

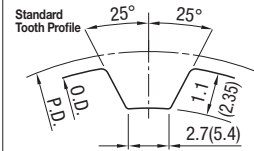
Timing Pulleys AT5 / AT10

- 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**.

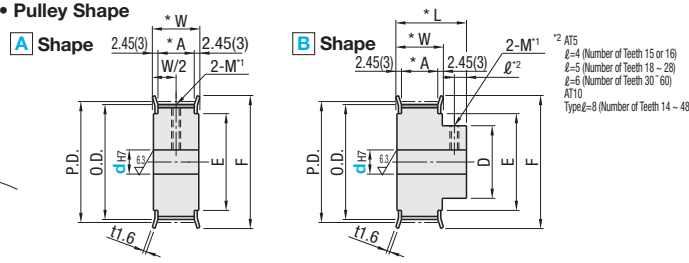
| Type | Belt Width | | | | | Material* | | Surface Treatment | Accessory ¹ Set Screws |
|--------|------------|---------|---------|---------|----------------|----------------|---|-------------------|-----------------------------------|
| | AT5 | | AT10 | | | Pulley | Flange | | |
| | 10mm | 15mm | 15mm | 20mm | 25mm | | | | |
| AT5100 | AT5150 | AT10150 | AT10200 | AT10250 | Aluminum Alloy | Aluminum Alloy | Clear Anodize Black Anodize Hard Clear Anodize ² Electroless Nickel Plating | SUS304 | |



RoHS 10



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



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)

| mm | Number of Teeth | | | | | | | | | | | | | | | | |
|------|-----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| P.D. | 15 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | 36 | 40 | 44 | 48 | 50 | 60 |
| O.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 |
| D | 13 | 16 | 16 | 20 | 20 | 25 | 25 | 30 | 35 | 35 | 40 | 45 | 45 | 45 | 45 | 45 | 60 |
| F | 28 | 32 | 33 | 36 | 40 | 45 | 45 | 48 | 48 | 55 | 55 | 61 | 67 | 74 | 83 | 87 | 99 |
| E | 18 | 20 | 22 | 24 | 27 | 30 | 30 | 35 | 40 | 45 | 50 | 58 | 63 | 67 | 80 | 80 | 80 |
| I | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

Number of Teeth / Dimensions (AT10)

| mm | Number of Teeth | | | | | | | | | | | | | | | | |
|------|-----------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-----|
| P.D. | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 25 | 26 | 28 | 30 | 32 | 36 | 40 | 44 | 48 | 60 |
| O.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 | 114.58 | 127.32 | 140.05 | 152.79 | 180 |
| D | 34 | 35 | 35 | 40 | 40 | 50 | 50 | 50 | 50 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| F | 52 | 58 | 58 | 61 | 67 | 80 | 87 | 87 | 87 | 95 | 104 | 111 | 123 | 135 | 152 | 160 | 180 |
| E | 36 | 40 | 40 | 45 | 50 | 60 | 67 | 67 | 67 | 75 | 84 | 90 | 102 | 115 | 130 | 140 | 180 |
| I | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

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 Keyway Bore + Tap
 V Stepped Hole
 F Stepped Hole (Counterbored Holes on the Hub Side)
 Y Both Ends Stepped Hole
 WB Two-stepped Hole

For A-Shape pulley, the screw holes are set at around 90° 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 P1413. Specify NK10 when selecting "New JIS Keyway Bore" + Shaft Bore Dia. 10 + Keyway Width 4.0mm (Height 1.8mm).

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

No tapped holes or set screws. Applicable to AT10 only. 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. No tapped holes or set screws. Shaft Bore Dia. 6.35 is selectable when the shaft bore dim. d is within the selection range.

