

Keyless Timing Pulleys - L

MechaLock Standard Type Incorporated (With Centering Function)

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.



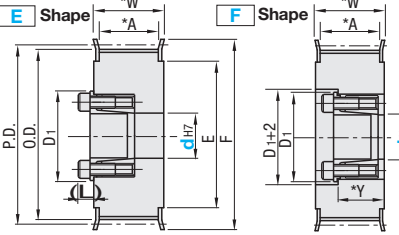
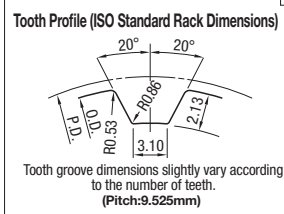
Type	Part Number				Material *1		Surface Treatment			
	Belt Width 12.7mm (1/2inch) A:14 W:19	Belt Width 19.1mm (3/4inch) A:21 W:26	Belt Width 25.4mm (1inch) A:27 W:32	Belt Width 38.1mm (1.5inch) A:40 W:45	Pulley	Flange	MechaLock	Pulley	Flange	MechaLock
	L050	L075	L100	L150						
HPLA	●	●	●	●	Extra super Duralumin series Duralumin alloy	A5052	S45C	Clear Anodize	-	-
HPLK	●	●	●	●						
HPLN	●	●	●	●	A7075			Electroless Nickel Plating	-	-
HPLT	●	●	●	●	S45C Equivalent	SPCC	S45C	-	-	-
HPLM	●	●	●	●						
HPLP	●	●	●	●						

Table 1: Select Shaft Bore Dia.

dH7	Max. Allowable Torque (N · m)			D1	(L)
	HPLA, HPLK HPLN, HPLT, HPLM	HPLP			
8	19.6	16.6	23.5	6	6
10	27.5	19.6	25.5		
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	6.5	6.5
17	92.2	76.4	33.5		
18	95.1	80.3	34.5		
19	98.1	85.2	35.5	8	8
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	8.5	8.5
30	500.0	396.0	52.0		
32	530.0	423.0	54.0		
35	883.0	548.0	62.0	10	10
40	1079.0	779.0	67.0		
45	1285.0	882.0	72.0		
50	1706.0	1362.0	77.0	10.5	10.5

*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



- Surface treatment may not be applied to shaft bores.
- Flange is installed.
- For installation, see P.1489. For details of MechaLock, see P.1491.
- Cut Flange for 60 and 72 Toothed Pulleys.
- Y dimensions in () require the shaft bore diameter of 12 or more.

Number of Teeth	14	15	16	17	18	19	20	21	22	24	25	26	28	28	30	32	34	34	36	38	40	42	44	48	50	60	72
P.D.	42.45	45.48	48.51	51.54	54.57	57.61	60.64	63.67	66.70	72.77	75.80	78.83	84.89	90.96	97.02	103.08	109.15	115.21	121.28	127.34	133.40	145.53	151.60	181.91	218.30		
O.D.	41.68	44.72	47.75	50.78	53.81	56.84	59.88	62.91	65.94	72.00	75.04	78.07	84.13	90.20	96.26	102.32	108.39	114.45	120.51	126.58	132.64	144.77	150.83	181.15	217.53		
F	48	48	55	55	61	67	67	70	80	87	87	87	95	99	104	111	123	127	131	135	140	152	160	190	225		
E	35	35	40	40	45	50	50	56	60	67	67	67	75	80	84	90	102	105	110	115	120	130	140	170	200		

Type	Number of Teeth	Type, Nominal Width, Nominal Width	Pulley Shape	dH7 Range (,): Select the former or latter, (-): Specify in 1mm increment									
				Shape E				Shape F					
				L050	L075	L100	L150	L050	L075	L100	L150		
HPLA HPLK HPLN HPLT HPLM HPLP	14	L050	E	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10	8, 10
	15			10, 12, 14	10, 12, 14	10, 12, 14	10, 12, 14	10	10, 12, 14	10, 12, 14	10, 12, 14		
	16			10, 12, 14-16	10, 12, 14-16	10, 12, 14-16	10, 12, 14-16	10	10, 12, 14-16	10, 12, 14-16	10, 12, 14-16		
	17			12, 14-19	12, 14-19	12, 14-19	12, 14-19	-	12, 14-19	12, 14-19	12, 14-19		
	18			12, 14-19	12, 14-20	12, 14-20	12, 14-20	-	12, 14-19	12, 14-20	12, 14-20		
	19			12, 14-19	12, 14-20, 22	12, 14-20, 22	12, 14-20, 22	-	12, 14-19	12, 14-20, 22	12, 14-20, 22		
	20			12, 14-19	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25, 28	-	12, 14-19	12, 14-20, 22, 24, 25, 28	12, 14-20, 22, 24, 25, 28		
	21			12, 14-19	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, 14-19	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32		
	22			12, 14-19	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, 14-19	12, 14-20, 22, 24, 25, 28, 30, 32	12, 14-20, 22, 24, 25, 28, 30, 32		
	23			15-19	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	-	15-19	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32		
	24			15-19	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	-	15-19	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32		
	25			15-19	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32	-	15-19	15-20, 22, 24, 25, 28, 30, 32	15-20, 22, 24, 25, 28, 30, 32		
	26			16-20	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	-	16-19	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32		
	27			16-19	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32	-	16-19	16-20, 22, 24, 25, 28, 30, 32	16-20, 22, 24, 25, 28, 30, 32		

Ordering Example: Part Number - Pulley Shape - Shaft Bore Dia.
HPLA20L075 - F - 15

Number of Teeth	Body Price 1 ~ 10 pc(s).							
	HPLA (x1.0)	HPLK (x1.1)	HPLN (x1.2)	HPLT (x1.0)	HPLM (x1.05)	HPLP (x1.15)		
	L050	L075	L100	L150	L050	L075	L100	L150
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dH7	MechaLock Incorporation Charge (+ Body Price)
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Alterations: Part Number - Pulley Shape - Shaft Bore Dia. - (BMC-etc.)
HPLA20L075 - F - 15 - BMC

Alteration Code	Surface Treatment	
	BMC, BMR	FC
Spec.	Applies electroless nickel plating on a MechaLock. (Antrusting treatment is applied to screws.) Electroless nickel plated bushing decreases allowable torque by 20 ~ 30%. BMC: Not RoHS Compliant (Screw: SCM435 Descrized 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: (O.D.) + 1 FC: F-2 Ordering Code FC35

Alterations Code	Flange Swaged	
	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)

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