

Keyless High Torque Timing Pulleys - S5M

Compatible with S5M 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**.



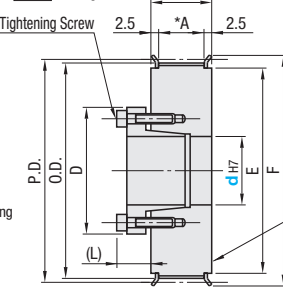
Type	Part Number			Material *1		Surface Treatment			
	Belt Width: 10mm A:11 W:16	Belt Width: 15mm A:17 W:22	Belt Width: 25mm A:27 W:32	Pulley	Flange	Bushing	Pulley	Flange	Bushing
	S5M100	S5M150	S5M250						
HTLA	●	●	●	A7075	A5052	S45C	Clear Anodize	-	-
HTLK	●	●	●				Hard Clear Anodize *2	-	-
HTLN	●	●	●				Electroless Nickel Plating	-	-
HTPL	●	●	●	S45C Equivalent	SPCC	S45C	Black Oxide	-	-
HTLG	●	●	●				Electroless Nickel Plating	-	-

*1. The above material and accessory might be changed to the ones equivalent to the originals.

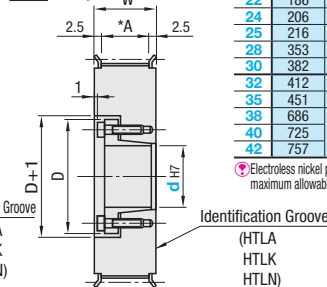
*2. Hard Clear Anodize: Film Hardness 300HV ~

• Pulley Shape

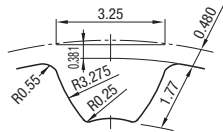
E Shape



F Shape



Standard Tooth Profile



Tooth groove dimensions slightly vary according to the number of teeth.
(Pitch:5.0mm)

Table 1: Select Shaft Bore Dia.

dH7	Max. Allowable Torque N · m				D	(L)
	ST Bushing	SH Bushing	ST Bushing	SH Bushing		
8	16	8.5	25.5	24.5	8.5	10.5
10	39	18	30	29		
11	43	20	31	30		
12	48	23	32	31		
14	73	37	35	36		12
15	78	39	36	37		
16	83	42	37	38		13
17	88	45	38	39		
18	154	48	43	40		14
19	163	49	45	42		
20	171	97	46	46		
22	186	110	48	47		
24	206	121	50	49		15.5
25	216	124	52	51		
28	353	141	54	53		16.5
30	382	149	57	56		
32	412	163	59	58		19
35	451	173	63	61		
38	686	-	70	-		20
40	725	-	71	-		
42	757	-	74	-		

⚠ Electroless nickel plated bushing (Alterations BMC, BMR) decreases maximum allowable torque and allowable thrust load by 20 ~ 30%.

Number of Teeth	22	24	25	26	28	30	32	34	36	40	44	48	50	60	72
P.D.	35.01	38.20	39.79	41.38	44.56	47.75	50.93	54.11	57.30	63.66	70.03	76.39	79.58	95.49	114.59
O.D.	34.05	37.24	38.83	40.42	43.60	46.79	49.97	53.15	56.34	62.70	69.07	75.43	78.62	94.53	113.63
F	40	45	45	48	48	52	55	61	61	67	74	83	87	99	119
E	27	30	30	35	35	36	40	45	45	50	58	63	67	80	100

⚠ 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**.

* For quantity and size of tightening screws with flange installed, see **P.1425**.

⚠ **P.1425**.

Type	Number of Teeth	Type, Nominal Width	Pulley Shape	dH7 Range (-): Specify in 1mm Increment, (,): Select the former or latter							
				Shape E			Shape F				
				S5M100 ST Bushing	S5M150 ST Bushing	S5M250 ST Bushing	S5M100 SH Bushing	S5M150 SH Bushing	S5M250 SH Bushing		
HTLA HTLK HTLN HTPL HTLG	22	S5M100 *A:11 *W:16	E	8	-	-	-	-	-	-	
	24			8, 10	10	10	8	8	8		
	25			8, 10-12	10-12	10-12	8	8, 10-12	8, 10-12		
	26			10-12, 14, 15	10-12, 14, 15	10-12, 14, 15	-	10-12	10-12		
	28			10-12, 14-17	10-12, 14-17	10-12, 14-17	-	10-12	10-12		
	30			S5M150 *A:17 *W:22	F	10-12, 14-17	10-12, 14-17	10-12, 14-17	-	10-12	10-12, 14-17
	32					12, 14-20, 22, 24, 25	-	12	12, 14-20, 22, 24, 25		
	34			S5M250 *A:27 *W:32	F	12, 14-20, 22, 24, 25, 28	-	12	12, 14-20, 22, 24, 25, 28		
	36					12, 14-20, 22, 24, 25, 28, 30, 32	-	12	12, 14-20, 22, 24, 25, 28, 30, 32		
	40			12, 14-20, 22, 24, 25, 28, 30, 32, 35, 38, 40	-	12	12, 14-20, 22, 24, 25, 28, 30, 32, 35, 38, 40				
	44			12, 14-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42	-	12	12, 14-20, 22, 24, 25, 28, 30, 32, 35, 38, 40, 42				
	48										
50											
60											
72											



Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
HTPL 60SSM100 - E - 32



Alterations: Part Number - Pulley Shape - Shaft Bore Dia. - (BMC, BMR, FC, NFC, LFC, RFC)
HTLA 44SSM150 - F - 12 - FC72

Number of Teeth	Unit Price					
	HTLA (x1.0)	HTLK (x1.1)	HTLN (x1.2)	HTPL (x1.0)	HTLG (x1.1)	
	S5M100	S5M150	S5M250	S5M100	S5M150	S5M250
22	Shape E	Shape F	Shape E	Shape F	Shape E	Shape F
24						
25						
26						
28						
30						
32						
34						
36						
40						
44						
48						
50						
60						
72						

Alterations	Surface Treatment
Code	BMC, BMR
Spec.	Applies electroless nickel plating on a bushing. (Antirusting treatment is applied to screws.) ⚠ Electroless nickel plated bushing decreases allowable torque by 20 ~ 30%. BMC: Not RoHS Compliant (Screw: SCM435 Dacrotized Treatment) BMR: RoHS Compliant (Screw: SCM435 GeoMet Coating)

Alterations	Flange Cut	Flange Not Swaged	Flange Swaged on One Side
Code	FC	NFC	LFC, RFC
Spec.	Lowers flange by cutting. FC: 0.5mm Increment ⚠ No surface treatment is applied on flange circumference. FCs (O.D.)+1 FC-F-2 Ordering Code FC35	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)