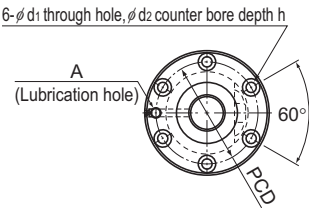


# BIF (Unfinished Shaft Ends) With Preload

|          |        |
|----------|--------|
| DN value | 70,000 |
|----------|--------|



| Model No.                 | Ball screw specifications       |            |                                      |                             |                                        |                   |                       | Nut                 |                                   |                                  |    |
|---------------------------|---------------------------------|------------|--------------------------------------|-----------------------------|----------------------------------------|-------------------|-----------------------|---------------------|-----------------------------------|----------------------------------|----|
|                           | Screw shaft outer diameter<br>d | Lead<br>Ph | Ball center-to-center diameter<br>dp | Thread minor diameter<br>dc | No. of loaded circuits<br>Rows X turns | Basic load rating |                       | Outer diameter<br>D | Flange diameter<br>D <sub>f</sub> | Overall length<br>L <sub>1</sub> | H  |
|                           |                                 |            |                                      |                             |                                        | Ca<br>kN          | C <sub>0a</sub><br>kN |                     |                                   |                                  |    |
| BIF 4010-5<br>BIF 4010-10 | 40                              | 10         | 41.75                                | 34.4                        | 1×2.5<br>2×2.5                         | 29<br>52.7        | 70.4<br>141.1         | 82                  | 124                               | 103<br>163                       | 18 |
| BIF 4012-5<br>BIF 4012-10 | 40                              | 12         | 42                                   | 34.1                        | 1×2.5<br>2×2.5                         | 33.9<br>61.6      | 79.2<br>158.8         | 84                  | 126                               | 119<br>191                       | 18 |
| BIF 5010-5<br>BIF 5010-10 | 50                              | 10         | 51.75                                | 44.4                        | 1×2.5<br>2×2.5                         | 32<br>58.2        | 88.2<br>176.4         | 93                  | 135                               | 103<br>163                       | 18 |

## Model number coding

**BIF4012-10 RR G0 +1230L C5 A**

Model No.

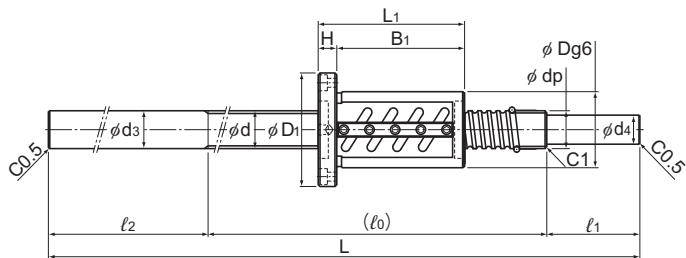
Seal symbol<sup>1</sup>

Symbol for clearance  
in the axial direction<sup>2</sup>

Overall screw shaft  
length (in mm)

Accuracy symbol<sup>3</sup>

Unfinished shaft ends code (A or B)



Unit: mm

| Dimensions |                |     |                |                |    |                       | Screw shaft dimensions |                     |                |                |                |                |                | Nut mass     | Shaft mass | Permissible rotational speed |
|------------|----------------|-----|----------------|----------------|----|-----------------------|------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|------------------------------|
|            | B <sub>1</sub> | PCD | d <sub>1</sub> | d <sub>2</sub> | h  | Lubrication hole<br>A | Standard stock symbol  | Overall length<br>L | ℓ <sub>0</sub> | ℓ <sub>1</sub> | ℓ <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> |              |            |                              |
|            | 85<br>145      | 102 | 11             | 17.5           | 11 | M6                    | A                      | 1,230               | 1,000          | 70             | 160            | 40             | 30.3           | 3.58<br>5.18 | 6.59       | 1,670                        |
|            |                |     |                |                |    |                       |                        | 1,730               | 1,500          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,030               | 1,800          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,230               | 2,000          |                |                |                |                |              |            |                              |
|            | 101<br>173     | 104 | 11             | 17.5           | 11 | M6                    | A                      | 1,230               | 1,000          | 70             | 160            | 40             | 30.3           | 4.2<br>6.24  | 6.39       | 1,660                        |
|            |                |     |                |                |    |                       |                        | 1,730               | 1,500          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,030               | 1,800          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,230               | 2,000          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       | B                      | 1,730               | 1,200          | 100            | 430            | 40             | 33.8           |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,030               | 1,200          |                | 730            |                |                |              |            |                              |
|            | 85<br>145      | 113 | 11             | 17.5           | 11 | Rc1/8<br>(PT1/8)      | A                      | 1,300               | 1,000          | 100            | 200            | 50             | 40.3           | 4.4<br>6.35  | 11.36      | 1,350                        |
|            |                |     |                |                |    |                       |                        | 1,800               | 1,500          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,300               | 2,000          |                |                |                |                |              |            |                              |
|            |                |     |                |                |    |                       |                        | 2,800               | 2,500          |                |                |                |                |              |            |                              |