- Shaft Bore Dia. d is +0.1/0 only.
- No tapped holes or set screws.
- No tapped holes or set screws.
- Applicable to Shape A only.
- No tapped holes or set screws.

Part Number	Type	Number of Teeth	Type Nominal Width	Pulley Shape	Pulley Shape															
					A								B							
					Shaft Bore Specs. "H": 1mm Increments				"V": Selectable				Shaft Bore Specs. "N": 1mm Increments				"C": Selectable			
					H(d) Round Hole	P(d) Round Hole + Tapped	N(d), C(d) Keyway + Tapped	V(d) Stepped Hole	Z Z-d±2	J (0.1mm Increment)	Y (d) Both Ends Stepped Hole	Q, R Q(R)-d±2	S, T (0.1mm Increment) Two-stepped Hole	H(d) Round Hole	P(d) Round Hole + Tapped	N(d), C(d) Keyway + Tapped	V(d) Stepped Hole	Z Z-d±2	J (0.1mm Increment)	
	Aluminum	12	T5100	A	5-8	5-8	8	5-6	7-8	-	5-6	7-8	-	5-10	5-8	-	5-8	7-10	-	
		14			5-12	5-10	8, 10, NK10	5-10	7-12	-	5-10	7-12	-	5-11	5-8	-	5-8	7-11	-	
		15			5-14	5-10	8, 10, NK10	5-12	7-14	-	5-12	7-14	-	6-13	6-10	8	6-11	8-13	-	
		16			6-16	6-12	8-12	6-14	8-16	-	6-14	8-16	-	6-15	6-11	8, 10, NK10	6-13	8-15	-	
		18			6-18	6-12	8-12	6-16	8-18	-	6-16	8-18	-	6-15	6-11	8, 10, NK10	6-13	8-15	-	
		20			6-20	6-16	8-16	6-18	8-20	-	6-18	8-20	-	6-15	6-12	8, 10, NK10	6-13	8-15	-	
		22			7-23	7-18	8-18	7-21	9-23	-	7-21	9-23	-	7-20	7-15	8-12	7-18	9-20	-	
		24			7-26	7-20	8-20	7-24	9-26	-	7-24	9-26	-	7-23	7-17	8-13	7-21	9-23	-	
		25			7-26	7-20	8-20	7-24	9-26	-	7-24	9-26	-	7-23	7-18	8-15	7-21	9-23	-	
		26			8-31	8-23	8-22	8-29	10-31	2.0sJ±W-2.0	8-29	10-31	3-14 S±TsW-3	8-27	8-21	8-17	8-25	10-27	-	
		28			8-31	8-24	8-24	8-29	10-31	-	8-29	10-31	-	8-28	8-22	8-18	8-26	10-28	-	
	Steel	30		B	10-32	10-26	10-26	10-30	12-32	-	10-30	12-32	-	10-29	10-23	10-18	10-27	12-29	-	
		32			10-36	10-28	10-28	10-34	12-36	-	10-34	12-36	-	10-33	10-27	10-22	10-31	12-33	-	
		34			10-41	10-30	10-30	10-39	12-41	-	10-39	12-41	-	10-36	10-30	10-25	10-34	12-36	-	
		36			10-41	10-30	10-30	10-39	12-41	-	10-39	12-41	-	10-36	10-30	10-25	10-34	12-36	-	
		40			10-46	10-38	10-38	10-44	12-46	-	10-44	12-46	-	10-43	10-37	10-30	10-41	12-43	-	
		44			12-54	12-42	12-40	12-52	14-54	-	12-52	14-54	-	12-46	12-40	12-32	12-44	14-46	-	
		48			12-59	12-47	12-40	12-57	14-59	-	12-57	14-59	-	12-56	12-45	12-40	12-54	14-56	-	
		50			12-63	12-50	12-45	12-61	14-63	-	12-61	14-63	-	12-59	12-47	12-45	12-57	14-59	-	
		60			12-76	12-50	12-50	12-74	14-76	-	12-74	14-76	-	12-71	12-50	12-50	12-69	14-71	-	

Shaft Bore Dia. 9 is not available for Shaft Bore Specs. N. Shaft Bore Dia. 8, 11, 13, 14, 17, 21-50 are not available for Shaft Bore Spec. C. Shaft Bore Dia. 6.35 is selectable for Shaft Bore Specs. H, P, V and F.

Ordering Example (Shaft Bore Specs.: H, P, N, C) **TTPA18T5100** - **A** - **NK10**  
 (Shaft Bore Specs.: V, F) **TTPA30T5200** - **A** - **V10** - **Z23** - **J16.0**  
 (Shaft Bore Specs.: Y, WB) **TTPA48T5150** - **A** - **Y25** - **Q42** - **R37** - **S9** - **T7**