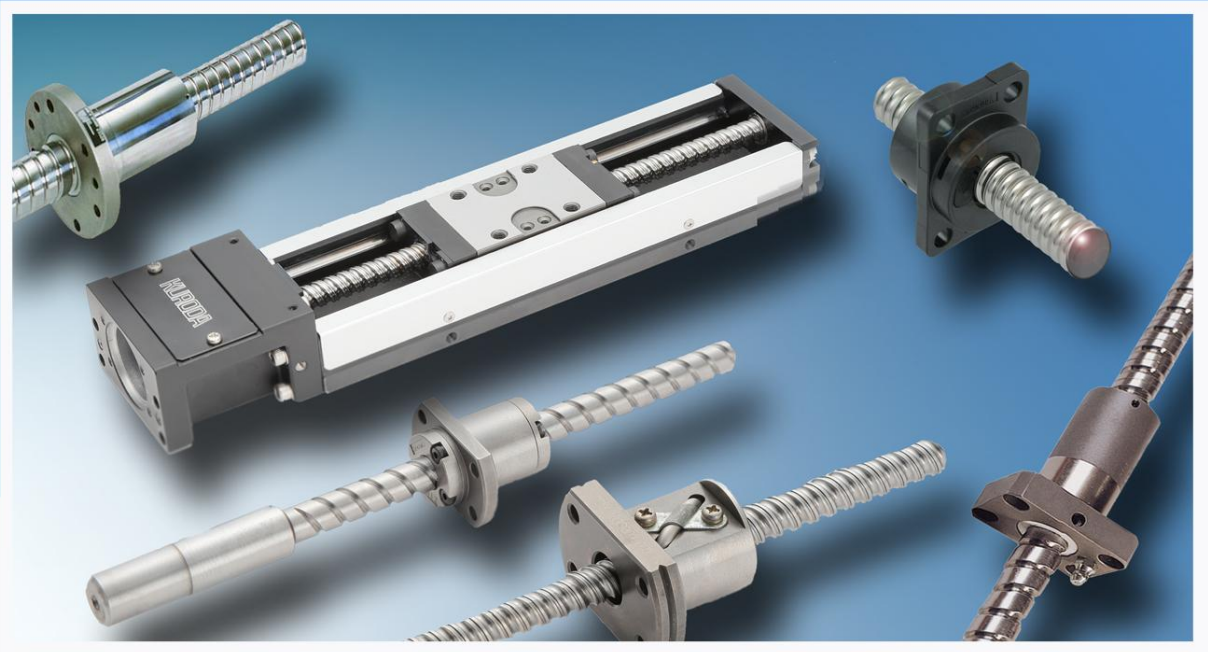


# KURODA JENA TEC

[www.kuroda-precision.com](http://www.kuroda-precision.com) / [www.jena-tec.com](http://www.jena-tec.com)



## Ball screw and Ball screw Actuator Guide Book

**KURODA**  
**JENATEC**

**CHALLENGE  
&  
CREATE**



Under our new brand, KURODA JENA TEC, we provide Precision Products and Services which make the best use of the synergies between the two companies.

**KURODA** PRECISION INDUSTRIES LTD. was established as a gauge manufacturer in 1925. Based on its precision processing technology, it has successively developed precision press dies, grinding machines, special polishing machines, tooling for machining, ball screws for precision positioning, and ultra-precise measuring systems. Responding to the needs of customers centered on the Japan and Asian regions in the automobile, processing machine, semiconductor, electric and electronic industries, we are highly regarded by our customers as “KURODA for Precision”. With regard to ball screws, KURODA specializes in the manufacture of small to medium diameter ball screws.

**JENA TEC** maintains manufacturing bases in Germany, the United Kingdom, and the United States, and mainly supplies high-quality linear and rotation-related components such as ball screws and spindles to machining, automobile, and medical equipment manufacturers in Europe and America. JENA TEC is highly trusted as a precision brand in the European and American markets. Particularly with regard to ball screws, JENA TEC is manufacturing custom-made products focused on large diameter ball screws in the city of Jena Germany, which is known as a focused region of German Precision Technology.

In November 2012, **KURODA PRECISION INDUSTRIES LTD** acquired the **JENA TEC** businesses and integrated both organizations' product range and services into the global brand of **KURODA JENA TEC**. The synergistic effect of utilizing both companies' precision technologies allows the new organization to be a truly international manufacturer and supplier of high quality linear and rotary motion components.





## KURODA JENA TEC Ballscrew Product Lineup

### RW SERIES

Lightweight, Compact  
Economical  
Grade 7



Resin  
Nut  
Ball Screw

(Page 7)

### GK/FK SERIES with BTA

Short Lead Time  
Wide Variety  
Grade C5  
& C7



(Page 8)

### GE/GG/GP SERIES

Wide Variety  
Grades  
C3, C5, C7



(Page 9, 12)

### FE/FG SERIES

Ultra Quiet  
High Rotational Speed  
Grade C5  
& C7



(Page 10)

### HG SERIES

High Rotational  
Conveyance  
Grade C5



(Page 11)

### DP SERIES

Fine Pitch Positioning  
Compact  
Grade C3



(Page 12)

### GY/GW SERIES

Wide Variety  
Conveyance  
C5 & C7



(Page 13-14)

### GR/DR/FR SERIES

Custom Compliant  
DIN Standard



(Page 15)

### JT SERIES

Stock and Custom  
DIN Standard  
IT1-IT7



(Page 16-22)

## LINEAR MOTION PRODUCTS

ACTUATORS  
SG/SE/SC SERIES



SUPPORT UNITS



# Ball Screw Range

## Screw Shaft Diameter & Lead Combination (Standard)

### ●Standard Ball Screw for Conveyance (Accuracy Grade: C7, C10)

|                       |    | Lead (mm) |   |     |   |   |   |   |    |    |    |    |    |    |    |
|-----------------------|----|-----------|---|-----|---|---|---|---|----|----|----|----|----|----|----|
|                       |    | 1.5       | 2 | 2.5 | 4 | 5 | 6 | 8 | 10 | 15 | 16 | 20 | 25 | 32 | 40 |
| Nominal diameter (mm) | 8  | ○         | ○ | ○   | ○ | ○ |   | ○ |    |    |    |    |    |    |    |
|                       | 10 |           | ○ | ○   | ○ | ○ |   |   | ○  | ○  |    |    |    |    |    |
|                       | 12 |           | ○ | ○   | ○ | ○ |   | ○ | ○  | ○  |    | ○  | ○  |    |    |
|                       | 15 |           | ○ |     | ○ | ○ | ○ |   | ○  | ○  | ○  | ○  | ○  |    |    |
|                       | 16 |           |   |     |   |   |   |   |    |    | ○  |    |    | ○  |    |
|                       | 20 |           |   |     | ○ | ○ |   |   | ○  | ○  |    | ○  | ○  |    | ○  |
|                       | 25 |           |   |     |   | ○ |   |   | ○  | ○  |    | ○  | ○  |    |    |
|                       | 28 |           |   |     |   |   | ○ |   |    |    |    |    |    |    |    |
|                       | 32 |           |   |     |   | ○ |   |   | ○  |    |    |    |    | ○  |    |
|                       | 36 |           |   |     |   |   |   |   | ○  |    |    | ○  |    |    |    |
|                       | 40 |           |   |     |   |   |   |   | ○  |    |    | ○  |    |    | ○  |

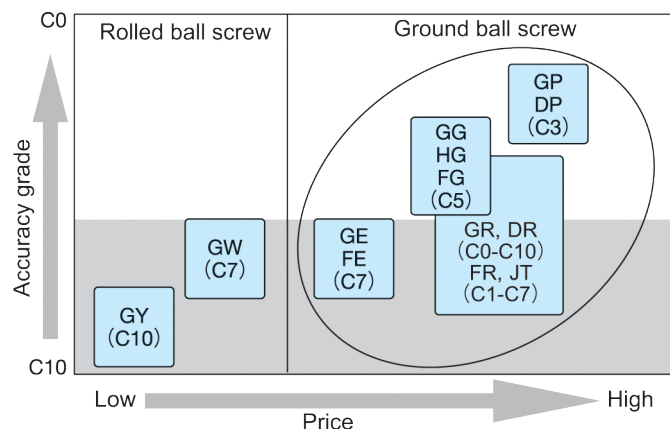
○ : GE series (Accuracy Grade: C7)    ○ : GY series (Accuracy Grade: C10)    □ : GK series with BTA (Accuracy Grade: C7)  
 △ : RW series (Accuracy Grade: C7)    ◇ : FE series (Accuracy Grade: C7)    ● : GW series (Accuracy Grade: C7)  
 ■ : FK series with BTA (Accuracy Grade: C7)

### ●Standard Ball Screw for Positioning (Accuracy Grade: C3, C5)

|                       |    | Lead (mm) |        |          |        |   |        |              |   |            |     |    |    |            |              |     |    |    |    |    |    |   |
|-----------------------|----|-----------|--------|----------|--------|---|--------|--------------|---|------------|-----|----|----|------------|--------------|-----|----|----|----|----|----|---|
|                       |    | 1         | 1.5    | 2        | 2.5    | 3 | 4      | 5            | 6 | 10         | 12  | 15 | 16 | 20         | 25           | 30  | 32 | 40 | 50 | 60 | 64 |   |
| Nominal diameter (mm) | 6  | △         |        |          |        |   |        |              | ⊙ |            |     |    |    |            |              |     |    |    |    |    |    |   |
|                       | 8  | △         | ●<br>○ | ●<br>○ △ |        |   | ●      |              |   |            | ⊙   |    |    |            |              |     |    |    |    |    |    |   |
|                       | 10 |           |        | ●<br>○ △ | ●<br>○ |   | ●      |              |   | ● ◆        |     |    |    |            |              |     |    |    |    |    |    |   |
|                       | 12 |           |        | ●<br>○ △ |        | △ | ●<br>○ | ● □          |   | ● ◆<br>□ ■ |     |    |    | ● ◆<br>□ ■ |              | ⊙   |    |    |    |    |    |   |
|                       | 14 |           |        |          |        |   | △      |              |   |            |     |    |    |            |              |     |    |    |    |    |    |   |
|                       | 15 |           |        | ●<br>○   |        |   | ●<br>○ | ● ◆<br>○ □ ■ |   | ● ◆<br>□ ■ |     | ●  |    |            | ● ◆<br>⊙ □ ■ |     |    |    | ⊙  |    |    |   |
|                       | 16 |           |        |          |        |   |        |              |   |            |     |    | ●  |            |              |     |    | ⊙  |    |    |    |   |
|                       | 20 |           |        |          |        |   | ●<br>○ | ●<br>○       |   |            | ● ◆ |    |    |            | ● ◆<br>⊙     |     | ⊙  |    | ⊙  |    | ⊙  |   |
|                       | 25 |           |        |          |        |   |        | ● ◆          |   |            | ● ◆ |    |    |            | ●            | ● ◆ |    |    |    | ⊙  |    |   |
|                       | 32 |           |        |          |        |   |        | ●            |   |            | ●   |    |    |            |              |     |    |    |    |    |    | ⊙ |

● : GG series (Accuracy Grade: C5)    ○ : GP series (Accuracy Grade: C3)    ○ : HG series (Accuracy Grade: C5)  
 ■ : FK series with BTA (Accuracy Grade: C5)    ◆ : FG series (Accuracy Grade: C5)    △ : DP series (Accuracy Grade: C3)  
 □ : GK series with BTA (Accuracy Grade: C5)

### ●Accuracy Grade and Price



## Ball Screw Product Range

### Combined Standard Ball Screw Offerings for both KURODA and KURODA JENA TEC Brands

| Metric Series (Ground, Whirled or Rolled Options) |                                         |     |    |     |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Inch Series (Ground only)                   |       |       |       |       |       |
|---------------------------------------------------|-----------------------------------------|-----|----|-----|----|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------------------------------|-------|-------|-------|-------|-------|
| Diaø                                              | Pitch/Nominal Lead P <sub>ho</sub> (mm) |     |    |     |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Pitch/Nominal Lead P <sub>ho</sub> (Inches) |       |       |       |       |       |
|                                                   | Miniature                               |     |    |     |    | Standard |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Standard                                    |       |       |       |       |       |
| d°(mm)                                            | 1                                       | 1.5 | 2  | 2.5 | 4  | 5        | 6  | 8  | 10 | 12 | 15 | 16 | 20 | 24 | 25 | 30 | 32 | 40 | 45 | 50 | 60                                          | 0.125 | 0.200 | 0.250 | 0.500 | 1.000 |
| 5                                                 | K                                       |     |    |     |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 6                                                 | KJ                                      |     | KJ |     |    | K        | K  |    |    |    |    |    |    |    |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 8                                                 | KJ                                      | K   | KJ | KJ  | KJ | K        | K  | K  |    | K  |    |    |    |    |    |    |    |    |    |    |                                             | J     |       |       |       |       |
| 10                                                | K                                       | K   | KJ | KJ  | KJ | KJ       | K  | K  | K  |    |    |    |    |    |    |    |    |    |    |    |                                             | *     | *     |       |       |       |
| 12                                                |                                         | K   | KJ | KJ  | KJ | KJ       | K  | K  | K  |    |    |    | K  |    |    | K  |    |    |    |    |                                             | *     | J     |       |       |       |
| 14                                                |                                         |     | KJ |     | KJ | K        |    | K  | K  |    |    |    |    |    |    |    |    |    |    |    |                                             |       | J     | *     | *     |       |
| 15                                                |                                         |     | K  | K   | K  | K        | K  | K  | K  |    | K  | K  | K  |    | K  | K  |    | K  |    |    |                                             |       |       |       |       |       |
| 16                                                |                                         |     | KJ | J   | KJ | KJ       | KJ |    | KJ |    |    | K  | K  |    |    |    | K  |    |    |    |                                             |       | J     | *     | *     |       |
| 20                                                |                                         |     | KJ | K   | KJ | KJ       | K  | KJ | KJ |    |    |    | K  |    | K  | K  | K  | K  |    |    | K                                           |       |       |       |       | K     |
| 25                                                |                                         |     |    |     | KJ | KJ       | KJ | KJ | KJ | KJ | J  | J  | KJ |    | K  |    |    | K  |    | K  |                                             |       | J     | *     | *     |       |
| 28                                                |                                         |     |    |     |    | KJ       | J  |    | K  |    |    |    |    |    |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 32                                                |                                         |     | J  |     | KJ | KJ       | KJ | KJ | KJ | KJ | J  | K  | KJ |    | K  |    | K  |    |    |    |                                             |       | J     | *     | *     |       |
| 36                                                |                                         |     |    |     |    | K        | K  | K  | K  | K  |    | K  | K  | K  |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 40                                                |                                         |     |    |     | J  | KJ       | KJ | KJ | KJ | KJ | J  | KJ | KJ |    | J  |    | K  | KJ |    |    |                                             |       | J     | J     | *     | *     |
| 45                                                |                                         |     |    |     |    | K        | KJ | KJ | K  | KJ | J  | J  | K  |    |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 50                                                |                                         |     |    |     |    | KJ       | KJ | KJ | KJ | KJ | J  | KJ | KJ |    | J  | J  |    | KJ |    | K  |                                             |       | J     | J     | *     | *     |
| 55                                                |                                         |     |    |     |    |          |    | K  | K  | K  |    | K  | K  |    |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 57                                                |                                         |     |    |     |    |          |    | J  |    | J  |    | J  |    |    | J  |    |    |    |    |    |                                             |       |       | *     | J     |       |
| 63                                                |                                         |     |    |     |    | J        | KJ | K  | KJ | KJ | J  | J  | J  |    | J  | J  |    | J  | J  |    |                                             |       |       | J     | J     | *     |
| 70                                                |                                         |     |    |     |    |          |    |    | K  | K  |    | K  | K  |    |    |    |    |    |    |    |                                             |       |       |       |       |       |
| 80                                                |                                         |     |    |     |    |          |    |    | KJ | KJ | KJ | KJ | KJ | J  |    | J  |    | J  |    | J  |                                             |       |       | *     | J     | *     |
| 100                                               |                                         |     |    |     |    |          |    |    | J  | KJ | J  | KJ | KJ |    | J  | J  |    | J  |    | J  |                                             |       |       |       | J     | *     |
| 125                                               |                                         |     |    |     |    |          |    |    |    | K  |    | KJ | KJ |    |    | J  |    |    |    |    |                                             |       |       |       | *     | *     |

**K** -Tooling available for these sizes offered by KURODA

**KJ** -Tooling available for these sizes offered by BOTH

**J** -Tooling available for these sizes offered by JENA TEC

**\*** -CUSTOM Tooling available upon Request

For more detailed product information and specifications, please visit our websites:

KURODA PRECISION Products: <http://www.kuroda-precision.com>

KURODA JENATEC Products: <http://www.jena-tec.com>

## Ordering Code

### ●Standard Products

#### ●Without End Machining

GE 15 05 D S – B A L R – 0600 A  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

#### ●With End Machining

GE 15 05 D S – B A L R – 0600 X 0500 – C7 M  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

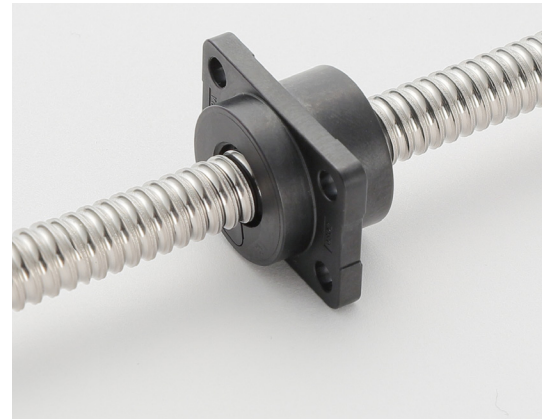
### ●Customized Products

GR 15 05 D S – B A L R – 0600 X 0500 – C7 M  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>① Series<br/>           Customized products<br/>           GR : GR series (C0-C10)<br/>           DR : DR series (C0-C10)<br/>           FR : FR series (C1-C7)<br/>           JT : JT series (IT1-IT7)</p> <p>② Screw shaft diameter (mm)<br/>           5-125<br/>           However, this should be displayed as 5:05, 6:06, 10:10, 100:A0, and 125:C5.</p> <p>③ Lead (mm):1-64<br/>           However, this should be displayed as 1.5:1F, 2.5:2F, and 5:05.</p> <p>④ Number of circuits<br/>           A: 1.5 turns 1 circuit<br/>           B: 1.5 turns 2 circuits<br/>           D: 2.5 turns 1 circuit<br/>           E: 2.5 turns 2 circuits<br/>           G: 3.5 turns 1 circuit<br/>           Q: End cap type<br/>           P: End deflector type<br/>           Z: Others</p> <p>⑤ Nut type<br/>           S: Single nut<br/>           T: Integral nut<br/>           D: Double nut<br/>           Z: Others</p> <p>⑥ Flange type<br/>           A-H: Catalogue configurations<br/>           N: Without flange<br/>           Z: Others</p> <p>⑦ Ball return system<br/>           A: Tube method<br/>           D: Deflector method<br/>           E: End cap method<br/>           P: End deflector method<br/>           Z: Others</p> | <p>⑧ Wiper material<br/>           P: Plastic wiper<br/>           L: Lip seal<br/>           S: LUBSEAL<br/>           N: No wiper</p> <p>⑨ Thread direction<br/>           R: Right hand thread<br/>           L: Left hand thread</p> <p>⑩ Overall length of screw shaft (mm)</p> <p>⑪ Shaft end configuration<br/>           In the case where the shaft and nut are ordered as a set<br/>           A: Without end machining (Standard product)<br/>           B: One shaft end machining as per your drawing (Standard product)<br/>           X: End machining as per your drawing (Customized product or standard product with additional machining)</p> <p>⑫ Thread length (mm)</p> <p>⑬ Accuracy grade<br/>           C0, C1, C2, C3, C4, C5, C7, C10<br/>           T1, T3, T5, T7</p> <p>⑭ Axial clearance<br/>           S: 0<br/>           F: Max. 0.005 mm<br/>           H: Max. 0.010 mm<br/>           M: Max. 0.030 mm<br/>           L: Max. 0.2 mm<br/>           Y: Axial play for rolled ball screw<br/>           Z: Others</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The Resin Nut Ball Screw utilizes a super engineering plastic (PPS resin) which even among resins, has outstanding mechanical properties and resistance to chemicals for the nut part. Stainless steel is used for the screw shaft and the internal circulating balls. Due to the merits of the ball screw characteristic transmission efficiency, the whining noise heard in lead screws will not occur, resulting in a quiet and smooth operation over all strokes, from low speeds to high speeds.

In addition, due to the utilization of components made from resin, the Resin Nut Ball Screw is more economical and has shorter delivery times than the previous steel-made ball screws, which optimizes solutions for equipment used in light loading applications.



