

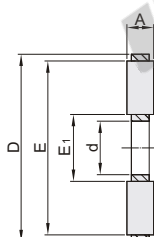
# Thrust Needle Roller Bearings

| Code | Bearing Type Code | Bearing Accuracy   | Bearing Material |           |
|------|-------------------|--------------------|------------------|-----------|
|      |                   |                    | GB               | Equiv.    |
| BBL  | —                 | GB/T 307.1 Class 6 | GCr15            | SUJ2+65Mn |

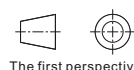
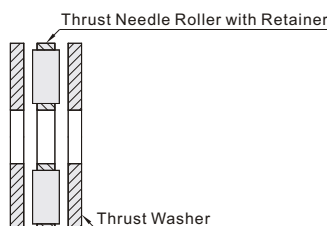
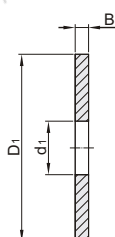


Thrust washer may have a slight distortion when delivered, but it becomes flat when axial load of at least 200N is applied.

Thrust Needle Roller with Retainer



Thrust Washer



The first perspective

| Part Number | Thrust Needle Roller with Retainer |                  |    |                |   |            |    |                | Thrust Washer × 2 |                  |                |                  |   |       | Limit Speed<br>(rpm) | Basic Load Rating  |                    | Mass<br>g<br>(Reference) |
|-------------|------------------------------------|------------------|----|----------------|---|------------|----|----------------|-------------------|------------------|----------------|------------------|---|-------|----------------------|--------------------|--------------------|--------------------------|
|             | d                                  |                  | D  |                | A |            | E  | E <sub>1</sub> | d <sub>1</sub>    |                  | D <sub>1</sub> |                  | B |       |                      | Cr (Dynamic)<br>kN | Cor (Static)<br>kN |                          |
| BBL0414     | 4                                  |                  | 14 | -0.095         |   |            | 13 | 5              | 4                 |                  | 14             | -0.032           |   |       | 15050                | 3.08               | 5.6                | 2.7                      |
| BBL0515     | 5                                  | +0.140<br>+0.020 | 15 | -0.365         |   |            | 14 | 6              | 5                 | +0.200<br>+0.020 | 15             | -0.302           |   |       | 14420                | 3.325              | 6.44               | 2.8                      |
| BBL0619     | 6                                  |                  | 19 | -0.11<br>-0.44 |   |            | 18 | 7              | 6                 |                  | 19             |                  |   |       | 13230                | 4.76               | 10.85              | 5                        |
| BBL0821     | 8                                  | +0.175<br>+0.025 | 21 |                |   |            | 20 | 9              | 8                 | +0.245<br>+0.025 | 21             |                  |   |       | 12460                | 5.46               | 13.58              | 6                        |
| BBL1024     | 10                                 |                  | 24 |                |   |            | 23 | 12             | 10                |                  | 24             | -0.040<br>-0.370 |   |       | 11830                | 6.44               | 17.85              | 9                        |
| BBL1226     | 12                                 |                  | 26 | -0.11<br>-0.44 | 2 | 0<br>-0.01 | 25 | 14             | 12                |                  | 26             |                  | 1 | ±0.05 | 10640                | 6.93               | 20.3               |                          |
| BBL1528     | 15                                 | +0.212<br>+0.032 | 28 |                |   |            | 27 | 17             | 15                | +0.302<br>+0.032 | 28             |                  |   |       | 9240                 | 7.91               | 25.2               | 10                       |
| BBL1730     | 17                                 |                  | 30 |                |   |            | 29 | 19             | 17                |                  | 30             |                  |   |       | 8470                 | 8.33               | 27.65              | 12                       |
| BBL2035     | 20                                 |                  | 35 | -0.12<br>-0.51 |   |            | 34 | 22             | 20                |                  | 35             |                  |   |       | 7350                 | 9.17               | 32.55              | 15                       |
| BBL2542     | 25                                 | +0.250<br>+0.004 | 42 | -0.13<br>-0.52 |   |            | 41 | 29             | 25                | +0.370<br>+0.040 | 42             | -0.050<br>-0.440 |   |       | 5880                 | 10.29              | 40.6               | 21                       |
| BBL3047     | 30                                 |                  | 47 |                |   |            | 46 | 34             | 30                |                  | 47             |                  |   |       | 5110                 | 11.41              | 49                 | 24                       |

□ Cage the d5~d8 specifications are nylon holders, and the d8 and above specifications are steel holders.

1 Kg=9.81N



Please order as shown

| Part Number | d |
|-------------|---|
| BBL0414     | 4 |
| BBL0515     | 5 |
| BBL0414     |   |



| Discount price |                      |
|----------------|----------------------|
| Per            | 1~9                  |
| Price          | 100%                 |
|                | Additional quotation |



| Delivery |
|----------|
| 6        |