

Keyless Timing Pulleys - T5

Keyless Timing Pulleys - T5

MechaLock Standard Type Incorporated (With Centering Function)

For Timing Belts, see P.1470.

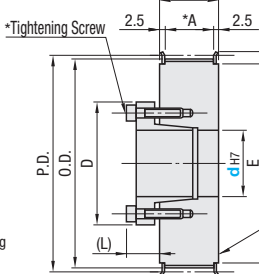


Type	Part Number				Material			Surface Treatment		
	Belt Width: 10mm A:11 W:16	Belt Width: 15mm A:17 W:22	Belt Width: 20mm A:22 W:27	Belt Width: 25mm A:27 W:32	Pulley	Flange	Bushing	Pulley	Flange	Bushing
TTLA	T5100	T5150	T5200	T5250	A7075	A5052	S45C	Clear Anodize	-	-
TTLK								Hard Clear Anodize	-	-

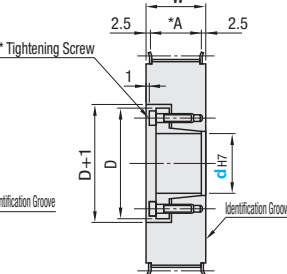
*1. The above material and accessory might be changed to the ones equivalent to the originals. *2. Hard Anodize Treatment: Film Hardness 300HV ~

Pulley Shape

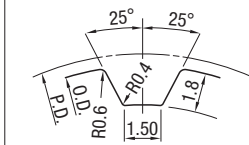
E Shape



F Shape



Standard Tooth Profile



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

Number of Teeth	22	24	25	26	28	30	32	34	36	40	44	48	50	60
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
O.D.	34.25	37.40	39.00	40.60	43.75	46.95	50.10	53.25	56.45	62.85	69.20	75.55	78.75	94.65
F	40	45	45	48	48	52	55	61	61	67	74	83	87	99
E	27	30	30	35	35	36	40	45	45	50	58	63	67	80

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.

Table 1: Select Shaft Bore Dia.

dh7	Max. Torque N · m				D	(L)
	ST Bushing	SH Bushing	ST Bushing	SH Bushing		
8	16	8.5	25.5	24.5	8.5	
10	39	18	30	29		
11	43	20	31	30	10.5	
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	15.5	
22	186	110	48	47		
24	206	121	50	49	16.5	
25	216	124	52	51		
28	353	141	54	53	19	
30	382	149	57	56		
32	412	163	59	58		
35	451	173	63	61		
38	686	-	70	-		
40	725	-	71	-		

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

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.

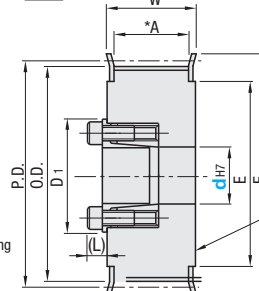


Type	Part Number				Material			Surface Treatment		
	Belt Width: 10mm A:11 W:16	Belt Width: 15mm A:17 W:22	Belt Width: 20mm A:22 W:27	Belt Width: 25mm A:27 W:32	Pulley	Flange	MechaLock	Pulley	Flange	MechaLock
HTTA	T5100	T5150	T5200	T5250	A7075	A5052	S45C	Clear Anodize	-	-
HTTK								Hard Clear Anodize	-	-

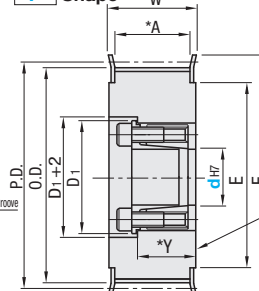
*1. The above material and accessory might be changed to the ones equivalent to the originals. *2. Hard Anodize Treatment: Film Hardness 300HV ~

Pulley Shape

E Shape



F Shape



Standard Tooth Profile



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

Number of Teeth	24	25	26	28	30	32	34	36	40	44	48	50	60
P.D.	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
O.D.	37.40	39.00	40.60	43.75	46.95	50.10	53.25	56.45	62.85	69.20	75.55	78.75	94.65
F	45	45	48	48	52	55	61	61	67	74	83	87	99
E	30	30	35	35	36	40	45	45	50	58	63	67	80

Surface treatment may not be applied to shaft bores.

Flange is installed.

For installation, see P.1489. For details of MechaLock, see P.1491

Y dimensions in () require the shaft bore diameter of 12 or more.

Part Number			Pulley Shape	dh7 Range (): Select the former or latter, (-): Specify in 1mm Increment									
Type	Number of Teeth	Type, Nominal Width		Shape E				Shape F					
				T5100 ST Bushing	T5150 ST Bushing	T5200 ST Bushing	T5250 ST Bushing	T5100 SH Bushing	T5150 SH Bushing	T5200 SH Bushing	T5250 SH Bushing		
TTLA TTLK	22	T5100 *A:11 *W:16	E	8				-					
	24			8, 10	10	-	-	8	8	8	8		
	25			8, 10~12	10~12	12	12	8	8, 10	8, 10	8, 10		
	26			8, 10~12	10~12	12	12	8	8, 10, 11	8, 10, 11	8, 10, 11		
	28	T5150 *A:17 *W:22		F	10~12, 14, 15	12, 14, 15			-	10~12	10~12	10~12	
	30				10~12, 14~17	12, 14~17			-	10~12	10~12, 14	10~12, 14	
	32				10~12, 14~17	10~12, 14~17			-	10~12	10~12, 14~18	10~12, 14~18	
	34	T5200 *A:22 *W:27			10~12, 14~17	12, 14~17		12, 14~17		-	10~12	10~12, 14~19	
	36				10~12, 14~17		12, 14~17		-	10~12	12, 14~20, 22, 24, 25		
	40				12, 14~20, 22, 24, 25		12, 14~20, 22, 24, 25		-	12	12, 14~20, 22, 24, 25, 28		
	44				12, 14~20, 22, 24, 25, 28		12, 14~20, 22, 24, 25, 28		-	12	12, 14~20, 22, 24, 25, 28, 30, 32		
	48	T5250 *A:27 *W:32			12, 14~20, 22, 24, 25, 28, 30, 32					-	12	12, 14~20, 22, 24, 25, 28, 30, 32	
	50				12, 14~20, 22, 24, 25, 28, 30, 32, 35, 38, 40					-	12	12, 14~20, 22, 24, 25, 28, 30, 32, 35	
60							-	12					