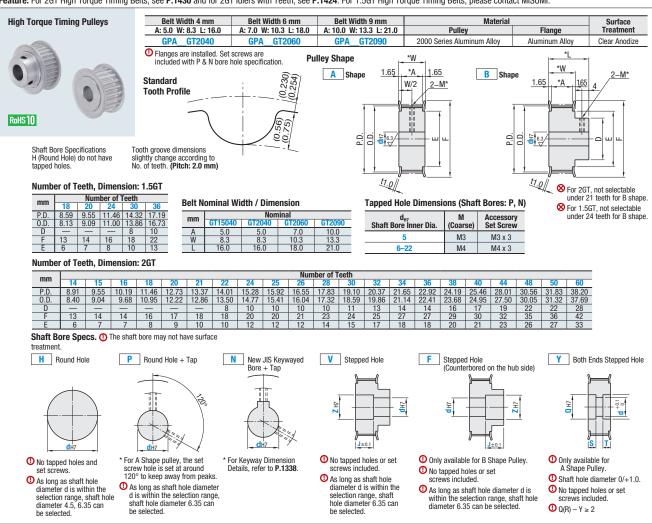
## **High Torque Timing Pulleys**

**2GT Type** 

Timing Pulleys / Belts / Keyless Bushings

Feature: For 2GT High Torque Timing Belts, see P.1430 and for 2GT Idlers with Teeth, see P.1424. For 1.5GT High Torque Timing Belts, please contact MISUMI.



### 1.5GT

| 11041           |                 |                       |              |              |                         |                               |              |                    |  |  |
|-----------------|-----------------|-----------------------|--------------|--------------|-------------------------|-------------------------------|--------------|--------------------|--|--|
|                 | Part Number     |                       |              | Pulley Shape |                         |                               |              |                    |  |  |
| Туре            |                 | Type<br>Nominal Width | Pulley Shape |              | Α                       | В                             |              |                    |  |  |
|                 | Number of Teeth |                       |              | Shaft        | Bore Specs. (Selection) | Shaft Bore Specs. (Selection) |              |                    |  |  |
|                 |                 | Nominal Width         |              | H Round Hole | P Round Hole + Tap      | N: Keyway + Tap               | H Round Hole | P Round Hole + Tap |  |  |
| Aluminum<br>GPA | 18              |                       |              | 3            |                         | _                             | _            | _                  |  |  |
|                 | 20              |                       | A            | 3 4          | _                       |                               |              |                    |  |  |
|                 | 24              | GT15040               |              | 4 4.5 5      | 5                       |                               |              |                    |  |  |
| ui A            | 30              |                       | Α            | 4 4.5 5 6    | 5 6                     | l –                           | 4            | 5 6                |  |  |
|                 | 36              |                       | В            | 5 6 6.35 7 8 | 5 6 6.35 7 8            | 8                             | 5 6 6.35 7 8 | 5 6 6.35 7 8       |  |  |

| 0 | OT. |  |
|---|-----|--|
| Z | GΙ  |  |

| Des             | rt Numbe   | _                |        |  |  |   |   |   |                           |   | Pulley Sh   | ape                           |  |   |               |  |  |                           |
|-----------------|--|------------------|--------|--|--|---|---|---|---------------------------|---|---|-------------------------------|--|---|---------------|--|--|---------------------------|
| Pal             | nt Mullipe   | r                |        |  |  |   |   | Α   |                           |   |   |                               |  |   | В             |  |  | -                         |
|                 |  |                  | Pulley |  | #-#:   | 1mm increm                                | ents, no  | "–" : only  | selection of vis          | sible num   | bers.   |                               | #-# : 1mn  | n increments                                      | , no "–" : on | ıly selecti  | on of vis  | ible numbers.             |
|                 |  | Type             | Shape  | 11(4)  | D(d)   | N(d) JIS                                  |   | V Steppe  | d Hole                    | Y Both  | Ends St   | epped Hole                    | 11/40  | D(4)  | N(d) JIS      | ٧٠   | F Stepp  | ed Hole                   |
| Туре            | Teeth  | Nominal<br>Width | опаро  | H(d)<br>Round<br>Hole  | P(d)<br>Round Hole<br>+ Tap ①  | Vounnound                                 | V(d)  | Z<br>Z-d≥2  | J<br>(1 mm<br>increments) | Y(d)  | Q • R   | S • T<br>(1 mm<br>increments) | H(d)<br>Round<br>Hole  | P(d)<br>Round Hole<br>+ Tap ①                     | Vounnound     | V • F(d)   | <b>Z</b><br>Z(d)2  | J<br>(1 mm<br>increments) |
|                 | 14<br>15<br>16<br>18<br>20<br>21                         |                  | A      | 3<br>3 4<br>3 4<br>4 4.5 5<br>4 4.5 5 6<br>4-6                               | _  |   | _   | _   |                           | ı   | ı   | _                             | ı  | _   | _             | _  | _  | _                         |
| Aluminum<br>GPA | 22<br>24<br>25<br>26<br>28                               | GT2040<br>GT2060 |        | 4-6<br>5-8<br>5-8<br>5-8<br>5-10   | _  | _   | 5 6<br>5 6<br>5 6<br>5-8  | 7 8<br>7 8<br>7 8<br>7-10   |                           | 5 6<br>5 6<br>5 6<br>5-8  | 6<br>7 8<br>7 8<br>7 8<br>7–10  |                               | 5 6<br>5-7<br>5-8<br>5-8   | _   | _             | _  | _  | _                         |
| u A             | 30<br>32<br>34<br>36<br>38<br>40<br>44<br>48<br>50<br>60 | GT2090           | АВ     | 5-11<br>5-13<br>6-14<br>6-14<br>6-16<br>6-17<br>6-19<br>8-22<br>8-23<br>8-29 | 5-10<br>6-10<br>6-10<br>6-10<br>6-12<br>6-13<br>8-15<br>8-16<br>8-22 | 8<br>8 10<br>8-11<br>8-13<br>8-14<br>8-19 | 5-9<br>5-11<br>6-12<br>6-12<br>6-14<br>6-15<br>6-17<br>8-20<br>8-21<br>8-27 | 7-11<br>7-13<br>8-14<br>8-14<br>8-16<br>8-17<br>8-19<br>10-22<br>10-23<br>10-29 | 2–11<br>2.0≤J≤W–2.0       | 5-9<br>5-11<br>6-12<br>6-12<br>6-14<br>6-15<br>6-17<br>8-20<br>8-21<br>8-27 | 7-11<br>7-13<br>8-14<br>8-14<br>8-16<br>8-17<br>8-19<br>10-22<br>10-23<br>10-29 | <b>3–5</b><br>S+T≤W–3         | 5-8<br>5-9<br>6-10<br>6-10<br>6-12<br>6-13<br>6-15<br>8-18<br>8-24 | 5 6<br>6-8<br>6-8<br>6-10<br>6-12<br>8-12<br>8-22 |               | 5<br>5-7<br>6-8<br>6-8<br>6-10<br>6-11<br>6-13<br>8-16<br>8-16 | 7<br>7-9<br>8-10<br>8-10<br>8-12<br>8-13<br>8-15<br>10-18<br>10-24 | 2–19<br>2.0≤J≤L–2.0       |

