

High Torque Timing Pulleys - S3M

For High Torque Timing Belts, see **P.1499**. For Keyless High Torque Timing Pulleys, see **P.1465, 1466**. For Idlers with Teeth, see **P.1483**.

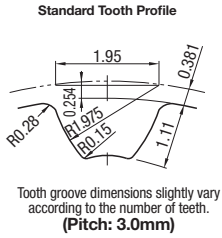
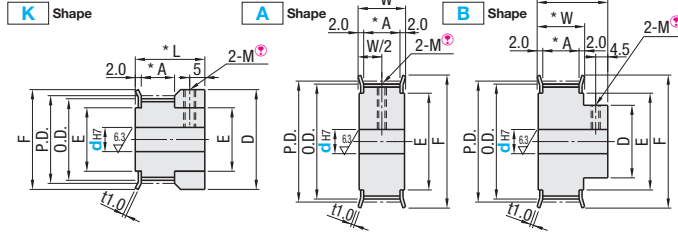
Type	Belt Width			Material ¹		Surface Treatment	Accessory ¹ Set Screws
	6mm S3M060	10mm S3M100	15mm S3M150	Pulley	Flange		
HTPA	●	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
HTPB	●	●	●			Black Anodize	
HTPK	●	●	●			Hard Clear Anodize ²	
HTPN	●	●	●			Electroless Nickel Plating	
HTPT	●	●	●	S45C 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 P, N and C. ² The above material and accessory might be changed to the ones equivalent to the originals. ³ Hard Clear Anodize: Film Hardness 300HV -



RoHS 10

Pulley Shape



Tapped Hole Dimensions

dh7 Shaft Bore I.D.	M (Coarse)	Accessory Set Screw
4-5	M3	M3x3
6-17	M4	M4x3
18-33	M5	M5x4
34-46	M6	M6x5

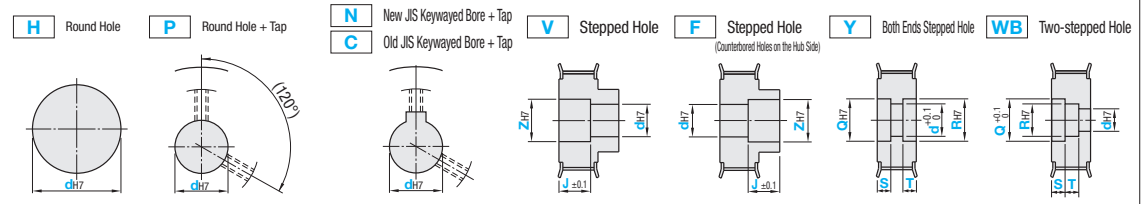
Number of Teeth / Dimension

mm	Number of Teeth																					
	14	15	16	18	19	20	22	24	25	26	28	30	32	34	36	40	44	48	50	60	72	
P.D.	13.37	14.32	15.28	17.19	18.14	19.10	21.01	22.92	23.87	24.83	26.74	28.65	30.56	32.47	34.38	38.20	42.02	45.84	47.75	57.30	68.75	
O.D.	12.61	13.56	14.52	16.43	17.38	18.34	20.25	22.16	23.11	24.07	25.98	27.89	29.80	31.71	33.62	37.44	41.25	45.07	46.98	56.53	67.99	
D	16	18	18	20	22	22	25	14	16	16	18	20	20	26	26	30	32	34	34	39	50	
F	16	18	18	20	22	22	25	25	25	28	28	30	32	35	40	40	44	48	50	52	61	74
E	10	11	11	13	14	14	16	16	18	18	20	23	25	28	28	32	36	38	40	46	58	

