High Torque Timing Pulleys - P8M

For High Torque Timing Belts, see 29 P.1467 and for Keyless High Torque Timing Pulleys, see 29 P.1438. For Idlers with Teeth, see 29 P.1453. Belt Width Material Accessory Set Screws 15mm 25mm Type Surface Trea Pulley Flange Clear Anodize Extra Super PTPK Duralumin Aluminum Alloy Hard Clear Anodize EN 1.4301 Equiv. Aluminum Allov PTPN Electroless Nickel Platin PTPM Black Oxide Electroless Nickel Plating EN 1.7220 Equiv EN 1.1191 Equiv. EN 1.0330 Equiv. PTPP (Black Oxide) Flange is installed, and set screws are included with 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 ~ RoHS Tooth groove dimensions Standard Pulley Shape Tooth Profile slightly vary according to the number of teeth. _*W B Shape + A Shape Parabolic Tooth Profile *W . 2.6 *A 2.6 <u>2-</u>M[♥] Tapped Hole Dimensions *A 2 5.35 W/2 2-M 2.6 (Shaft Bore Specs.: P, N, C) 8(11 for 44 or more teeth) м dH7 Accessory Shaft Bore I Set Screw 11 12 M4 M4x3 9.9 10: M5x4 13~17 M5 P.D. 불 18~30 M6 M6x5 31~45 M8 M8x6 Root Circle Dia 46~62 M10 M10x8 11.6 11.6 (Pitch:8.0mm) The Shaft Bore Specs. H (Round hole), V or F (Stepped Hole) and Y (Both Sides Stepped Hole) do not have tapped holes. It may have a relief in the tapped hole depending on its size. Number of Teeth / Dimension Belt Nominal Width / Dimension Number of Teeth Nominal mm mm 20 22 24 26 28 30 32 34 36 40 44 48 50 60 P8M150 P8M250 50.93 56.02 61.12 66.21 71.30 76.39 81.49 86.58 91.67 101.86 112.05 122.23 127.32 152.79 16.8 27.8 0.D. 49.56 54.65 59.74 64.84 69.93 75.02 80.12 85.21 90.30 100.49 110.67 120.86 125.95 151.42 33.0 22.0 46 D 36 41 51 55 60 65 70 75 85 90 100 100 100 L Number of Teeth 20~40 39.0 50.0 F Aluminum Steel 55 61 67 74 80 83 87 95 99 111 119 127 135 55 61 67 74 80 83 87 95 99 111 119 127 135 55 61 67 74 80 83 87 95 99 111 119 127 135 160 L Number of Teeth 44~60 44.0 55.0 160 Aluminum 40 45 50 58 60 63 67 75 80 90 100 105 115 140 Steel 40 45 50 58 60 63 67 75 80 90 100 105 115 140 •Shaft Bore Specs. Surface treatment may not be applied to shaft bores. New JIS Keywayed Bore + Tap V Stepped Hole H Round Hole P Round Hole + Tap F Stepped Hole Y Both Ends Stepped Hole C Old JIS Keywayed Bore + Tap (Counterbored Holes on the Hub Side) **J**±0.1 (Tor A-Shape pulley, the screw holes are set at around 90° to keep away from peaks. (For Keyway Dim Details, see P13 Applicable to Shape A only. Shaft Bore Dia. d is +0.1 / 0 No tapped holes or set No tapped holes or set Applicable to Shape B only. Details, see P1377. screws. screws. No tapped holes or set screws. No tapped holes or set screv Part Number Shaft Bore Specifications (~): Specify in 1mm Increment, (,): Select the former or latter Туре Pullev Ν Stepped Hole Both Ends Stepped * Shape A only Shape Round Hole Old JIS Type eyway Tap of Tee ound Hole Width Q. R + Tap Keyway + Tap V.F v S, T Z-d≥2 (0.1mm Incremen Q(R)-d≥2 12~22 12~22 12~22 12~14 12~18 18~26 12, 15, 16, 18~20 12~22 20 22 12~25 12~25 12~25 2, 15, 16, 18~20 12~17 12~21 12~25 18~30 24 12~28 12~28 12~28 12, 15, 16, 18~2 12~18 12~23 12~30 18~35 16~25 16~30 16~30 16~30 16, 18~20 16~20 16~30 21~40 26 28 16~34 16~34 16~29 16~30 21~42 16~34 16.18~20 16~24 PTPA PTPK PTPN 30 16~35 16~35 16~35 16 18~20 16~25 16~30 (for Shape A 16~35 21~50 Α 32 16~38 16~38 16~38 16, 18~20 16~28 16~32 3<J<W-3 16~35 21~50 S+T≤W-3 16~42 16~42 34 в 16~42 16, 18~20 16~30 16~35 16~35 26~55 (for Shape B Steel PTPM PTPP 16~45 16~45 16~30 16~38 16~38 26~60 36 16~45 16.18~20 3<J<L-3 40 20~50 20~50 20~50 20 20~30 20~40 20~42 27~65 44 20~55 20~55 20~50 20 20~30 20~43 20~50 27~72 48 20~62 20~62 20~50 20~35 20~50 20~50 27~80 20 50 20~62 20~62 20~50 20 20~50 20~35 20~50 27~80 60 20~62 20~62 20~50 20 20~35 20~50 20~50 27~80 Ordering Part Number Pulley Shape Shaft Bore Specs., I.D. z J Q R - S Т Example (Shaft Bore Specs.: H, P, N, C) PTPA50P8M250 H50 Α . . .