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

AT5

| Part Number | Type | Number of Teeth | Type Nominal Width | Pulley Shape | Pulley Shape | | | | | | | | | | | | | |
|-------------|----------|-----------------|--------------------|--------------|---|-----------------------|-------------------------|-------------------|---------------------------|--------------------------------|---|-----------------------------|-----------------|-----------------------|-------------------------|------------------------|---------------------------|-------|
| | | | | | Shaft Bore Specs. "A": 1mm Increments "N": Selectable | | | | | | Shaft Bore Specs. "B": 1mm Increments "Y": Selectable | | | | | | | |
| | | | | | H(d) Round Hole | P(d) Round Hole + Tap | N(d), C(d) Keyway + Tap | V(d) Stepped Hole | J Z-ds2 (0.1mm Increment) | Y WE(d) Both Ends Stepped Hole | Q, R Q(R)-ds2 (0.1mm Increment) Two-stepped Hole | S, T S, T (0.1mm Increment) | H(d) Round Hole | P(d) Round Hole + Tap | N(d), C(d) Keyway + Tap | V, F V(d) Stepped Hole | J Z-ds2 (0.1mm Increment) | |
| 15 | Aluminum | 15 | AT5100 | A | 5-14 | 5-10 | 8, 10, NK10 | 5-12 | 7-14 | | 5-12 | 7-14 | | 5-10 | 5-8 | - | 5-7 | 7-9 |
| 16 | | | | | 6-16 | 6-12 | 8-12 | 6-14 | 8-16 | | 6-14 | 8-16 | | 6-12 | 6-10 | 8-12 | 6-10 | 8-12 |
| 18 | | | | | 6-18 | 6-12 | 8-12 | 6-16 | 8-18 | | 6-16 | 8-18 | | 6-12 | 6-11 | 8, 10, NK10 | 6-10 | 8-12 |
| 20 | | | | | 6-20 | 6-16 | 8-16 | 6-18 | 8-20 | | 6-18 | 8-20 | | 6-16 | 6-12 | 8, 10, NK10 | 6-14 | 8-16 |
| 22 | | | | | 7-23 | 7-18 | 8-18 | 7-21 | 9-23 | | 7-21 | 9-23 | | 7-16 | 7-15 | 8-12 | 7-14 | 9-16 |
| 24 | | | | | 7-26 | 7-20 | 8-20 | 7-24 | 9-26 | | 7-24 | 9-26 | | 7-22 | 7-17 | 8-13 | 7-19 | 9-21 |
| 25 | | | | | 7-26 | 7-20 | 8-20 | 7-24 | 9-26 | | 7-24 | 9-26 | | 7-22 | 7-18 | 8-15 | 7-19 | 9-21 |
| 26 | | | | | 8-31 | 8-22 | 8-22 | 8-29 | 10-31 | | 8-29 | 10-31 | | 8-27 | 8-21 | 8-17 | 8-24 | 10-26 |
| 28 | | | | | 8-31 | 8-24 | 8-24 | 8-29 | 10-31 | | 8-29 | 10-31 | | 8-27 | 8-22 | 8-18 | 8-24 | 10-26 |
| 30 | | | | | 10-33 | 10-28 | 10-28 | 10-31 | 12-33 | | 10-31 | 12-33 | | 10-31 | 10-23 | 10-18 | 10-29 | 12-31 |
| 32 | | | | | 10-36 | 10-28 | 10-28 | 10-34 | 12-36 | | 10-34 | 12-36 | | 10-31 | 10-27 | 10-22 | 10-29 | 12-31 |
| 36 | | | | | 10-41 | 10-30 | 10-30 | 10-39 | 12-41 | | 10-39 | 12-41 | | 10-36 | 10-30 | 10-25 | 10-34 | 12-36 |
| 40 | 10-46 | 10-36 | 10-36 | 10-44 | 12-46 | | 10-44 | 12-46 | | 10-40 | 10-35 | 10-29 | 10-38 | 12-40 | | | | |
| 44 | 12-54 | 12-42 | 12-42 | 12-52 | 14-54 | | 12-52 | 14-54 | | 12-40 | 12-35 | 12-30 | 12-38 | 14-40 | | | | |
| 48 | 12-59 | 12-45 | 12-45 | 12-57 | 14-59 | | 12-57 | 14-59 | | 12-40 | 12-35 | 12-30 | 12-38 | 14-40 | | | | |
| 50 | 12-63 | 12-47 | 12-45 | 12-61 | 14-63 | | 12-61 | 14-63 | | 12-40 | 12-35 | 12-30 | 12-38 | 14-40 | | | | |
| 60 | 12-77 | 12-50 | 12-50 | 12-75 | 14-77 | | 12-75 | 14-77 | | 12-40 | 12-35 | 12-30 | 12-38 | 14-40 | | | | |

Shaft Bore Dia. 9 is not available for Shaft Bore Specs. N. Shaft Bore Dia. 8, 11, 13, 14, 17, 21-50 are not available for Shaft Bore Spec. C. Shaft Bore Dia. 6.35 is selectable for Shaft Bore Specs. H, P, V and F.

