


High Torque Timing Pulleys - P2M, P3M

Compatible with P2M, P3M Types from Tsubakimoto Chain Co.

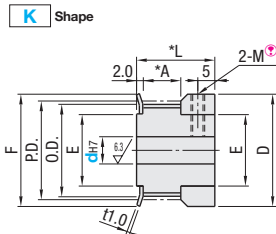
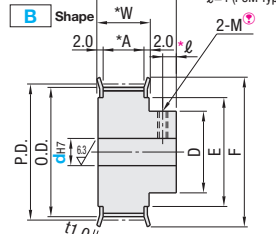
For High Torque Timing Belts, see **P.1467**. For Idlers with Teeth, see **P.1453**



Type	Belt Width			Material*		Surface Treatment	Accessory* Set Screws
	6mm	10mm	15mm	Pulley	Flange		
PTPA	●	●	●	High Strength Aluminum Alloy	Aluminum Alloy	Clear Anodize	EN 1.4301 Equiv.
PTPM	-	●	●	EN 1.1191 Equiv.	EN 1.0330 Equiv.	Black Oxide	EN 1.7220 Equiv. (Black Oxide)
PTPP	-	●	●			Electroless Nickel Plating	

*Flange is installed, and set screws are included with Shaft Bore P, N and C. *The above material and accessory might be changed to the ones equivalent to the originals.

•Pulley Shape

K Shape  **B Shape** 

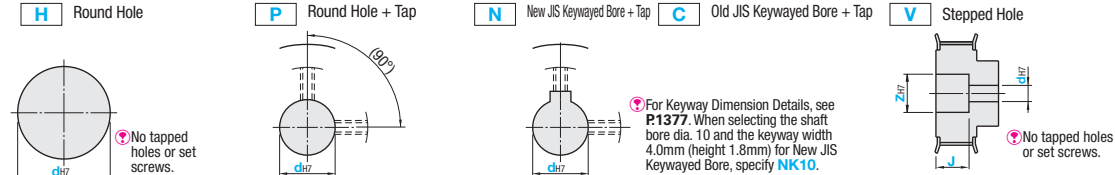
Tapped Hole Dimensions

P2M		
dH7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
3~ 6.35	M3	M3x3
7~19	M4	M4x3

P3M		
dH7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
4~ 6.35	M3	M3x3
7~12	M4	M4x3
13~18	M5	M5x4

Number of Teeth / Dimension

Standard	mm	Number of Teeth																	
		14	15	16	18	20	22	24	25	28	30	32	36	40	42	44	48	50	60
P2M Type	P.D.	8.91	9.55	10.19	11.46	12.73	14.01	15.28	16.55	17.83	19.10	20.37	22.92	25.46	26.74	28.01	30.56	31.83	38.20
	O.D.	8.40	9.04	9.68	10.95	12.22	13.50	14.77	16.04	17.32	18.59	19.86	22.41	24.96	26.23	27.50	30.05	31.32	37.69
	D	12	13	13	15	17	17	17	20	22	22	22	12	14	16	18	18	22	28
	F	12	12	14	14	16	16	16	22	22	25	28	28	32	32	35	35	40	44
	E	6	6	8	8	10	10	10	14	14	16	18	18	23	23	25	25	28	32

Shaft Bore Specs.  Surface treatment may not be applied to shaft bores.

H Round Hole **P** Round Hole + Tap **N** New JIS Keywayed Bore + Tap **C** Old JIS Keywayed Bore + Tap **V** Stepped Hole


