

Keyless High Torque Timing Pulleys - P5M

Compatible with P5M Type from Tsubakimoto Chain Co.

For High Torque Timing Belts, see **P.1467**. For Open End Belts, see **P.1476**.

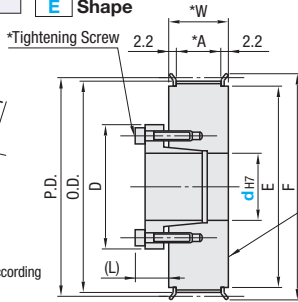


Type	Part Number		Material ¹			Surface Treatment		
	Belt Width: 10mm A:11.6 W:16	Belt Width: 15mm A:16.6 W:21	Pulley	Flange	Bushing	Pulley	Flange	Bushing
	P5M100	P5M150						
PTLA	●	●	A7075	A5052	S45C	Clear Anodize	-	-
PTLN	●	●				Electroless Nickel Plating	-	-
PTLM	●	●	S45C Equivalent	SPCC	S45C	Black Oxide	-	-
PTLG	●	●				Electroless Nickel Plating	-	-

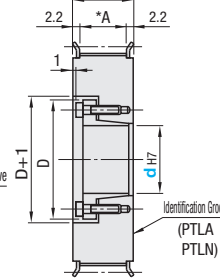
¹The above material and accessory might be changed to the ones equivalent to the originals.

• Pulley Shape

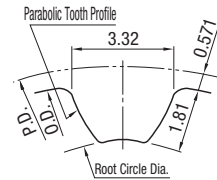
[E] Shape



[F] Shape



Standard Tooth Profile



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

Number of Teeth	22	24	25	26	28	30	32	34	36	40	44	48	50	60	72
P.D.	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.	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
F	40	44	44	48	50	55	55	61	67	67	74	83	87	104	119
E	28	32	32	36	38	40	40	46	50	50	58	63	67	84	100

Table 1: Select Shaft Bore Dia.

dH7	Max. Allowable Torque N · m		D		(L)
	ST Bushing	SH Bushing	ST Bushing	SH Bushing	
8	16	8.5	25.5	24.5	8.5
10	39	18	30	29	10.5
11	43	20	31	30	
12	48	23	32	31	
14	73	-	35	-	12
15	78	-	36	-	
16	83	-	37	-	
17	88	-	38	-	13
18	93	-	43	-	
18	154	-	43	-	
19	163	-	45	-	14
20	171	-	46	-	
22	186	-	48	-	
24	206	-	50	-	15.5
25	216	-	52	-	
28	353	-	54	-	
30	382	-	57	-	16.5
32	412	-	59	-	
35	451	-	63	-	
38	686	-	70	-	19
40	725	-	71	-	
42	757	-	71	-	

⚠ Electroless nickel plated bushing (Alterations BMC, BMR) decreases maximum allowable torque and allowable thrust load by 20 ~ 30%.

⚠ Surface treatment may not be applied to shaft bores.

⚠ Two types of bushings are available: Standard Type (ST Bushings) and Short Type (SH Bushings). See **P.1425**.

* For quantity and size of tightening screws with flange installed, see **P.1425**.

Part Number		Pulley Shape	dH7 Range (,): Select the former or latter, (-): Specify in 1mm Increment				Unit Price			
Type	Number of Teeth, Nominal Width		Shape E		Shape F		PTLA (x1.0)		PTLN (x1.2)	
		P5M100	P5M150	P5M100	P5M150	P5M100	P5M150	P5M100	P5M150	
PTLA PTLN	22	8	8	8	8					
	24	8, 10, 11	8, 10, 11	8	8					
	25									
	26	8, 10~12, 14			8	8, 10~12				
	28	8, 10~12, 14~16			8	8, 10~12				
	30									
	32	10~12, 14~17	10~12, 14~17	-	10~12					
	34									
	36	10~12, 14~20, 22			-	10~12				
	40	12, 14~20, 22, 24, 25			-	12				
	44	12, 14~20, 22, 24, 25, 28			-	12				
	48	12, 14~20, 22, 24, 25, 28, 30, 32, 35			-	12				
50	12, 14~20, 22, 24, 25, 28, 30, 32, 35			-	12					
60	12, 14~20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42			-	12					
72										
PTLM PTLG	22	8								
	24									
	26	10, 12								
	28									
	30	12			12, 14, 15					
	32									
	36				12, 14, 15					
	44									
	50				15, 24					
	60									

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
PTLA0P5M150 - F - 12

Alterations: Part Number - Pulley Shape - Shaft Bore Dia. (FC, NFC, LFC, RFC, BMC, BMR, OP)
PTLA3P5M150 - E - 14 - BMC

Alterations Code	Flange Cut FC	Flange Not Swaged NFC	Flange Swaged on One Side LFC, RFC	Surface Treatment BMC, BMR	Pulley for Replacement (Pulley only) OP
Spec.	<p>Lowers flange by cutting. FC: 0.5mm Increment ⚠ No surface treatment is applied on flange circumference.</p> <p>FC₂(O.D.)+1 FC₃-F-2 Ordering Code: FC35</p>	<p>Flange is not installed. (Flange Included)</p>	<p>Flange is installed on either the bushing side (LFC) or the opposite side (RFC) prior to shipping. (Flange 1 pc. Included)</p>	<p>Applies electroless nickel plating on a bushing. (Antirusting treatment is applied to screws.) ⚠ Electroless nickel plated bushing decreases allowable torque by 20 ~ 30%. BMC: Not RoHS Compliant (Screw: SCM435 Dacrotized Treatment) BMR: RoHS Compliant (Screw: SCM435 GeoMet Coating) ⚠ Not applicable to PTLM and PTLG.</p>	<p>Pulleys will be shipped bushings uninstalled.</p>