

High Torque Timing Pulleys - P5M

For High Torque Timing Belts, see **P.1501**. For Keyless High Torque Timing Pulleys, see **P.1471**. For Idlers with Teeth, see **P.1487**.

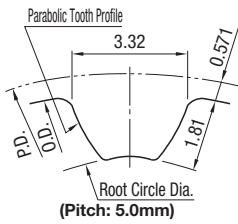


RoHS 10

Type	Belt Width		Material ^{*1}		Surface Treatment	Accessory ^{*1} Set Screws
	10mm P5M100	15mm P5M150	Pulley	Flange		
PTPA	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
PTPB	●	●			Black Anodize	
PTPK	●	●			Hard Clear Anodize ^{*2}	
PTPN	●	●			Electroless Nickel Plating	
PTPM	●	●	S45C Equivalent	SPCC	Black Oxide	SCM435 (Black Oxide)
PTPP	●	●			Electroless Nickel Plating	

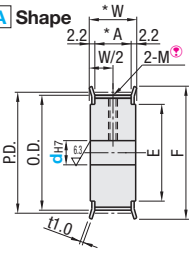
*1. Flange is already swaged, and set screws are included with for Shaft Bore P, N and C. *1. The above material and accessory might be changed to the ones equivalent to the originals. *2. Hard Clear Anodize: Film Hardness 300HV -

Standard Tooth Profile Tooth groove dimensions slightly vary according to the number of teeth.

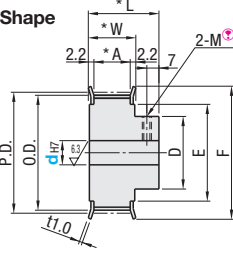


Pulley Shape

A Shape



B Shape



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

dH7 Shaft Bore I.D. (Coarse)	M	Accessory: Set Screw
5-12	M4	M4x3
13-17	M5	M5x4
18-30	M6	M6x5
31-45	M8	M8x6
46-70	M10	M10x8

* 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.

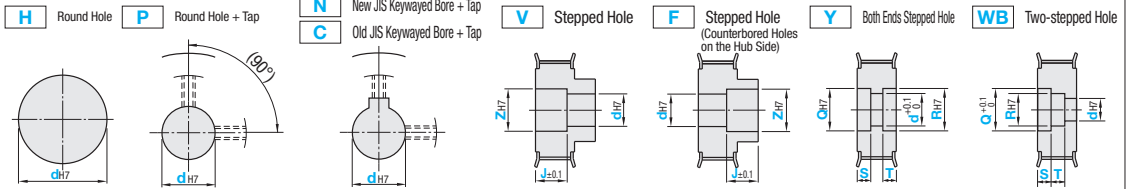
Number of Teeth / Dimension

mm	Number of Teeth																				
	12	14	15	16	18	20	22	24	25	26	28	30	32	34	36	40	44	48	50	60	72
P.D.	19.10	22.28	23.87	25.46	28.25	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	114.59
O.D.	17.96	21.14	22.73	24.32	27.51	30.69	33.87	37.06	38.65	40.24	43.42	46.60	49.79	52.97	56.15	62.52	68.89	75.25	78.44	94.35	113.45
D	11	13	15	17	19	19	25	25	30	30	32	35	38	42	44	48	56	58	64	80	90
F	22	25	28	30	32	35	40	44	44	48	50	55	55	61	67	74	83	87	104	119	-
Aluminum Steel	22	25	-	30	32	35	40	44	44	48	50	55	55	-	67	67	74	83	87	104	-
Aluminum Steel	14	16	18	20	23	25	28	32	32	36	38	40	40	46	50	50	58	63	67	84	100
Aluminum Steel	14	16	-	20	23	25	28	32	32	36	38	40	40	-	50	50	58	63	67	84	-

Belt Nominal Width / Dimension

mm	Nominal	
	P5M100	P5M150
A	11.6	16.6
W	16.0	21.0
L	28.0	33.0

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.
 * Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
 * For A-Shape pulley, the screw holes are set at around 90° to keep away from peaks.
 * Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.
 * For Keyway Dimension Details, see P.1413. Specify **NK10** when selecting "New JIS Keyway Bore + Tap" * 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.
 * Shaft Bore Dia. d is +0.1 / 0.
 * No tapped holes or set screws.
 * Applicable to Shape A only.
 * No tapped holes or set screws.

