

# High Torque Timing Pulleys - P8M

For High Torque Timing Belts, see **P.1501**. For Keyless High Torque Timing Pulleys, see **P.1472**. For Idlers with Teeth, see **P.1487**.



RoHS 10

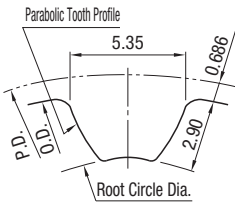
Type	Belt Width		Material <sup>1</sup>		Surface Treatment	Accessory <sup>1</sup> Set Screws
	15mm P8M150	25mm P8M250	Pulley	Flange		
PTPA	●	●	Extra Super Duralumin Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
PTPK	●	●			Electroless Nickel Plating	
PTPN	●	●	S45C Equivalent	SPCC	Black Oxide	SCM435 (Black Oxide)
PTPM	●	●			Electroless Nickel Plating	
PTPP	●	●				

Flange is already swaged, and set screws are included with for Shaft Bore P, N and C. <sup>1</sup>The above material and accessory might be changed to the ones equivalent to the originals.

<sup>2</sup> Hard Clear Anodize: Film Hardness 300HV ~

## Standard Tooth Profile

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



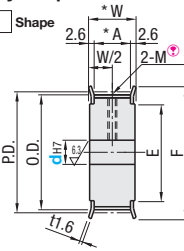
(Pitch: 8.0mm)

Aluminum flanges will have a thickness of 1.5.

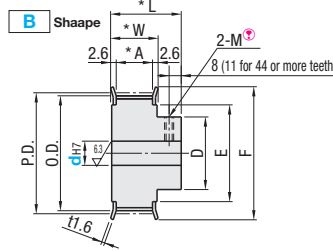
Shaft Bore Specs. H (Round hole), V or F (Stepped Hole), Y (Both Sides Stepped Hole) and WB (two-stepped hole) do not have tapped holes. It may have a relief in the tapped hole depending on its size.

## Pulley Shape

A Shape



B Shape



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

dh7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
12	M4	M4x3
13-17	M5	M5x4
18-30	M6	M6x5
31-45	M8	M8x6
46-67	M10	M10x8

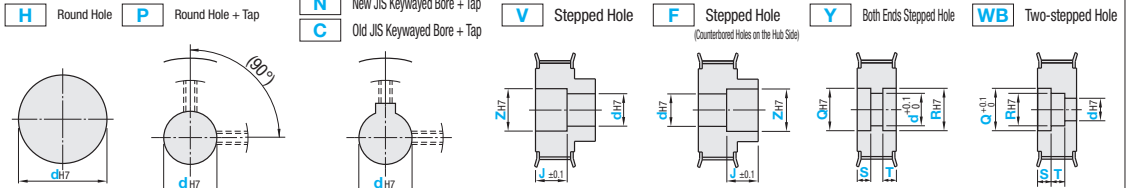
## Number of Teeth / Dimension

mm	Number of Teeth														
	20	22	24	26	28	30	32	34	36	40	44	48	50	60	
P.D.	50.93	56.02	61.12	66.21	71.30	76.39	81.49	86.58	91.67	101.86	112.05	122.23	127.32	152.79	
O.D.	49.56	54.65	59.74	64.84	69.93	75.02	80.12	85.21	90.30	100.49	110.67	120.86	125.95	151.42	
D	36	41	46	51	55	60	65	70	75	85	90	100	100	100	
F	Aluminum	55	61	67	74	80	83	87	95	99	111	119	127	135	160
Steel	55	61	67	74	80	83	87	95	99	111	119	127	135	160	
E	Aluminum	40	45	50	58	60	63	67	75	80	90	100	105	115	140
Steel	40	45	50	58	60	63	67	75	80	90	100	105	115	140	

## Belt Nominal Width / Dimension

mm	Nominal	
	P8M150	P8M250
A	16.8	27.8
W	22.0	33.0
L Number of Teeth 20-40	39.0	50.0
L Number of Teeth 44-60	44.0	55.0

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.

For A-Shape pulley, the screw holes are set at around 90° to keep away from peaks.

For Keyway Dimension Details, see P.1413.

No tapped holes or set screws.

Applicable to Shape B only. No tapped holes or set screws.

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	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	V(d) Stepped Hole	Y(d), WB(d) Both Ends Stepped Hole	Q, R, S, T Two-stepped Hole	H(d) Round Hole	P(d) Round Hole + Tap	N(d), C(d) Keyway + Tap	V(d), F(d) Stepped Hole	Z, J (0.1mm Increment)	
20	Aluminum PTPA PTPK PTPN	P8M150	A	12-27	12-27	12-22	12-19	14-23	12-22	18-26	12-32	12-24	12-22	12-19	14-23	
22				12-30	12-30	12-25	12-22	14-26	12-25	18-30	12-37	12-29	12-25	12-22	14-26	
24				12-33	12-33	12-28	12-23	14-28	12-30	18-35	12-42	12-30	12-28	12-23	14-28	
26				16-35	16-35	16-30	16-25	18-30	16-30	21-40	16-47	16-31	16-30	16-25	18-30	
28				16-39	16-39	16-34	16-29	18-34	16-30	21-42	16-51	16-35	16-34	16-29	18-34	
30				16-40	16-40	16-35	16-30	18-35	16-35	21-50	16-56	16-40	16-35	16-30	18-35	
32		P8M250	B	16-43	16-43	16-38	16-33	18-37	16-35	21-50	16-61	16-43	16-38	16-33	18-37	
34				16-47	16-47	16-42	16-35	18-40	16-35	26-55	16-66	16-47	16-42	16-35	18-40	
36				16-50	16-50	16-45	16-35	18-43	16-38	26-60	16-71	16-50	16-45	16-35	18-43	
40				20-55	20-55	20-50	20-35	22-45	20-42	27-65	20-80	20-55	20-50	20-35	22-45	
44				20-60	20-60	20-50	20-35	22-48	20-50	27-72	20-80	20-60	20-50	20-35	22-48	
48				20-67	20-67	20-50	20-40	22-55	20-50	27-80	20-85	20-67	20-50	20-40	22-55	
60	20-67	20-67	20-50	20-40	22-55	20-50	27-80	20-85	20-67	20-50	20-40	22-55				

Shaft Bore Dia. 13, 14, 17 or 21-50 are not available for Shaft Bore Specs. C.



Ordering Example

(Shaft Bore Specs.: H, P, N, C)  
(Shaft Bore Specs.: V, F)  
(Shaft Bore Specs.: Y, WB)

Part Number	-	Pulley Shape	-	Shaft Bore Specs., I.D.	-	Z	-	J	-	Q	-	R	-	S	-	T
PTPA50P8M250	-	A	-	H50	-		-		-		-		-		-	
PTPA48P8M250	-	B	-	V25	-	Z43	-	J25	-		-		-		-	
PTPA36P8M150	-	A	-	Y20	-		-		-	Q32	-	R37	-	S7	-	T9