There's more on the web: misumiusa.com

# **MISUMI**

### **High Torque Timing Pulleys**

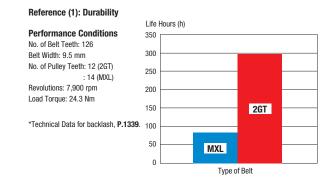
**2GT Type**, *continued* 



| Alterations | Set Screw Angle   | Side Tapped Hole   | Side Through Holes  | Side Counterbore Holes   |
|-------------|---|--|---|--|
| Code        | KC90  | QSC / QFC / QTC  | KSC-KTC-KFC   | ZTC-ZFC-ZSC  |
| Spec.       | Changes an angle of set screw to 90°.  ① For A shape pulley, the set screw hole is set at around 90° to keep away from peaks. | Machines tapped hole on the side surface of hub side. (OSC, QFC, QTC: 0.5 mm Increment)  ① Thickness required: minimum 2mm A Shape: d+M+4=QSC(QFC / QTC)=E-(M+4) B Shape: d+M+4=QSC(QFC / QTC)=D-(M+4)  ① d=Z when the Shaft Bore Specifications is V. ① Specify KC90 when selecting QFC for Shaft Bore specifications P, PU, HU, N, and C. ② The pilot hole for tapping may go through. ③ Not applicable to Shaft Bore Specifications are P, PU, HU, N or C, QSC is not applicable. ⑤ Not applicable to K Shape. M Selection: M3, M4, M5, M6, M8 Ordering Code: QFC2B-M4  M×2  QSC  QFC  QFC  QTC  3-Max  3-M | Machines through hole on the side surface of hub side.  Ordering Code: KTC28-K4.5  K, C Selection: Please specify the hole's manufacturing position (P.C.D.)  K Specification: K4.0-11.0 (0.5mm increments)  Application Notes  Not available for K shape  KSC  KFC  KTC  Through  KTC  Through | Machines countbore holes on the side surface of the hub side.  Ordering Code: ZTC28-ZM4  Z/C Selection: Please specify the hole's manufacturing position (P.C.D.)  ZM Selection: ZM3, ZM4, ZM5, ZM6, ZM8  Application Notes  Whot applicable for 1.5GT  Minimum thickness is 2mm  Conditions vary depending on the shaft hole specifications  ZSC  ZFC  ZTC  ZTC  ZTC  ZTC  ZTC  ZTC  ZT |

| Alterations | Hub Shortening   | Flange Not Swaged                          | Flange Swaged on One Side  | Flange Cut  |  |  |
|-------------|--|--|--|---|--|--|
| Code        | BC   | NFC  | RFC / LFC  | FC  |  |  |
| Spec.       | Cuts the hub length in 0.5mm increments  Ordering Code: BC6.5  Application Notes  ① Shaft Bore specification H, V, F: 3≤BC≤L-W  ② Shaft Bore specification P, N, C: M+3≤BC≤L-W  ③ Not available for K, A shape | Flange is not installed. (Flange included) | Flange installed on the hub side (RFC) or the opposite side (LFC) only.  ① Same on A Shape  RFC  LFC | Cuts the outer diameter of the flange in 0.5mm increments   Ordering Code: FC17   Application Notes |  |  |

#### Performance Comparison Between MXL & 2GT Belts



#### Reference (2): Jumping Torque Capability

Teeth Height MXL: 0.51 mm

2GT: 0.75 mm

