

Keyless High Torque Timing Pulleys - S8M


Compatible with S8M type from Mitsubishi Belting Ltd. as well as Bando Chemical Industries Ltd.

Keyless High Torque Timing Pulleys - S8M

MechaLock Standard Type Incorporated (with Centering Function)

Compatible with S8M type from Mitsubishi Belting Ltd. as well as Bando Chemical Industries Ltd.

For High Torque Timing Belts, see **P.1465**. For Open End Belts, see **P.1476**.



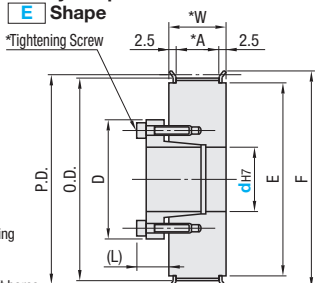
Type	Part Number				Material	Surface Treatment
	Belt Width: 15mm A:17W:22	Belt Width: 25mm A:28W:33	Belt Width: 30mm A:33W:38	Belt Width: 40mm A:44W:49		
HTLA	S8M150	S8M250	S8M300	S8M400	EN AW-7075 Equiv.	EN 1.1191 Equiv. Clear Anodize
HTLK					Aluminum Alloy 5000 series	EN 1.1191 Equiv. Hard Clear Anodize
HTPL					EN 1.1191 Equiv.	EN Black Oxide
HTLG					EN 1.1191 Equiv.	EN Electroless Nickel Plating

Table 1: Select Shaft Bore Dia.

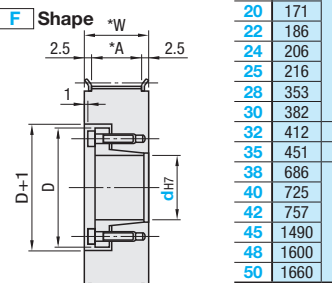
dh7	ST Bushing	SH Bushing	ST Bushing	SH Bushing	(L)
12	48	23	32	31	10.5
14	73		35		12
15	78		36		13
16	83		37		14
17	88		38		15.5
18	154		43		16.5
19	163		45		19
20	171		46		20
22	186		48		24.5
24	206		50		
25	216		52		
28	353		54		
30	382		57		
32	412	163	59	58	
35	451	173	63	61	
38	686		70		
40	725		71		
42	757		74		
45	1490		84		
48	1600		87		
50	1660		89		

Pulley Shape

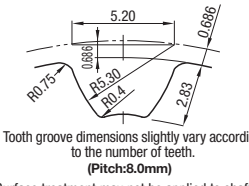
E Shape



F Shape



Standard Tooth Profile




Tooth groove dimensions slightly vary according to the number of teeth. (Pitch: 8.0mm)

- 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**.
- Machined Flange for 72 Toothed Pulleys. * For quantity and size of tightening screws with flange installed, see **P.1425**.

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
F	52	55	58	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

Features: MechaLock Standard Type (**P.1491**) Incorporated Timing Pulleys. It tolerates an average of 1.2 times and 2.5 times greater torque compared to the conventional ST bushing and SH bushing respectively.



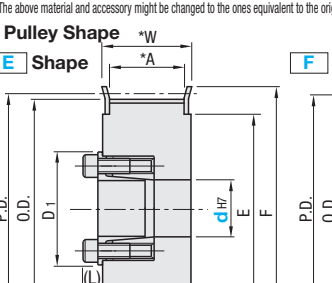
Type	Part Number				Material	Surface Treatment
	Belt Width: 15mm A:17W:22	Belt Width: 25mm A:28W:33	Belt Width: 30mm A:33W:38	Belt Width: 40mm A:44W:49		
HHTA	S8M150	S8M250	S8M300	S8M400	EN AW-7075 Equiv.	EN 1.1191 Equiv. Clear Anodize
HHTK					EN AW-5052 Equiv.	EN 1.1191 Equiv. Hard Clear Anodize
HHTN					EN 1.1191 Equiv.	EN Electroless Nickel Plating
HHTT					EN 1.1191 Equiv.	EN Black Oxide
HHTM					EN 1.0330 Equiv.	EN 1.1191 Equiv. Electroless Nickel Plating
HHTP					EN 1.1191 Equiv.	EN Electroless Nickel Plating

Table 1: Select Shaft Bore Dia.