Belt Nominal Width / Dimension

mm	Nominal		
	S3M060	S3M100	S3M150
A	7	11	17
W	11	15	21
L	19	23	29

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 Specs. P is not available for Shape A with 22 or less teeth and nominal width 060.
 • 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.
 • When selecting the shaft bore dia. 10 and the keyway width 4.0mm (height 1.8mm) for New JIS Keyway Bore, specify NK10.
 • 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	Type	Number of Teeth	Type Nominal Width	Pulley Shape																		
				A								B-K										
				Shaft Bore Specs. "A": 1mm Increments "B": Selectable								Shaft Bore Specs. "B-K": 1mm Increments "B": Selectable										
				H(c) Round Hole		P(c) Round Hole + Tap		N(c), C(c) Keyway + Tapped		Stepped Hole		Both Ends Stepped Hole		WB Two-stepped Hole		H(c) Round Hole		P(c) Round Hole + Tap		N(c), C(c) Keyway + Tapped		Stepped Hole
		14				4-6	4, 4, 5			4	6			4	6			4-6	4-6			
		15				4-7	4, 4.5, 5			4, 4.5, 5	6, 7			4, 5	6, 7			4-6	4-6			
		16				4-7	4, 4.5, 5			4, 4.5, 5	6, 7			4, 5	6, 7			4-7	4-7			
		18				4-9	4-6			4-7	6-9			4-7	6-9			4-8	4-8			
		19				4-10	4-6			4-8	6-10			4-8	6-10			4-8	4-8			
		20				4-10	4-6			4-8	6-10			4-8	6-10			4-8	4-8			
		22				4-12	4-8			4-10	6-12			4-10	6-12			4-10	4-10			
		24				4-12	4-10			4-10	6-12			4-10	6-12			4-10	4-8		6-10	
		25	S3M060			4-14	4-11	8-11	4-12	6-14				4-12	6-14			4-12	4-10	8	4-10	6-12
		26				5-14	5-11	8-11	5-12	7-14				5-12	7-14			5-12	5-10	8	5-10	7-12
		28	S3M100			5-16	5-13	8-13	5-14	7-16				5-14	7-16			5-14	5-10	8	5-12	7-14
		30				6-19	6-15	8-14	6-17	8-19				6-17	8-19			6-16	6-12	8-11	6-14	8-16
		32	S3M150			6-21	6-17	8-17	6-19	8-21				6-19	8-21			6-16	6-12	8-11	6-14	8-16
		34				6-24	6-18	8-18	6-22	8-24				6-22	8-24			6-22	6-18	8-15	6-20	8-23
		36				6-24	6-18	8-19	6-22	8-24				6-22	8-24			6-22	6-18	8-15	6-20	8-23
		40				8-28	8-23	8-23	8-26	10-28				8-26	10-28			8-26	8-21	8-17	8-24	10-26
		44				8-32	8-26	8-25	8-30	10-32				8-30	10-32			8-28	8-23	8-18	8-26	10-28
		48				8-34	8-28	8-27	8-32	10-34				8-32	10-34			8-30	8-25	8-20	8-28	10-30
		50				8-36	8-30	8-29	8-34	10-36				8-34	10-36			8-30	8-25	8-20	8-28	10-30
		60				8-42	8-34	8-35	8-40	10-42				8-40	10-42			8-35	8-30	8-22	8-33	10-35
		72				8-54	8-46	8-45	8-52	10-54				8-52	10-54			8-46	8-38	8-33	8-44	10-46

• Shaft Bore Dia. 4.5 and 6.35 are selectable for Shaft Bore Specs. H, P, V and F. • Shaft Bore Specs. P is not available for Shape A with 22 or less teeth and nominal width S3M060.
• Shaft Bore Dia. 9 is not available for Shaft Bore Specs. N. • Shaft Bore Dia. 8, 11, 13, 14, 17, 21-45 are not available for Shaft Bore Spec. C.

Ordering Example (Shaft Bore Specs.: H, P, N, C) **HTPA32S3M100** - **A** - **C16**

(Shaft Bore Specs.: V, F) **HTPA48S3M150** - **A** - **V12** - **Z26** - **J17.0**

(Shaft Bore Specs.: V, WB) **HTPA36S3M100** - **A** - **Y10** - **Q19** - **R15** - **S5** - **T4**