## ●Ordering Number

|    |                    |              |   |   |   |   |   |   |   |   |                                  |   |                  |   |    |   |
|----|--------------------|--------------|---|---|---|---|---|---|---|---|----------------------------------|---|------------------|---|----|---|
| RW | 08<br>(Shaft dia.) | 02<br>(Lead) | P | S | - | B | P | N | R | - | Overall length<br>of screw shaft | × | Thread<br>length | - | C7 | M |
|----|--------------------|--------------|---|---|---|---|---|---|---|---|----------------------------------|---|------------------|---|----|---|

## ●Specifications and Performance

### ●Performance

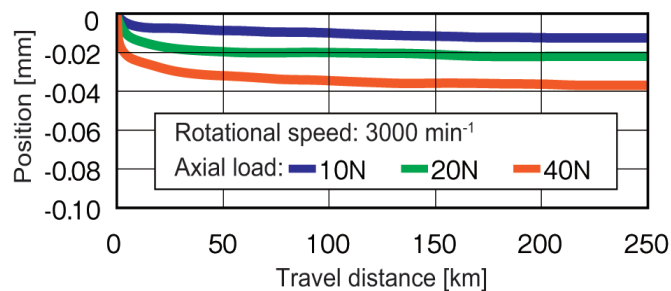
Travel lifetime: 250 km or more (1.25 million or more return trips at a stroke of 100 mm)  
Permissible axial load: 40 N  
Permissible rotational speed: 3000 min<sup>-1</sup>  
Initial axial clearance: 0.030 mm or less

### ●Positioning accuracy and temperature characteristics

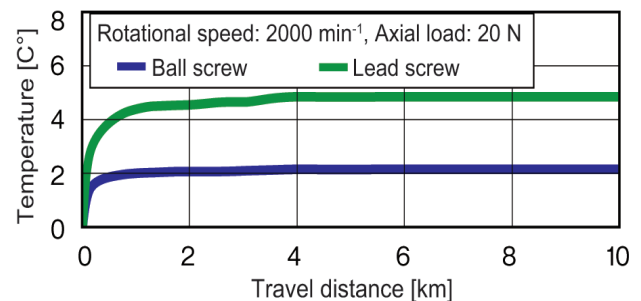
Test conditions: Shaft diameter:  $\phi 8$ , lead: 2 mm, stroke: 100 mm, and loading direction: vertical

### ●Materials

Screw shaft: Stainless steel (SUS304)  
Nut: Poly Phenylene Sulfide (PPS)  
Ball: Stainless steel (SUS440C)  
\* The standard grease used is Alvania Grease S2.

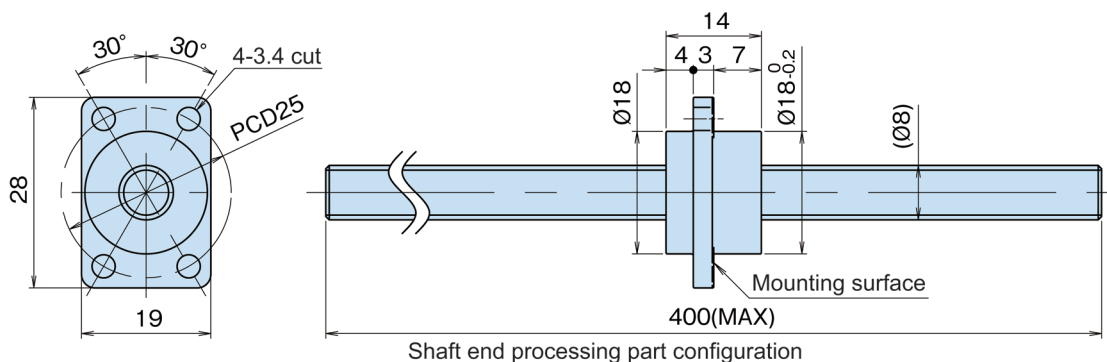


Outstanding abrasion resistance:  
Long-period stable positioning accuracy



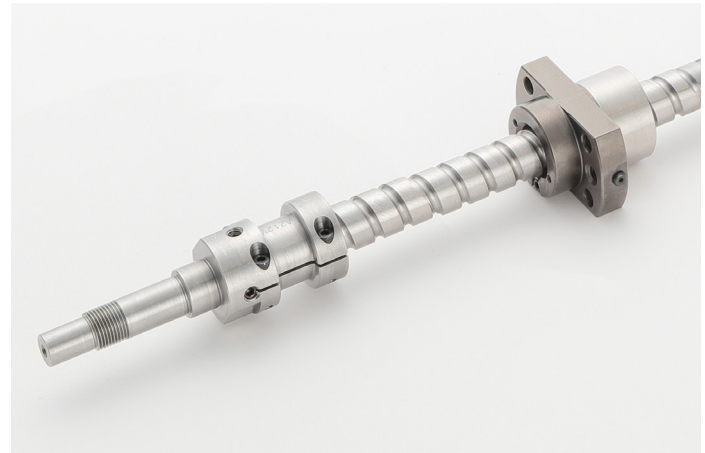
Outstanding temperature characteristics: Low heat generation ability that can only be realized by ball screws

## ●Configuration dimensions



The ball screws with shaft end adapters have been standardized as the GK Series (Tube method) FK Series (End deflector method).

“Shaft end adapters” are adapters that have already been processed using KURODA’s recommended fixed shaft end configuration. By directly inserting these adapters on the screw shaft diameter, they allow provision of a shaft end unit that has the same strength and accuracy as the previous one-piece fixed shaft end in a short delivery time.



## ●Ordering Number

GK Shaft dia. Lead     -         - Overall length of screw shaft T Thread length - C5F C7M

## ●Accuracy Grade and Axial Clearance

Single nut, accuracy grade: C5, axial clearance: Max. 0.005 mm (Configuration display symbol: F)

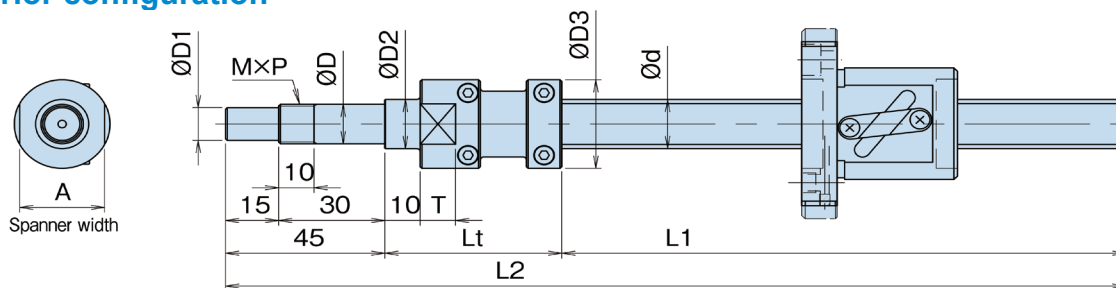
Single nut, accuracy grade: C7, axial clearance: Max. 0.030 mm (Configuration display symbol: M)

## ●Specifications and Performance

| Model | Ball screw          |               |               |                                        | Adapter unit                  |                         |                                           |
|-------|---------------------|---------------|---------------|----------------------------------------|-------------------------------|-------------------------|-------------------------------------------|
|       | Shaft dia. $\phi d$ | Lead [mm]     | Lead accuracy | Axial clearance [mm]                   | Permissible input torque [Nm] | Maximum axial load* [N] | Component bracket deviation accuracy [mm] |
| GK12  | 12                  | 5, 10, 20     | C5/C7         | C5: Max. 0.005 mm<br>C7: Max. 0.030 mm | 3.8                           | 500                     | 0.020                                     |
| FK12  |                     | 10, 20        |               |                                        |                               |                         |                                           |
| GK15  | 15                  | 5, 10, 15, 20 | C5/C7         | C5: Max. 0.005 mm<br>C7: Max. 0.030 mm | 3.8                           | 500                     | 0.020                                     |
| FK15  |                     | 5, 10, 20     |               |                                        |                               |                         |                                           |

\* This is the maximum axial load that is applied to the adapter unit during acceleration and deceleration.

## ●Exterior configuration



| Model | Shaft dia. $\phi d$ | Adapter unit                   |                                      |                        |                              |                     |                               |                     |              | Overall length L2 | Screw length L1 |
|-------|---------------------|--------------------------------|--------------------------------------|------------------------|------------------------------|---------------------|-------------------------------|---------------------|--------------|-------------------|-----------------|
|       |                     | Bearing unit diameter $\phi D$ | Component bracket diameter $\phi D1$ | Flange width $\phi D2$ | Connector diameter $\phi D3$ | Connector length Lt | Length of two-surface width T | Two-surface width A | Thread M x P |                   |                 |
| GK12  | 12h7                | 10                             | $^{0}_{-0.002}$                      | 8                      | 24                           | 45                  | 9                             | 21                  | M10×1        | Up to 1140±1      | Up to 1050      |
| FK12  |                     | 10                             | $^{0}_{-0.008}$                      | 8                      | 24                           | 45                  | 9                             | 21                  | M10×1        | Up to 1140±1      | Up to 1050      |
| GK15  | 15h7                | 12                             | $^{0}_{-0.003}$                      | 10                     | 27                           | 50                  | 10                            | 24                  | M12×1        | Up to 1645±1      | Up to 1550      |
| FK15  |                     | 12                             | $^{0}_{-0.011}$                      | 10                     | 27                           | 50                  | 10                            | 24                  | M12×1        | Up to 1645±1      | Up to 1550      |

\* In the screw shaft connection unit, because there is some projection of the fastening bolts, take care that this does not interfere with the surrounding components.

\* Regarding the configurations and dimensions of each size of nut unit, refer to the GE/GG and FE/FG Series.

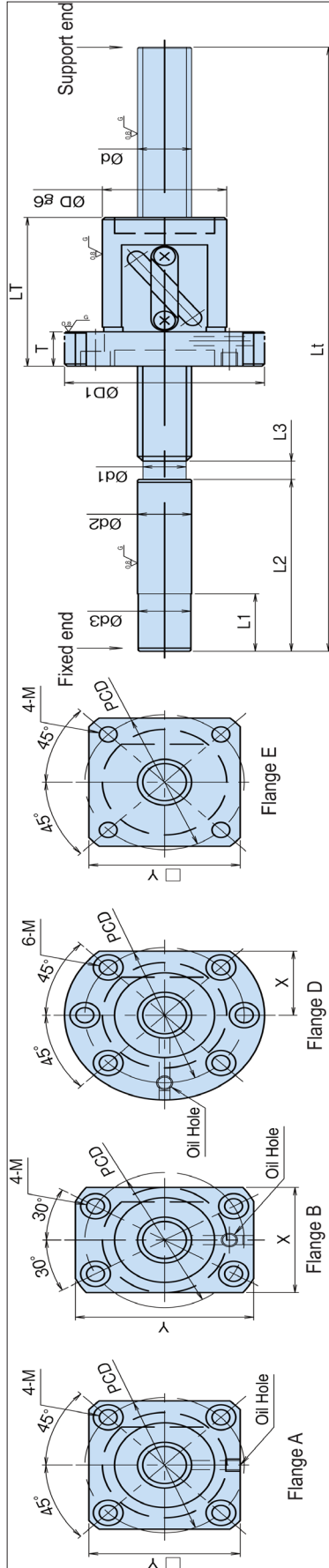


GE Shaft dia. Lead — — — — — Overall length of screw shaft A

GG Shaft dia. Lead — — — — — Overall length of screw shaft A

# G Series – Tube Method GE (Accuracy Grade: C7)/GG (Accuracy Grade: C5)

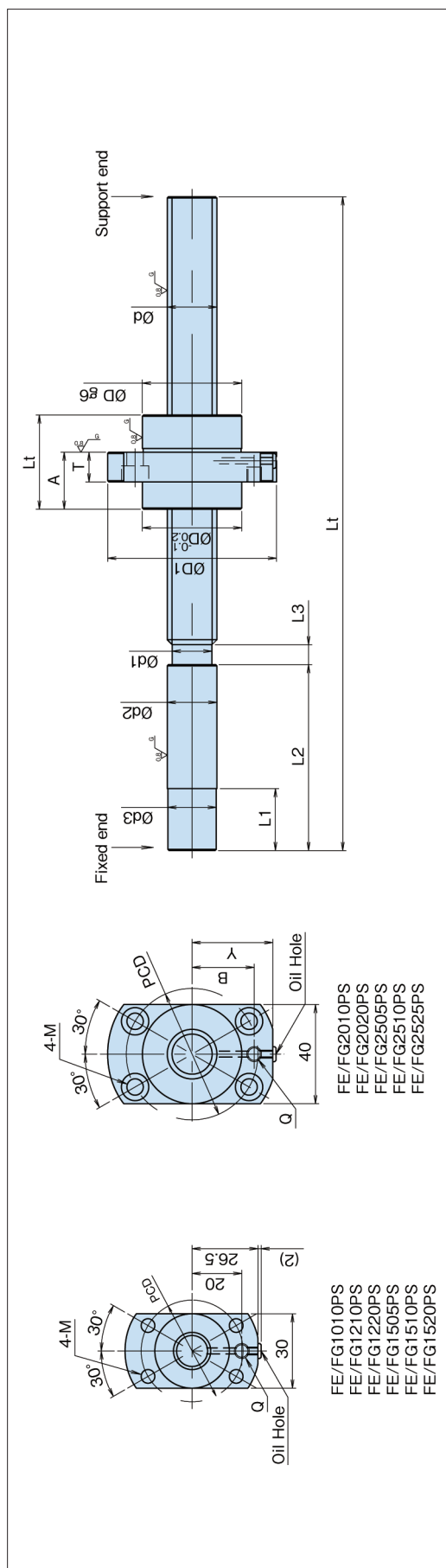
Model No.



| Model No.              | Shaft dia. d | Lead  | Root dia. d1 | Circuit & turn | Axial clearance | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |      |    |                    | Nut dimensions  |                        |        |     |     |     |     |                |       |          | (Unit:mm) |       |
|------------------------|--------------|-------|--------------|----------------|-----------------|-------------------------------|------------------------------|------------------|------|----|--------------------|-----------------|------------------------|--------|-----|-----|-----|-----|----------------|-------|----------|-----------|-------|
|                        |              |       |              |                |                 |                               |                              | Shaft ends       |      |    | Lt                 | Body diameter D | LT                     | Flange |     |     |     |     | Config-uration | Wiper | Oil hole |           |       |
|                        |              |       |              |                |                 |                               |                              | d2               | d3   | L1 |                    |                 |                        | L2     | L3  | T   | D1  | Y   |                |       |          | X         | PCD P |
| GE/GG081FDS-AANR-□□□□A | 8            | 1.5   | 7.1          | 2.5×1          |                 | 850                           | 1900                         | 12               | 11.7 | 20 | 45                 | 3               | 215                    | 16     | 24  | 32  | 25  | --- | 23             | M     | A        | N         |       |
| GE/GG0802DS-AANR-□□□□A |              | 1950  | 2600         |                |                 | 6                             | 215                          | 20               | 20   | 30 | 5                  | 36              | 28                     | ---    | 27  | M3  | B   | F   |                |       |          |           |       |
| GE/GG0804DS-BAFR-□□□□A |              | 2350  | 3300         |                |                 |                               | 250/340                      | 22               | 38   | 34 | 24                 | 29              | 31                     | ---    | 31  | M4  | A   | F   |                |       |          |           |       |
| GE/GG1002DS-EANR-□□□□A | 10           | 2     | 8.6          | 2.5×1          |                 | 2250                          | 3300                         | 10               | 9.7  | 20 | 45                 | 3               | 250/320                | 23     | 27  | 5   | 40  | 31  | ---            | 31    | B        | E         | N     |
| GE/GG102FDS-AAFR-□□□□A |              | 2700  | 4200         |                |                 | 50                            | 4                            | 250/320          | 24   |    | 35                 | 8               | 43                     | 33     | --- | 32  | M4  | A   | F              |       |          |           |       |
| GE/GG1004DS-BAPR-□□□□A |              | 3350  | 5900         |                |                 | 55                            | 5                            | 255/385/455      | 26   |    | 37                 | 8               | 46                     | 42     | 28  | 36  | B   | P   | N/A            |       |          |           |       |
| GE/GG1010AS-BAPR-□□□□A | 12           | 10    | 8.1          | 1.5×1          |                 | 2200                          | 3500                         | 14               | 13.7 | 50 | 50                 | 3               | 300/455                | 25     | 35  | 44  | 34  | --- | 33             | M4    | A        |           |       |
| GE/GG1202DS-AAFR-□□□□A |              | 2450  | 4100         |                |                 | 5                             | 300/400                      | 26               | 34   |    | 45                 | 35              | ---                    | 34     | M5  | A   |     |     |                |       |          |           |       |
| GE/GG122FDS-AAFR-□□□□A |              | 2950  | 5100         |                |                 | 55                            | 5                            | 405/605          | 30   |    | 44                 | 10              | 50                     | 45     | 40  | M4  | L   |     |                |       |          |           |       |
| GE/GG1204DS-AALR-□□□□A | 12           | 4     | 10.1         | 2.5×1          |                 | 3600                          | 6750                         | 12               | 11.7 | 20 | 55                 | 5               | 455/605                | 32     | 68  | 12  | 54  | 48  | ---            | 41    | M5       |           |       |
| GE/GG1205DS-BALR-□□□□A |              | 5950  | 9800         |                |                 | 12                            | 11.7                         | 30               | 44   |    | 10                 | 50              | 45                     | 40     | M4  | L   |     |     |                |       |          |           |       |
| GE/GG1220AS-BALR-□□□□A |              | 3850  | 5900         |                |                 | 20                            | 13.6                         | 20               | 30   |    | 37                 | 54              | 48                     | 32     | 43  | M5  | L   |     |                |       |          |           |       |
| GE/GG1502DS-BAPR-□□□□A | 15           | 2     | 13.6         | 1.5×1          |                 | 2700                          | 5500                         | 15               | 14.5 | 25 | 55                 | 3               | 300/600                | 30     | 37  | 10  | 56  | --- | 43             | P     | M6       |           |       |
| GE/GG1504DS-BALR-□□□□A |              | 4100  | 8550         |                |                 | 44                            | 600/1100                     |                  | 32   |    | 41                 | 10              | 56                     | ---    | 43  | M5  | L   |     |                |       |          |           |       |
| GE/GG1505DS-BAFR-□□□□A |              | 6900  | 12500        |                |                 | 52                            | 600/900/1100/1300/1500       |                  | 34   |    | 54                 | 62              | 12                     | 58     | 50  | 34  | 45  | M5  | L/S            |       |          |           |       |
| GE/GG1510AS-BAFR-□□□□A | 15           | 10    | 12.5         | 2.5×1          |                 | 4400                          | 7900                         | 15               | 14.5 | 25 | 55                 | 5               | 600/900/1100/1300/1500 | 34     | 52  | 58  | 50  | 34  | 45             | M5    | M6       |           |       |
| GE/GG1510DS-BAFR-□□□□A |              | 6900  | 12500        |                |                 | 54                            | 600/900/1100/1300            |                  | 34   |    | 54                 | 62              | 12                     | 58     | 50  | 34  | 45  | M5  | L/S            |       |          |           |       |
| GE/GG1515AS-BAFR-□□□□A |              | 4400  | 7900         |                |                 | 62                            | 600/900/1100/1300/1500       |                  | 34   |    | 54                 | 62              | 12                     | 58     | 50  | 34  | 45  | M5  | L/S            |       |          |           |       |
| GE/GG1620AS-BAFR-□□□□A | 16           | 20    | 15.1         | 1.5×1          |                 | 4750                          | 8300                         | 16               | 15.5 | 25 | 55                 | 5               | 605/1005               | 34     | 54  | 12  | 58  | 50  | 34             | 45    | M5       | M6        |       |
| GE/GG1616AS-BTFR-□□□□A |              | 8600  | 23400        |                |                 | 16                            | 15.5                         | 25               | 55   | 5  | 605/1005           | 40              | 48                     | 12     | 68  | 60  | 40  | 53  | 51             | M5    | A        |           | L     |
| GE/GG2004ES-AALR-□□□□A |              | 8350  | 17500        |                |                 | 16                            | 15.5                         | 25               | 75   | 8  | 605/1005/1505/1805 | 46              | 65                     | 15     | 74  | 66  | 46  | 59  | 60             | M6    | A        |           | L     |
| GE/GG2005DS-BAFR-□□□□A | 20           | 5     | 17.5         | 2.5×1          |                 | 13500                         | 25100                        | 20               | 19.5 | 25 | 75                 | 8               | 1005/1505/1805         | 46     | 70  | 15  | 74  | 66  | 46             | 59    | M6       | M6        |       |
| GE/GG2010DS-BAFR-□□□□A |              | 9200  | 16200        |                |                 | 20                            | 15.9                         | 1.5×1            | 46   | 70 | 15                 | 74              | 66                     | 46     | 59  | M6  | A   | L   |                |       |          |           |       |
| GE/GG2020AS-BAFR-□□□□A |              | 9400  | 22200        |                |                 | 20                            | 22.5                         | 2.5×1            | 47   | 48 | 12                 | 57              | 57                     | 57     | 57  | 60  | M6  | A   | L              |       |          |           |       |
| GE/GG2505DS-AAFR-□□□□A | 25           | 5     | 22.5         | 2.5×1          |                 | 16100                         | 33400                        | 25               | 24.5 | 25 | 100                | 8               | 1020/1520/2220         | 52     | 65  | 86  | 78  | 52  | 68             | M8    | M6       |           |       |
| GE/GG2510DS-BAFR-□□□□A |              | 10400 | 20100        |                |                 | 25                            | 24.5                         | 25               | 100  | 8  | 1020/1520/2220     | 54              | 77                     | 88     | 54  | 70  | 15  | 88  | 54             | 70    |          | M8        | B     |
| GE/GG2520AS-BAFR-□□□□A |              | 19000 | 57200        |                |                 | 25                            | 31.5                         | 25               | 150  | 5  | 1020/1520/2020     | 58              | 58                     | 12     | 85  | 32  | 71  | 66  | 32             | 71    |          | M6        | L     |
| GE/GG2525AS-BAFR-□□□□A | 32           | 5     | 29.5         | 2.5×2          |                 | 25800                         | 55600                        | 32               | 31.5 | 25 | 200                | 10              | 1000/1600/2000         | 74     | 68  | 15  | 108 | --- | 41             | 90    | M8       | M6        |       |
| GE/GG3205DS-DALR-□□□□A |              | 19000 | 57200        |                |                 | 32                            | 31.5                         | 25               | 200  | 10 | 1000/1600/2000     | 74              | 68                     | 15     | 108 | --- | 41  | 90  | M8             | L     |          |           |       |
| GE/GG3210DS-DALR-□□□□A |              | 25800 | 55600        |                |                 | 32                            | 31.5                         | 25               | 200  | 10 | 1000/1600/2000     | 74              | 68                     | 15     | 108 | --- | 41  | 90  | M8             | L     |          |           |       |

Model No. □□□□□ : Overall length Axial clearance M: Max. 0.030 mm F: Max. 0.005 mm Wiper material N: No wiper P: Plastic L: Lip seal S: LUBESEAL For the products marked with "\*\*\*", it is possible to select L: Lip seal or S: LUBESEAL (Option).

