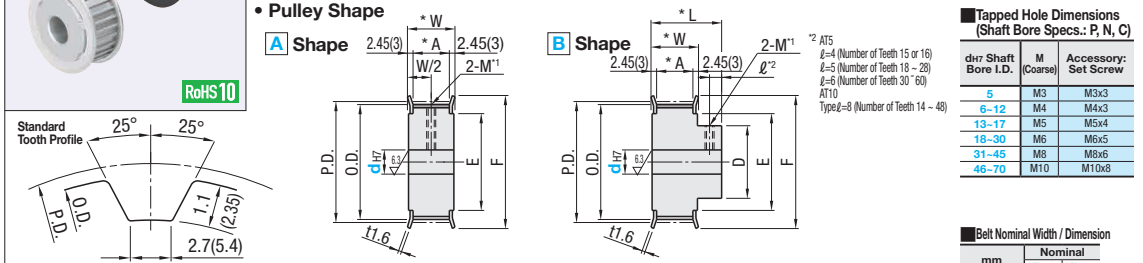


Timing Pulleys AT5 / AT10

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

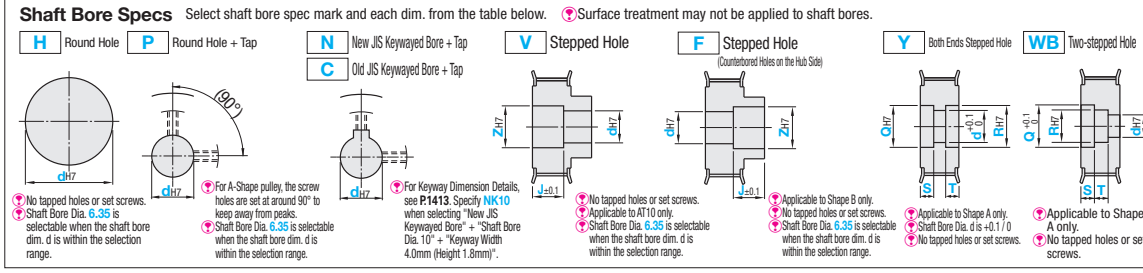
Features: Compatible with AT type with allowable tension 1.3 times greater than T type.
 For Long Timing Belts, see P.1507. For Open End Belts, see P.1509. For Idlers with Teeth, see P.1489.

Type	Belt Width					Material ¹⁾		Surface Treatment	Accessory ¹⁾ Set Screws
	AT5		AT10			Pulley	Flange		
	10mm	15mm	15mm	20mm	25mm				
AT5100	●	●	●	●	●	Aluminum Alloy	Aluminum Alloy	Clear Anodize Black Anodize Hard Clear Anodize ²⁾ Electroless Nickel Plating	SUS304
AT5150	●	●	●	●	●				
AT10150	●	●	●	●	●				
AT10250	●	●	●	●	●				



Tooth groove dimensions slightly vary according to the number of teeth. The dimensions in () are for AT10. Aluminum flanges will have a thickness of 1.5.
 * Shaft Bore Specs. H (Round Hole), V or F (Stepped Hole), (Both Sides Stepped Hole) and WB (Two-stepped Hole) do not have tapped holes.

Number of Teeth / Dimensions (AT5)											Number of Teeth / Dimensions (AT10)											
Number of Teeth											Number of Teeth											
mm	15	16	18	20	22	24	25	26	28	30	mm	14	15	16	18	20	22	24	25	26	28	30
P.D.	23.87	25.46	28.65	31.83	35.01	38.2	39.79	41.38	44.56	47.75	P.D.	44.56	47.75	50.93	57.3	63.66	70.03	76.38	79.58	82.76	89.13	95.49
O.D.	22.65	24.20	27.40	30.60	33.85	37.00	38.60	40.20	43.35	46.55	O.D.	42.70	45.90	49.05	55.45	61.80	68.15	74.55	77.70	80.90	87.25	93.65
D	13	16	16	20	20	25	25	30	35	35	D	34	35	35	40	40	50	50	60	60	60	60
F	28	32	33	36	40	45	45	48	48	55	F	52	58	58	61	67	80	87	87	95	104	111
E	18	20	22	24	27	30	30	35	40	45	E	36	40	40	45	50	60	67	67	75	84	90
I	4	4	5	5	5	5	5	5	6	6	I	8	8	8	8	8	8	8	8	8	8	8



AT5											AT10										
Pulley Shape											Pulley Shape										
Type	Number of Teeth	Type Nominal Width	Pulley Shape	Shaft Bore Specs. "A": 1mm Increments "B": Selectable					Shaft Bore Specs. "A": 1mm Increments "B": Selectable												
				H (Round Hole)	P (Round Hole + Tap)	N (New JIS Keyway Bore + Tap)	V (Stepped Hole)	WB (Two-stepped Hole)	H (Round Hole)	P (Round Hole + Tap)	N (New JIS Keyway Bore + Tap)	V (Stepped Hole)	WB (Two-stepped Hole)								

