

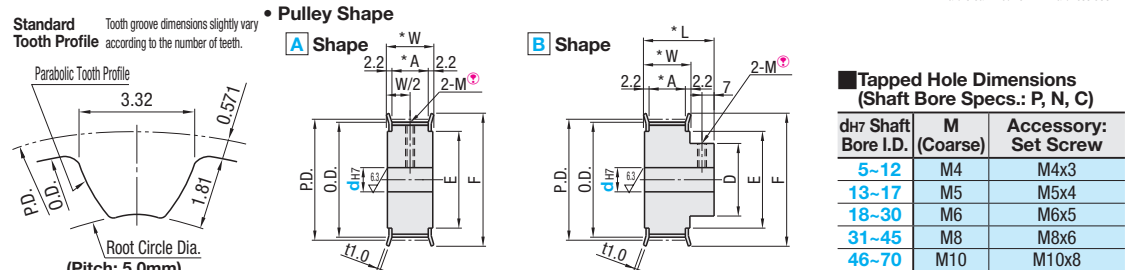
High Torque Timing Pulleys - P5M

Compatible with P5M
Type from Tsubakimoto
Chain Co.

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

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 ~

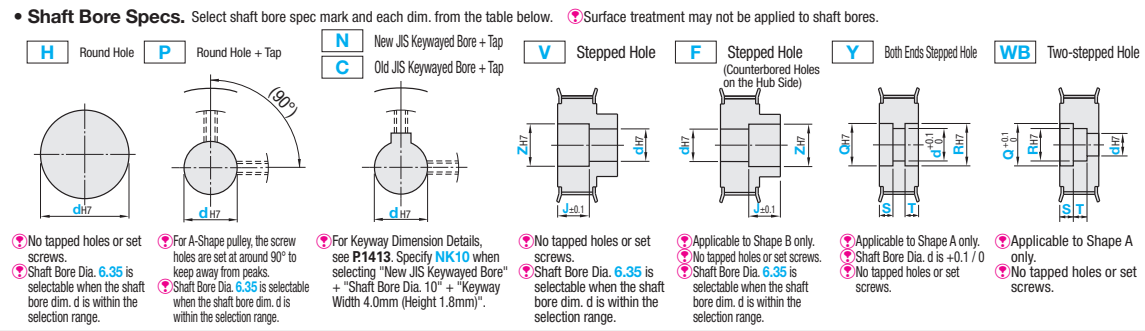


Number of Teeth / Dimension

mm	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	28.65	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	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
Aluminum	22	25	28	30	32	35	40	44	44	48	50	55	55	61	67	74	83	87	104	119	-
Steel	22	25	-	30	32	35	40	44	44	48	50	55	55	-	67	74	83	87	104	-	-
Aluminum	14	16	18	20	23	25	28	32	32	36	38	40	40	46	50	58	63	67	84	100	-
Steel	14	16	-	20	23	25	28	32	32	36	38	40	40	-	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



Part Number		Pulley Shape	
Type	Number of Teeth	Shaft Bore Specs. "A": 1mm Increments "B": Selectable	Shaft Bore Specs. "A": 1mm Increments "B": Selectable
Aluminum	12	5-10 5-6	5-8 7-10
	14	5-11 5-8	5-9 7-11
	15	5-14 5-8	5-12 7-14
	16	5-15 5-10	5-13 7-15
	18	6-17 6-13	6-15 8-17
	20	6-17 6-15	6-15 8-17
	22	8-22 8-17	8-15 8-20 10-22
	24	8-22 8-20	8-15 8-20 10-22
	25	10-25 10-20	10-18 10-23 12-25
	26	10-25 10-20	10-18 10-23 12-25
	28	10-27 10-22	10-20 10-25 12-27
	30	12-29 12-24	12-22 12-27 14-29
Steel	32	12-31 12-26	12-25 12-29 14-31
	34	12-35 12-30	12-25 12-33 14-35
	36	12-35 12-34	12-30 12-33 14-35
	40	12-37 12-34	12-32 12-35 14-37
	44	15-43 15-42	15-38 15-41 17-43
	48	15-43 15-43	15-38 15-41 17-43
	50	15-47 15-45	15-40 15-45 17-47
	60	15-57 15-45	15-40 15-55 17-57
	72	15-85 15-70	15-50 15-85 17-91

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

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

(Shaft Bore Specs.: H, P, N, C) PTPA20P5M150 - A - NK10

(Shaft Bore Specs.: V, F) PTPA60P5M100 - B - V20 - Z29 - J22

(Shaft Bore Specs.: Y, WB) PTPA36P5M150 - A - Y17 - Q30 - R30 - S7 - T7

For e-Catalog non-standard products, see P.131.