Model No. □□□□ : Overall length □□□□ : Axial clearance □□□□ : Wiper material □□□□ : No wiper □□□□ : Lip seal or S: LUBSEAL (Option). For the products marked with "M", it is possible to select L: Lip seal or S: LUBSEAL.

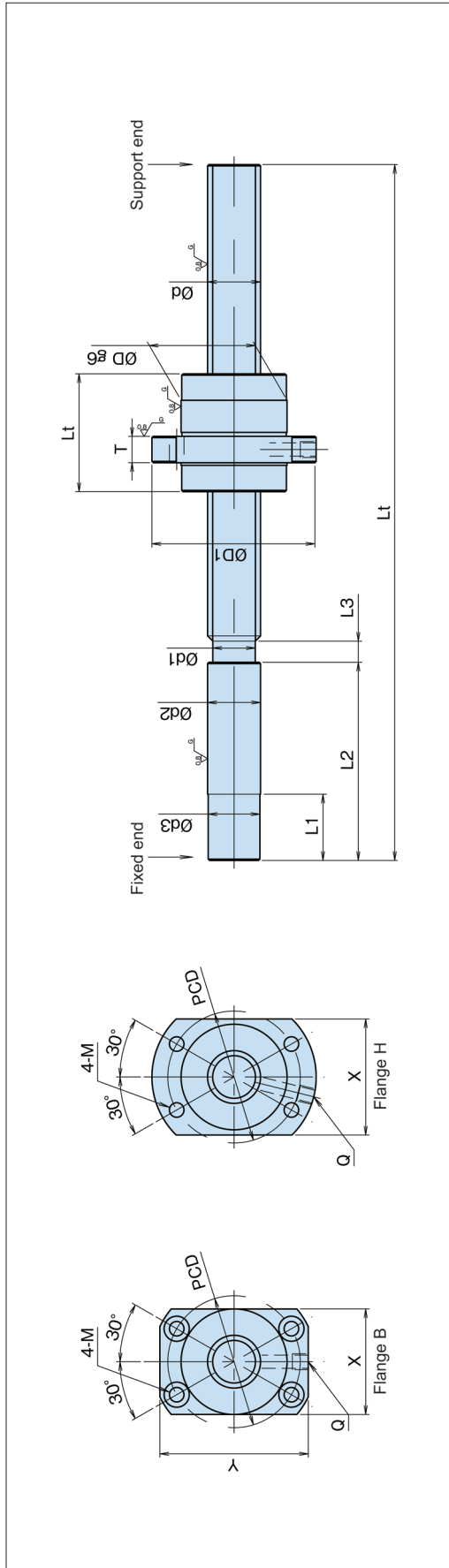


| Model No.                    | Shaft dia. d | Lead | Root dia. d1 | Circuit & turn | Axial clearance | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |      |    |     |                        | Nut dimensions         |                 |      |     |    |    |                  |       |    |                 |                                   | Oil hole Q                                                                                                       |    |  |  |  |
|------------------------------|--------------|------|--------------|----------------|-----------------|-------------------------------|------------------------------|------------------|------|----|-----|------------------------|------------------------|-----------------|------|-----|----|----|------------------|-------|----|-----------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------|----|--|--|--|
|                              |              |      |              |                |                 |                               |                              | Shaft ends       |      |    |     |                        | Flange                 |                 |      |     |    |    |                  |       |    |                 |                                   |                                                                                                                  |    |  |  |  |
|                              |              |      |              |                |                 |                               |                              |                  |      |    |     |                        |                        |                 |      |     |    |    |                  |       |    |                 |                                   |                                                                                                                  |    |  |  |  |
|                              |              |      |              |                |                 |                               |                              | d2               | d3   | L1 | L2  | L3                     | Lt                     | Body diameter D | A    | T   | D1 | X  | Y                | PCD P | B  | Mounting hole M | Mounting hole M Countersunk depth |                                                                                                                  |    |  |  |  |
| FEFG1010PS-HPNR: □□□□ A      | 10           | 10   | 8.1          | 1.7*1          |                 | 2600                          | 3800                         | 14               | 13.7 |    | 8   | 255/455/655            | 23                     | 27              | 17.5 | 10  | 44 | 24 | 21.5             | 32    | 16 | 4.5             |                                   |                                                                                                                  |    |  |  |  |
| FEFG1210PS-HPNR: □□□□ A      | 12           | 10   | 9.5          | 2.7*1          |                 | 6700                          | 10700                        | 12               | 11.7 | 20 | 55  | 455/605                | 27                     | 38              | 19.5 | 10  | 47 | 27 | 23               | 36    | 18 | 4.5             |                                   | -                                                                                                                | M3 |  |  |  |
| FEFG1220PS-HPNR: □□□□ A      |              | 20   | 9.5          | 1.7*1          |                 | 4300                          | 6700                         | 12               |      |    |     |                        |                        | 27              | 48   | 20  | 10 | 47 | 27               | 23    | 36 | 18              | 4.5                               |                                                                                                                  |    |  |  |  |
| FEFG1505PS-HPNR: □□□□ A      | 15           | 5    | 12.5         | 2.7*1          |                 | 7400                          | 12900                        |                  |      |    |     | 600/1100               | 30                     | 25              | 17.3 | 9.5 | 54 | 30 | 26.5             | 41    | 20 |                 |                                   |                                                                                                                  |    |  |  |  |
| FEFG1510PS-HPNR: □□□□ A      |              | 10   | 12.5         | 2.7*1          |                 | 7400                          | 12900                        | 15               | 14.5 | 25 |     | 55                     | 600/900/1100/1300/1500 | 30              | 38   | 20  | 10 | 54 | 30               | 26.5  | 41 | 20              | 5.5                               | -                                                                                                                | M6 |  |  |  |
| FEFG1620PS-HPNR: □□□□ A      | 20           | 20   | 12.5         | 1.7*1          | M: FE           | 4800                          | 8200                         |                  |      |    |     | 600/900/1100/1300/1500 | 30                     | 48              | 20.5 | 10  | 54 | 30 | 26.5             | 41    | 20 |                 |                                   |                                                                                                                  |    |  |  |  |
| FEFG2010PS-HPNR: □□□□ A      |              | 10   | 16           | 2.7*1          | F: FG           | 18000                         | 33900                        |                  |      |    |     |                        | 605/1005/1505/1805     | 38              | 23   | 12  |    |    |                  |       |    |                 |                                   |                                                                                                                  |    |  |  |  |
| FEFG2020PS-HPNR: □□□□ A      | 20           | 10   | 15.9         | 1.7*1          |                 | 11600                         | 20600                        | 20               | 19.5 |    | 75  | 1005/1505/1805         | 40                     | 48              | 23   | 12  | 68 | 40 | 32.5             | 53    | 25 |                 |                                   |                                                                                                                  |    |  |  |  |
| FEFG2510PS-HPNR: □□□□ A      |              | 5    | 22.5         | 3.7*1          |                 | 13100                         | 31800                        |                  |      | 25 |     | 5                      | 600/1000/1505/1805     | 40              | 30   | 20  | 12 | 68 | 40               | 32.5  | 53 | 25              | 6.6                               | 11                                                                                                               | M6 |  |  |  |
| FEFG2510PS-HPNR: □□□□ A      | 25           | 10   |              | 2.7*1          |                 | 20400                         | 42600                        | 25               | 24.5 |    | 100 | 1020/1520/2220         | 45                     | 37              | 25   | 15  | 74 | 45 | 35.5             | 59    | 28 |                 |                                   |                                                                                                                  |    |  |  |  |
| FEFG2525PS-HPNR: □□□□ A      |              | 25   | 21           |                | 1.7*1           |                               | 13100                        | 25900            |      |    |     | 8                      | 1020/1520/2020         | 45              | 58   | 27  | 15 |    |                  |       |    |                 |                                   |                                                                                                                  |    |  |  |  |
| Model No. □□□□□ : Overlength |              |      |              |                |                 |                               |                              |                  |      |    |     |                        |                        |                 |      |     |    |    | Axial clearances |       |    |                 |                                   | M: Max. 0.030 mm   E: Max. 0.015 mm   W: Wiper material   N: No. wiper or S: J11BSEAL (optional) can be selected |    |  |  |  |

| Part      | Size | Material                                            | Quantity | Unit | Notes |
|-----------|------|-----------------------------------------------------|----------|------|-------|
| Model No. | □□□□ | Overall length                                      | □□□□     | mm   |       |
|           |      | Axial clearance                                     | □□□□     | mm   |       |
|           |      | M: Max. 0.030 mm                                    |          |      |       |
|           |      | F: Max. 0.005 mm                                    |          |      |       |
|           |      | Wiper material                                      |          |      |       |
|           |      | N: No wiper or S: LUBSEAL (option) can be selected. |          |      |       |

## H Series – End Cap Method HG (Accuracy Grade: C5) For High Speed Conveyance Application

HG Shaft dia. Lead — Overall length of screw shaft A  
Model No.



| Model No.              | Shaft dia. d | Lead | Root dia. d1 | Circuit & turn | Axial clearance | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |      |    |     |    | Nut dimensions |                 |        |    |    |    |       |        |                |       | Oil hole |     |
|------------------------|--------------|------|--------------|----------------|-----------------|-------------------------------|------------------------------|------------------|------|----|-----|----|----------------|-----------------|--------|----|----|----|-------|--------|----------------|-------|----------|-----|
|                        |              |      |              |                |                 |                               |                              | Shaft ends       |      |    |     |    | Lt             | Body diameter D | Flange |    |    |    |       |        |                |       |          |     |
|                        |              |      |              |                |                 |                               |                              | d2               | d3   | L1 | L2  | L3 |                |                 | T      | D1 | Y  | X  | PCD P | Bolt M | Configu-ration | Wiper |          |     |
|                        |              |      |              |                |                 |                               |                              |                  |      |    |     |    |                |                 |        |    |    |    |       |        |                |       |          |     |
| HG0606QS-HEZR-□□□□□□ A | 6            | 6    | ---          | 1.5×2          | H               | 760                           | 1140                         | 9.5              | 9.2  | 18 | 40  | 8  | 210            | 14              | 16.5   | 4  | 27 | -  | 16    | 21     | M3             | H     | Z        | N/A |
| HG0812QS-HEZR-□□□□□□ A | 8            | 12   | ---          | 1.67×2         | H               | 2490                          | 3460                         | 12               | 11.7 | 20 | 45  | 12 | 340            | 18              | 27     | 4  | 31 | -  | 20    | 25     | M3             | H     | Z        | N/A |
| HG1230QS-BEZR-□□□□□□ A | 12           | 30   | 9.5          | 0.67×3         | H               | 4800                          | 6650                         | 12               | 11.7 | 20 | 55  | 15 | 500/800        | 32              | 35     | 10 | 56 | 48 | 32    | 43     | M5             | B     | Z        |     |
| HG1520QS-HEZR-□□□□□□ A | 15           | 20   | 12.5         | 1.67×2         | F               | 8740                          | 17550                        | 15               | 14.5 | 25 | 55  | 15 | 600/1100/1300  | 34              | 47.5   | 10 | 55 | -  | 34    | 45     | M5             | H     | Z        |     |
| HG1540QS-BEZR-□□□□□□ A | 15           | 40   | 12.5         | 0.67×3         | H               | 5600                          | 8600                         | 16               | 15.5 | 25 | 55  | 15 | 600/1100       | 35              | 41.7   | 12 | 58 | 50 | 34    | 45     | M5             | B     | Z        |     |
| HG1632QS-HEZR-□□□□□□ A | 16           | 32   | 13.5         | 0.67×3         | F               | 6100                          | 9100                         | 16               | 15.5 | 25 | 55  | 15 | 600/1100/1500  | 35              | 36.3   | 10 | 56 | -  | 38    | 44     | M4             | H     | Z        |     |
| HG2020QS-HEZR-□□□□□□ A | 20           | 20   | ---          | 1.67×2         | F               | 8740                          | 17550                        | 20               | 19.5 | 25 | 75  | 5  | 1000/1500      | 39              | 47.5   | 10 | 62 | -  | 39    | 50     | M5             | H     | Z        | M6  |
| HG2030QS-HEZR-□□□□□□ A | 20           | 30   | 17.5         | 0.67×2         | F               | 10690                         | 2330                         | 20               | 19.5 | 25 | 75  | 5  | 1000/1500      | 40              | 44.7   | 12 | 76 | -  | 44    | 50     | M5             | B     | F        |     |
| HG2040QS-HEZR-□□□□□□ A | 20           | 40   | ---          | 0.67×3         | H               | 6800                          | 12100                        | 25               | 24.5 | 25 | 100 | 15 | 1015/1715/2015 | 50              | 58     | 12 | 76 | -  | 56    | 62     | M6             | H     | F        |     |
| HG2060QS-BEZR-□□□□□□ A | 25           | 60   | 22.2         | 0.67×3         | F               | 10200                         | 19300                        | 25               | 24.5 | 25 | 100 | 15 | 1015/1715/2015 | 50              | 71     | 12 | 76 | -  | 54    | 62     | M6             | H     | F        |     |
| HG2550QS-HEFR-□□□□□□ A | 25           | 50   | 22.2         | 0.67×3         | F               | 17200                         | 31900                        | 32               | 31.5 | 25 | 120 | 15 | 1200/1700/2200 | 60              | 85     | 15 | 94 | -  | 66    | 76     | M8             | H     | F        |     |
| HG3264QS-HEFR-□□□□□□ A | 32           | 64   | 21.6         | 0.67×3         | F               | 17200                         | 31900                        | 32               | 31.5 | 25 | 120 | 15 | 1200/1700/2200 | 60              | 85     | 15 | 94 | -  | 66    | 76     | M8             | H     | F        |     |

H: Max. 0.010 mm  
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Wiper material Z: Lip of end cap serves as a wiper F: Felt

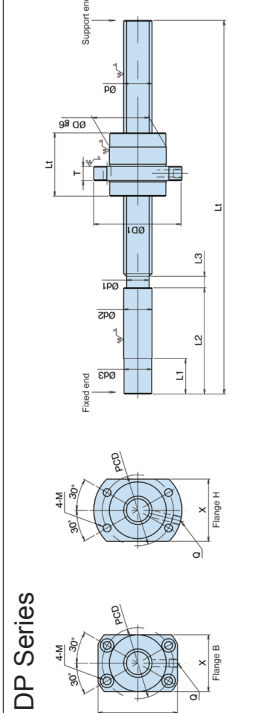
## D Series – Deflector Method DP (Accuracy Grade: C3)

## G Series – Tube Method GP (Accuracy Grade: C3)

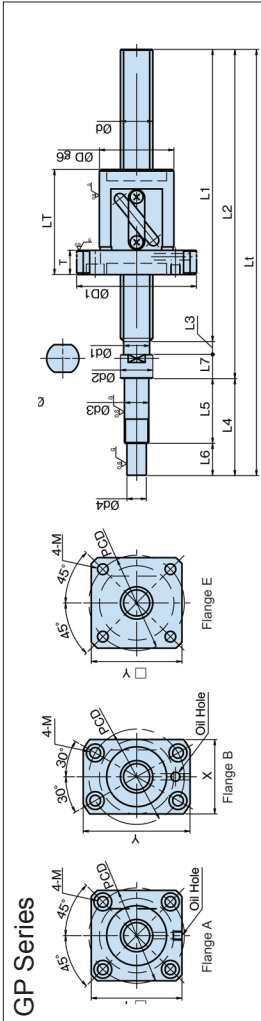
DP Shaft dia. Lead Shaft dia. Overall length of screw shaft B-C3 S  
GP Shaft dia. Lead Shaft dia. Overall length of screw shaft B-C3 S

Model No.

### DP Series



### GP Series



### DP Series

DP Series

| Model No.                | Shaft dia. d | Lead | Root dia. d1 | Circuit & turn | Axial clearance | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |    |     |     | Nut dimensions |            |    |      | Wiper | Oil hole |                 |    |        |     |    |    |    |    |       |        |
|--------------------------|--------------|------|--------------|----------------|-----------------|-------------------------------|------------------------------|------------------|----|-----|-----|----------------|------------|----|------|-------|----------|-----------------|----|--------|-----|----|----|----|----|-------|--------|
|                          |              |      |              |                |                 |                               |                              | Shoulder         |    | L1  | L2  | Lt             | Shaft ends |    |      |       |          | Body diameter D | LT | Flange |     |    |    |    |    |       |        |
|                          |              |      |              |                |                 |                               |                              | d2               | L7 |     |     |                | L3         | L4 | L5   |       |          |                 |    | d3     | L6  | d4 | T  | D1 | X  | PCD P | Bolt M |
| DP0601JS-HDNR-0130B-C3/S | 6            | 1    | ---          | 1×3            |                 | 550                           | 1150                         | 9.5              | 7  | 90  | 100 | 130            | 3          | 30 | 22.5 | 6     | 7.5      | 4.5             | 10 | 14.5   | 3.5 | 22 | 14 | 16 | M3 | N     | N/A    |
| DP0601JS-HDNR-0210B-C3/S | 6            | 1    | ---          | 1×3            |                 | 650                           | 1600                         | 11.5             | 8  | 132 | 143 | 180            | 3          | 37 | 27   | 8     | 10       | 6               | 12 | 15     | 4   | 25 | 16 | 19 | M3 | N     | N/A    |
| DP0601JS-HDNR-0260B-C3/S | 6            | 1    | 7.3          | 1×3            |                 | 1350                          | 2300                         | 11.5             | 8  | 132 | 143 | 180            | 3          | 37 | 27   | 8     | 10       | 6               | 12 | 15     | 4   | 25 | 16 | 19 | M3 | N     | N/A    |
| DP0602JS-HDNR-0130B-C3/S | 8            | 2    | 7            | 1×3            |                 | 1550                          | 3000                         | 14               | 10 | 172 | 183 | 220            | 3          | 37 | 27   | 8     | 10       | 6               | 16 | 22     | 5   | 33 | 21 | 25 | M4 | N     | N/A    |
| DP0602JS-HDNR-0210B-C3/S | 8            | 2    | 7            | 1×3            |                 | 1650                          | 3600                         | 14               | 10 | 172 | 183 | 220            | 3          | 37 | 27   | 8     | 10       | 6               | 16 | 22     | 5   | 33 | 21 | 25 | M4 | N     | N/A    |
| DP1002JS-HDNR-0130B-C3/S | 10           | 2    | 9            | 1×3            |                 | 2250                          | 4200                         | 14               | 10 | 242 | 255 | 300            | 3          | 45 | 30   | 10    | 15       | 8               | 18 | 22     | 5   | 35 | 22 | 27 | M4 | N     | N/A    |
| DP1002JS-HDNR-0210B-C3/S | 10           | 2    | 9            | 1×3            |                 | 2250                          | 4200                         | 14               | 10 | 242 | 255 | 300            | 3          | 45 | 30   | 10    | 15       | 8               | 18 | 22     | 5   | 35 | 22 | 27 | M4 | N     | N/A    |
| DP1002JS-HDNR-0260B-C3/S | 10           | 2    | 9            | 1×3            |                 | 2250                          | 4200                         | 14               | 10 | 242 | 255 | 300            | 3          | 45 | 30   | 10    | 15       | 8               | 18 | 22     | 5   | 35 | 22 | 27 | M4 | N     | N/A    |
| DP1203JS-HDPR-0300B-C3/S | 12           | 3    | 10.3         | 1×3            |                 | 3450                          | 6100                         | 15               | 10 | 240 | 255 | 300            | 5          | 50 | 35   | 12    | 18       | 10              | 21 | 26     | 6   | 38 | 23 | 30 | M4 | P     | M6     |
| DP1203JS-HDPR-0400B-C3/S | 12           | 3    | 10.3         | 1×3            |                 | 3450                          | 6100                         | 15               | 10 | 240 | 255 | 300            | 5          | 50 | 35   | 12    | 18       | 10              | 21 | 26     | 6   | 38 | 23 | 30 | M4 | P     | M6     |
| DP1404JS-HDPR-0230B-C3/S | 14           | 4    | 12.1         | 1×3            |                 | 4600                          | 8600                         | 15               | 10 | 270 | 285 | 330            | 5          | 55 | 40   | 12    | 15       | 10              | 26 | 40     | 10  | 45 | 29 | 35 | M4 | P     | M6     |
| DP1404JS-HDPR-0300B-C3/S | 14           | 4    | 12.1         | 1×3            |                 | 4600                          | 8600                         | 15               | 10 | 270 | 285 | 330            | 5          | 55 | 40   | 12    | 15       | 10              | 26 | 40     | 10  | 45 | 29 | 35 | M4 | P     | M6     |
| DP1404JS-HDPR-0360B-C3/S | 14           | 4    | 12.1         | 1×3            |                 | 4600                          | 8600                         | 15               | 10 | 270 | 285 | 330            | 5          | 55 | 40   | 12    | 15       | 10              | 26 | 40     | 10  | 45 | 29 | 35 | M4 | P     | M6     |
| DP1404JS-HDPR-0420B-C3/S | 14           | 4    | 12.1         | 1×3            |                 | 4600                          | 8600                         | 15               | 10 | 270 | 285 | 330            | 5          | 55 | 40   | 12    | 15       | 10              | 26 | 40     | 10  | 45 | 29 | 35 | M4 | P     | M6     |

