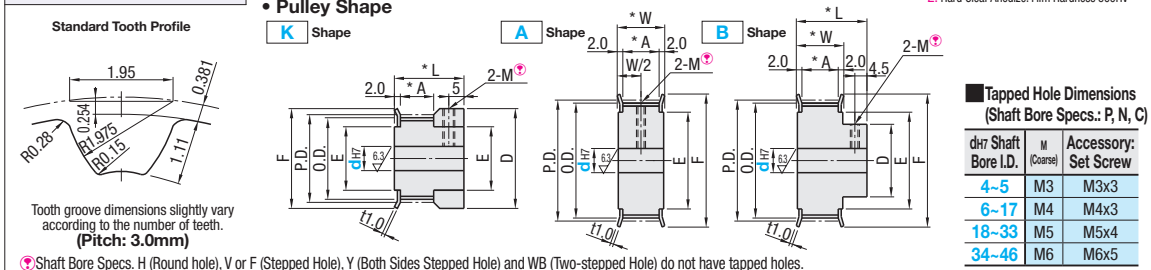


**Compatible with S2M type
from Mitsuboshi Belting
Ltd. as well as Bando
Chemical Industries Ltd.**

■ 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**.



❗ 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.

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	25	14	16	16	18	20	20	26	26	30	32	34	32	34	34	39
F	16	18	18	20	22	22	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

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

H	P	N	V	F	Y	WB
Round Hole	Round Hole + Tap	New JIS Keywayed Bore + Tap	Stepped Hole	Stepped Hole (Counterbored Holes on the Hub Side)	Both Ends Stepped Hole	Two-stepped Hole
② No tapped holes or set screws. ③ Shaft Bore Dia. 4.5 and 6.35 are selectable when the shaft bore dim. d is within the selection range.	④ For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks. ⑤ Shaft Bore Specs. P is not available for Shape A with 22 or less teeth and nominal width 060. ⑥ Shaft Bore Dia. 4.5 and 6.35 are selectable when the shaft bore dim. d is within the selection range.	⑦ For Keyway Dimension Details, see P1413. When selecting the shaft bore dia. 10 and the keyway width 4.0mm (height 1.8mm) for New JIS Keywayed Bore, specify NK10.	⑧ Not applicable to Shape K. ⑨ No tapped holes or set screws. ⑩ Shaft Bore Dia. 4.5 and 6.35 are selectable when the shaft bore dim. d is within the selection range.	⑪ Applicable to Shape B only. ⑫ No tapped holes or set screws. ⑬ Shaft Bore Dia. 4.5 and 6.35 are selectable when the shaft bore dim. d is within the selection range.	⑭ Applicable to Shape A only. ⑮ Shaft Bore Dia. d is +0.1 / 0 ⑯ No tapped holes or set screws.	⑰ Applicable to Shape A only. ⑱ No tapped holes or set screws.

⚠ 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.



(Shaft Bore Specs.: H, P, N, C)

(Shaft Bore Specs.: V, F)

(Shaft Bore Specs: Y, WB)

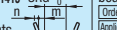
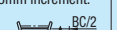
Part Number - **Pulley Shape** - **Shaft Bore Specs., I.D.** - **Z** - **J** - **Q** - **R** - **S** - **T**

HTPA32S3M100 - A - G16

HTR40S2SM150	-	A	-	U19	-	326	-	117.0
HTR48S2M150	-	A	-	V12	-	326	-	117.0

HTPA40S3M150	-	A	-	V12	-	Z20	-	J17.0	
HTPA36S3M100	-	A	-	Y10				Q19	R15 - S5 - T4

Alterations  **Part Number** **Pulley Shape** **Shaft Bore Specs., I.D.** **Z** **J** **Q** **R** **S** **T** **(KC90... etc.)**
 HTPA60S3M100 - **A** - **H16** - **KSC25** - **K4**

Alterations	Retaining Ring Groove	Adds taper for retaining bearing	Hub Shortening	Tapped Hole Dimensions	Changes the length of the included set screws																				
Code	SRG	BTC	BC	TPC	SLH																				
Spec.	Retaining Ring Groove applicable to the shaft dia. of stepped hole is machined. Retaining Ring Groove Dim. SEE P.1413 SRG $\cdot 10^{-3}$ Specify SRG 2.5 - 1.4, 5mm 0.5mm increments Application Notes - Minimum Thickness: 2mm - Applicable to Shaft Bore Specs. V and P only. - Standards of retaining ring groove for 2 dim. is applied. $n \leq J$-SRG-m Ordering Code: SRG7 	Add taper for retaining bearing inner ring Ordering Code: BTC4-TL1.5 Application Notes - Applicable to Shape A only. - Applicable to Shaft Bore Specs. V and P only. - TL < L-W - Flange 1 pc. (one side installed) included for 22 teeth or less 	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 Shapes K and A. 	Ordering Code: TPC5 Application Notes Applicable to Shaft Bore Specs. P, N, C only. <table><tr><th>M</th><th>TPC</th></tr><tr><td>M3</td><td>M4</td></tr><tr><td>M4</td><td>M3, M5</td></tr><tr><td>M5</td><td>M4, M6</td></tr><tr><td>M6</td><td>M5</td></tr></table>	M	TPC	M3	M4	M4	M3, M5	M5	M4, M6	M6	M5	Ordering Code: SLH10 Application Notes Applicable to Shaft Bore Specs. P, N, C only. <table><tr><th>Set Screws</th><th>SLH</th></tr><tr><td>M3x3</td><td>6</td></tr><tr><td>M4x3</td><td>5, 8</td></tr><tr><td>M5x4</td><td>6, 10</td></tr><tr><td>M6x5</td><td>10</td></tr></table>	Set Screws	SLH	M3x3	6	M4x3	5, 8	M5x4	6, 10	M6x5	10
	M	TPC																							
	M3	M4																							
	M4	M3, M5																							
M5	M4, M6																								
M6	M5																								
Set Screws	SLH																								
M3x3	6																								
M4x3	5, 8																								
M5x4	6, 10																								
M6x5	10																								
For details, see Shaft Alteration Overview. SEE P.1414																									

Alterations	Add Side Holes ⚠ Conditions may vary depending on the shaft bore specs. P.1414		
	Side Tapped Hole QTC, QFC, QSC	Side Through Hole KTC, KFC, KSC	Side Counterbored ZTC, ZFC, ZSC
Code			
Spec.	Machines tapped hole on the side surface of hub side. Ordering Code: QTC28-M4 Q - C Selection: Specify the hole position (P. C. D. dim.). M Selection: M3, M4, M5, M6, M8 Application Notes: ⚠ Not applicable to Shape K. ⚠ 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: KT C28-K4.5 K - C Selection: Specify the hole position (P. C. D. dim.). K Code K: K4.0 ~ 13.0 (0.5mm Increments) Application Notes: ⚠ Not applicable to Shape K. ⚠ 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 Z - C Selection: Specify the hole position (P. C. D. dim.). Z Selection: ZM3, ZM4, ZM5, ZM6, ZM8 Application Notes: ⚠ Not applicable to Shape K. ⚠ Minimum Thickness: 2mm Formula P.1414 ⚠ Conditions may vary depending on the shaft bore specs. P.1414
	(6 places) QSC (4 places) QFC (3 places) QTC (6 places) KSC (4 places) KFC (3 places) KTC (6 places) ZSC (4 places) ZFC (3 places) ZTC		

For details, see Shaft Alteration Overview. **P.1414**