

Pulleys for Flat Belts (Width L=25-100)

Crowned / Crosspiece Groove Straight

Pulleys for Flat Belts – Width T=25-100

Crowned ROBAC (No Flange)

ROBACF (Flanged)

Crosspiece Groove Straight Type ROBAM (No Flange)

Crosspiece Groove Part

Materials: Aluminum Alloy 5000 series
Surface Treatment: Clear Anodize

New JIS (B1301) Keyway Dimension

| Nominal | d _{k17} | b _{js9} | t | Tolerance |
|---------|------------------|------------------|---|-----------|
| N8 | 8 | +0.015 | 3 | ±0.0125 |
| N10 | 10 | 0 | 4 | ±0.0150 |
| NK10 | 10 | 0 | 4 | ±0.0150 |
| N12 | 12 | +0.018 | 5 | ±0.0150 |
| N15 | 15 | 0 | 5 | ±0.0150 |
| N20 | 20 | +0.021 | 6 | ±0.0180 |
| N25 | 25 | 0 | 8 | ±0.0180 |
| N30 | 30 | 0 | 8 | ±0.0180 |

Shape of Keyway

For Crosspiece Groove Straight Type, key length is shorter under the following conditions in order to avoid causing interference with through holes made by keyway machining.

When $L/2 - X/2 \leq K \leq L/2 + X/2$, $K = L/2 - (X/2 + (b+1)/2 + 1)$

| Part Number | Type | D | d _{k17} | 1 mm Increment | Crowned Type Only | Crosspiece Groove Straight Type 0.1 mm Increment | | | Key Length | M | | ℓ | F | |
|--|--|---------------------------------|------------------|----------------|-------------------|--|----------|----------|------------|------------------|-------------------|-----|-----|----|
| | | | | | | X | Y | Z | | Round Hole + Tap | Keyway Hole + Tap | | | |
| Crowned Type ROBAC ROBACF | Crowned Type | 15 | 8 | N8 | 25-100 | 0.3 | 7.0-15.0 | 5.0-12.0 | 4.0-7.0 | M3 | M3 | 3.5 | — | |
| | | | 8 | | | | | | | | | | | N8 |
| | | 20 | 10 | N10, NK10 | | | | | | | | | | |
| | | | 10 | N10, NK10 | | | | | | | | | | |
| | | 25 | 8 | N8 | | | | | | | | | | |
| | | | 10 | N10, NK10 | | | | | | | | | | |
| | Crosspiece Groove Straight Type ROBAM | Crosspiece Groove Straight Type | 30 | 10 | N10, NK10 | 50-100 | 0.5 | 7.0-15.0 | 5.0-12.0 | 4.0-7.0 | M4 | M4 | 3.5 | 31 |
| | | | | 12 | N12 | | | | | | | | | |
| | | | 35 | 12 | N12 | | | | | | | | | |
| | | | | 15 | N15 | | | | | | | | | |
| | | | 40 | 15 | N15 | | | | | | | | | |
| | | | | 20 | N20 | | | | | | | | | |
| Crosspiece Groove Straight Type ROBAM | Crosspiece Groove Straight Type | 50 | 15 | N15 | 60-100 | 0.8 | 7.0-15.0 | 5.0-12.0 | 4.0-7.0 | M5 | M5 | 4 | 51 | |
| | | | 20 | N20 | | | | | | | | | | |
| | | 60 | 25 | N25 | | | | | | | | | | |
| | | | 30 | N30 | | | | | | | | | | |
| | | 80 | 25 | N25 | | | | | | | | | | |
| | | | 30 | N30 | | | | | | | | | | |

- ① When L≤36 (N8, N10, NK10) or L≤43 (N12, N15, N20) or L≤45 (N25, N30), K=L (No Flange) or K=L+4 (Flanged).
- ② Flanged Type is only applicable to D=25 or more; Flanged Type with Keyways to D=30 or more.
- ③ Select NK10 when Keyway + Tap with shaft bore with keyway width 4.0 mm (height 1.8 mm) is requested.