V25

Y20

- Z43

- Q32 - R37 - S7 - T9

В

Α

- -

PTPA48P8M250

PTPA36P8M150 -

(Shaft Bore Specs.: V, F)

(Shaft Bore Specs: Y)

Body Price Shaft Bore Machining Charge (Body Price +) PTPA (x1.0) PTPK (x1.1) PTPN (x1.2) PTPM, PTPP (+JPY500) Number of Teeth PTPA, PTPK, PTPN PTPM, PTPP P8M150 P8M150 P8M Shape A Shape B Shape A Shape B Shape A Shape B Shape B Shape A Shape B P Hole N. C. V. F Hole Y Hole P Hole N. C. V. F Hole Y Hole 20 22 24 26 28 30 32 34 36 40 44 48 50 60

Alterations	Set Screw Angle	No Flange	Single Flange	Flange Cut
Code	KC120	NFC	RFC, LFC	FC
Spec.	Changes angle layout of set screws to 120°. <u>Experiation Netes</u> (*) For A-Shape pulley, the screw holes are set at around 120° to keep away from peaks.	(Flange 2 pcs. Included)	(Flange 1 pc. Included)	Cut the flange 0.D. in 0.5mm increment. Content Quel JFC17 Application Notes © FC2(0, D,)+1 © FC2(0, D,)+2 ♥ No surface treatment is applied on flange circumference.

 Part Number
 Pulley Shape
 Shaft Bore Spess, LD.
 Z
 J
 R
 T
 (KC90…etc.)

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 Totwing tools particulation tools (*)Applicable to Shape A only. *)Applicable to Shaft Bore Specs. H and P only. *)TL <l-w For details, see the "Timing Pulley Alter</l-w 	Cuts the hub length in 0.5mm increment. Totem Car EN CC491K Equiv.5 Medication Web Shaft Bore Specs. H, V, F: M+3.5BC2L-W Shaft Bore Specs. P, N, C: M+3.5BC2L-W Shaft Bore Specs. P, N, C: M+3.5	Ordering Code TPC5 Jepgication Notes: • ●Applicable to Shaft Bore Specs. P, N, C only. • M TPC M4 M5 M5 M4, M6 M6 M5, M8 M8 M6, M10 M10 M8	Oritemy Code SLH10 Jegication Notes] (*) Applicable to Shaft Bore Specs. P, N, C only. Set Screws SLH M4x3 5, 8 M5x4 6, 10 M8x6 10, 12 M10x8 12, 15

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 Machine Through Hole / Tapped Hole on the side surface of Machine Through Hole / Tapped Hole on the side surface of Machine Through Hole / Tapped Hole on the side surface of hub side hub side hub side Ordering Code (Through Hole) KTC20-K5.0 Ordering Code (Through Hole) KFC20-K5.0 Ordering Code (Through Hole) KSC20-K5.0 Ordering Code (Tapped Hole) QTC28-M4 Ordering Code (Tapped Hole) QFC28-M4 Ordering Code (Tapped Hole) QSC28-M4 Selection (Through Hole) K Selection K4.0~K13.0 (0.5mm Increment) Selection (Through Hole) K Selection K4.0~K13.0 (0.5mm Increment) Selection (Through Hole) K Selection K4.0~K13.0 (0.5mm Increment) Selection (Tapped Hole) M Selection M3.M4.M5.M6.M8 Selection (Tapped Hole) M Selection M3, M4, M5, M6, M8 Selection (Tapped Hole) M Selection M3, M4, M5, M6, M8 unlication Notes Application Notes Not applicable to Shaft Bore Specs. F or Y. Not applicable to Shaft Bore Specs. F or Y. Not applicable to Shaft Bore Specs. F or Y. Spec. Specify KC120 When KFC/QFC is selected for Shaft Bore Specs. P. N and C. KSC/QSC is not applicable to the Shaft Bore Specs. P, N Through Hole KTC (3 places) Tapped Hole QTC Through Hole KFC (4 places) Tapped Hole QFC Through Hole KSC (6 places) Tapped Hole QSC KC120 is not available. when selecting and C. KTC/QTC for Shaft Side holes and tooth side tapped Bore Specs. P, N and C. holes might interfere with R each other. For details, see the 4-K Through (V) 3-K Through W 6-K Through relevant CAD data. 3-M 6-M For details, see the "Timing Pulley Alterations - Overview" section DE P.1378.