

Keyless Timing Pulleys - T5

Keyless Timing Pulleys - T5 MechaLock Standard Type Incorporated (With Centering Function)

For Timing Belts, see P.1470.

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	10.5
11	43	20	31	30	10.5
12	48	23	32	31	11
14	73	37	35	36	12
15	78	39	36	37	12
16	83	42	37	38	13
17	88	45	38	39	13
18	154	48	43	40	14
19	163	49	45	42	14
20	171	97	46	46	14
22	186	110	48	47	15.5
24	206	121	50	49	15.5
25	216	124	52	51	16
28	353	141	54	53	16.5
30	382	149	57	56	16.5
32	412	163	59	58	17
35	451	173	63	61	17
38	686	-	70	-	19
40	725	-	71	-	19

Standard Tooth Profile

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

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
TTLA40T5250 - E - 15

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.

Table 1: Select Shaft Bore Dia.

dh7	Max. Allowable Torque (N · m)		D1 (L)
	ST Bushing	SH Bushing	
8	19.6	23.5	6
10	27.5	25.5	6
12	44.1	28.5	6.5
14	63.7	30.5	6.5
15	80.4	31.5	6.5
16	83.3	33.0	6.5
17	92.2	33.5	6.5
18	95.1	34.5	6.5
19	98.1	35.5	6.5
20	216.0	42.0	8
22	255.0	44.0	8
24	363.0	46.0	8
25	392.0	47.0	8
28	441.0	50.0	8.5
30	500.0	52.0	8.5
32	530.0	54.0	8.5

Standard Tooth Profile

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

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
HTTA48T5250 - F - 20

Part Number	Type	Number of Teeth	Type, Nominal Width	Pulley Shape	dh7 Range (): Select the former or latter, (-): Specify in 1mm Increment							
					Shape E				Shape F			
					T5100	T5150	T5200	T5250	T5100	T5150	T5200	T5250
					ST Bushing	ST Bushing	ST Bushing	ST Bushing	SH Bushing	SH Bushing	SH Bushing	SH Bushing
TTLA	22	24	25	E	8							
TTLA	24	25	26	E	8, 10				8	8	8	8
TTLA	26	28	30	E	8, 10-12	10-12	12	12	8	8, 10	8, 10	8, 10
TTLA	28	30	32	E	8, 10-12	10-12	12	12	8	8, 10, 11	8, 10, 11	8, 10, 11
TTLA	30	32	34	E	10-12, 14, 15	10-12	12, 14, 15	12, 14, 15	-	10-12	10-12	10-12
TTLA	32	34	36	E	10-12, 14-17	10-12	12, 14-17	12, 14-17	-	10-12	10-12, 14	10-12, 14
TTLA	34	36	38	F	10-12, 14-17	10-12, 14-17	12, 14-17	12, 14-17	-	10-12	10-12, 14-18	10-12, 14-18
TTLA	40	44	48	F	10-12, 14-17	12, 14-17	12, 14-20, 22, 24, 25	12, 14-20, 22, 24, 25	-	10-12	10-12, 14-19	10-12, 14-19
TTLA	44	48	50	F	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25, 28	-	12	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25, 28
TTLA	50	54	60	F	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32	-	12	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32

Part Number	Type	Number of Teeth	Type, Nominal Width	Pulley Shape	dh7 Range (-): Specify in 1mm Increment, (): Select the former or latter							
					Shape E				Shape F			
					T5100	T5150	T5200	T5250	T5150	T5200	T5250	
HTTA	24	25	26	E	8	8	8	8	8	8	8	
HTTA	26	28	30	E	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10	
HTTA	30	32	34	E	10	10	10	10	10	10	10	
HTTA	32	34	36	E	10, 12, 14	10, 12, 14	10, 12, 14	10, 12, 14	10, 12, 14	10, 12, 14	10, 12, 14	
HTTA	34	36	38	F	10, 12, 14	10, 12, 14-16	10, 12, 14-16	10, 12, 14-16	10	10, 12, 14-16	10, 12, 14-16	
HTTA	40	44	48	F	10, 12, 14	10, 12, 14-19	10, 12, 14-19	10, 12, 14-19	10	10, 12, 14-19	10, 12, 14-19	
HTTA	44	48	50	F	12, 14	12, 14-20, 22	12, 14-20, 22	12, 14-20, 22	-	12, 14-19	12, 14-20, 22	
HTTA	48	50	60	F	12, 14	12, 14-20, 22	12, 14-20, 22, 24	12, 14-20, 22, 24	-	12, 14-19	12, 14-20, 22, 24	
HTTA	50	54	60	F	12, 14	12, 14-20, 22	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25, 28	-	12, 14-19	12, 14-20, 22, 24, 25, 28	
HTTA	60	60	60	F	12, 14	12, 14-20, 22	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32	-	12, 14-19	12, 14-20, 22, 24, 25, 28, 30	

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
TTLA40T5250 - E - 15

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
HTTA48T5250 - F - 20

Unit Price

Number of Teeth	TTLA (x1.0)				TTLK (x1.1)			
	T5100	T5150	T5200	T5250	T5100	T5150	T5200	T5250
22								
24								
25								
26								
28								
30								
32								
34								
36								
40								
44								
48								
50								
60								

Alterations

Code	Surface Treatment	Pulley for Replacement (Pulley only)
BMC, BMR	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)	OP

Pulleys will be shipped bushings uninstalled.

Alterations

Code	Flange Cut	Flange Not Swaged	Flange Swaged on One Side
FC	FC: 0.5mm Increment *No surface treatment is applied on flange circumference.	NFC	LFC, RFC

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)

Body Price 1 ~ 10 pc(s).

Number of Teeth	HTTA			HTTK		
	T5100	T5150	T5200	T5100	T5150	T5200
24						
25						
26						
28						
30						
32						
34						
36						
40						
44						
48						
50						
60						

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

Alterations

Code	Surface Treatment	Flange Cut
BMC, BMR	Applies electroless nickel plating on a MechaLock. (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)	FC

Lowers flange by cutting. FC: 0.5mm Increment
*No surface treatment is applied on flange circumference.

Alterations

Code	Flange Not Swaged	Flange Swaged on One Side
NFC	LFC, RFC	LFC, RFC

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)