Number of Teeth	Body Price								Shaft Bore Machining Charge (Body Price +)			
	PTPA (x1.0)	PTPB, PTPK (x1.1)	PTPN (x1.2)	PTPM, PTPP (+JPY500)	PTPM, PTPP (+JPY500)	PTPM, PTPP (+JPY500)	PTPM, PTPP (+JPY500)	PTPM, PTPP (+JPY500)	PTPA, PTPB, PTPK, PTPN	PTPA, PTPB, PTPK, PTPN	PTPM, PTPP	PTPM, PTPP
12	Shape A	Shape B	Shape A	Shape B	Shape A	Shape B	Shape A	Shape B	P Hole	N, C, V, F Hole	Y, WB Hole	P Hole
14												
15												
16												
18												
20												
22												
24												
25												
26												
28												
30												
32												
34												
36												
40												
44												
48												
50												
60												
72												

Alterations

Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J - Q - R - S - T - (KC120... etc.)

PTPA60P5M150 - B - H40 - BC8.5

Alterations	Set Screw Angle	No Flange Swaged	Single Flange	Flange Cut
Code	KC120	NFC	RFC, LFC	FC
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.	(Flange 2 pcs. Included) Ordering Code NFC	(Flange 1 pc. Included) Ordering Code RFC	Cut the flange O.D. in 0.5mm increment. Ordering Code FC45 FC= (O.D.) + 1 FC=F-2 No surface treatment is applied on flange circumference.

Alterations	Retaining Ring Groove	Adds taper for retaining bearing	Hub Shortening	Tapped Hole Dimensions
Code	SRG	BTC	BC	TPC5
Spec.	Retaining Ring Groove applicable to the shaft dia. of stepped hole is machined. Retaining Ring Groove Dim. P.1413 Specify SRG 2.5~12.5mm 0.5mm Increments Minimum Thickness: 2mm Applicable to Shaft Bore Specs. V and F only. Standards of retaining ring groove for Z dim. is applied. ns<J-SRG-m Ordering Code SRG7	Add taper for retaining bearing inner ring Ordering Code BTC5-TL1.5 Application Notes Applicable to Shape A only. Applicable to Shaft Bore Specs. H and P only. TL<L-W	Cuts the hub length in 0.5mm increment. Ordering Code BC6.5 Application Notes Shaft Bore Specs. H, V, F: 3<BC<L-W Shaft Bore Specs. P, N, C: M+3<BC<L-W Not available for Shape A.	Ordering Code TPC5 Application Notes Applicable to Shaft Bore Specs. P, N, C only. M TPC M4 M5 M5 M4, M6 M6 M5, M8 M8 M6 M10 M8

Alterations	Add Side Holes		
Code	Side Tapped Hole	Side Through Hole	Side Counterbored
Code	QTC, QFC, QSC	KTC, KFC, KSC	ZTC, ZFC, ZSC
Spec.	Machines tapped hole on the side surface of hub side. Ordering Code QTC28-M4 Specify the hole position (P, C, D, dim.). M Selection M3, M4, M5, M6, M8 Application Notes Minimum Thickness: 2mm Formula P.1414 Conditions may vary depending on the shaft bore specs. P.1414	Machines through hole on the side surface. Ordering Code KTC28-K4.5 Specify the hole position (P, C, D, dim.). K Selection K4.0 ~ 13.0 (0.5mm Increments) Application Notes Minimum Thickness: 2mm Formula P.1414 Conditions may vary depending on the shaft bore specs. P.1414	Machines counterbored hole on the side surface. Ordering Code ZTC28-Z4 Specify the hole position (P, C, D, dim.). Z Selection ZM3, ZM4, ZM5, ZM6, ZM8 Application Notes Minimum Thickness: 2mm Formula P.1414 Conditions may vary depending on the shaft bore specs. P.1414