

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.

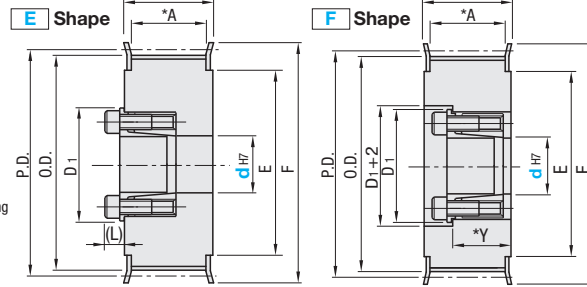
■ Features: MechaLock Standard Type (P1491) Incorporated Timing Pulleys. It tolerates an average of 1.2 times and 2.5 times greater torque compared to the conventional ST bushing and SH bushing respectively.



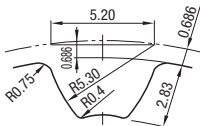
Type	Part Number				Material *1		Surface Treatment				
	Belt Width: 15mm A17 W22	Belt Width: 25mm A28 W33	Belt Width: 30mm A33 W38	Belt Width: 40mm A44 W49	Pulley	Flange	MechaLock	Pulley	Flange	MechaLock	
	S8M150	S8M250	S8M300	S8M400							
HHTA	●	●	●	●	A7075	A5052	S45C	Clear Anodize	-	-	
HHTK	●	●	●	●				Hard Clear Anodize *2	-	-	-
HHTN	●	●	●	●	S45C Equivalent	SPCC	S45C	Electroless Nickel Plating	-	-	
HHTT	●	●	●	●				Black Oxide	-	-	-
HHTM	●	●	●	●				Electroless Nickel Plating	-	-	-
HHTP	●	●	●	●							

*1. The above material and accessory might be changed to the ones equivalent to the originals. *2. Hard Anodize Treatment: Film Hardness 300HV ~

• Pulley Shape



Standard Tooth Profile



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

dH7	Max. Allowable Torque (N·m)				D1 (L)
	HHTA, HHTK, HHTN, HHTM	HHTP			
12	44.1	36.2	28.5		6.5
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		8
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		8.5
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		
72					10.5

- ① Surface treatment may not be applied to shaft bores.
- ② Machined Flange for 72 Toothed Pulleys.
- ③ Flange is installed.
- ④ For installation, see P1489. For details of MechaLock, see P1491.
- ⑤ 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	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

Type	Part Number	Type, Nominal Width	Pulley Shape	dH7 Range (): Select the former or latter, (-): Specify in 1mm Increment						
				Shape E				Shape F		
				S8M150	S8M250	S8M300	S8M400	S8M250	S8M300	S8M400
HHTA HHTK HHTN HHTT HHTM HHTP	19	S8M150 *A:17 *W:22 S8M250 *A:28 *W:33 *Y:22 (d24-30;Y=24) (d32-Y=24.5) S8M300 *A:33 *W:38 *Y:24 (d24-32;Y=25) (d35-Y=28) S8M400 *A:44 *W:49 *Y:30 (d24-32;Y=31) (d35-Y=34)	E	12, 14	12, 14	12, 14	12, 14	12, 14	12, 14	12, 14
	20			12, 14-16	12, 14-16	12, 14-16	12, 14-16	12, 14-16	12, 14-16	
	21			12, 14-19	12, 14-19	12, 14-19	12, 14-19	12, 14-19	12, 14-19	
	22			12, 14-20	12, 14-20	12, 14-20	12, 14-20	12, 14-20	12, 14-20	
	24			14-20, 22	14-20, 22	14-20, 22	14-20, 22	14-20, 22	14-20, 22	
	25			14-20, 22	14-20, 22, 24, 25, 28	14-20, 22, 24, 25, 28	14-20, 22, 24, 25, 28	14-20, 22, 24, 25, 28	14-20, 22, 24, 25, 28	
	26			16-20, 22	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	
	28			20, 22	20, 22, 24, 25, 28, 30, 32, 35	20, 22, 24, 25, 28, 30, 32, 35	20, 22, 24, 25, 28, 30, 32, 35	20, 22, 24, 25, 28, 30, 32, 35	20, 22, 24, 25, 28, 30, 32, 35	
	30			20, 22	20, 22, 24, 25, 28, 30, 32, 35, 40, 45	20, 22, 24, 25, 28, 30, 32, 35, 40, 45	20, 22, 24, 25, 28, 30, 32, 35, 40, 45	20, 22, 24, 25, 28, 30, 32, 35, 40, 45	20, 22, 24, 25, 28, 30, 32, 35, 40, 45	
	32			20, 22	20, 22, 24, 25, 28, 30, 32, 35, 40, 45, 50	20, 22, 24, 25, 28, 30, 32, 35, 40, 45, 50	20, 22, 24, 25, 28, 30, 32, 35, 40, 45, 50	20, 22, 24, 25, 28, 30, 32, 35, 40, 45, 50	20, 22, 24, 25, 28, 30, 32, 35, 40, 45, 50	

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
HHTA 60S8M300 - F - 40

Number of Teeth	Body Price 1 ~ 10 pcs(s).								dH7	MechaLock Incorporation Charge (+ Body Price)		
	HHTA (x1.0)	HHTK (x1.1)	HHTN (x1.2)	HHTT (x1.0)	HHTM (x1.05)	HHTP (x1.15)	S8M150	S8M250			S8M300	S8M400
19											12	
20											14	
21											15	
22											16	
24											17	
25											18	
26											19	
28											20	
30											22	
32											24	
34											25	
36											28	
38											30	
40											32	
44											35	
48											40	
50											45	
60											50	
72												

For orders larger than indicated quantity, please request a quotation.

Alterations: Part Number - Pulley Shape - Shaft Bore Dia. - (BMC-etc)
HHTA 60S8M300 - E - 40 - BMC

Alterations Code	Surface Treatment	Flange Cut
	BMC, BMR	FC
Spec.	Applies electroless nickel plating on a MechaLock. (Anti-rust treatment is applied to screws.) Electroless nickel plated bushing decreases allowable torque by 20 ~ 30%. BMC: Not RoHS Compliant (Screw: SCM435 Dacrolized Treatment) BMR: RoHS Compliant (Screw: SCM435 GeoMet Coating)	Lowers flange by cutting. FC: 0.5mm Increment No surface treatment is applied on flange circumference. FC=(0, D.)+1 FC=F-2 Ordering Code FC35

Alterations Code	Flange Not Swaged	Flange Swaged on One Side
	NFC	LFC, RFC
Spec.	Flange is not installed. (Flange Included)	Flange is installed on either the bushing side (LFC) or the opposite side (RFC) prior to shipping. (Flange 1 pc. Included)