

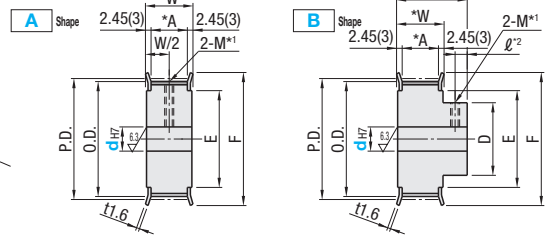
# Timing Pulleys AT5 / AT10

**Features:** AT type for heavy conveyance with allowable tension 1.3 times greater than T type.  
 For Long Timing Belts, see **1473**. For Open End Belts, see **1475**. For Idlers with Teeth, see **1455**.



Type	Belt Width					Material *1		Surface Treatment	Accessory *1 Set Screws
	10mm	15mm	15mm	20mm	25mm	Pulley	Flange		
AT5100	●	●	●	●	●	2000 Aluminum Alloy	Aluminum Alloy	Clear Anodize	EN 1.4301 Equiv.
AT5150	●	●	●	●	●	2000 Aluminum Alloy	Aluminum Alloy	Black Anodize	
AT10150	●	●	●	●	●	2000 Aluminum Alloy	Aluminum Alloy	Hard Clear Anodize *1	
AT10250	●	●	●	●	●	2000 Aluminum Alloy	Aluminum Alloy	Electroless Nickel Plating	

### Pulley Shape

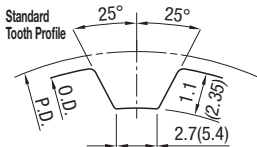


### Tapped Hole Dimensions (Shaft Bore Specs.: P, N, C)

dh7 Shaft Bore LD.	M (Coarse)	Accessory Set Screw
5	M3	M3x3
6-12	M4	M4x4
13-17	M5	M5x4
18-30	M6	M6x5
31-45	M8	M8x6
46-65	M10	M10x8

### Belt Nominal Width / Dimension

mm	Nominal	
	AT5100	AT5150
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

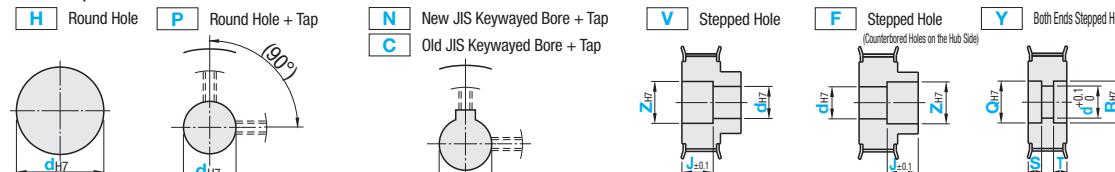


Tooth groove dimensions slightly vary according to the number of teeth.  
 (AT5 Pitch:5.0mm/AT10 Pitch:10.0mm)

### Number of Teeth / Dimension

Number of Teeth											Number of Teeth																							
mm	15	16	18	20	22	24	25	26	28	30	32	36	40	44	48	50	60	mm	14	15	16	18	20	22	24	25	26	28	30	32	36	40	44	48
P.D.	23.87	25.46	28.65	31.83	35.01	38.2	39.79	41.38	44.56	47.75	50.93	57.3	63.66	70.03	76.39	79.58	95.49	P.D.	44.56	47.75	50.93	57.3	63.66	70.03	76.39	79.58	82.76	89.13	95.49	101.86	111.58	121.3	140.06	152.79
O.D.	22.65	24.20	27.40	30.60	33.80	37.00	38.60	40.20	43.35	46.55	49.70	56.05	62.45	68.80	75.15	78.35	94.25	O.D.	42.70	45.90	49.05	55.45	61.80	68.15	74.55	77.70	80.90	87.25	93.65	100.00	112.75	125.45	138.20	150.95
D	13	16	16	20	20	25	25	30	35	35	40	45	45	45	45	45	60	D	34	35	35	35	40	40	50	50	50	60	60	60	60	60	60	60
F	28	32	33	36	40	45	45	48	48	55	55	61	67	74	83	87	99	F	52	58	58	61	67	67	80	87	87	95	104	111	123	135	152	160
E	18	20	22	24	27	30	30	35	40	40	45	50	58	63	67	67	80	E	36	40	40	45	50	50	60	67	67	75	84	90	102	115	130	140
I	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	I	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

Shaft Bore Specs. \*1 Surface treatment may not be applied to shaft bores.