(Unit: mm)

Axial clearance S: Max. 0.005 mm Wiper material N: No wiper P: Plastic

S: Max. 0 mm F: Max. 0.005 mm

### GP Series

| Model No.                 | Shaft dia. d | Lead | Root dia. d1 | Circuit & turn | Axial clearance | Basic dynamic load rating (N) | Basic static load rating (N) | Shoulder d2 | L1  | L2  | L3  | L4 | L5 | d3 | d4 | Body diameter D | LT | T  | D1 | Y  | X  | PCD P | Bolt M | Configuration | Wiper | Oil hole |
|---------------------------|--------------|------|--------------|----------------|-----------------|-------------------------------|------------------------------|-------------|-----|-----|-----|----|----|----|----|-----------------|----|----|----|----|----|-------|--------|---------------|-------|----------|
| GP081FDS-AAFR-0170B-C3/S  | 8            | 1.5  | 7.1          | 2.5×1          |                 | 850                           | 1900                         | 11.5        | 122 | 133 | 170 | 3  | 37 | 27 | 8  | 10              | 6  | 16 | 24 | 5  | 32 | 25    | 23     | M3            | A     | N/A      |
| GP081FDS-AAFR-0250B-C3/S  | 8            | 1.5  | 7.1          | 2.5×1          |                 | 850                           | 1900                         | 11.5        | 122 | 133 | 170 | 3  | 37 | 27 | 8  | 10              | 6  | 16 | 24 | 5  | 32 | 25    | 23     | M3            | A     | N/A      |
| GP0802DS-AAFR-0170B-C3/S  | 8            | 2    | 6.6          | 2.5×1          |                 | 1950                          | 2600                         | 11.5        | 122 | 133 | 170 | 3  | 37 | 27 | 8  | 10              | 6  | 20 | 30 | 5  | 36 | 28    | 27     | M3            | A     | N/A      |
| GP0802DS-AAFR-0250B-C3/S  | 8            | 2    | 6.6          | 2.5×1          |                 | 2250                          | 3300                         | 11.5        | 162 | 173 | 210 | 3  | 37 | 27 | 8  | 10              | 6  | 23 | 30 | 5  | 40 | 31    | 31     | M4            | E     | N/A      |
| GP1002DS-AAFR-0170B-C3/S  | 10           | 2    | 8.6          | 2.5×1          |                 | 1410                          | 1650                         | 11.5        | 162 | 173 | 210 | 3  | 37 | 27 | 8  | 10              | 6  | 23 | 30 | 5  | 40 | 31    | 31     | M4            | E     | N/A      |
| GP1002DS-AAFR-0250B-C3/S  | 10           | 2    | 8.6          | 2.5×1          |                 | 1700                          | 2100                         | 11.5        | 162 | 173 | 210 | 3  | 37 | 27 | 8  | 10              | 6  | 23 | 30 | 5  | 40 | 31    | 31     | M4            | E     | N/A      |
| GP1002DS-AAFR-0300B-C3/S  | 10           | 2    | 8.6          | 2.5×1          |                 | 2450                          | 4100                         | 11.5        | 242 | 255 | 300 | 3  | 45 | 30 | 10 | 15              | 8  | 25 | 35 | 8  | 44 | 34    | 33     | M4            | A     | N/A      |
| GP1202DS-AAFR-0170B-C3/S  | 12           | 2.5  | 10.3         | 2.5×1          |                 | 2950                          | 5100                         | 14          | 240 | 255 | 300 | 5  | 45 | 30 | 10 | 15              | 8  | 26 | 34 | 8  | 45 | 35    | 34     | M4            | A     | N/A      |
| GP1202DS-AAFR-0250B-C3/S  | 12           | 2.5  | 10.3         | 2.5×1          |                 | 3600                          | 6750                         | 14          | 240 | 255 | 300 | 5  | 45 | 30 | 10 | 15              | 8  | 30 | 41 | 10 | 54 | 41    | 41     | M5            | P     | M6       |
| GP1204DS-AAFR-0300B-C3/S  | 12           | 4    | 10.1         | 2.5×1          |                 | 5950                          | 9800                         | 14          | 340 | 355 | 400 | 5  | 50 | 35 | 12 | 18              | 10 | 30 | 44 | 10 | 50 | 45    | 40     | M4            | B     | M6       |
| GP1205DS-AAFR-0450B-C3/S  | 12           | 5    | 9.5          | 2.5×1          |                 | 2700                          | 5500                         | 14          | 340 | 355 | 400 | 5  | 50 | 35 | 12 | 18              | 10 | 30 | 44 | 10 | 50 | 45    | 40     | M4            | B     | M6       |
| GP1502DS-AAFR-0170B-C3/S  | 15           | 2    | 13.6         | 2.5×1          |                 | 4100                          | 8550                         | 15          | 340 | 355 | 400 | 5  | 50 | 35 | 12 | 18              | 10 | 30 | 44 | 10 | 50 | 45    | 40     | M4            | B     | M6       |
| GP1502DS-AAFR-0250B-C3/S  | 15           | 2    | 13.6         | 2.5×1          |                 | 4100                          | 8550                         | 15          | 340 | 355 | 400 | 5  | 50 | 35 | 12 | 18              | 10 | 30 | 44 | 10 | 50 | 45    | 40     | M4            | B     | M6       |
| GP1504DS-BALR-0400B-C3/S  | 15           | 4    | 13.1         | 2.5×1          |                 | 2580                          | 4270                         | 15          | 340 | 355 | 400 | 5  | 50 | 35 | 12 | 18              | 10 | 30 | 44 | 10 | 50 | 45    | 40     | M4            | B     | M6       |
| GP1504DS-BALR-0600B-C3/S  | 15           | 5    | 12.5         | 2.5×1          |                 | 6900                          | 12500                        | 15          | 340 | 355 | 400 | 5  | 50 | 35 | 12 | 18              | 10 | 30 | 44 | 10 | 50 | 45    | 40     | M4            | B     | M6       |
| GP1505DS-BALR-0400B-C3/S  | 15           | 5    | 12.5         | 2.5×1          |                 | 8600                          | 23400                        | 15          | 525 | 545 | 605 | 5  | 60 | 40 | 15 | 20              | 12 | 40 | 49 | 10 | 64 | 49    | 51     | M5            | A     | M6       |
| GP2004ES-AAALR-0600B-C3/S | 20           | 4    | 18.1         | 2.5×2          |                 | 8350                          | 17500                        | 20          | 525 | 545 | 605 | 5  | 60 | 40 | 15 | 20              | 12 | 40 | 49 | 10 | 64 | 49    | 51     | M5            | A     | M6       |
| GP2005DS-AAALR-1005B-C3/S | 20           | 5    | 17.5         | 2.5×1          |                 | 8350                          | 17500                        | 20          | 525 | 545 | 605 | 5  | 60 | 40 | 15 | 20              | 12 | 40 | 49 | 10 | 64 | 49    | 51     | M5            | A     | M6       |
| GP2005DS-BALR-1005B-C3/S  | 20           | 5    | 17.5         | 2.5×1          |                 | 8350                          | 17500                        | 20          | 525 | 545 | 605 | 5  | 60 | 40 | 15 | 20              | 12 | 40 | 49 | 10 | 64 | 49    | 51     | M5            | A     | M6       |

Axial clearance S: Max. 0 mm F: Max. 0.005 mm Wiper material N: No wiper P: Plastic L: Lip seal S: LUBSEAL For the products marked with \*\*, it is possible to select L: Lip seal or S: LUBSEAL (Option). The values shown in the brackets ( ) in the load ratings are the load ratings when the axial clearance is S: 0 mm or less.



**GY** Shaft dia.     —         — Overall length of screw shaft **A**  
**GW** Shaft dia.     —         — Overall length of screw shaft **A**

Model No.

The image displays three orthographic views of a mechanical component, likely a bracket or a mounting plate, drawn in blue lines on a white background.

- Front View (Left):** Shows a rectangular plate with rounded corners. It features a central circular hole and four smaller circular holes arranged in a square pattern around the center. Dashed lines indicate the outer boundary and the positions of the holes.
- Top View (Middle):** Shows the same rectangular plate from above. It features a central circular hole and four smaller circular holes arranged in a square pattern around the center. Dashed lines indicate the outer boundary and the positions of the holes.
- Side View (Right):** Shows the side profile of the plate. It features a central rectangular hole and two smaller circular holes arranged in a vertical line. Dashed lines indicate the outer boundary and the positions of the holes.

GY0804, GY0808  
GY1002, GY/GW102F, GY/GW1004, GY1006, GY/GW1010  
GY1202, GY/GW1204, GY1208



The image contains three technical drawings. On the left, there are two identical circular views of a flange. Each view shows a central circular hole, a larger outer circular flange, and six smaller circular holes arranged in a circle. Dashed lines indicate hidden features, and dimension lines with arrows point to various features. To the right of these is a side view of a shaft with a key. The shaft is a horizontal cylinder, and the key is a rectangular piece inserted into a keyway on the shaft. The key is shown in a perspective view, with its ends aligned with the shaft's axis.

GY1520  
GY3232, GY3620  
GY4020, GY4040



(Unit: mm)

| Model No.                | Shaft dia. | Lead | Root dia. | Circuit & turn | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |                               |  |
|--------------------------|------------|------|-----------|----------------|-------------------------------|------------------------------|------------------|-------------------------------|--|
|                          |            |      |           |                |                               |                              | Overall length   | Length of shaft end machining |  |
| GW/GY0802GS-HGNR- □□□□ A | 8          | 2    | 6.6       | 3.5×1          | 1800                          | 3200                         | 200/400          | 55                            |  |
| GY0804DS-HANR- □□□□ A    |            | 4    | 6.3       | 2.5×1          | 1900                          | 3100                         |                  |                               |  |
| GY0808DS-HANR- □□□□ A    |            | 8    |           |                | 1200                          | 1800                         |                  |                               |  |
| GY1002DS-HANR- □□□□ A    | 10         | 2    | 8.4       | 2.5×1          | 1700                          | 3000                         | 400/600          | 60                            |  |
| GW/GY102FGS-HGNR- □□□□ A |            | 2.5  | 8.2       | 3.5×1          | 2600                          | 5200                         |                  |                               |  |
| GW/GY1004DS-HANR- □□□□ A |            | 4    | 7.8       | 2.5×1          | 2300                          | 4800                         |                  |                               |  |
| GW/GY1010AS-HANR- □□□□ A |            | 10   |           | 1.5×1          | 1850                          | 3200                         |                  |                               |  |
| GY1010BS-HANR- □□□□ A    |            |      |           | 1.5×2          | 3360                          | 6400                         |                  |                               |  |
| GW/GY1204DS-HANR- □□□□ A | 12         | 4    | 10        | 2.5×1          | 2600                          | 5800                         | 400/800          |                               |  |
| GY1208DS-HANR- □□□□ A    |            | 8    |           |                | 3800                          | 6700                         |                  |                               |  |

Model No.     : Overall length    Wiper material: No wiper

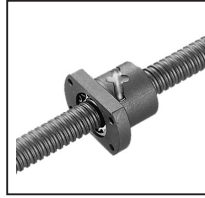
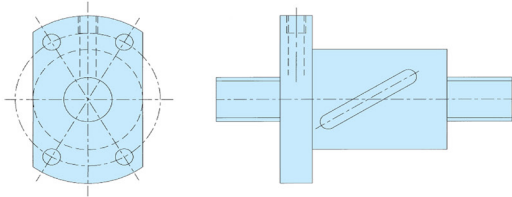
(Unit: mm)

| Model No.            | Shaft dia. | Lead | Root dia. | Circuit & turn | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |                               |  |
|----------------------|------------|------|-----------|----------------|-------------------------------|------------------------------|------------------|-------------------------------|--|
|                      |            |      |           |                |                               |                              | Overall length   | Length of shaft end machining |  |
| GY1505DS-CT*R-□□□□ A | 15         | 5    | 12.5      | 2.5×1          | 5100                          | 10500                        | 600/1200         | 60                            |  |
| GY1510DS-CT*R-□□□□ A |            | 10   |           |                | 5100                          | 10500                        |                  |                               |  |
| GY1520BS-CT*R-□□□□ A |            | 20   |           | 1.5×2          | 5800                          | 13300                        |                  |                               |  |
| GY2005DS-CT*R-□□□□ A | 20         | 5    | 17.5      | 2.5×1          | 6200                          | 14700                        | 600/1200/2000    | 80                            |  |
| GY2010DS-CT*R-□□□□ A |            | 10   | 16.3      |                | 10600                         | 22700                        |                  |                               |  |
| GY2020DS-CT*R-□□□□ A |            | 20   | 17.5      |                | 6200                          | 14700                        |                  |                               |  |
| GY2505DS-CT*R-□□□□ A | 25         | 5    | 21.8      | 2.5×1          | 11900                         | 37300                        | 1000/2000/2500   | 110                           |  |
| GY2510ES-CT*R-□□□□ A |            | 10   | 20.3      | 2.5×2          | 27500                         | 76300                        |                  |                               |  |
| GY2525DS-CT*R-□□□□ A |            | 25   | 21.5      | 2.5×1          | 9300                          | 22700                        |                  |                               |  |
| GY2806ES-CTBR-□□□□ A | 28         | 6    | 25.6      | 2.5×2          | 12100                         | 42300                        | 1000/2000/3000   | 150                           |  |
| GY3210ES-CTBR-□□□□ A | 32         | 10   | 27.2      | 2.5×2          | 32800                         | 86700                        | 1000/2000/3000   |                               |  |
| GY3232BS-CTBR-□□□□ A |            | 32   | 27.8      | 1.5×2          | 14600                         | 38900                        |                  |                               |  |
| GY3610ES-CTBR-□□□□ A | 36         | 10   | 31.1      | 2.5×2          | 35100                         | 98200                        | 1000/2000/3000   | 200                           |  |
| GY3620ES-CTBR-□□□□ A |            | 20   |           |                | 35100                         | 98200                        |                  |                               |  |
| GY4010RS-CTBR-□□□□ A | 40         | 10   | 35.1      | 3.5×2          | 49600                         | 153700                       | 2000/3000/4000   |                               |  |
| GY4020ES-CTBR-□□□□ A |            | 20   |           | 2.5×2          | 37100                         | 105600                       |                  |                               |  |
| GY4040BS-CTBR-□□□□ A |            | 40   |           | 1.5×2          | 23900                         | 66900                        |                  |                               |  |

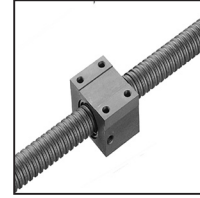
Model No.     : Overall length    Wiper material    N: No wiper    L: Lip seal    B: Brush    S: LUBSEAL    For the products marked with “\*”, it is possible to select L: Lip seal or S: LUBSEAL (Option).

# Standard Ball Screws: GY, GW Series

Inlaid tube type nut



Inlaid tube type nut

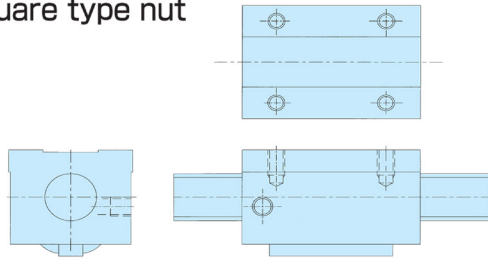


Square type nut

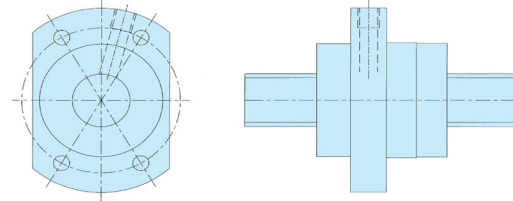


End cap method type nut

Square type nut



End cap method type nut



Inlaid tube type nut

(Unit: mm)

| Model No.               | Shaft dia. | Lead | Root dia. | Circuit & turn | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |                               |
|-------------------------|------------|------|-----------|----------------|-------------------------------|------------------------------|------------------|-------------------------------|
|                         |            |      |           |                |                               |                              | Overall length   | Length of shaft end machining |
| GY0805DS-HUNR-□□□□ A    | 8          | 5    | 6.4       | 2.5×1          | 1900                          | 3100                         | 200/400          | 55                            |
| GW/GY1004DS-HUNR-□□□□ A | 10         | 4    | 7.7       | 2.5×1          | 2300                          | 4800                         | 400/600          |                               |
| GY1005DS-HUNR-□□□□ A    |            | 5    |           |                | 2300                          | 4800                         |                  |                               |
| GY1208DS-HULR-□□□□ A    |            | 8    | 10        | 2.5×1          | 3800                          | 6700                         |                  |                               |
| GW/GY1210AS-HULR-□□□□ A | 12         |      |           | 1.5×1          | 2850                          | 4950                         | 400/800          |                               |
| GY1210BS-HULR-□□□□ A    |            | 10   | 9.6       | 1.5×2          | 5170                          | 9900                         |                  |                               |
| GW/GY1505DS-HU*R-□□□□ A |            | 6    |           |                | 5100                          | 10500                        |                  |                               |
| GW/GY1510DS-HU*R-□□□□ A | 15         | 10   | 12.5      | 2.5×1          | 5100                          | 10500                        | 600/1200         | 60                            |
| GY1510ES-HU*R-□□□□ A    |            |      |           | 2.5×2          | 9250                          | 21000                        |                  |                               |
| GW/GY1516BS-HULR-□□□□ A |            | 16   | 12.7      |                | 4300                          | 10200                        |                  |                               |
| GW/GY1520BS-HU*R-□□□□ A |            | 20   | 12.5      | 1.5×2          | 5800                          | 13300                        |                  |                               |
| GW/GY2005DS-HU*R-□□□□ A |            | 5    | 17.5      |                | 6200                          | 14700                        |                  |                               |
| GW/GY2010DS-HU*R-□□□□ A | 20         | 10   | 16.3      | 2.5×1          | 10600                         | 22700                        | 600/1200/2000    | 80                            |
| GW/GY2020DS-HU*R-□□□□ A |            | 20   | 17.5      |                | 6200                          | 14700                        |                  |                               |
| GY2020ES-HU*R-□□□□ A    |            |      |           | 2.5×2          | 11250                         | 29400                        |                  |                               |
| GW/GY2505DS-HU*R-□□□□ A |            | 5    | 21.8      | 2.5×1          | 11900                         | 37300                        |                  |                               |
| GY2505ES-HU*R-□□□□ A    |            |      |           | 2.5×2          | 21600                         | 74600                        |                  |                               |
| GW/GY2510ES-HU*R-□□□□ A | 25         | 10   | 20.3      | 2.5×2          | 27500                         | 76300                        | 1000/2000/2500   | 110                           |
| GW/GY2525DS-HU*R-□□□□ A |            | 25   | 21.5      | 2.5×1          | 9300                          | 22700                        |                  |                               |
| GY2525ES-HU*R-□□□□ A    |            |      |           | 2.5×2          | 16880                         | 45400                        |                  |                               |
| GY2806ES-HUBR-□□□□ A    | 28         | 6    | 25.6      | 2.5×2          | 12100                         | 42300                        | 1000/2000/3000   |                               |
| GY3210ES-HUBR-□□□□ A    |            | 10   | 27.2      | 2.5×1          | 32800                         | 86700                        | 1000/2000/3000   | 150                           |
| GY3232BS-HUBR-□□□□ A    | 32         | 32   | 27.8      | 1.5×2          | 14600                         | 38900                        |                  |                               |
| GY3610ES-HUBR-□□□□ A    |            | 10   |           |                | 35100                         | 98200                        |                  |                               |
| GY3620ES-HUBR-□□□□ A    | 36         | 20   | 31.1      | 2.5×2          | 35100                         | 98200                        | 1000/2000/3000   |                               |
| GY4010ES-HUBR-□□□□ A    |            | 10   |           |                | 37100                         | 105600                       |                  |                               |
| GY4020ES-HUBR-□□□□ A    | 40         | 20   | 35.1      | 2.5×2          | 37100                         | 105600                       | 2000/3000/4000   | 200                           |
| GY4040BS-HUBR-□□□□ A    |            | 40   |           | 1.5×2          | 23900                         | 66900                        |                  |                               |

Model No. □□□□ : Overall length Wiper material N: No wiper L: Lip seal B: Brush S: LUBSEAL For the products marked with "\*", it is possible to select L: Lip seal or S: LUBSEAL (Option).