Part Number	Pulley Shape																
	Type	Number of Teeth	Type Nominal Width	A							B						
				Shaft Bore Specs. "A": 1mm Increments "B": Selectable							Shaft Bore Specs. "A": 1mm Increments "B": Selectable						
H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	V(d) Stepped Hole	Y(d) Both Ends Stepped Hole	WB(d) Two-stepped Hole	H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	V(d) Stepped Hole	F(d) Both Ends Stepped Hole	WB(d) Two-stepped Hole						
12	5-10	5, 6	-	5-8	7-10	5-8	7-10	5-7	-	-	5	7					
14	5-11	5-8	-	5-9	7-11	5-9	7-11	5-7	5	-	5	7-9					
15	5-14	5-8	8	5-12	7-14	5-12	7-14	5-11	5-7	8	5-9	7-11					
16	5-15	5-10	8	5-13	7-15	5-13	7-15	5-13	5-7	8	5-11	7-13					
18	6-17	6-13	8-11	6-15	8-17	6-15	8-17	6-15	6-9	8-11	6-13	8-15					
20	6-17	6-15	8-11	6-15	8-17	6-15	8-17	6-15	6-9	8-11	6-13	8-15					
22	8-22	8-17	8-15	8-20	10-22	8-20	10-22	8-21	8-13	8-15	8-19	10-21					
24	8-22	8-20	8-15	8-20	10-22	8-20	10-22	8-21	8-13	8-15	8-19	10-21					
25	10-25	10-20	10-18	10-23	12-25	10-23	12-25	10-25	10-18	10-18	10-23	12-25					
26	10-25	10-20	10-18	10-23	12-25	10-23	12-25	10-25	10-18	10-18	10-23	12-25					
28	10-27	10-22	10-20	10-25	12-27	10-25	12-27	10-27	10-20	10-20	10-25	12-27					
30	12-29	12-24	12-22	12-27	14-29	12-27	14-29	12-29	12-23	12-22	12-27	14-29					
32	12-31	12-26	12-25	12-29	14-31	12-29	14-31	12-31	12-26	12-25	12-29	14-31					
34	12-35	12-30	12-25	12-33	14-35	12-33	14-35	12-35	12-30	12-25	12-33	14-35					
36	12-35	12-34	12-30	12-33	14-35	12-33	14-35	12-35	12-32	12-25	12-33	14-35					
40	12-37	12-34	12-32	12-35	14-37	12-35	14-37	12-37	12-34	12-32	12-35	14-37					
44	15-43	15-42	15-38	15-41	17-43	15-41	17-45	15-43	15-42	15-38	15-41	17-43					
48	15-43	15-43	15-38	15-41	17-43	15-41	17-46	15-43	15-43	15-38	15-41	17-43					
50	15-47	15-45	15-40	15-45	17-47	15-45	17-50	15-47	15-45	15-40	15-45	17-47					
52	15-57	15-45	15-40	15-55	17-57	15-55	17-60	15-57	15-45	15-40	15-55	17-57					
60	15-85	15-70	15-50	15-85	17-91	15-80	17-92	15-84	15-70	15-50	15-82	17-86					

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

(Shaft Bore Specs.: V, F) PTPA20P5M150 - A - NK10
 (Shaft Bore Specs.: Y, WB) PTPA60P5M100 - B - V20 - Z29 - J22
 PTPA36P5M150 - A - Y17 - Q30 - R30 - S7 - T7