

High Torque Timing Pulleys - S2M

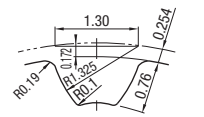
For High Torque Timing Belts, see **P.1499**. For Idlers with Teeth, see **P.1483**.

Type	Belt Width			Material ^{*1}		Surface Treatment	Accessory ^{*1} Set Screws
	4mm	6mm	10mm	Pulley	Flange		
HTPA	●	●	●	A2000 Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
HTPB	●	●	●			Black Anodize	
HTPK	●	●	●			Hard Clear Anodize ^{*2}	
HTPN	●	●	●			Electroless Nickel Plating	
HTPT	●	●	-	S45C Equivalent	SPCC	-	SCM435 (Black Oxide)
HTPM	●	●	-			Black Oxide	
HTPP	●	●	-			Electroless Nickel Plating	
HTPS	●	●	-	SUS304	SUS304	-	SUS304

^{*1} Flange is already swaged, and set screws are included with for Shaft Bore Spec. P, N and C.

^{*1} The above material and accessory may be changed to the ones equivalent to the originals. ^{*2} Hard Clear Anodize: Film Hardness 300HV -

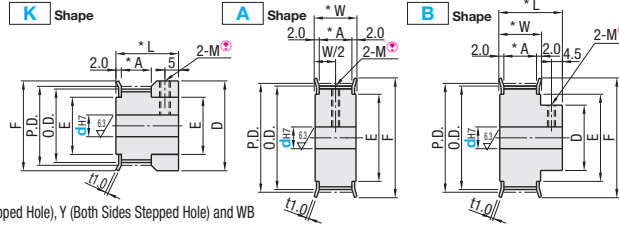
Standard Tooth Profile



Tooth groove dimensions slightly vary according to the number of teeth.
(Pitch: 2.0mm)

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.

Pulley Shape



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

dH7 Shaft Bore I.D.	M (Coarse)	Accessory Set Screw
3-5	M3	M3x3
6-24	M4	M4x3
25-30	M5	M5x4

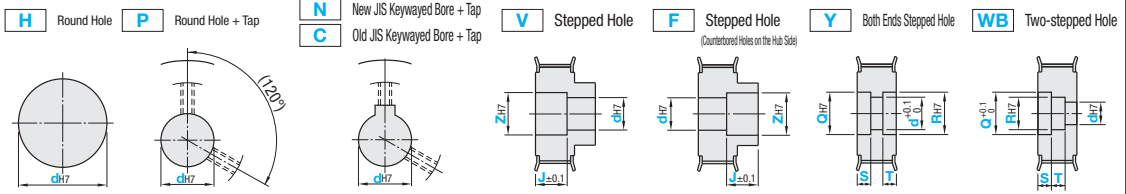
Number of Teeth / Dimension

mm	Number of Teeth																							
	14	15	16	18	20	22	23	24	25	26	28	30	32	34	36	40	44	48	50	60	72			
P.D.	8.91	9.55	10.19	11.46	12.73	14.01	14.64	15.28	15.92	16.55	17.83	19.10	20.37	21.65	22.92	25.46	28.01	30.56	31.83	38.20	45.84			
O.D.	8.40	9.04	9.68	10.95	12.22	13.50	14.13	14.77	15.41	16.04	17.32	18.59	19.86	21.14	22.41	24.96	27.50	30.05	31.32	37.69	45.33			
D	12	12	14	14	16	18	18	20	20	22	22	22	12	14	14	18	20	20	20	30	34			
F	12	12	14	14	16	18	18	20	20	22	22	22	25	25	28	30	32	35	35	44	50			
E	6	6	8	8	10	11	11	13	13	14	14	14	16	16	18	20	23	25	25	32	38			

Belt Nominal Width / Dimension

mm	Nominal		
	S2M040	S2M060	S2M100
A	5	7	11
W	9	11	15
L	17	19	23

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. 4.5 and 6.35 are selectable when the shaft bore dim. d is within the selection range.
 For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks.
 Shaft Bore Dia. 4.5 and 6.35 are 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" + "Shaft Bore Dia. 10" + "Keyway Width 4.0mm (Height 1.8mm)".
 Not applicable to Shape K.
 No tapped holes or set screws.
 Shaft Bore Dia. 4.5 and 6.35 are 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. 4.5 and 6.35 are 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, K					
				Shaft Bore Specs. "H": 1mm Increments "N": Selectable						Shaft Bore Specs. "H": 1mm Increments "N": 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 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 Z-ds2 (0.1mm Increment)	Q, R Q(R)-ds2	S, T (0.1mm Increment)				Z Z-ds2 (0.1mm Increment)		

Shaft Bore Dia. 9 is not available for Shaft Bore Specs. N. Shaft Bore Dia. 4.5 and 6.35 are selectable for Shaft Bore Specs. H, P, V and F.
 Shaft Bore Dia. 8, 11, 13, 14, 17, 21-26 are not available for Shaft Bore Spec. C.

Ordering Example

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

(Shaft Bore Specs.: H, P, N, C) HTPA48S2M040 - B - N10

(Shaft Bore Specs.: V, F) HTPA60S2M060 - B - V10 - Z17 - J14.2

(Shaft Bore Specs.: Y, WB) HTPA36S2M100 - A - Y6 - Q10 - R10 - S3 - T3