AT10

| Part Number | Type | Number of Teeth | Type Nominal Width | Pulley Shape | Pulley Shape | | | | | | | | | | | | | |
|-------------|----------|-----------------|--------------------|--------------|---|-----------------------|-------------------------|-------------------|---------------------------|--------------------------------|---|-----------------------------|-----------------|-----------------------|-------------------------|------------------------|---------------------------|-------|
| | | | | | Shaft Bore Specs. "A": 1mm Increments "N": Selectable | | | | | | Shaft Bore Specs. "B": 1mm Increments "Y": Selectable | | | | | | | |
| | | | | | H(d) Round Hole | P(d) Round Hole + Tap | N(d), C(d) Keyway + Tap | V(d) Stepped Hole | J Z-ds2 (0.1mm Increment) | Y WE(d) Both Ends Stepped Hole | Q, R Q(R)-ds2 (0.1mm Increment) Two-stepped Hole | S, T S, T (0.1mm Increment) | H(d) Round Hole | P(d) Round Hole + Tap | N(d), C(d) Keyway + Tap | V, F V(d) Stepped Hole | J Z-ds2 (0.1mm Increment) | |
| 14 | Aluminum | 14 | AT10150 | A | 10-32 | 10-26 | 10-26 | 10-30 | 12-32 | | 10-30 | 12-32 | | 10-30 | 10-24 | 10-18 | 10-26 | 12-30 |
| 15 | | | | | 10-31 | 10-26 | 10-26 | 10-31 | 12-33 | | 10-31 | 12-33 | | 10-31 | 12-33 | 10-18 | 10-29 | 12-31 |
| 16 | | | | | 12-36 | 12-30 | 12-30 | 12-34 | 14-36 | | 12-34 | 14-36 | | 12-31 | 12-25 | 12-20 | 12-29 | 14-31 |
| 18 | | | | | 12-41 | 12-30 | 12-30 | 12-39 | 14-41 | | 12-39 | 14-41 | | 12-31 | 12-25 | 12-20 | 12-29 | 14-31 |
| 20 | | | | | 12-46 | 12-40 | 12-40 | 12-44 | 14-46 | | 12-44 | 14-46 | | 12-36 | 12-30 | 12-25 | 12-34 | 14-36 |
| 22 | | | | | 12-56 | 12-48 | 12-48 | 12-54 | 14-56 | | 12-54 | 14-56 | | 12-36 | 12-30 | 12-25 | 12-34 | 14-36 |
| 24 | | | | | 12-63 | 12-50 | 12-50 | 12-61 | 14-63 | | 12-61 | 14-63 | | 12-46 | 12-38 | 12-32 | 12-44 | 14-46 |
| 25 | | | | | 12-63 | 12-50 | 12-50 | 12-61 | 14-63 | | 12-61 | 14-63 | | 12-46 | 12-38 | 12-32 | 12-44 | 14-46 |
| 26 | | | | | 12-63 | 12-50 | 12-50 | 12-61 | 14-63 | | 12-61 | 14-63 | | 12-46 | 12-38 | 12-32 | 12-44 | 14-46 |
| 28 | | | | | 12-68 | 12-57 | 12-55 | 12-66 | 14-68 | | 12-66 | 14-68 | | 12-55 | 12-45 | 12-40 | 12-53 | 14-55 |
| 30 | | | | | 12-76 | 12-65 | 12-65 | 12-74 | 14-76 | | 12-74 | 14-76 | | 12-55 | 12-45 | 12-40 | 12-53 | 14-55 |
| 32 | | | | | 20-80 | 20-70 | 20-55 | 20-80 | 22-82 | | 20-80 | 22-82 | | 20-55 | 20-45 | 20-40 | 20-53 | 20-55 |
| 36 | 20-85 | 20-70 | 20-55 | 20-85 | 22-94 | | 20-85 | 22-94 | | 20-55 | 20-45 | 20-40 | 20-53 | 20-55 | | | | |
| 40 | 20-85 | 20-70 | 20-55 | 20-85 | 22-95 | | 20-85 | 22-95 | | 20-55 | 20-45 | 20-40 | 20-53 | 20-55 | | | | |
| 44 | 20-85 | 20-70 | 20-55 | 20-85 | 22-95 | | 20-85 | 22-95 | | 20-55 | 20-45 | 20-40 | 20-53 | 20-55 | | | | |
| 48 | 20-85 | 20-70 | 20-55 | 20-85 | 22-95 | | 20-85 | 22-95 | | 20-55 | 20-45 | 20-40 | 20-53 | 20-55 | | | | |

Shaft Bore Dia. 50-54 are not available for Shaft Bore Specs. N. Shaft Bore Dia. 8, 11, 13, 14, 17, 21-55 are not available for Shaft Bore Spec. C.

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