

# High Torque Timing Pulleys - S8M

For Non-Backlash Type, see **P.1441**.

For Super High Torque Timing Belts, see **P.1503**. For High Torque Timing Belts, see **P.1499**. For Keyless High Torque Timing Pulleys, see **P.1469, 1470**. For Idlers with Teeth, see **P.1485**.

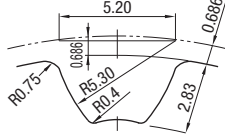


RoHS 10

Type	Belt Width				Material <sup>1)</sup>		Surface Treatment	Accessory <sup>1)</sup> Set Screws
	15mm	25mm	30mm	40mm	Pulley	Flange		
	S8M150	S8M250	S8M300	S8M400				
HTPA	●	●	●	●	Extra Super Duraluminum Aluminum Alloy	Aluminum Alloy	Clear Anodize Black Anodize Hard Clear Anodize <sup>2)</sup> Electroless Nickel Plating	SUS304
HTPB	●	●	●	●				
HTPK	●	●	●	●				
HTPN	●	●	●	●				
HTPPT	●	●	●	●	S45C Equivalent	SPCC	Black Oxide Electroless Nickel Plating	SCM435 (Black Oxide)
HTPM	●	●	●	●				

<sup>1)</sup> Flange is already swaged, and set screws are included with for Shaft Bores P, N and C. <sup>2)</sup> The above material and accessory might be changed to the ones equivalent to the originals. <sup>3)</sup> Hard Clear Anodize: Film Hardness 300HV -

## Standard Tooth Profile



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

(Pitch: 8.0mm)

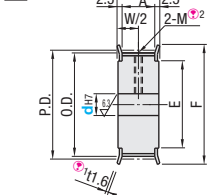
Aluminum flanges will have a thickness of 1.5.

t=2.0 for 72 toothed pulleys. (Machined Flange)

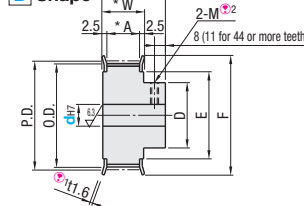
Shaft Bore Specs. H (Round hole), Y or V (Stepped Hole), Y (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

## 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
46~70	M10	M10x8

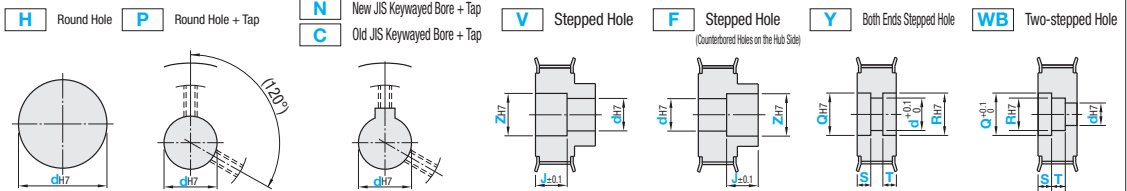
## Number of Teeth / Dimension

mm	Number of Teeth																			
	18	19	20	21	22	24	25	26	28	30	32	34	36	38	40	44	48	50	60	72
P.D.	45.84	48.38	50.93	53.48	56.02	61.12	63.66	66.21	71.30	76.39	81.49	86.58	91.67	96.77	101.86	112.05	122.23	127.32	152.79	183.35
O.D.	44.46	47.01	49.56	52.10	54.65	59.74	62.29	64.84	69.93	75.02	80.12	85.21	90.30	95.39	100.49	110.67	120.86	125.95	151.42	181.97
D	32	35	36	40	41	46	48	51	55	60	63	70	75	80	85	90	100	100	100	100
F	52	55	58	61	61	67	70	74	80	87	87	95	99	104	111	119	127	135	160	190
E	36	40	40	45	45	50	56	58	60	67	67	75	80	84	90	100	105	115	140	170

## Belt Nominal Width / Dimension

mm	Nominal			
	S8M150	S8M250	S8M300	S8M400
A	17	28	33	44
W	22	33	38	49
L (Number of Teeth 18-40)	37	48	53	64
L (Number of Teeth 44-72)	42	53	58	69

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 120° 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	Pulley Shape																	
	Type	Number of Teeth	Type Nominal Width	A						B								
				Shaft Bore Specs. "A": 1mm Increments "B": Selectable						Shaft Bore Specs. "A": 1mm Increments "B": Selectable								
				H(d)	P(c)	N(d), C(d)	V		Y		H(d)	P(c)	N(d), C(d)	V		Y		
				Round Hole	Round Hole + Tap	Keyway + Tapped	V(d)	Z	J	Both Ends Stepped Hole	WB	H(d)	Round Hole + Tap	Keyway + Tapped	V(d)	F(d)	J	
							Z-ds2	(0.1mm Increment)	(0.1mm Increment)	Q, R	S, T				Z-ds2	J	(0.1mm Increment)	
										WB (d)	Q, R							

Shaft Bore Dia. 51~54 are not available for Shaft Bore Specs. N. Shaft Bore Dia. 13, 14, 17 or 21~55 are not available for Shaft Bore Specs. 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) HTPA36S8M250 - A - H65  
 (Shaft Bore Specs.: V, F) HTPA30S8M300 - B - V20 - Z38 - J23.0  
 (Shaft Bore Specs.: Y, WB) HTPA40S8M250 - A - Y30 - Q62 - R47 - S16 - T9