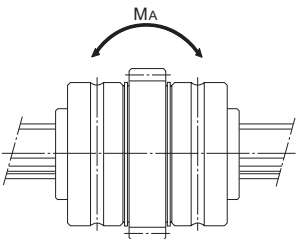
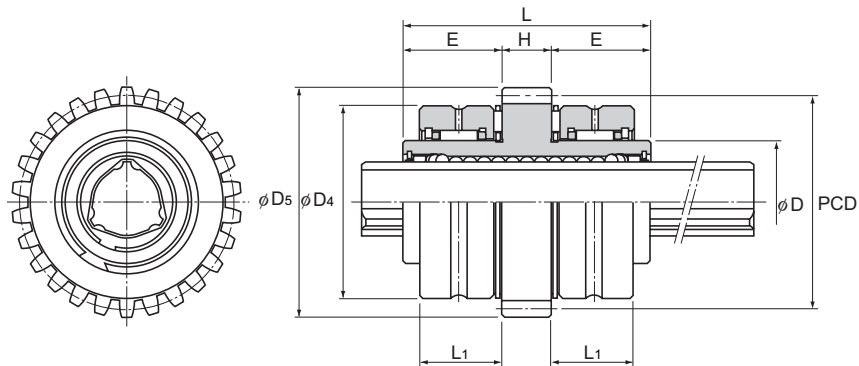


Model LBG



Ball Spline

Unit: mm

| Model No. | Spline nut dimensions     |             |        |           |                |             |                |            |    |      | Gear specifications*               |                             |          |                   | Basic torque rating |                     | Basic load rating |                   | Static permissible moment | Mass               |                   |
|-----------|---------------------------|-------------|--------|-----------|----------------|-------------|----------------|------------|----|------|------------------------------------|-----------------------------|----------|-------------------|---------------------|---------------------|-------------------|-------------------|---------------------------|--------------------|-------------------|
|           | Spline nut outer diameter |             | Length |           | Outer diameter |             | Width          |            | H  | E    | Tip circle diameter D <sub>s</sub> | Standard pitch diameter PCD | Module m | Number of teeth z | C <sub>T</sub> N·m  | C <sub>OT</sub> N·m | C kN              | C <sub>0</sub> kN | M <sub>A</sub> ** N·m     | Spline nut unit kg | Spline shaft kg/m |
|           | D                         | Tolerance   | L      | Tolerance | D <sub>s</sub> | Tolerance   | L <sub>1</sub> | Tolerance  |    |      |                                    |                             |          |                   |                     |                     |                   |                   |                           |                    |                   |
| ● LBG 20  | 30                        | 0<br>-0.009 | 60     | 0<br>-0.2 | 47             | 0<br>-0.011 | 20             | 0<br>-0.16 | 12 | 24   | 56                                 | 52                          | 2        | 26                | 90.2                | 213                 | 9.4               | 20.1              | 103                       | 0.61               | 1.8               |
| ● LBG 25  | 40                        | 0<br>-0.011 | 70     |           | 60             | 0<br>-0.013 | 23             | 0<br>-0.19 | 14 | 28   | 70                                 | 65                          | 2.5      | 26                | 176                 | 381                 | 14.9              | 28.7              | 171                       | 1.4                | 2.7               |
| ● LBG 30  | 45                        | 0<br>-0.011 | 80     |           | 65             | 0<br>-0.013 | 27             | 0<br>-0.19 | 16 | 32   | 75                                 | 70                          | 2.5      | 28                | 312                 | 657                 | 22.5              | 41.4              | 295                       | 2.1                | 3.8               |
| ● LBG 40  | 60                        | 0<br>-0.013 | 100    | 0<br>-0.3 | 85             | 0<br>-0.015 | 31             | 0<br>-0.25 | 18 | 41   | 96                                 | 90                          | 3        | 30                | 696                 | 1420                | 37.1              | 66.9              | 586                       | 3                  | 6.8               |
| ● LBG 50  | 75                        | 0<br>-0.013 | 112    |           | 100            |             | 32             |            | 20 | 46   | 111                                | 105                         | 3        | 35                | 1290                | 2500                | 55.1              | 94.1              | 941                       | 4.1                | 10.6              |
| ● LBG 60  | 90                        | 0<br>-0.015 | 127    |           | 120            |             | 38             |            | 22 | 52.5 | 133                                | 126                         | 3.5      | 36                | 1870                | 3830                | 66.2              | 121               | 1300                      | 6.3                | 15.6              |
| ● LBG 85  | 120                       | 0<br>-0.015 | 155    |           | 150            | 0<br>-0.025 | 40             |            | 26 | 64.5 | 168                                | 160                         | 4        | 40                | 4740                | 9550                | 119               | 213               | 3180                      | 11.8               | 32                |

Note) ●: indicates model numbers for which felt seal types are available (see A-509).

Note) \*The gear specifications in the table represent the dimensions with maximum module.  
Special gear types such as helical gear and worm gear can also be manufactured at your request.  
\*\*M<sub>A</sub> indicates the permissible moment value in the axial direction when a single spline nut is used, as shown in the figure above.  
For details on the maximum lengths of ball spline shafts by accuracy, please see B-410.

Model number coding

2 LBG50 UU CM +700L H K

Model No.

Symbol for clearance in the rotational direction (\*2)

Accuracy symbol (\*3)

Symbol for standard hollow spline shaft (\*4)

Number of spline nuts on one shaft (no symbol for one nut)

Contamination protection accessory symbol (\*1)

Overall spline shaft length (in mm)

(\*1) See A-509. (\*2) See A-481. (\*3) See A-482. (\*4) See B-400.