No tapped holes or set screws. For A-Shape pulley, the screw holes are set at around 90° to keep away from peaks. For Keyway Dimension Details, see P1377. When selecting the shaft bore dia. 10 and the keyway width 4.0mm height 1.8mm for New JIS Keywayed Bore, specify NK10. No tapped holes or set screws. Applicable to Shape B only. No tapped holes or set screws. Applicable to Shape A only. Shaft Bore Dia. d is +0.1/0. No tapped holes or set screws.

### AT5

Part Number	Type	Number of Teeth	Type Nominal Width	Pulley Shape										
				Shaft Bore Specifications (-): Specify in 1mm Increment, (:): Select the former or latter					Shaft Bore Specifications (-): Specify in 1mm Increment, (:): Select the former or latter					
Aluminum	AT5100	A	15	5.6, 6.35, 7-10	5.6, 6.35, 7-10	8, 10, NK10	5-8	7-10	6-8	7-10	5.6, 6.35, 7-10	5.6, 6.35, 7, 8	5-7	7-9
				6, 6.35, 7-12	6, 6.35, 7-12	8, 10, NK10, 11, 12	6-10	8-12	6, 6.35, 7-12	6, 6.35, 7-10	8	6-10	8-12	
				6, 6.35, 7-14	6, 6.35, 7-14	8, 10, NK10, 11, 12	6-12	8-14	6, 6.35, 7-12	6, 6.35, 7-11	8, 10, NK10	6-10	8-12	
				6, 6.35, 7-16	6, 6.35, 7-16	8, 10, NK10, 11-16	6-14	8-16	6, 6.35, 7-16	6, 6.35, 7-12	8, 10, NK10	6-14	8-16	
				7-19	7-19	8, 10, NK10, 11-19	7-17	9-19	7-19	7-15	8, 10, NK10, 11, 12	7-14	9-16	
				7-22	7-20	8, 10, NK10, 11-20	7-20	9-23	7-22	7-17	8, 10, NK10, 11-13	7-19	9-21	
				7-22	7-20	8, 10, NK10, 11-20	7-20	9-23	7-22	7-18	8, 10, NK10, 11-15	7-19	9-21	
				8-27	8-22	8, 10, NK10, 11-22	8-25	10-27	8-27	8-21	8, 10, NK10, 11-17	8-25	10-27	
				8-27	8-24	8, 10, NK10, 11-24	8-25	10-27	8-27	8-22	8, 10, NK10, 11-18	8-25	10-27	
				10-28	10-26	10, NK10, 11-26	10-26	12-28	10-28	10-23	10, NK10, 11-18	10-26	10-28	
				10-32	10-28	10, NK10, 11-28	10-30	12-32	10-32	10-27	10, NK10, 11-22	10-30	12-32	
				10-37	10-30	10, NK10, 11-30	10-35	12-37	10-36	10-30	10, NK10, 11-25	10-34	12-36	
10-42	10-36	10, NK10, 11-36	10-40	12-42	10-40	10-35	10, NK10, 11-25	10-38	12-40					
12-50	12-42	12-40	12-48	14-50	12-40	12-35	12-30	12-38	14-40					
12-55	12-45	12-40	12-53	14-55	12-40	12-35	12-30	12-38	14-40					
12-59	12-45	12-43	12-57	14-59	12-40	12-35	12-30	12-38	14-40					
12-72	12-45	12-45	12-70	14-72	12-40	12-35	12-30	12-38	14-40					

Shaft Bore Dia. 8, 11, 13, 14, 17, 21-45 are not available for Shaft Bore Spec. C.