End cap method type nut

(Unit: mm)

| Model No.               | Shaft dia. | Lead | Root dia. | Circuit & turn | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |                               |
|-------------------------|------------|------|-----------|----------------|-------------------------------|------------------------------|------------------|-------------------------------|
|                         |            |      |           |                |                               |                              | Overall length   | Length of shaft end machining |
| GW/GY1632QS-HEZR-□□□□ A | 16         | 32   | 13.5      | 0.67×3         | 4200                          | 7700                         | 600/1200         | 60                            |
| GW/GY2040QS-HEZR-□□□□ A | 20         | 40   | 17.5      |                | 4700                          | 10300                        | 600/1200/2000    | 80                            |

Model No. □□□□ : Overall length Wiper material Z: Lip of end cap serves as a wiper.

Square nut

(Unit: mm)

| Model No.               | Shaft dia. | Lead | Root dia. | Circuit & turn | Basic dynamic load rating (N) | Basic static load rating (N) | Shaft dimensions |                               |
|-------------------------|------------|------|-----------|----------------|-------------------------------|------------------------------|------------------|-------------------------------|
|                         |            |      |           |                |                               |                              | Overall length   | Length of shaft end machining |
| GW/GY1505DS-NKLR-□□□□ A | 15         | 5    | 12.5      | 2.5×1          | 5100                          | 10500                        | 600/1200         | 60                            |
| GW/GY1510DS-NKLR-□□□□ A |            | 10   |           |                | 5100                          | 10500                        |                  |                               |
| GW/GY2005DS-NKLR-□□□□ A |            | 5    | 17.5      |                | 6200                          | 14700                        |                  |                               |
| GW/GY2010DS-NKLR-□□□□ A | 20         | 10   | 16.3      |                | 10600                         | 22700                        | 600/1200/2000    | 80                            |
| GW/GY2505DS-NKLR-□□□□ A |            | 5    | 21.8      | 2.5×2          | 6600                          | 18700                        |                  |                               |
| GW/GY2510ES-NKLR-□□□□ A | 25         | 10   | 20.3      |                | 27500                         | 76300                        | 1000/2000/2500   | 110                           |
| GY3210ES-NKBR-□□□□ A    |            |      |           |                |                               |                              |                  |                               |
| GY3210ES-NKBR-□□□□ A    | 32         | 10   | 27.2      |                | 32800                         | 86700                        | 1000/2000/3000   | 150                           |

Model No. □□□□ : Overall length Wiper material N: No wiper L: Lip seal B: Brush

## Customized Ball Screws: GR, DR, FR Series

In customized ball screws, the nut configuration of the circulating system has been standardized into the tube method (GR), deflector method (DR), or the end deflector method (FR) to support various kinds of applications.



### Accuracy Grade and Axial Clearance

Single nut, axial clearance 0: C0S-C5S

Single nut, axial clearance 0.005 mm or less: C1F-C5F

Single nut, axial clearance 0.030 mm or less: C4M, C5M, C7M

Single nut, axial clearance 0.20 mm or less: C7L, C10L

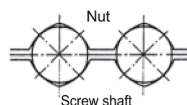
Integral nut, axial clearance 0: C0S-C5S

Double nut, axial clearance 0: C0S-C5S

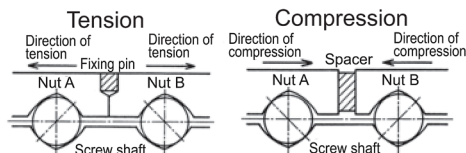
#### ●Single Nut Preloaded



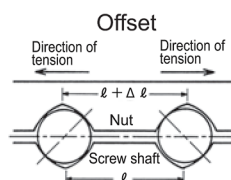
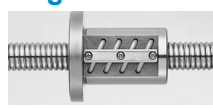
Oversized Ball



#### ●Double Nut Preloaded



#### ●Integral Nut Preloaded



#### ●Others

KURODA JENA TEC is manufacturing ball screws for use in special environments, such as manufacturers using stainless steel, special surface treatment, and special grease specifications. Please contact KURODA JENA TEC for more information.

### ●Accuracy Grade and Manufacturable Length of Screw Shaft

(Unit: mm)

| Accuracy grade | Screw shaft dia. |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                | 5                | 6   | 8   | 10  | 12  | 15   | 16   | 20   | 25   | 28   | 32   | 36   | 40   | 45   | 50   | 63   | 70   | 80   | 100  | 125  |
| C0             | 90               | 160 | 240 | 340 | 420 | 500  | 500  | 800  | 1100 | 1200 | 1600 | 1800 | 2000 | 2000 | 2000 | 2000 | -    | -    | -    | -    |
| C1             | 120              | 180 | 280 | 400 | 500 | 600  | 600  | 900  | 1300 | 1500 | 1800 | 2000 | 2200 | 2300 | 2800 | 3000 | 3000 | 3000 | 3000 | 3000 |
| C2             | 120              | 180 | 280 | 400 | 500 | 600  | 600  | 1100 | 1600 | 1800 | 2200 | 2500 | 2800 | 3000 | 3600 | 4000 | 4500 | 4500 | 4500 | 4500 |
| C3             | 140              | 210 | 340 | 480 | 600 | 700  | 700  | 1400 | 1800 | 2000 | 2500 | 2800 | 3200 | 3600 | 4000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| C4             | 140              | 210 | 340 | 480 | 600 | 800  | 800  | 1400 | 1800 | 2000 | 2500 | 2800 | 3200 | 3600 | 4000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| C5             | 140              | 210 | 340 | 500 | 700 | 1500 | 1500 | 2000 | 2000 | 2000 | 2800 | 3100 | 3600 | 4100 | 4500 | 5000 | 5000 | 5000 | 5000 | 5000 |
| C7             | -                | -   | 340 | 500 | 700 | 1500 | 1500 | 2000 | 2300 | 2600 | 3200 | 3600 | 4600 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| C10            | -                | -   | -   | -   | -   | 1500 | 1500 | 2000 | 2300 | 2600 | 3600 | 4000 | 4600 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |

When the lead is larger than the screw shaft diameter, the manufacturable accuracy grade is C2-C10.

### ●Screw Shaft Dia. & Lead Combination

|                       |    | Lead (mm) |     |     |     |   |   |     |   |   |     |     |     |    |    |    |    |    |    |    |
|-----------------------|----|-----------|-----|-----|-----|---|---|-----|---|---|-----|-----|-----|----|----|----|----|----|----|----|
|                       |    | 1         | 1.5 | 2   | 2.5 | 3 | 4 | 5   | 6 | 8 | 10  | 12  | 15  | 16 | 20 | 25 | 30 | 32 | 40 | 50 |
| Nominal diameter (mm) | 5  | ○         |     |     |     |   |   |     |   |   |     |     |     |    |    |    |    |    |    |    |
|                       | 6  | △         |     |     |     |   |   |     |   |   |     |     |     |    |    |    |    |    |    |    |
|                       | 8  | △         | ○   | ○ △ | ○   | ○ | ○ |     | ○ | ○ |     |     |     |    |    |    |    |    |    |    |
|                       | 10 | ○         | ○   | ○ △ | ○   | ○ | ○ | ○   |   | ○ | ◇   |     |     |    |    |    |    |    |    |    |
|                       | 12 |           | ○   | ○ △ | ○   | ○ | ○ | ○   |   | ○ | ◇   |     |     |    | ○  | ◇  |    |    |    |    |
|                       | 14 |           |     |     |     |   | △ |     |   |   |     |     |     |    |    |    |    |    |    |    |
|                       | 15 |           | ○   | ○   | ○   | ○ | ○ | ◇   | ○ | ○ | ○   | ◇   |     | ○  | ○  | ○  | ◇  | ○  |    |    |
|                       | 16 |           |     |     |     |   | ○ | ○ △ | ○ |   |     |     |     | ○  |    |    |    |    |    |    |
|                       | 20 |           |     |     | ○   |   | ○ | ○ △ | ○ | ○ | ○ △ | ◇   |     |    | ○  | ◇  | ○  |    | ○  |    |
|                       | 25 |           |     |     |     |   | ○ | ○ △ | ◇ | ○ | ○   | ○ △ | ◇   |    | ○  | ○  | ◇  |    |    |    |
|                       | 28 |           |     |     |     |   |   | ○   |   |   | ○   |     |     |    |    |    |    |    |    |    |
|                       | 32 |           |     |     |     |   | ○ | ○ △ | ◇ | ○ | ○   | ◇   | ○ △ | ◇  |    |    |    | ○  |    |    |
|                       | 36 |           |     |     |     |   |   | ○   |   | ○ | ○   | ◇   |     |    | ◇  | ○  |    |    |    |    |
|                       | 40 |           |     |     |     |   |   | ○   |   | ○ | ○   | ◇   | ○ △ | ◇  | ○  | ◇  |    | ○  | ○  |    |
|                       | 45 |           |     |     |     |   |   | ○   |   | ○ | ○   |     | ○   |    | ○  |    |    |    |    |    |
|                       | 50 |           |     |     |     |   |   | ○   |   | ○ | ○   | ○ △ | ○   |    | ○  | ○  |    |    | ○  | ○  |
|                       | 55 |           |     |     |     |   |   |     |   | ○ | ○   | ○   |     |    | ○  | ○  |    |    |    |    |
|                       | 63 |           |     |     |     |   |   |     | ○ |   | ○   | ○   |     |    | ○  | ○  |    |    |    |    |
|                       | 70 |           |     |     |     |   |   |     |   | ○ |     | ○   |     |    | ○  | ○  |    |    |    |    |
|                       | 80 |           |     |     |     |   |   |     |   |   | ○   | ○   |     |    | ○  | ○  |    |    |    |    |
| 100                   |    |           |     |     |     |   |   |     |   |   | ○   |     |     | ○  | ○  |    |    |    |    |    |
| 125                   |    |           |     |     |     |   |   |     |   |   |     |     |     | ○  | ○  |    |    |    |    |    |

○: GR series (Tube method); △: DR series (Deflector method); ◇: R series (End deflector method)

## JT PRECISION Series

As well as offering a lineup of nut dimensions in standard configurations compatible with German DIN standards, support is also being provided for various other nut configurations.

### Accuracy Grade and Axial Clearance

Single nut, axial clearance 0: IT1S-IT5S

Single nut, axial clearance 0.005 mm or less: IT1F-IT5F

Single nut, axial clearance 0.030 mm or less: IT5M, IT7M

Single nut, axial clearance 0.20 mm or less: IT7L

Integral nut, axial clearance 0: IT1S-IT5S

Double nut, axial clearance 0: IT1S-IT5S



### ●Accuracy Grade and Manufacturable Length of Screw Shaft

| ACCURACY GRADE |      |      |      |      |
|----------------|------|------|------|------|
| Unit: (mm)     |      |      |      |      |
| Nominal Diaø   | IT1  | IT3  | IT5  | IT7  |
| 6              | 200  | 200  | 200  | 200  |
| 8              | 300  | 400  | 430  | 430  |
| 10             | 300  | 430  | 460  | 430  |
| 12             | 300  | 430  | 430  | 430  |
| 14             | 430  | 430  | 430  | 430  |
| 16             | 430  | 750  | 1200 | 1500 |
| 20             | 750  | 1000 | 1200 | 1200 |
| 25             | 1200 | 1500 | 2000 | 2000 |
| 32             | 1500 | 2000 | 3000 | 3000 |
| 40             | 1500 | 2000 | 4000 | 6000 |
| 50             | 1500 | 2700 | 7000 | 7000 |
| 63             | 1500 | 4000 | 7000 | 7000 |
| 80             | 1500 | 4000 | 7000 | 7000 |
| 100            | 1500 | 4000 | 7000 | 7000 |
| 125            | 1500 | 4000 | 4000 | 4000 |

### ●Product Range

| Metric Series |                                         |   |     |   |    |          |   |   |    |    |    |    |    |    |    |    |    |    | Inch Series (Ground only)                   |          |       |       |       |  |
|---------------|-----------------------------------------|---|-----|---|----|----------|---|---|----|----|----|----|----|----|----|----|----|----|---------------------------------------------|----------|-------|-------|-------|--|
| Diaø          | Pitch/Nominal Lead P <sub>ho</sub> (mm) |   |     |   |    |          |   |   |    |    |    |    |    |    |    |    |    |    | Pitch/Nominal Lead P <sub>ho</sub> (Inches) |          |       |       |       |  |
|               | Miniature                               |   |     |   |    | Standard |   |   |    |    |    |    |    |    |    |    |    |    |                                             | Standard |       |       |       |  |
| d°(mm)        | 1                                       | 2 | 2.5 | 3 | 4  | 5        | 6 | 8 | 10 | 12 | 15 | 16 | 20 | 24 | 25 | 30 | 40 | 50 | 0.125                                       | 0.200    | 0.250 | 0.500 | 1.000 |  |
| 6             | R                                       | R |     |   |    |          |   |   |    |    |    |    |    |    |    |    |    |    | S                                           |          |       |       |       |  |
| 8             | R                                       | R | R   |   | R  |          |   |   |    |    |    |    |    |    |    |    |    |    | S                                           |          |       |       |       |  |
| 10            |                                         | R | R   | R |    | S        |   |   |    |    |    |    |    |    |    |    |    |    | S                                           |          |       |       |       |  |
| 12            |                                         | R | R   | R | RL | R        |   |   |    |    |    |    |    |    |    |    |    |    | S                                           |          |       |       |       |  |
| 14            |                                         | R |     |   | R  |          |   |   |    |    |    |    |    |    |    |    |    |    | S                                           |          |       |       |       |  |
| 16            |                                         | R | R   | R | RL | RL       | R |   | R  |    |    |    |    |    |    |    |    |    | R                                           | S        | S     |       |       |  |
| 20            |                                         | R |     |   | RL | RL       |   | R | R  | R  | R  | R  | R  |    |    |    |    |    |                                             |          |       |       |       |  |
| 25            |                                         |   |     | R | RL | RL       | R | R | R  | R  | R  | R  | R  |    |    |    |    |    | R                                           | S        | S     |       |       |  |
| 28            |                                         |   |     |   |    | RL       |   |   |    |    |    |    |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 32            |                                         | R |     |   | R  | RL       | R | R | RL | R  | R  |    | RL |    |    |    |    |    | RL                                          | S        | S     |       |       |  |
| 37            |                                         |   |     |   |    |          |   | R | R  | R  |    |    |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 40            |                                         |   |     |   | R  | RL       | R | R | RL | R  | R  | RL | R  |    | R  |    | R  |    | R                                           | RL       | S     | S     |       |  |
| 45            |                                         |   |     |   |    |          | R | R |    | R  | R  | R  |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 47            |                                         |   |     |   |    |          |   | R | R  |    |    |    |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 50            |                                         |   |     |   |    | RL       | R | R | RL | R  | R  | R  | RL |    | R  | R  | R  | R  |                                             | R        | S     | S     | S     |  |
| 57            |                                         |   |     |   |    |          |   | R |    |    |    | R  |    |    | R  | R  | R  |    |                                             |          | RL    |       |       |  |
| 63            |                                         |   |     |   |    | RL       | R |   | RL | R  | R  | R  | RL |    | R  | R  | R  | R  |                                             |          | R     | S     | S     |  |
| 67            |                                         |   |     |   |    |          |   | R |    |    |    |    |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 77            |                                         |   |     |   |    |          |   | R |    |    |    |    |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 80            |                                         |   |     |   |    |          |   |   | RL | RL | R  | R  | RL | RL |    | R  | R  | R  |                                             | S        | R     | S     |       |  |
| 87            |                                         |   |     |   |    |          |   | R |    |    |    |    |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 90            |                                         |   |     |   |    |          |   |   |    |    |    | R  |    |    |    |    |    |    |                                             |          |       |       |       |  |
| 100           |                                         |   |     |   |    |          |   |   | R  | R  | R  | RL | RL |    | R  | R  | R  | R  |                                             |          | R     | S     | S     |  |
| 125           |                                         |   |     |   |    |          |   |   |    |    |    | RL | R  |    |    | R  |    |    |                                             |          | S     | S     |       |  |

R- Tooling available for these sizes in **RIGHT HAND** leads

RL- Tooling available in **both RIGHT and LEFT HAND** leads

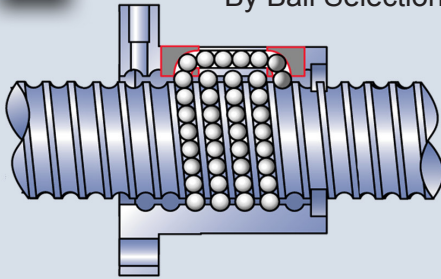
L- Tooling available for these sizes in **LEFT HAND** leads