AT5											AT10										
Pulley Shape											Pulley Shape										
Type	Number of Teeth	Type Nominal Width	Pulley Shape	Shaft Bore Specs. "A": 1mm Increments "B": Selectable					Shaft Bore Specs. "A": 1mm Increments "B": Selectable												
				H (Round Hole)	P (Round Hole + Tap)	N (New JIS Keyway Bore + Tap)	V (Stepped Hole)	WB (Two-stepped Hole)	H (Round Hole)	P (Round Hole + Tap)	N (New JIS Keyway Bore + Tap)	V (Stepped Hole)	WB (Two-stepped Hole)								

Ordering Example: (Shaft Bore Specs.: H, P, N, C) TTPA30-AT5150 - A - NK10
 (Shaft Bore Specs.: V, F) TTPA50-AT1510 - B - F20 - Z30 - J20.0
 (Shaft Bore Specs.: Y, WB) TTPA24-AT10250 - A - Y25 - Q37 - R37 - S7 - T7

Tapped Hole Dimensions (Shaft Bore Specs.: P, N, C)		
Shaft Bore I.D.	M (Coarse)	Accessory: Set Screw
5	M3	M3x3
6-12	M4	M4x3
13-17	M5	M5x4
18-30	M6	M6x5
31-45	M8	M8x6
46-70	M10	M10x8

Belt Nominal Width / Dimension		
mm	Nominal	
A	11.6	16.6
W	16.5	21.5
L	25.0	30.0
L	27.0	32.0
L	29.0	34.0

AT5					AT10						
Number of Teeth	Body Price				Shaft Bore Machining Charge (Body Price +)	P Hole	N, C, V, F Hole	Y, WB Hole	P Hole	N, C, V, F Hole	Y, WB Hole
	AT5100	AT5150	AT10150	AT10250							
15											
16											
18											
20											
22											
24											
25											
26											
28											
30											
32											
36											
40											
44											
48											
50											
60											

Alterations: Part Number - Pulley Shape - Shaft Bore Specs., I.D. - Z - J - Q - R - S - T - (KC90... etc.)
 TTPA18-AT5100 - A - P10 - NFC

Alterations	Set Screw Angle	Flange Not Swaged	Flange Swaged on One Side	Flange Cut
Code	KC120	NFC	RFC, LFC	FC
Spec.	Changes angle layout of set screws to 120°. For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks.	(Flange 2 pcs. Included) Ordering Code: NFC	(Flange 1 pc. Included) Ordering Code: RFC, LFC. Not applicable to Shape K.	Cut the flange O.D. in 0.5mm increment. Ordering Code: FC17. No surface treatment is applied on flange circumference.

Alterations	Retaining Ring Groove	Adds taper for retaining bearing	Hub Shortening	Tapped Hole Dimensions
Code	SRG	BTC	BC	TPC, SLH
Spec.	Retaining Ring Groove applicable to the shaft dia. of stepped hole is machined. Retaining Ring Groove Dim. P.1413 (Specify SRG) 2.5-24mm. Minimum Thickness: 2mm. Applicable to Shaft Bore Specs. V and F only. Standards of retaining ring groove for Z dim. is applied.	Add taper for retaining bearing inner ring. Ordering Code: BTC4-TL1.5. Applicable to Shape A only. Applicable to Shaft Bore Specs. H and P only. LT<L-W.	Cuts the hub length in 0.5mm increment. Ordering Code: BC6.5. Applicable to Shaft Bore Specs. H, V, F. Shaft Bore Specs. P, N, C. M-3:BC-L-W. Not available for Shape A.	Changes the length of the included set screws. Ordering Code: TPC5, SLH10. Applicable to Shaft Bore Specs. P, N, C only. Not applicable to Shape A. Set Screws: M3x3, M4x3, M5x4, M6x5, M8x6, M10x8.

Alterations	Add Side Holes		
Code	Side Tapped Hole	Side Through Hole	Side Counterbored
Code	QTC, QFC, QSC	KTC, KFC, KSC	ZTC, ZFC, ZSC
Spec.	Machines tapped hole on the side surface of hub side. Ordering Code: QTC28-M4. Specify the hole position (P, C, D, dim.). Minimum Thickness: 2mm. Formula P.1414. Conditions may vary depending on the shaft bore specs. P.1414.	Machines through hole on the side surface. Ordering Code: KTC28-K4.5. Specify the hole position (P, C, D, dim.). Minimum Thickness: 2mm. Formula P.1414. Conditions may vary depending on the shaft bore specs. P.1414.	Machines counterbored hole on the side surface. Ordering Code: ZTC28-Z4. Specify the hole position (P, C, D, dim.). Minimum Thickness: 2mm. Formula P.1414. Conditions may vary depending on the shaft bore specs. P.1414.