Part Number Example

Crowned Type: **ROBAC30 - NK10 - L62 - H0.3**

Crosspiece Groove Straight Type: **ROBAM40 - 15 - L82 - X7.8 - Y6.0 - Z5.0**

Idlers for Flat Belts (Width L=25-100)

Straight / Crosspiece Groove Straight / Crowned

Idlers for Flat Belts – Width T=25-100

Straight Type ROFAN (No Flange)

ROFAM (No Flange)

Crowned ROFAC (No Flange)

ROFAF (Flanged)

Crosspiece Groove Part

Materials: Aluminum Alloy 5000 series
Surface Treatment: Clear Anodize
*Bearing Precision JIS B1514 Class 0
⊕ Bearings are press-fitted. Cannot be disassembled.

| Part Number | Type | D | d | 1 mm Increment | Crosspiece Groove Straight Type 0.1 mm Increment | | | Crowned Type Only | d _i | Bearing Dimension | | | F | | | | | | | | |
|--|----------------------------|----|------|----------------------------|--|----------|----------|-------------------|----------------|-------------------|----|-----|----|----------------|---|---|----|--------|----|---|----|
| | | | | | L | X | Y | | | Z | H | No. | | D _i | B | | | | | | |
| Straight Type ROFAN ROFAF | Straight Type | 15 | (5) | Straight Type | 25-100 | 7.0-15.0 | 5.0-12.0 | 0.3 | 7 | B675ZZ | 8 | 2.5 | — | | | | | | | | |
| | | | (6) | | | | | | | | | | | | | | | | | | |
| | | 20 | (6) | | | | | | | | | | | — | — | — | 10 | B676ZZ | 10 | 3 | — |
| | | | (8) | | | | | | | | | | | | | | | | | | |
| | | 25 | (6) | | | | | | | | | | | — | — | — | 10 | B686ZZ | 13 | 5 | — |
| | | | (8) | | | | | | | | | | | | | | | | | | |
| | | 30 | (8) | | | | | | | | | | | — | — | — | 10 | B696ZZ | 15 | 5 | 26 |
| | | | (10) | | | | | | | | | | | | | | | | | | |
| | | 35 | (10) | | | | | | | | | | | — | — | — | 15 | B698ZZ | 19 | 6 | 31 |
| | | | (12) | | | | | | | | | | | | | | | | | | |
| | | 40 | (12) | | | | | | | | | | | — | — | — | 17 | B690ZZ | 22 | 6 | 36 |
| | | | (15) | | | | | | | | | | | | | | | | | | |
| Crosspiece Groove Straight Type ROFAM | Crosspiece Groove Straight | 40 | 8 | Crosspiece Groove Straight | 50-100 | 7.0-15.0 | 5.0-12.0 | 0.5 | 17 | B628ZZ | 24 | 8 | 41 | | | | | | | | |
| | | | 10 | | | | | | | | | | | | | | | | | | |
| | | 50 | 12 | | | | | | | | | | | — | — | — | 17 | B690ZZ | 24 | 6 | 36 |
| | | | 15 | | | | | | | | | | | | | | | | | | |
| | | 60 | 15 | | | | | | | | | | | — | — | — | 22 | B690ZZ | 22 | 6 | 36 |
| | | | 20 | | | | | | | | | | | | | | | | | | |
| 80 | 20 | — | — | — | 27 | B690ZZ | 28 | 7 | 41 | | | | | | | | | | | | |
| | 25 | | | | | | | | | | | | | | | | | | | | |

- ⊕ Flanged Type is only applicable to D=25 or more; Sizes in () for d are only applicable to No Flange Type. ⊕ For Detailed Bearing Dimensions, refer to P.1018-1028.

Part Number Example

Straight Type: **ROFAN30 - 10 - L52**

Crosspiece Groove Straight Type: **ROFAM40 - 12 - L82 - X7.8 - Y6.0 - Z5.0**

Crowned Type: **ROFAC60 - 20 - L75 - H0.5**