S- Available upon request

## Ball Nut TRANSFER SYSTEM Options

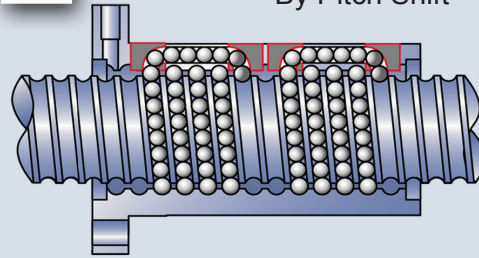
**A**

Internal Recirculating  
Flanged Nut Preloaded  
By Ball Selection



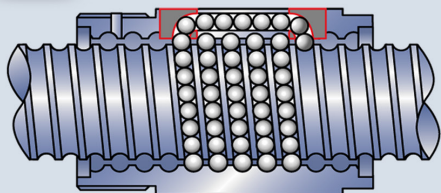
**B**

Internal Recirculating  
Flanged Nut Preloaded  
By Pitch Shift



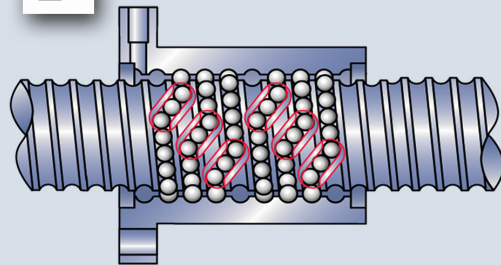
**C**

Internal Recirculating  
Nose Thread Nut



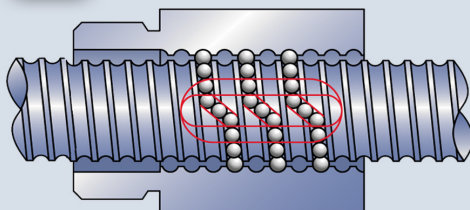
**D**

Internal Flanged Nut  
"Flop-Over" Recirculation



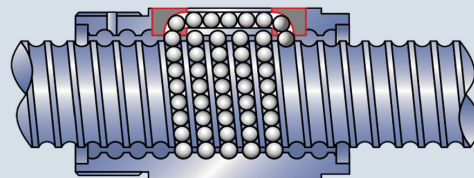
**E**

Internal Recirculating  
Miniature Nut



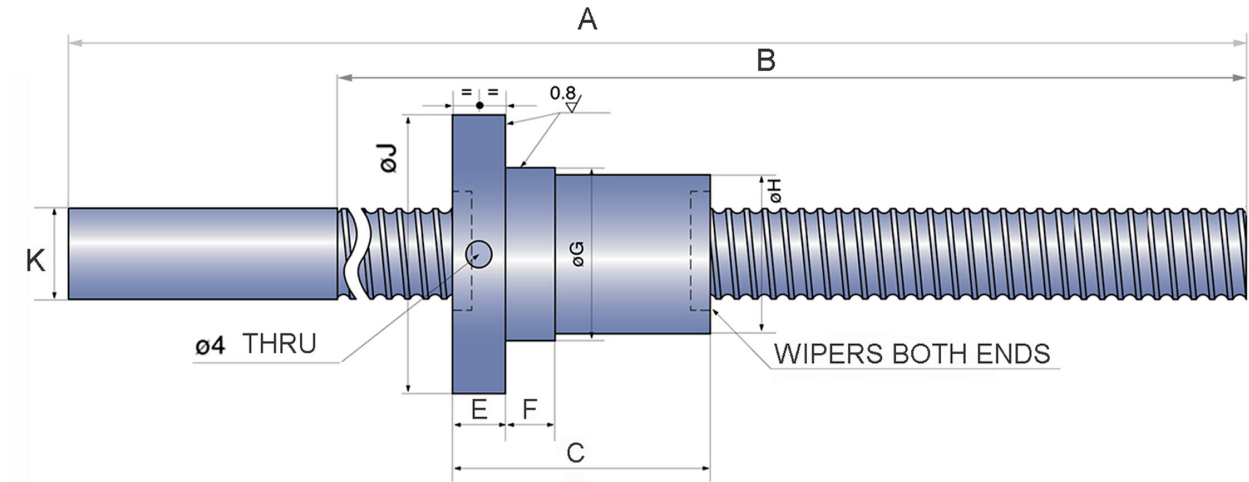
**F**

Internal Recirculating  
Nose Thread Miniature Nut





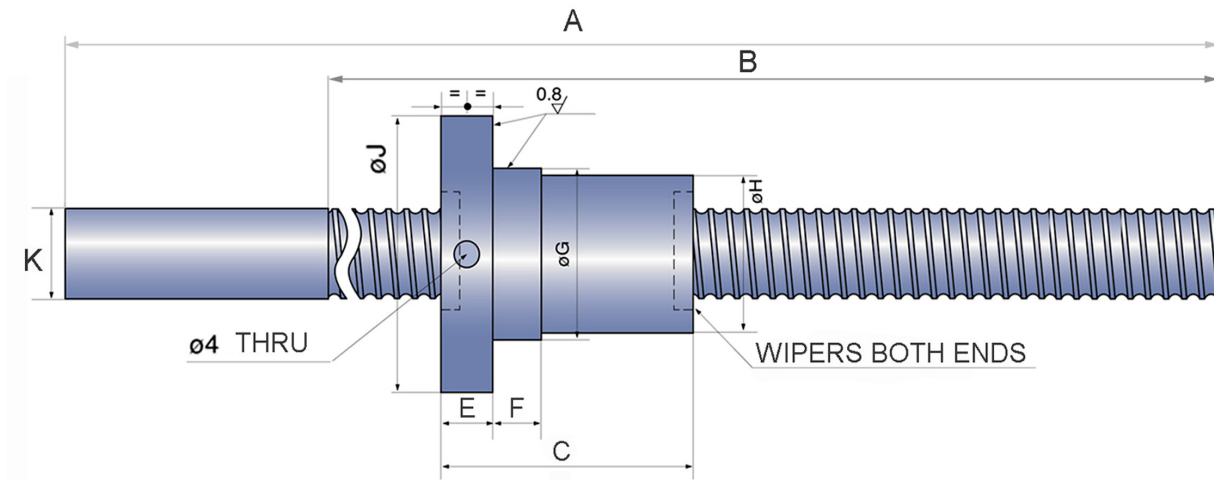
## JT PRECISION: Ground Inch JTi Series



### JTi - Series

| PITCH<br>CENTER<br>DISTANCE<br>(mm) | LEAD<br>(mm) | ITEM           | Max OAL<br>mm<br>A | THREAD<br>Max<br>B | OAL<br>NUT<br>Dia<br>C | NUT<br>STYLE | E  | F  | REGISTER<br>DIAMETER<br>G | H                         | FLANGE<br>DIA<br>J (Min) | SHAFT<br>DIA<br>K | BALL<br>DIAM | # OF<br>TURN<br>S | PRELOAD<br>daN | PRELOAD<br>TORQUE<br>daNcm | LOAD RATING<br>DYN<br>daN | STATIC<br>daN |
|-------------------------------------|--------------|----------------|--------------------|--------------------|------------------------|--------------|----|----|---------------------------|---------------------------|--------------------------|-------------------|--------------|-------------------|----------------|----------------------------|---------------------------|---------------|
| 0.625                               | 0.200        | JTi3-0625x0200 | 700                | 600                | 40                     | A            | 10 | 10 | 27,993 ... 27,980         | 28 <sup>0.2<br/>0.3</sup> | 54                       | 15                | 3.000        | 3                 | 42             | 0.3                        | 840                       | 1290          |
| 0.750                               | 0.200        | JTi3-0750x0200 | 850                | 750                | 42                     | A            | 10 | 10 | 35,991 ... 35,975         | 36 <sup>0.2<br/>0.3</sup> | 60                       | 19                | 3.500        | 3                 | 60             | 0.5                        | 1200                      | 1990          |
| 1.000                               | 0.200        | JTi3-1000x0200 | 1350               | 1200               | 42                     | A            | 10 | 10 | 39,991 ... 39,975         | 40 <sup>0.2<br/>0.3</sup> | 73                       | 24                | 3.500        | 3                 | 65             | 0.6                        | 1310                      | 2470          |
| 1.000                               | 0.250        | JTi3-1000x0250 | 1350               | 1200               | 46                     | A            | 10 | 10 | 39,991 ... 39,975         | 40 <sup>0.2<br/>0.3</sup> | 73                       | 24                | 3.500        | 3                 | 65             | 0.6                        | 1310                      | 2470          |
| 1.250                               | 0.200        | JTi3-1250x0200 | 2000               | 1850               | 73                     | B            | 12 | 10 | 49,991 ... 49,975         | 50 <sup>0.2<br/>0.3</sup> | 80                       | 31                | 3.500        | 3+3               | 177            | 2.3                        | 1770                      | 4030          |
| 1.250                               | 0.250        | JTi3-1250x0250 | 1350               | 1200               | 81                     | B            | 14 | 16 | 49,991 ... 49,975         | 50 <sup>0.2<br/>0.3</sup> | 80                       | 31                | 4.500        | 3+3               | 250            | 3.2                        | 2500                      | 5170          |
| 1.250                               | 0.500        | JTi3-1250x0500 | 2200               | 2000               | 118                    | B            | 12 | 16 | 49,991 ... 49,975         | 50 <sup>0.2<br/>0.4</sup> | 80                       | 31                | 4.500        | 3+3               | 248            | 3.2                        | 2480                      | 5130          |
| 1.500                               | 0.200        | JTi3-1500x0200 | 2000               | 1850               | 73                     | B            | 12 | 10 | 55,990 ... 55,971         | 56 <sup>0.2<br/>0.3</sup> | 87                       | 39                | 3.500        | 4+4               | 249            | 4                          | 2490                      | 6770          |
| 1.500                               | 0.250        | JTi3-1500x0250 | 2000               | 1850               | 95                     | B            | 14 | 16 | 62,990 ... 62,971         | 56 <sup>0.2<br/>0.3</sup> | 87                       | 39                | 4.500        | 3+3               | 350            | 5.5                        | 3500                      | 8550          |
| 2.000                               | 0.200        | JTi3-2000x0200 | 2650               | 2450               | 88                     | B            | 16 | 16 | 74,990 ... 74,971         | 75 <sup>0.2<br/>0.3</sup> | 106                      | 49                | 3.500        | 4+4               | 273            | 5.5                        | 2730                      | 8570          |
| 2.000                               | 0.250        | JTi3-2000x0250 | 2650               | 2450               | 97                     | B            | 16 | 16 | 74,990 ... 74,971         | 75 <sup>0.2<br/>0.3</sup> | 110                      | 49                | 4.500        | 3+3               | 386            | 7.7                        | 3860                      | 10870         |
| 2.250                               | 0.500        | JTi3-2250x0500 | 3200               | 3000               | 173                    | B            | 18 | 16 | 91,988 ... 91,966         | 92 <sup>0.2<br/>0.3</sup> | 132                      | 55                | 9.000        | 4+4               | 1032           | 23.5                       | 10320                     | 23620         |

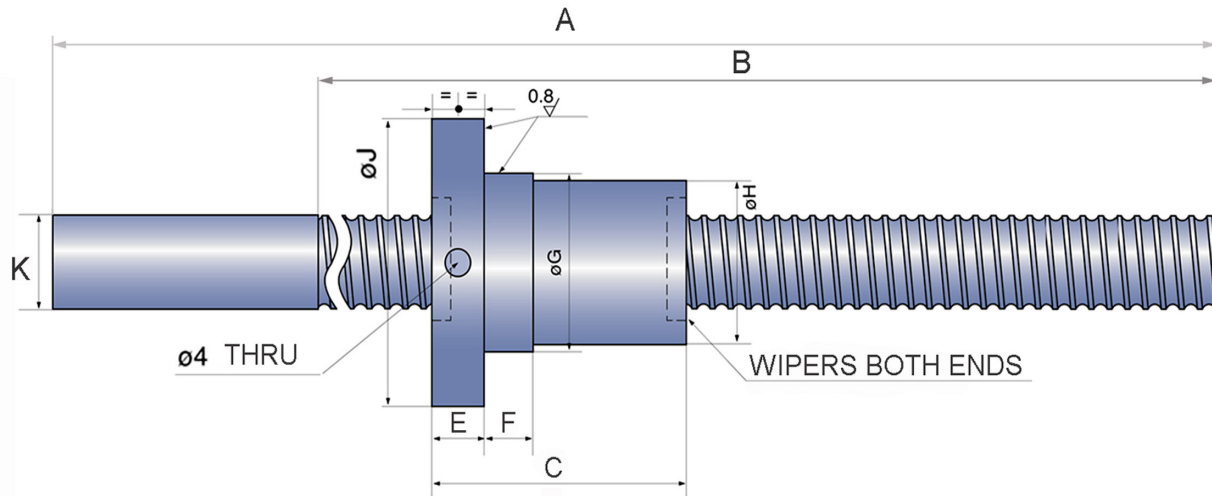
## JT PRECISION: Ground & Whirled Metric Series: JTs/JTb/JTe



### JT - Series: Sizes 16x5mm to 40x8mm

| PITCH<br>CENTER<br>DISTANCE<br>(mm) | LEAD<br>(mm) | ITEM        | Max<br>OAL<br>mm<br>A | THREAD<br>Max<br>B | OAL<br>NUT<br>Dia<br>C | NUT<br>STYLE | E  | F  | REGISTER<br>DIAMETER<br>G | H          | FLANGE<br>DIA<br>J (Min) | SHAFT<br>DIA<br>K | BALL DIAM | # OF<br>TURNS | PRELOAD<br>daN | PRELOAD<br>TORQUE<br>daNcm | LOAD RATING<br>DYN<br>daN | STATIC<br>daN |
|-------------------------------------|--------------|-------------|-----------------------|--------------------|------------------------|--------------|----|----|---------------------------|------------|--------------------------|-------------------|-----------|---------------|----------------|----------------------------|---------------------------|---------------|
| 16                                  | 5            | JTs3-1605   | 1000                  | 800                | 40                     | A            | 10 | 10 | 27,993 ... 27,980         | 28 0.2 0.3 | 56                       | 15                | 3.000     | 3             | 42             | 0,3                        | 840                       | 1290          |
| 16                                  | 10           | JTs3-1610   | 1000                  | 800                | 54                     | A            | 10 | 10 | 27,993 ... 27,980         | 28 0.2 0.3 | 56                       | 15                | 3.000     | 3             | 42             | 0,3                        | 840                       | 1290          |
| 20                                  | 5            | JTs3-2005   | 1000                  | 800                | 45                     | A            | 10 | 10 | 35,991 ... 35,975         | 36 0.2 0.3 | 58                       | 19                | 3.500     | 4             | 76             | 0,6                        | 1520                      | 2650          |
|                                     |              | JTs5-2005   | 3000                  | 2700               | 45                     | A            | 10 | 10 | 35,991 ... 35,976         | 36 0.2 0.4 | 58                       | 19                | 3.500     | 4             | 76             | 0,7                        | 1520                      | 2650          |
| 20                                  | 10           | JTs3-2010   | 1200                  | 1000               | 46                     | A            | 10 | 10 | 35,991 ... 35,975         | 36 0.2 0.4 | 58                       | 19                | 3.500     | 1x3           | 58             | 0.5                        | 1170                      | 1970          |
| 25                                  | 5            | JTs3-2505   | 1200                  | 1000               | 46                     | A            | 10 | 10 | 39,991 ... 39,975         | 40 0.2 0.4 | 65                       | 24                | 3.500     | 4             | 84             | 0,8                        | 1680                      | 3290          |
|                                     |              | JTs5-2505   | 3000                  | 2700               | 46                     | A            | 10 | 10 | 39,991 ... 39,976         | 40 0.2 0.4 | 65                       | 24                | 3.500     | 4             | 84             | 0,9                        | 1680                      | 3290          |
|                                     |              | JTb-2505    | 3000                  | 2700               | 49                     | A            | 10 | 10 | 37,991 ... 37,977         | 38 0.2 0.4 | 65                       | 24                | 3.500     | 4             | 84             | 0,10                       | 1680                      | 3290          |
| 25                                  | 10           | JTs3-2510   | 1200                  | 1000               | 72                     | A            | 10 | 10 | 39,991 ... 39,975         | 40 0.2 0.4 | 65                       | 24                | 3.500     | 2+2           | 84             | 0.8                        | 1100                      | 2070          |
|                                     |              | JTs5-2510   | 3000                  | 2700               | 72                     | A            | 10 | 10 | 39,991 ... 39,975         | 40 0.2 0.4 | 65                       | 24                | 3.500     | 2+2           | 84             | 0.8                        | 1100                      | 2070          |
| 28                                  | 6            | JTs3-2806   | 1200                  | 1000               | 92                     | B            | 12 | 10 | 43,991 ... 43,975         | 44 0.2 0.4 | 68                       | 27                | 3.500     | 4+4           | 220            | 2,5                        | 2200                      | 4800          |
| 32                                  | 5            | JTs3-3205   | 1700                  | 1500               | 83                     | B            | 12 | 10 | 49,991 ... 49,975         | 50 0.2 0.4 | 80                       | 31                | 3.500     | 4+4           | 227            | 2,9                        | 2260                      | 5370          |
|                                     |              | JTs5-3205   | 3000                  | 2700               | 83                     | B            | 12 | 10 | 49,991 ... 49,975         | 50 0.2 0.4 | 80                       | 31                | 3.500     | 4+4           | 227            | 2,9                        | 2260                      | 5370          |
| 32                                  | 5            | JTb-3205    | 3000                  | 2700               | 49                     | A            | 12 | 10 | 47,991 ... 47,975         | 48 0.2 0.4 | 80                       | 31                | 3.500     | 1x4           | 93             | 1.2                        | 1870                      | 4250          |
| 32                                  | 6            | JTs3-3206   | 1700                  | 1500               | 92                     | B            | 12 | 10 | 49,991 ... 49,975         | 50 0.2 0.4 | 90                       | 31                | 4.500     | 4+4           | 320            | 4,1                        | 3200                      | 6900          |
| 32                                  | 8            | JTs3-3208   | 1700                  | 1500               | 106                    | B            | 12 | 12 | 49,991 ... 49,975         | 50 0.2 0.4 | 90                       | 31                | 4.500     | 4+4           | 320            | 4,1                        | 3200                      | 6900          |
| 32                                  | 10           | JTs3-3210   | 1700                  | 1500               | 117                    | B            | 12 | 16 | 49,991 ... 49,975         | 50 0.2 0.4 | 90                       | 31                | 3.500     | 4+4           | 225            | 2,9                        | 2260                      | 5370          |
|                                     |              | JTs3-3210-H | 3000                  | 2700               | 137                    | B            | 12 | 16 | 54,990 ... 54,971         | 55 0.2 0.4 | 93                       | 30                | 6.000     | 4+4           | 454            | 5,8                        | 4540                      | 8710          |
| 32                                  | 10           | JTs5-3210   | 3000                  | 2700               | 97                     | B            | 12 | 16 | 49,991 ... 49,975         | 50 0.2 0.4 | 90                       | 31                | 3.500     | 3+3           | 176            | 2.2                        | 1760                      | 4010          |
| 32                                  | 12           | JTs3-3212   | 1700                  | 1500               | 117                    | B            | 12 | 16 | 49,991 ... 49,975         | 50 0.2 0.4 | 90                       | 31                | 3.500     | 4+4           | 225            | 2.9                        | 2260                      | 5370          |
|                                     |              | JTe3-3212   | 1700                  | 1500               | 92                     | D            | 12 | 16 | 49,991 ... 49,975         | 50 0.2 0.4 | 90                       | 31                | 3.500     | 4             | 128            | 1.2                        | 2550                      | 5200          |
| 40                                  | 5            | JTs3-4005   | 2200                  | 2000               | 86                     | B            | 15 | 10 | 54,990 ... 54,971         | 55 0.2 0.4 | 93                       | 39                | 3.500     | 4+4           | 249            | 4                          | 2460                      | 6770          |
|                                     |              | JTs5-4005   | 2200                  | 2000               | 86                     | B            | 15 | 10 | 54,990 ... 54,971         | 55 0.2 0.4 | 93                       | 39                | 3.500     | 4+4           | 249            | 4                          | 2460                      | 6770          |
| 40                                  | 6            | JTe3-4006   | 2200                  | 2000               | 92                     | D            | 14 | 10 | 55,990 ... 55,971         | 56 0.2 0.4 | 93                       | 39                | 4.500     | 4+4           | 350            | 5.6                        | 3500                      | 8550          |
| 40                                  | 8            | JTe3-4008   | 2200                  | 2000               | 98                     | D            | 14 | 12 | 55,990 ... 55,971         | 56 0.2 0.4 | 93                       | 39                | 4.500     | 3+3           | 275            | 4.4                        | 2750                      | 6400          |