Part Number		Shaft Bore Specifications (-): Specify in 1mm Increment, (:): Select the former or latter						
Type	Number of Teeth	Type Nominal Width	Pulley Shape	H Round Hole	P Round Hole + Tap	N Keyway + Tap	C Old JIS Keyway + Tap	V Stepped Hole
Aluminum PTPA	14	P2M060	K	-	3, 4	-	-	-
	15			3, 4	-	-	-	
	16			3, 4, 5	-	-	-	
	18			3-6	-	-	-	
	20			4-6, 6.35	-	-	-	
	22			4-6, 6.35	-	-	-	
	24			4-6, 6.35	-	-	-	
	25			4-6, 6.35	-	-	-	
	28			5, 6, 6.35	-	-	-	
	30			5, 6, 6.35, 7, 8	-	-	-	
	32			5, 6, 6.35, 7, 8	-	-	-	
	36			5, 6, 6.35, 7-9	-	-	6	
	40			5, 6, 6.35, 7-10	-	-	6, 7	
	42			5, 6, 6.35, 7-12	-	-	6, 7, 9-12	
	44			5, 6, 6.35, 7-12	-	-	6-9	
48	5, 8, 6.35, 7-12	-	-	6-9				
50	5, 6, 6.35, 7-15	-	-	6-9				
60	5, 6, 6.35, 7-19	-	-	6-12				
Aluminum PTPA	10	P3M100	K	-	4	-	-	-
	12			4, 5	-	-	-	
	14			4-6, 6.35	-	-	-	
	15			4-6, 6.35	-	-	-	
	16			4-6, 6.35	-	-	-	
	18			4-6, 6.35	-	-	-	
	20			4-6, 6.35	-	-	-	
	22			4-6, 6.35	-	-	-	
	24			5, 6, 6.35, 7, 8	-	-	-	
	25			5, 6, 6.35, 7-9	-	-	6	
	26			5, 6, 6.35, 7-9	-	-	6, 7	
	28			6, 6.35, 7-10	-	-	7	
	30			6, 6.35, 7-12	-	-	7, 8, 9	
	32			6, 6.35, 7-12	-	-	7, 8, 9	
	36			6, 6.35, 7-12	-	-	7, 8, 9	
40	6, 6.35, 7-16	-	-	7-13				
42	6, 6.35, 7-18	-	-	7-14				

Ordering Example (Shaft Bore Specs.: H, P, N, C) (Shaft Bore Specs.: V)

Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J

PTPA48P2M060 - B - NK10 - Z10 - J6

Number of Teeth	Body Price		Body Price				Shaft Bore Machining Charge (Body Price +)	
	PTPA	PTPM	PTPP	P Hole	N, C, V Hole	P Hole	N, C, V Hole	
14								
15								
16								
18								
20								
22								
24								
25								
28								
30								
32								
36								
40								
42								
44								
48								
50								
60								

Alterations  Part Number - Pulley Shape - Shaft Bore Specs., Hole Dia. - Z - J - (KC120--etc.)

PTPA48P2M060 - B - N10 - NFC

Alterations	Set Screw Angle	Flange Not Swaged	Flange Swaged on One Side
Code	KC120	NFC	RFC, LFC
Spec.	Changes angle layout of set screws to 120°. For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks. Not available for Shape K.	(Flange 2 pcs. Included) Ordering Code: NFC Application Notes: Not available for Shape K.	(Flange 1 pc. Included) Ordering Code: RFC Application Notes: Not available for Shape K.

Alterations	Side Tapped Hole, 3 places	Side Tapped Hole, 4 places
Code	QTC	QFC
Spec.	Machine Tapped Hole on the side surface of hub side. Ordering Code (Tapped Hole): QTC28-M4 Selection (Tapped Hole) M Selection: M3, M4, M5 Application Notes: Not available for Shape K. Specify KC120 when selecting KTC/QTC for Shaft Bore Specs. P, N and C.	Machine Tapped Hole on the side surface of hub side. Ordering Code (Tapped Hole): QFC28-M4 Selection (Tapped Hole) M Selection: M3, M4, M5 Application Notes: Not available for Shape K. When KFC/QFC is selected for Shaft Bore Specs. P, N and C, KC120 is not available. Side holes and tooth side tapped holes might interfere with each other. For details, see the relevant CAD data.

For details, see the "Timing Pulley Alterations - Overview" section **P.1387**.