Timing Pulleys - L

For e-Catalog non-standard products, see P.131.

For Timing Belts, see P.1497. For Long Timing Belts, see P.1507. For Keyless Timing Pulleys, see P.1461, 1462. For Idlers with Teeth, see P.1481.

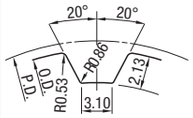
RoHS10

Type	Belt Width 12.7mm (1/2inch) L050	19.1mm (3/4inch) L075	25.4mm (1inch) L100	38.1mm (1.5inch) L150	Material*1 Pulley	Material*1 Flange*3	Surface Treatment	Accessory*1 Set Screws
ATPA	●	●	●	●	Extra Super Duralumin Aluminum Alloy	Aluminum Alloy	Clear Anodize	SUS304
ATPB	●	●	●	●			Black Anodize	
ATPK	●	●	●	●			Hard Clear Anodize*2	
ATPN	●	●	●	●			Electroless Nickel Plating	
ATPT	●	●	●	●	S45C Equivalent	SPCC	-	SCM435 (Black Oxide)
ATP	●	●	●	●			Black Oxide	
ATPP	●	●	●	●			Electroless Nickel Plating	

Flange is already swaged, and set screws are included with for Shaft Bores P, N and C.

*1. The above material and accessory might be changed to the ones equivalent to the originals.
*2. Hard Clear Anodize: Film Hardness 300HV ~
*3. Flange is not included for Shape D.

Tooth Profile (ISO Standard Rack Dimensions)

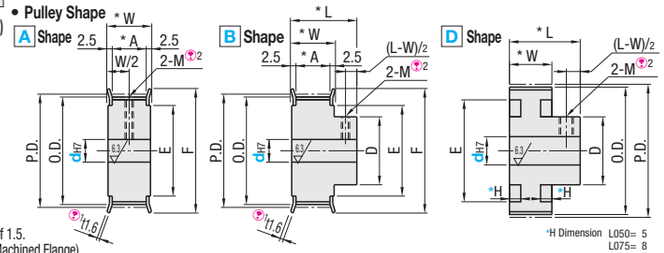


Tooth groove dimensions slightly vary according to the number of teeth.

(Pitch: 9.525mm)

Aluminum flanges will have a thickness of 1.5.
1. t=2.0 for 60 and 72 toothed pulleys. (Machined Flange)
2. Shaft Bore Specs. H (Round hole), V or F (Stepped Hole), Y (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

• Pulley Shape



*H Dimension L050= 5, L075= 8, L100= 11

Tapped Hole Dimensions (Shaft Bore Specs.: P, N, C)

dH7 Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
6~12	M4	M4x3
13~17	M5	M5x4
18~30	M6	M6x5
31~45	M8	M8x6
46~70	M10	M10x8

Number of Teeth / Dimension

mm	Number of Teeth 10	12	14	15	16	17	18	19	20	21	22	24	25	26	28	30	32	34	36	38	40	42	44	46	48	50	60	72
P.D.	30.32	36.38	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	139.47	145.53	151.60	181.91	218.30
O.D.	29.56	35.62	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	138.71	144.77	150.83	181.15	217.53
D	22	27	30	30	32	34	36	38	40	42	45	50	50	50	50	56	56	63	63	63	63	71	71	71	71	71	71	71
F	36	45	48	48	55	55	61	67	67	70	80	87	87	87	95	99	104	111	123	127	131	135	140	144	152	160	190	225
E	24	30	35	35	40	40	45	50	50	56	60	67	67	67	75	80	84	90	102	105	110	115	120	125	130	140	170(180)	200(197)

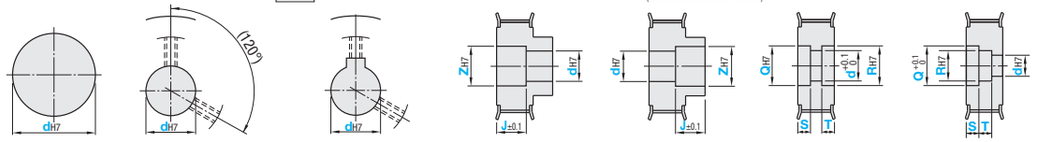
E dimensions in ( ) are for Shape D.

Belt Nominal Width / Dimension

mm	Nominal L050	L075	L100	L150
A	14	21	27	40
W	19	26	32	45
L Number of Teeth 10~50	31	38	44	57
L Number of Teeth 60, 72	39	46	53	57

• **Shaft Bore Specs.** Select shaft bore spec mark and each dim. from the table below.
Surface treatment may not be applied to shaft bores.

H Round Hole | P Round Hole + Tap | N New JIS Keywayed Bore + Tap | C Old JIS Keywayed Bore + Tap | V Stepped Hole | F Stepped Hole (Counterbored Holes on the Hub Side) | Y Both Ends Stepped Hole | WB Two-stepped Hole



No tapped holes or set screws.
Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.

For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks.
Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.

For Keyway Dimension Details, see P.1413. Specify NK10 when selecting "New JIS Keywayed Bore" + "Shaft Bore Dia. 10" + "Keyway Width 4.0mm (Height 1.8mm)".

Not applicable to Shape D.
No tapped holes or set screws.
Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.

Applicable to Shape B only.
No tapped holes or set screws.
Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.

Applicable to Shape A only.
Shaft Bore Dia. d is +0.1 / 0
No tapped holes or set screws.

Applicable to Shape A only.
No tapped holes or set screws.

| Part Number | | | | Pulley Shape | | | |