## JT PRECISION: Ground & Whirled Metric Series: JTs/JTb/JTe

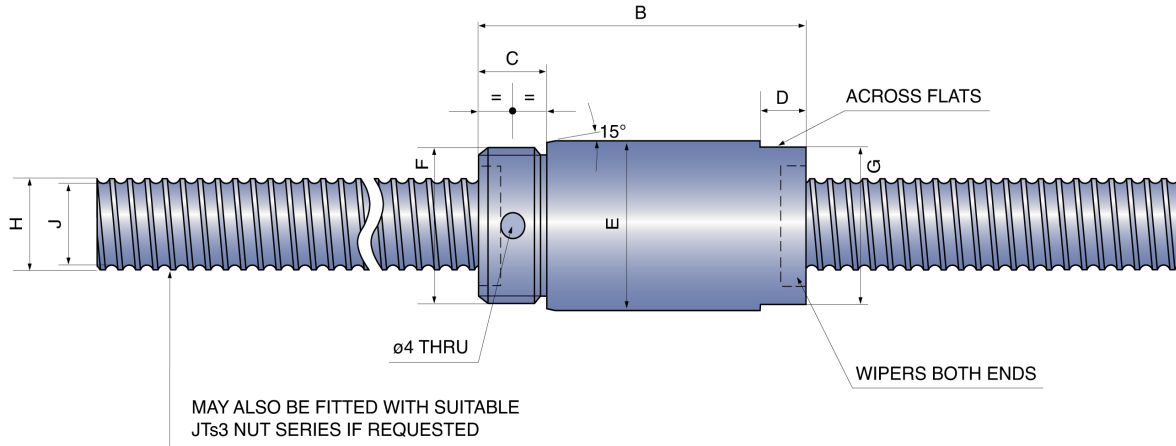


### JT - Series: Sizes 40x10mm thru 80x20mm

| PITCH<br>CENTER<br>DISTANCE<br>(mm) | LEAD<br>(mm) | ITEM      | Max<br>OAL<br>mm<br>A | THREAD<br>Max<br>B | OAL<br>NUT<br>Dia<br>C | NUT<br>STYLE | E  | F  | REGISTER<br>DIAMETER<br>G | H           | FLANGE<br>DIA<br>J (Min) | SHAFT<br>DIA<br>K | BALL DIAM | # OF<br>TURNS | PRELOAD<br>daN | PRELOAD<br>TORQUE<br>daNm | LOAD RATING<br>DYN<br>daN | STATIC<br>daN |
|-------------------------------------|--------------|-----------|-----------------------|--------------------|------------------------|--------------|----|----|---------------------------|-------------|--------------------------|-------------------|-----------|---------------|----------------|---------------------------|---------------------------|---------------|
| 40                                  | 10           | JTs3-4010 | 2200                  | 2000               | 138                    | B            | 15 | 16 | 62,990 ... 62,971         | 63 0.2 0.4  | 100                      | 39                | 6.000     | 4+4           | 527            | 8.4                       | 5090                      | 11080         |
|                                     |              | JTs5-4010 | 3000                  | 2700               | 138                    | B            | 15 | 16 | 62,990 ... 62,971         | 63 0.2 0.4  | 100                      | 39                | 6.000     | 4+4           | 527            | 8.4                       | 5090                      | 11080         |
| 40                                  | 10           | JTb-4010  | 3000                  | 2700               | 79                     | A            | 15 | 16 | 62,990 ... 62,971         | 63 0.2 0.4  | 95                       | 39                | 6.000     | 1x4           | 217            | 3.5                       | 4340                      | 9180          |
| 40                                  | 12           | JTs3-4012 | 2200                  | 2000               | 158                    | B            | 14 | 16 | 62,990 ... 62,971         | 63 0.2 0.4  | 100                      | 38                | 6.000     | 4+4           | 530            | 8.5                       | 5300                      | 11600         |
| 40                                  | 16           | JTs3-4016 | 2200                  | 2000               | 174                    | B            | 14 | 20 | 62,990 ... 62,971         | 63 0.2 0.4  | 100                      | 38                | 6.000     | 4+4           | 530            | 8.5                       | 5300                      | 11600         |
| 40                                  | 20           | JTs3-4020 | 2200                  | 2000               | 124                    | B            | 14 | 20 | 62,990 ... 62,971         | 63 0.2 0.4  | 100                      | 38                | 6.000     | 2+2           | 287            | 4.6                       | 2870                      | 5760          |
| 40                                  | 40           | JTs5-4040 | 3000                  | 2700               | 126                    | B            | 20 | 20 | 62,990 ... 62,971         | 63 0.2 0.4  | 96                       | 38                | 6.000     | 1x2           | 112            | 1.8                       | 2250                      | 4390          |
| 50                                  | 5            | JTs3-5005 | 2700                  | 2500               | 88                     | B            | 15 | 16 | 74,990 ... 74,971         | 75 0.2 0.4  | 115                      | 49                | 3.500     | 4+4           | 273            | 5.5                       | 2730                      | 8570          |
|                                     |              | JTs5-5005 | 3000                  | 2700               |                        | B            | 15 | 16 | 74,990 ... 74,971         | 75 0.2 0.4  | 115                      | 49                | 3.500     | 4+4           | 273            | 5.5                       | 2730                      | 8570          |
| 50                                  | 8            | JTs3-5008 | 2700                  | 2500               | 132                    | B            | 16 | 12 | 71,990 ... 71,971         | 72 0.2 0.4  | 115                      | 48                | 6.000     | 4+4           | 580            | 11.6                      | 5800                      | 14600         |
| 50                                  | 10           | JTs3-5010 | 2700                  | 2500               | 143                    | B            | 18 | 16 | 74,990 ... 74,971         | 75 0.2 0.4  | 115                      | 48                | 7.144     | 4+4           | 738            | 14.3                      | 7150                      | 16570         |
|                                     |              | JTs5-5010 | 3000                  | 2700               | 143                    | B            | 18 | 16 | 74,990 ... 74,971         | 75 0.2 0.4  | 115                      | 48                | 7.144     | 4+4           | 738            | 14.3                      | 7150                      | 16570         |
|                                     |              | JTe3-5010 | 2700                  | 2500               | 142                    | D            | 16 | 16 | 71,990 ... 71,971         | 72 0.2 0.4  | 115                      | 48                | 7.144     | 4+4           | 739            | 14.3                      | 7400                      | 17400         |
| 50                                  | 12           | JTs3-5012 | 2700                  | 2500               | 164                    | B            | 18 | 16 | 74,990 ... 74,971         | 0.2 0.4     | 115                      | 48                | 7.144     | 4+4           | 738            | 14.3                      | 7150                      | 16570         |
| 50                                  | 12           | JTs5-5012 | 3000                  | 2700               | 164                    | B            | 18 | 16 | 74,990 ... 74,971         | 75 0.2 0.4  | 115                      | 48                | 7.144     | 4+4           | 715            | 14.3                      | 7150                      | 1657          |
| 50                                  | 20           | JTs3-5020 | 2700                  | 2500               | 170                    | B            | 16 | 26 | 84,988...84,966           | 85 0.2 0.4  | 125                      | 48                | 9.000     | 3+3           | 760            | 15.2                      | 7600                      | 1560          |
| 50                                  | 20           | JTs5-5020 | 3200                  | 3100               | 170                    | B            | 16 | 26 | 84,988...84,966           | 85 0.2 0.4  | 125                      | 48                | 9.000     | 3+3           | 760            | 15.2                      | 7600                      | 1560          |
| 63                                  | 5            | JTe3-6305 | 3500                  | 3300               | 145                    | D            | 20 | 16 | 89,988 ... 89,966         | 90 0.2 0.4  | 130                      | 62                | 3.500     | 4+4           | 300            | 8                         | 3000                      | 11000         |
| 63                                  | 10           | JTs3-6310 | 3500                  | 3300               | 164                    | B            | 18 | 16 | 89,988 ... 89,966         | 90 0.2 0.4  | 139                      | 61                | 7.144     | 5+5           | 973            | 24.6                      | 9730                      | 26950         |
| 63                                  | 10           | JTb3-6310 | 3500                  | 3300               | 102                    | A            | 18 | 16 | 84,988 ... 84,966         | 85 0.2 0.4  | 125                      | 61                | 7.144     | 1X5           | 400            | 10.0                      | 8000                      | 21300         |
|                                     |              | JTe3-6310 | 3500                  | 3300               | 145                    | D            | 18 | 16 | 89,988 ... 89,966         | 90 0.2 0.4  | 139                      | 61                | 7.144     | 5+5           | 973            | 24.6                      | 9730                      | 26950         |
| 63                                  | 12           | JTs3-6312 | 3500                  | 3300               | 170                    | B            | 20 | 16 | 94,990 ... 94,966         | 95 0.2 0.4  | 144                      | 61                | 9.000     | 4+4           | 1120           | 28.2                      | 11200                     | 27500         |
|                                     |              | JTs5-6312 | 3500                  | 3300               | 170                    | B            | 20 | 16 | 94,990 ... 94,966         | 95 0.2 0.4  | 144                      | 61                | 9.000     | 4+4           | 1120           | 28.2                      | 11200                     | 27500         |
|                                     |              | JTe3-6312 | 3500                  | 3300               | 145                    | D            | 20 | 16 | 89,988 ... 89,966         | 90 0.2 0.4  | 144                      | 61                | 9.000     | 3+3           | 1120           | 28.2                      | 8700                      | 20600         |
| 80                                  | 10           | JTs3-8010 | 3500                  | 3300               | 148                    | B            | 20 | 16 | 104,988...104,966         | 105 0.2 0.4 | 147                      | 76                | 7.144     | 4+4           | 905            | 29.0                      | 9050                      | 2820          |
| 80                                  | 12           | JTs5-8012 | 4000                  | 3700               | 170                    | B            | 20 | 20 | 104,988...104,966         | 105 0.2 0.4 | 147                      | 76                | 7.144     | 4+4           | 903            | 29.0                      | 9030                      | 2821          |
| 80                                  | 20           | JTs3-8020 | 3500                  | 3300               | 172                    | B            | 25 | 25 | 124,986...124,961         | 125 0.2 0.4 | 167                      | 76                | 12.700    | 3+3           | 1500           | 48.0                      | 15000                     | 35200         |
| 80                                  | 20           | JTs5-8020 | 4000                  | 3700               | 172                    | B            | 25 | 25 | 124,986...124,961         | 125 0.2 0.4 | 167                      | 76                | 12.700    | 3+3           | 1500           | 48.0                      | 15000                     | 35200         |

Additional custom diameters and leads are available up to Size 125MM. Please refer to Page 5 of this Guidebook, or visit our website at: [www.jena-tec.com](http://www.jena-tec.com) for more information.

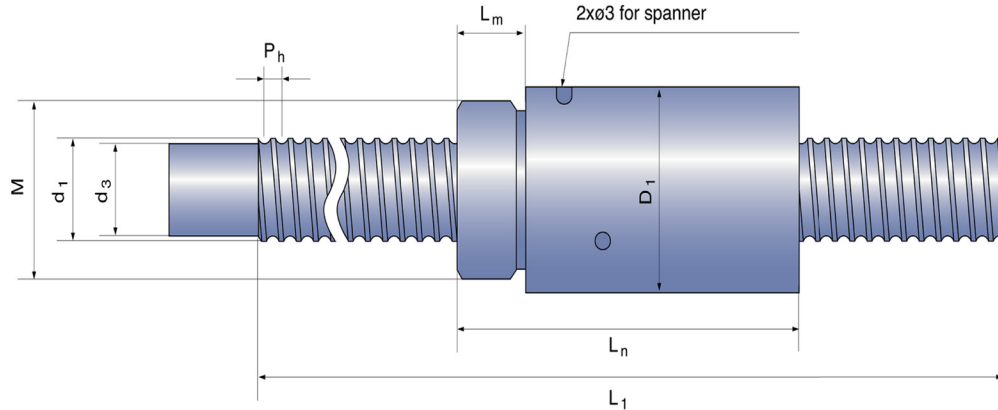
## JT PRECISION: Rolled Metric Series: JTs7



### JTs7 - Series

| PITCH<br>CENTER<br>DISTANCE<br>(mm) | LEAD<br>(mm) | ITEM         | OAL<br>(mm)<br>B | NUT<br>STYLE | C<br>(mm) | D<br>(mm) | FLANGE<br>DIA (mm)<br>E | REGISTER<br>DIAMETER<br>F | G<br>(mm) | SHAFT<br>DIA<br>H | J (mm) | # OF<br>TURNS | AXIAL<br>PLAY<br>MAX | DYN RATING<br>1x10 <sup>6</sup><br>DYN<br>daN | 2.5x10 <sup>6</sup><br>DYN<br>daN |
|-------------------------------------|--------------|--------------|------------------|--------------|-----------|-----------|-------------------------|---------------------------|-----------|-------------------|--------|---------------|----------------------|-----------------------------------------------|-----------------------------------|
| 16                                  | 5            | JTs7-1605    | 44               | C            | 12        | 8         | 30                      | M26x1,5                   | 28        | 15                | 12.90  | 3             | 0.05                 | 760                                           | 560                               |
| 16                                  | 5            | JTs7-1605-LH | 44               | C            | 12        | 8         | 30                      | M26x1,5                   | 28        | 15                | 12.90  | 3             | 0.05                 | 760                                           | 560                               |
| 16                                  | 10           | JTs7-1610    | 47               | C            | 12        | 8         | 30                      | M26x1,5                   | 28        | 15                | 12.90  | 2             | 0.05                 | 540                                           | 400                               |
| 20                                  | 5            | JTs7-2005    | 52               | C            | 14        | 8         | 40                      | M35x1,5                   | 36        | 19                | 16.40  | 4             | 0.06                 | 1370                                          | 1000                              |
| 25                                  | 5            | JTs7-2505    | 57               | C            | 19        | 8         | 45                      | M40x1,5                   | 40        | 24                | 21.40  | 4             | 0.06                 | 1510                                          | 1100                              |
| 25                                  | 5            | JTs7-2505-LH | 57               | C            | 19        | 8         | 45                      | M40x1,5                   | 40        | 24                | 21.40  | 4             | 0.06                 | 1510                                          | 1100                              |
| 25                                  | 10           | JTs7-2510    | 79               | C            | 19        | 8         | 45                      | M40x1,5                   | 40        | 24                | 21.40  | 4             | 0.06                 | 1500                                          | 1100                              |
| 32                                  | 5            | JTs7-3205    | 57               | C            | 19        | 8         | 55                      | M48x1,5                   | 50        | 31                | 28.40  | 4             | 0.06                 | 1680                                          | 1240                              |
| 32                                  | 5            | JTs7-3205-LH | 57               | C            | 19        | 8         | 55                      | M48x1,5                   | 50        | 31                | 28.40  | 4             | 0.06                 | 1680                                          | 1240                              |
| 32                                  | 10           | JTs7-3210    | 85               | C            | 19        | 8         | 60                      | M55x1,5                   | 56        | 30                | 25.10  | 4             | 0.08                 | 3370                                          | 2480                              |
| 40                                  | 5            | JTs7-4005    | 56               | C            | 19        | 10        | 60                      | M55x1,5                   | 56        | 39                | 36.40  | 4             | 0.06                 | 2230                                          | 1640                              |
| 40                                  | 10           | JTs7-4010    | 90               | C            | 24        | 10        | 65                      | M60x1,5                   | 60        | 38                | 33.80  | 4             | 0.08                 | 3900                                          | 2870                              |
| 40                                  | 20           | JTs7-4020    | 86               | C            | 24        | 10        | 65                      | M60x1,5                   | 60        | 38                | 33.80  | 4             | 0.08                 | 3860                                          | 2850                              |
| 50                                  | 10           | JTs7-5010    | 110              | C            | 30        | 12        | 77                      | M72x1,5                   | 72        | 48                | 42.60  | 45            | 0.1                  | 6625                                          | 4880                              |
| 50                                  | 12           | JTs7-5020    | 132              | C            | 30        | 12        | 85                      | M72x1,5                   | 80        | 48                | 40.60  | 6             | 0.13                 | 10300                                         | 7590                              |
| 63                                  | 10           | JTs7-6310    | 110              | C            | 30        | 12        | 90                      | M85x2                     | 84        | 61                | 55.60  | 5             | 0.1                  | 7230                                          | 5330                              |
| 63                                  | 12           | JTs7-6312    | 133              | C            | 30        | 12        | 95                      | M85x2                     | 90        | 61                | 53.70  | 6             | 0.13                 | 11700                                         | 8620                              |

## JT PRECISION: Miniature Metric Series: JTm



### JTm - Series

| NOM<br>DIA d <sub>o</sub> | LEAD<br>P <sub>h</sub> | ITEM       | GRADE | NUT<br>STYLE | L <sub>1</sub><br>(mm) | L <sub>n</sub><br>(mm) | L <sub>m</sub><br>(mm) | D <sub>1</sub><br>(mm) | d <sub>1</sub><br>(mm) | d <sub>3</sub><br>(mm) | M       | WIPERS | AXIAL<br>PLAY<br>MAX | LOAD RATING                  |                         |
|---------------------------|------------------------|------------|-------|--------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------|--------|----------------------|------------------------------|-------------------------|
|                           |                        |            |       |              |                        |                        |                        |                        |                        |                        |         |        |                      | 1x10 <sup>6</sup> DYN<br>daN | STATIC<br>RATING<br>daN |
| 6                         | 1.000                  | JTm3-06010 | 3     | E, F         | 200                    | 21                     | 6                      | 14.5                   | 5.9                    | 5.3                    | M12X1   | NO     | x                    | 70                           | 100                     |
| 8                         | 1.000                  | JTm3-08010 | 3     | E, F         | 300                    | 26                     | 8                      | 16.5                   | 8                      | 7.4                    | M14X1   | NO     | x                    | 120                          | 200                     |
| 8                         | 2.000                  | JTm3-08020 | 3     | E, F         | 300                    | 27                     | 8                      | 16.5                   | 8                      | 6.9                    | M14X1   | NO     | x                    | 190                          | 240                     |
| 8                         | 2.000                  | JTm7-08020 | 7     | E, F         | 1800                   | 27                     | 8                      | 16.5                   | 8                      | 6.9                    | M14X1   | NO     | 0.01                 | 170                          | 220                     |
| 8                         | 2.500                  | JTm3-08025 | 3     | E, F         | 300                    | 31.5                   | 8                      | 16.5                   | 8                      | 6.9                    | M14X1   | NO     | x                    | 190                          | 240                     |
| 10                        | 2.000                  | JTm3-10020 | 3     | E, F         | 1800                   | 27                     | 8                      | 20.5                   | 9.8                    | 8.7                    | M17X1   | NO     | x                    | 190                          | 270                     |
| 10                        | 2.000                  | JTm7-10020 | 7     | E, F         | 375                    | 27                     | 8                      | 20.5                   | 9.8                    | 8.7                    | M17X1   | NO     | 0.01                 | 190                          | 270                     |
| 10                        | 2.500                  | JTm3-10025 | 3     | E, F         | 375                    | 31.5                   | 8                      | 20.5                   | 9.8                    | 8.2                    | M17X1   | NO     | x                    | 310                          | 400                     |
| 10                        | 2.500                  | JTm7-10025 | 7     | E, F         | 1800                   | 31.5                   | 8                      | 20.5                   | 9.8                    | 8.2                    | M17X1   | NO     | 0.01                 | 280                          | 360                     |
| 12                        | 2.000                  | JTm3-12020 | 3     | E, F         | 375                    | 29                     | 10                     | 22                     | 11.8                   | 10.7                   | M18X1   | NO     | x                    | 240                          | 380                     |
| 12                        | 2.500                  | JTm3-12025 | 3     | E, F         | 500                    | 36                     | 10                     | 26                     | 11.8                   | 10.2                   | M22X1   | YES    | x                    | 360                          | 530                     |
| 12                        | 4.000                  | JTm3-12040 | 3     | E, F         | 500                    | 36                     | 10                     | 26                     | 11.8                   | 10.2                   | M22X1   | YES    | x                    | 360                          | 530                     |
| 12                        | 5.000                  | JTm3-12050 | 3     | E, F         | 500                    | 40                     | 10                     | 26                     | 11.5                   | 9.8                    | M22X1   | YES    | x                    | 380                          | 560                     |
| 12                        | 5.000                  | JTm7-12050 | 7     | E, F         | 1800                   | 40                     | 10                     | 26                     | 11.5                   | 9.8                    | M22X1   | NO     | 0.01                 | 340                          | 500                     |
| 14                        | 2.000                  | JTm3-14020 | 3     | E, F         | 750                    | 32                     | 10                     | 24                     | 13.8                   | 12.6                   | M22X1   | YES    | x                    | 250                          | 450                     |
| 14                        | 4.000                  | JTm3-14040 | 3     | E, F         | 750                    | 36                     | 10                     | 26                     | 13.8                   | 12.1                   | M22X1   | YES    | x                    | 400                          | 650                     |
| 14                        | 4.000                  | JTm7-14040 | 7     | E, F         | 1800                   | 36                     | 10                     | 26                     | 13.8                   | 12.1                   | M22X1   | NO     | 0.01                 | 360                          | 590                     |
| 16                        | 2.000                  | JTm3-16020 | 3     | E, F         | 1000                   | 29                     | 10                     | 26                     | 15.6                   | 14.5                   | M22X1   | NO     | x                    | 270                          | 510                     |
| 16                        | 2.000                  | JTm7-16020 | 7     | E, F         | 1800                   | 29                     | 10                     | 26                     | 15.6                   | 14.5                   | M22X1   | NO     | 0.01                 | 240                          | 460                     |
| 16                        | 2.500                  | JTm3-16025 | 3     | E, F         | 1000                   | 36                     | 10                     | 26                     | 15.6                   | 14                     | M22X1   | YES    | x                    | 430                          | 750                     |
| 16                        | 2.500                  | JTm7-16025 | 7     | E, F         | 1800                   | 36                     | 10                     | 26                     | 15.6                   | 14                     | M22X1   | NO     | 0.01                 | 390                          | 680                     |
| 16                        | 4.000                  | JTm3-16040 | 3     | E, F         | 1000                   | 36                     | 10                     | 28                     | 15.4                   | 13.4                   | M25X1.5 | YES    | x                    | 680                          | 1140                    |



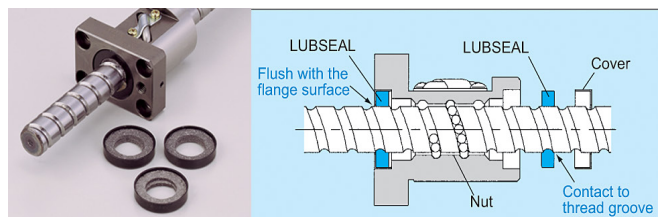
## Lubrication Unit for Ball Screw LUBSEAL

LUBSEAL is a lubrication unit which contacts the ball rolling portion of the screw shaft groove and supplies an appropriate amount of lubricant (grease).

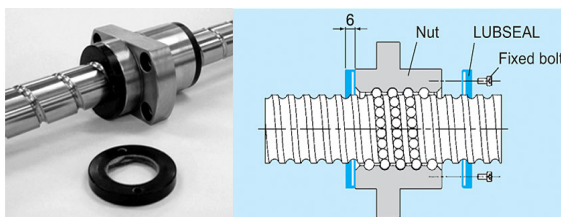
It can fit into both ends of ball screw nut and become compact in size.

Most suitable for semiconductor/liquid crystal manufacturing machines, detection devices, food machines, medical equipment, machine tools and automobile facilities.