### AT10

Part Number	Type	Number of Teeth	Type Nominal Width	Pulley Shape											
				Shaft Bore Specifications (-): Specify in 1mm Increment, (:): Select the former or latter					Shaft Bore Specifications (-): Specify in 1mm Increment, (:): Select the former or latter						
Aluminum	AT10150	A	14	10-27	10-26	10, NK10, 11-26	10-25	12-27	10-25	12-27	10-30	10-24	10, NK10, 11-18	10-27	12-30
				10-28	10-26	10, NK10, 11-26	10-26	12-28	10-31	10-25	10, NK10, 11-20	10-29	12-31		
				12-32	12-30	12-30	12-30	14-32	12-31	12-25	12-20	12-29	14-31		
				12-37	12-30	12-30	12-35	14-37	12-31	12-25	12-20	12-29	14-31		
				12-42	12-40	12-40	12-40	14-42	12-36	12-30	12-25	12-34	14-36		
				12-52	12-46	12-46	12-50	14-52	12-36	12-30	12-25	12-34	14-36		
				12-59	12-50	12-50	12-57	14-59	12-48	12-38	12-32	12-44	14-46		
				12-59	12-50	12-50	12-57	14-59	12-46	12-38	12-32	12-44	14-46		
				12-59	12-50	12-50	12-57	14-59	12-46	12-38	12-32	12-44	14-46		
				12-67	12-57	12-50	12-65	14-67	12-55	12-45	12-40	12-53	14-55		
				12-76	12-65	12-50	12-74	14-76	12-55	12-45	12-40	12-53	14-55		
				20-80	20-65	20-50	20-80	22-82	20-55	20-45	20-40	20-53	20-55		
20-80	20-65	20-50	20-80	22-82	20-75	22-84	20-40	20-53	20-55						
20-80	20-65	20-50	20-80	22-82	20-55	20-45	20-40	20-53	20-55						
20-80	20-65	20-50	20-80	22-82	20-75	22-84	20-40	20-53	20-55						
20-80	20-65	20-50	20-80	22-82	20-55	20-45	20-40	20-53	20-55						
20-80	20-65	20-50	20-80	22-82	20-75	22-84	20-40	20-53	20-55						

Shaft Bore Dia. 8, 11, 13, 14, 17, 21-50 are not available for Shaft Bore Spec. C.

Ordering Example	Part Number	Pulley Shape	Shaft Bore Specs. LD.	Z	J	Q	R	S	T
(Shaft Bore Specs.: H, P, N, C)	AT5100	A	NK10						
(Shaft Bore Specs.: V, F)	AT5150	B	F20	Z30	J20.0				
(Shaft Bore Specs.: Y)	AT10250	A	Y25			Q37	R37	S7	T7

### AT5

Number of Teeth	Body Price				Shaft Bore Machining Charge (Body Price +)		
	TPPA (x1.0)	AT5100	AT5150	TPPN (x1.2)	P Hole	N, C, V, F Hole	Y Hole
15							
16							
18							
20							
22							
24							
25							
26							
28							
30							
32							
36							
40							
44							
48							
50							
60							

### AT10

Number of Teeth	Body Price				Shaft Bore Machining Charge (Body Price +)		
	TPPA (x1.0)	AT10150	AT10200	AT10250	P Hole	N, C, V, F Hole	Y Hole
14							
15							
16							
18							
20							
22							
24							
25							
26							
28							
30							
32							
36							
40							
44							
48							

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

Alterations	Set Screw Angle	Flange Not Swaged	Flange Swaged on One Side	Flange Cut
Code	KC90	NFC	RFC, LFC	FC
Spec.	Changes an angle of set screw to 90°. For A-Shape pulley, the screw holes are set at around 90° 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. FC ≥ (O.D.) + 1. FC ≤ F-2. No surface treatment is applied on flange circumference. Not available for Stainless Steel Type.

Alterations	Adds taper for retaining bearing	Hub Shortening	Tapped Hole Dimensions	Changes the length of the included set screws.
Code	BTC	BC	TPC	SLH
Spec.	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. Shaft Bore Specs. H, V, F: 3-BC<L-W. Shaft Bore Specs. P, N, C: M+3-BC<L-W. Not available for Shape A.	(Ordering Code) TPC5. Applicable to Shaft Bore Specs. P, N, C only. Not applicable to Shape A.	(Ordering Code) SLH10. Applicable to Shaft Bore Specs. P, N, C only.

Alterations	Side Through Hole / Side Tapped Hole, 3 places	Side Through Hole / Side Tapped Hole, 4 places	Side Through Hole / Side Tapped Hole, 6 places
Code	KTC, QTC	KFC, QFC	KSC, QSC
Spec.	Machine Through Hole / Tapped Hole on the side surface of hub side. (Ordering Code Through Hole) KTC20-K5.0. (Ordering Code Tapped Hole) QTC28-M4. Selection (Through Hole) K Selection) K4.0-K13.0 (0.5mm Increment). Selection (Tapped Hole) M Selection) M3, M4, M5, M6, M8. Not applicable to Shaft Bore Specs. F or Y. Specify KC120 when selecting KTC/QTC for Shaft Bore Specs. P, N and		