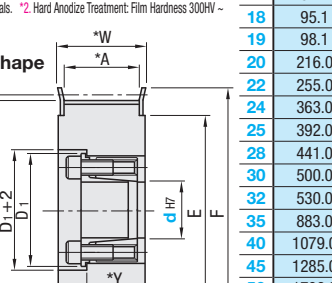
dh7	HHTA, HHTK, HHTN	HHTM	HHTP	D ₁ (L)
12	44.1		36.2	28.5
14	63.7		50.9	30.5
15	80.4		54.8	31.5
16	83.3		58.8	33.0
17	92.2		76.4	33.5
18	95.1		80.3	34.5
19	98.1		85.2	35.5
20	216.0	183.0	42.0	
22	255.0	201.0	44.0	
24	363.0	252.0	46.0	
25	392.0	264.0	47.0	
28	441.0	295.0	50.0	
30	500.0	396.0	52.0	
32	530.0	423.0	54.0	
35	883.0	548.0	62.0	
40	1079.0	779.0	67.0	
45	1285.0	882.0	72.0	
50	1706.0	1362.0	77.0	10.5

Pulley Shape

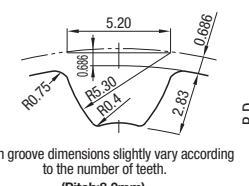
E Shape



F Shape



Standard Tooth Profile



Tooth groove dimensions slightly vary according to the number of teeth. (Pitch: 8.0mm)

- Surface treatment may not be applied to shaft bores.
- Machined Flange for 72 Toothed Pulleys.
- Flange is installed.
- For installation, see **P.1489**. For details of MechaLock, see **P.1491**.
- Y dimensions in () require the shaft bore diameter of 24 or more.

Number of Teeth	19	20	21	22	24	25	26	28	30	32	34	36	38	40	44	48	50	60	72
P.D.	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.	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
F	55	58	61	67	70	74	80	87	87	95	99	104	111	119	127	135	160	190	
E	40	40	45	45	50	56	58	60	67	67	75	80	84	90	100	105	115	140	170

Part Number	dh7 Range (): Select the former or latter, (-): Specify in 1mm Increment																
	Shape E				Shape F				Shape F								
Type	Number of Teeth	Type, Nominal Width	Pulley Shape	S8M150	S8M250	S8M300	S8M400	S8M150	S8M250	S8M300	S8M400	SH Bushing	ST Bushing: 12-30, SH Bushing: 32, 35	ST Bushing: 15-32, SH Bushing: 35	S8M400		
HTLA HTLK HTPL HTLG	18	*A:17	E	12	12	-	-	-	12	12	14, 15	-	-	-	-	-	
	19	*W:22	E	12, 14, 15	12, 14, 15	15	-	12	12, 14, 15	15	-	-	-	-	-	-	
	20	*W:22	E	12, 14-17	12, 14-17	15-17	-	12	12, 14-17	15-17	16, 17	-	-	-	-	-	
	21		F	12, 14-17	12, 14-17	15-17	-	12	12, 14-17	15-17	16, 17	-	-	-	-	-	
	22		E	12, 14-17	12, 14-17	15-17	-	12	12, 14-17	15-17	16, 17	-	-	-	-	-	
	24		E	12, 14-17	12, 14-17	15-17	-	12	12, 14-17	15-17	16, 17	-	-	-	-	-	
	25		F	12, 14-17	12, 14-17	15-17	-	12	12, 14-17	15-17	16, 17	-	-	-	-	-	
	26		E	12, 14-20, 22, 24, 25	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	12	12, 14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	14-20	15-20, 22, 24, 25	16-20, 22, 24, 25	16-20, 22, 24, 25		
	28		E	14-20, 22, 24, 25	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	14-20	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	16-20, 22, 24, 25		
	30		F	14-20, 22, 24, 25	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	14-20	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	14-20, 22, 24, 25	15-20, 22, 24, 25	16-20, 22, 24, 25	16-20, 22, 24, 25		
	32		E	14-20, 22, 24, 25, 28, 30, 32	14-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	14-20	14-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	14-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32		
	34		F	14-20, 22, 24, 25, 28, 30, 32	14-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	14-20	14-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	14-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32		
36		E	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35	16-20, 22, 24, 25, 28, 30, 32, 35			
38		F	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38	16-20, 22, 24, 25, 28, 30, 32, 35, 38			
40		E	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	16-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42		
44		F	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42		
48		E	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42		
50		F	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 50	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 50	20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42, 45, 48, 50	20, 22, 24, 25,											