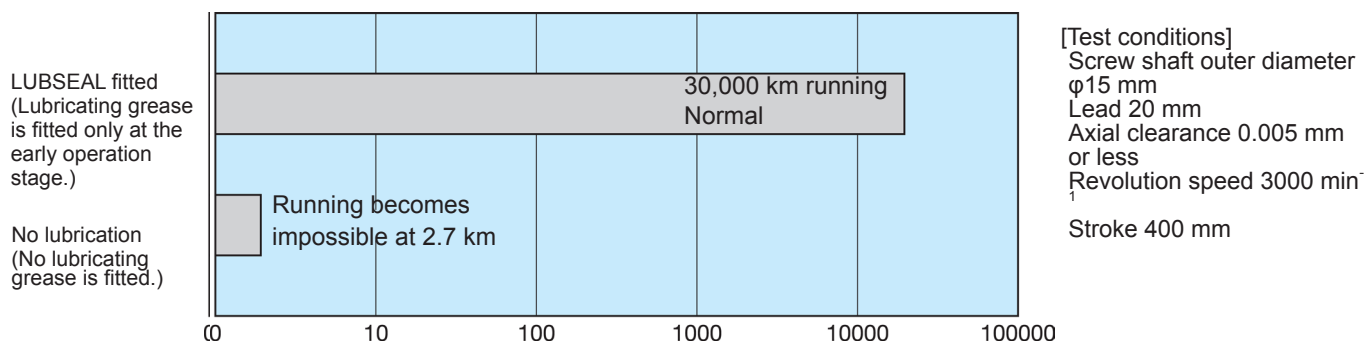
### ●G Series Installation Structure



### ●F Series Installation Structure



### ●Performance



### ●Notation by Model No.

Travel distance (km)

|    |    |    |    |   |   |   |   |   |   |                |   |               |   |    |   |
|----|----|----|----|---|---|---|---|---|---|----------------|---|---------------|---|----|---|
| GG | 15 | 20 | AS | — | B | A | S | R | — | Overall length | × | Thread length | — | C5 | F |
|----|----|----|----|---|---|---|---|---|---|----------------|---|---------------|---|----|---|

### ●Series and Size

| Shaft diameter | Lead | Series to which LUBSEAL can be fitted |       |    |       |
|----------------|------|---------------------------------------|-------|----|-------|
|                |      | FE/FG                                 | GE/GG | GP | GY/GW |
| 10             | 10   | ○                                     |       |    |       |
|                | 12   | ○                                     |       |    |       |
| 15             | 5    | ○                                     | ○     | ○  | ○     |
|                | 10   | ○                                     | ○     |    | ○     |
|                | 15   |                                       | ○     |    |       |
|                | 20   | ○                                     | ○     |    | ○     |
| 20             | 5    | ○                                     | ○     | ○  | ○     |
|                | 10   | ○                                     | ○     |    | ○     |
|                | 20   | ○                                     | ○     |    | ○     |
| 25             | 5    | ○                                     | ○     |    | ○     |
|                | 10   | ○                                     | ○     |    | ○     |
|                | 20   |                                       | ○     |    |       |
|                | 25   | ○                                     | ○     |    | ○     |

\*LUBSEAL cannot be fitted to the GY/GW series square nut.

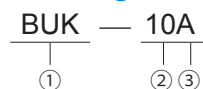
#### ⚠ Precautions on handling

- (Note 1) For LUBSEAL, grease having the same ingredients as those of Alvania Grease S2 filled in the unit is impregnated. For use of other greases, consult us.
- (Note 2) For LUBSEAL fitting on ball screws other than the above series and surface treated bass screws, contact us.
- (Note 3) The maximum operating temperature is 50°C. For the case where it is 50°C or higher, contact us.
- (Note 4) During cleaning, do not use organic solvent and illuminating kerosene.

## Support Units: BUK, BUM, BUT Series

- Applicable to 6-32 mm dia. ball screw
- Accurate center height
- Angular bearing preload adjustment completed  
Preload adjusted angular bearing DF  
(Face-to-Face) combination as standard.  
DB (Back-to-Back) combination is also available on your request when higher rigidity is required.
- Special surface treatment, special grease, etc. consult KURODA JENA TEC.

### Ordering Number



- ① Series  
 BUK: Direct mount (Rectangle) Support Unit  
 BUM :Circle Flange Support Unit  
 BUT: Support unit for machine tool
- ② Bearing journal diameter (mm)
- ③ Combination  
 A: Set of fixed and supported end units  
 F: Fixed end unit  
 S: Supported end unit  
 T: Diameter support unit only  
 No mark: Fixed end unit and supported end bearing



| BUK Series |                |                    |                       | BUM Series |                |                       |                    | BUT Series     |
|------------|----------------|--------------------|-----------------------|------------|----------------|-----------------------|--------------------|----------------|
| Set        | Fixed-end unit | Supported-end unit | Diameter support unit | Set        | Fixed-end unit | Supported-end bearing | Supported-end unit | Fixed-end unit |
| BUK-6      | BUK-6          | -                  | -                     | BUM-6      | BUM-6F         | 606ZZ                 | -                  | -              |
| BUK-8A     | BUK-8F         | BUK-6S             | -                     | BUM-8      | BUM-8F         | 606ZZ                 | BUM-6S             | -              |
| BUK-10A    | BUK-10F        | BUK-8S             | BUK-12T               | BUM-10     | BUM-10F        | 608ZZ                 | BUM-8S             | -              |
| BUK-12A    | BUK-12F        | BUK-10S            | BUK-15T               | BUM-12     | BUM-12F        | 6000ZZ                | BUM-10S            | -              |
| BUK-15A    | BUK-15F        | BUK-15S            | -                     | BUM-15     | BUM-15F        | 6002ZZ                | BUM-15S            | -              |
| BUK-20A    | BUK-20F        | BUK-20S            | -                     | BUM-20     | BUM-20F        | 6204ZZ                | BUM-20S            | BUT-20         |
| BUK-25A    | BUK-25F        | BUK-25S            | -                     | BUM-25     | BUM-25F        | 6205ZZ                | -                  | BUT-25         |
| -          | -              | -                  | -                     | -          | -              | -                     | -                  | BUT-30         |
| -          | -              | -                  | -                     | -          | -              | -                     | -                  | BUT-35         |
| -          | -              | -                  | -                     | -          | -              | -                     | -                  | BUT-40         |

## Related Products

### ●KURODA Dust Preventive Grease Series

KURODA dust preventive grease series has excellent performance of dust prevention, stable torque, lubrication, and rust prevention. KURODA grease series meets the demand for cleanliness of semiconductor manufacturing machines, LCD manufacturing lines, medical care instruments, etc.

#### KURODA C Grease

For dust prevention



|                             |               |
|-----------------------------|---------------|
| Appearance                  | Yellow white  |
| Thickening                  | Ureic         |
| Base oil                    | Synthetic oil |
| Consistency                 | 280 (No.2)    |
| Operating temperature range | -30 to +150°C |

C1-080G-J (80 g in bellows type container)  
 C1-400G-J (400 g in bellows type container)

#### KURODA S Grease

For short stroke motion



|                             |               |
|-----------------------------|---------------|
| Appearance                  | Yellow white  |
| Thickening                  | Ureic         |
| Base oil                    | Mineral oil   |
| Consistency                 | 280 (No.2)    |
| Operating temperature range | -20 to +150°C |

S1-080G-J (80 g in bellows type container)  
 S1-400G-J (400 g in bellows type container)

\* You can install the above container directly to your grease gun. (Please use grease gun produced in accordance with JIS B 9808-1991)

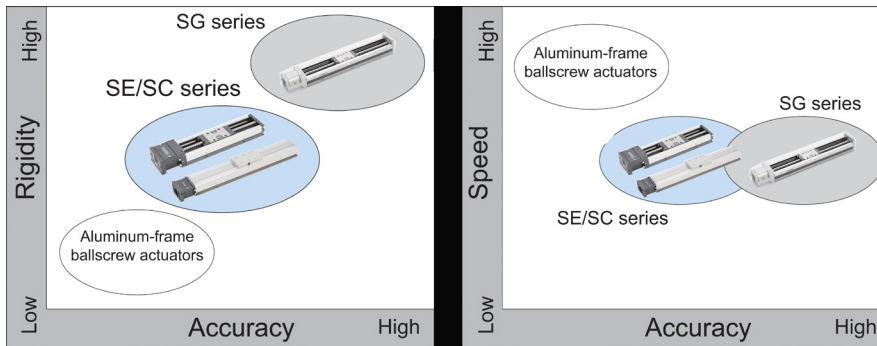
## Ballscrew Actuators: SG/SE/SC Series

The KURODA JENA TEC ballscrew actuator is a compact single-axis unit consisting of a ball screw and a slide guide. Despite its compact structure, the actuator with U-guide rail shows high rigidity against bending and deflection, and it can be applied to a structure supported by one end. The linear motion unit, which is gothic-arched and in 4 points-contact structure, makes it possible to deliver high precision and high rigidity.

A wide variety of options are available, including various motor bracket configurations for connecting various types of motors, top covers to support dust proofing, various sensors, and lubricating units.

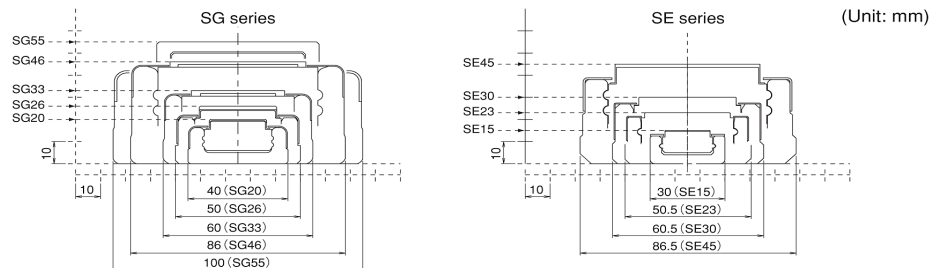
In addition, for the support of customized products, KURODA JENA TEC is also manufacturing guide rail intermediate stroke, long rail specification, and clean environment supporting products.

### Positions of Ballscrew Actuators



### Space Saving

With its slide block set in U-guide rail, the actuator has achieved low-profile design and compact shape, making it possible to considerably reduce necessary space as compared with usual table-type structure.



### Wide Variations

| Model No.                  | SG series                                                                                                    |      |      |        |      |      | SE series                                                                                                     |      |      |      | SC series (Note 2) |      |      |
|----------------------------|--------------------------------------------------------------------------------------------------------------|------|------|--------|------|------|---------------------------------------------------------------------------------------------------------------|------|------|------|--------------------|------|------|
|                            | SG20                                                                                                         | SG26 | SG33 | SG3320 | SG46 | SG55 | SE15                                                                                                          | SE23 | SE30 | SE45 | SC23               | SC30 | SC45 |
| Performance grade (Note 1) | P: Repeated positioning accuracy $\pm 1 \mu\text{m}$<br>H: Repeated positioning accuracy $\pm 3 \mu\text{m}$ |      |      |        |      |      | U: Repeated positioning accuracy $\pm 5 \mu\text{m}$<br>W: Repeated positioning accuracy $\pm 10 \mu\text{m}$ |      |      |      |                    |      |      |
| Screw shaft dia.           | 6                                                                                                            | 8    | 10   | 12     | 15   | 20   | 6                                                                                                             | 8    | 10   | 15   | 8                  | 10   | 15   |
| Lead                       | 1                                                                                                            | ⊙    |      |        |      |      | ⊙                                                                                                             |      |      |      |                    |      |      |
|                            | 2                                                                                                            |      | ⊙    | ●      |      |      | ⊙                                                                                                             | ⊙    | ●    |      | ⊙                  | ●    |      |
|                            | 4                                                                                                            |      |      |        |      |      |                                                                                                               | ●    | ⊙    |      | ●                  | ⊙    |      |
|                            | 5                                                                                                            | ⊙    | ⊙    | ⊙      | ●    | ●    |                                                                                                               | ⊙    | ⊙    | ⊙    | ⊙                  | ⊙    | ⊙    |
|                            | 8                                                                                                            |      |      |        |      |      |                                                                                                               | ●    |      |      | ●                  |      |      |
|                            | 10                                                                                                           |      | ⊙    |        | ⊙    | ●    |                                                                                                               |      | ⊙    | ⊙    |                    | ⊙    | ⊙    |
|                            | 20                                                                                                           |      |      | ⊙      | ⊙    | ⊙    |                                                                                                               |      | ⊙    | ⊙    |                    | ⊙    | ⊙    |
| Standard guide rail length | 100                                                                                                          | 150  | 150  |        | 340  | 980  | 100                                                                                                           | 150  | 150  | 340  | 150                | 150  | 540  |
|                            | 200                                                                                                          | 300  | 600  |        | 1240 | 1380 | 200                                                                                                           | 300  | 750  | 940  | 300                | 750  | 940  |
| Types of slide blocks      | A                                                                                                            | A    | A    | A      | A    | A    | A                                                                                                             | A    | A    | A    | A                  | A    | A    |
|                            | B                                                                                                            | B    | B    | B      | B    | B    | B                                                                                                             | B    | B    | B    |                    |      |      |

⊙ : In-stock items ● : Manufactured by order

A: With 1 long block unit B: With 2 long block units C: With 1 short block unit D: With 2 short block units

(Note 1) The above table shows precision information on repeated positioning accuracy in particular, as an example. Performance of actuators may be different from the values shown above, depending on applied options and usage. For more details, refer to the Ballscrew Actuator General Catalogue.

(Note 2) SC series is a full-cover version of SE series ballscrew actuators. For more details, refer to the Ballscrew Actuator General Catalogue.

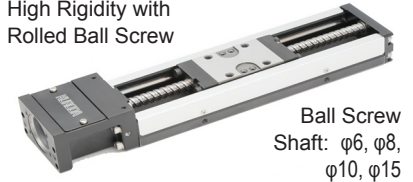
### High accuracy type SG series

High Accuracy & Rigidity with Ground Ball Screw



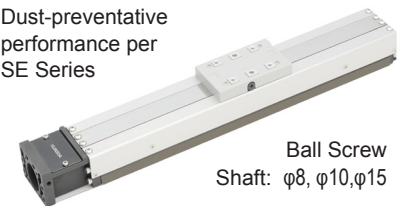
### High rigidity type SE series

High Rigidity with Rolled Ball Screw



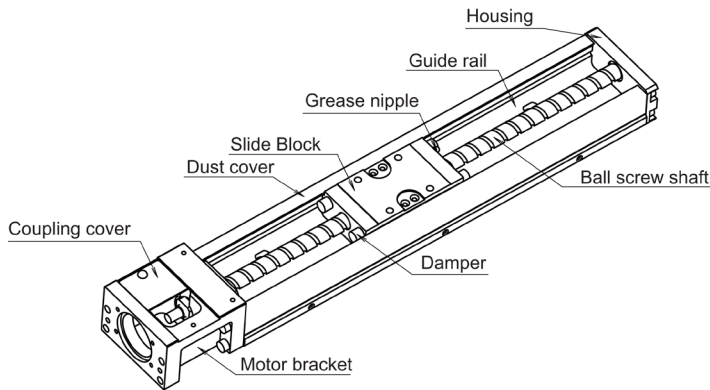
### Full cover type SC series

Dust-preventative performance per SE Series

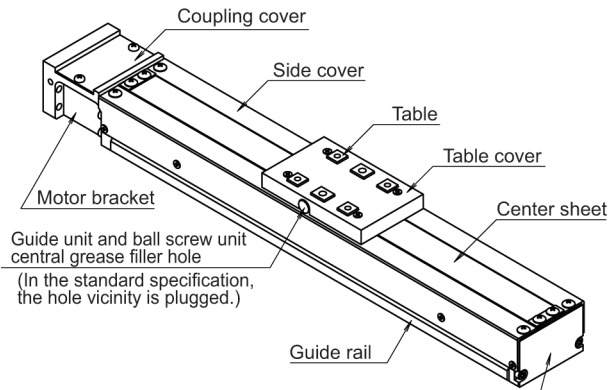


# High Accuracy, High Rigidity Ballscrew Actuators

## ●SG/SE Exterior Configuration



## ●SC Exterior Configuration



## ●How to Interpret Model No.

| Model No.              | Lead | Slide block | Guide rail length | Performance grade | Motor bracket configuration | Type of cover | Sensor | Surface treatment | Grease | Dowel pin hole |
|------------------------|------|-------------|-------------------|-------------------|-----------------------------|---------------|--------|-------------------|--------|----------------|
| SG33                   | 10   | A           | 500               | P                 | A1                          | C             | C      | N                 | N      | PS             |
| ①                      | ②    | ③           | ④                 | ⑤                 | ⑥                           | ⑦             | ⑧      | ⑨                 | ⑩      | ⑪              |
| Model No. of Main Body |      |             |                   |                   | Model No. of Option         |               |        |                   |        |                |

- ① Model of ballscrew actuator
- ② Lead of ball screw
- ③ Variation of slide blocks and number of blocks to be mounted
- ④ Guide rail length
- ⑤ Performance of ballscrew actuators, including various positioning accuracy indicators and traveling parallelism
- ⑥ Motor bracket configuration
- ⑦ Type of cover
- ⑧ With or without sensor/type of sensor
- ⑨ With or without surface treatment applied
- ⑩ Type of grease applied on slide blocks and ball screws of ballscrew actuators
- ⑪ With or without dowel pin holes

## ●Option Support Table

| Category | Item                              |                                                  | SG series |      |      |      |      | SE series |      |      |      | SC series |      |      |
|----------|-----------------------------------|--------------------------------------------------|-----------|------|------|------|------|-----------|------|------|------|-----------|------|------|
|          |                                   |                                                  | SG20      | SG26 | SG33 | SG46 | SG55 | SE15      | SE23 | SE30 | SE45 | SC23      | SC30 | SC45 |
| Option   | Motor bracket configuration       | Motor bracket                                    | ○         | ○    | ○    | ○    | ○    | ○         | ○    | ○    | ○    | ○         | ○    | ○    |
|          |                                   | Intermediate flange                              | ○         | ○    | ○    | ○    | ○    | ○         | ○    | ○    | ○    | ○         | ○    | ○    |
|          |                                   | R0/RN type bracket (Note 1)                      | ○         | ○    | ○    | ○    | ○    | -         | -    | ○    | ○    | -         | ○    | ○    |
|          |                                   | Parallel motor mounting unit                     | -         | -    | ○    | ○    | -    | -         | -    | ○    | ○    | -         | ○    | ○    |
|          | Type of cover                     | Without dustproof cover                          | ○         | ○    | ○    | ○    | ○    | ○         | ○    | ○    | ○    | -         | -    | -    |
|          |                                   | With dustproof cover                             | ○         | ○    | ○    | ○    | ○    | ○         | ○    | ○    | ○    | -         | -    | -    |
|          |                                   | Standard full-cover (Note 2)                     | -         | -    | -    | -    | -    | -         | -    | -    | -    | ○         | ○    | ○    |
|          |                                   | Full-cover with grease nipple (Note 2)           | -         | -    | -    | -    | -    | -         | -    | -    | -    | ○         | ○    | ○    |
|          |                                   | Full-cover with wiper (Note 2)                   | -         | -    | -    | -    | -    | -         | -    | -    | -    | ○         | ○    | ○    |
|          |                                   | Full-cover with grease nipple and wiper (Note 2) | -         | -    | -    | -    | -    | -         | -    | -    | -    | ○         | ○    | ○    |
|          | Sensor                            | Photo-microsensor                                | ○         | ○    | ○    | ○    | ○    | -         | ○    | ○    | ○    | ○         | ○    | ○    |
|          |                                   | Proximity sensor                                 | ○         | ○    | ○    | ○    | ○    | ○         | ○    | -    | -    | ○         | -    | -    |
|          | Surface treatment (Note 3)        |                                                  | ○         | ○    | ○    | ○    | ○    | ○         | ○    | ○    | ○    | ○         | ○    | ○    |
|          | Dust preventing grease            |                                                  | ○         | ○    | ○    | ○    | ○    | ○         | ○    | ○    | ○    | ○         | ○    | ○    |
|          | Dowel pin hole                    |                                                  | ○         | ○    | ○    | ○    | ○    | -         | ○    | ○    | ○    | -         | -    | -    |
|          | Lubrication unit LUBSEAL (Note 4) |                                                  | -         | -    | -    | -    | -    | -         | ○    | ○    | ○    | ○         | ○    | ○    |

(Note 1) The R0 type bracket is applicable for the SG series, while the RN type bracket is applicable for the SE series and SC series.

(Note 2) The full-cover specification types with wipers and grease nipples are only applicable for the SC series.

(Note 3) For the surface treatment, anticorrosive black-colored coating treatment (film thickness: 1-2μm) is implemented. Regarding other surface treatment, contact KURODA for more information.

(Note 4) Due to the LUBSEAL which connected to the both side of slide block, LUBSEAL may not be produced depending on the guide rail length.

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