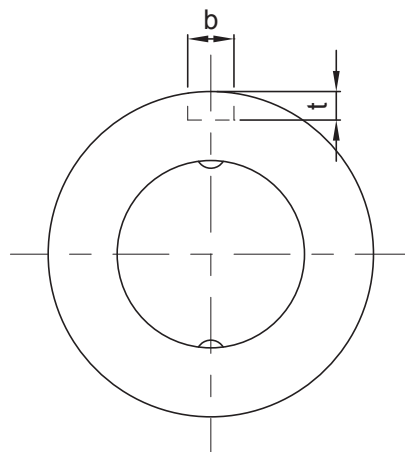


## SOT Series Specifications



< Two row >

**Shaft diameter**

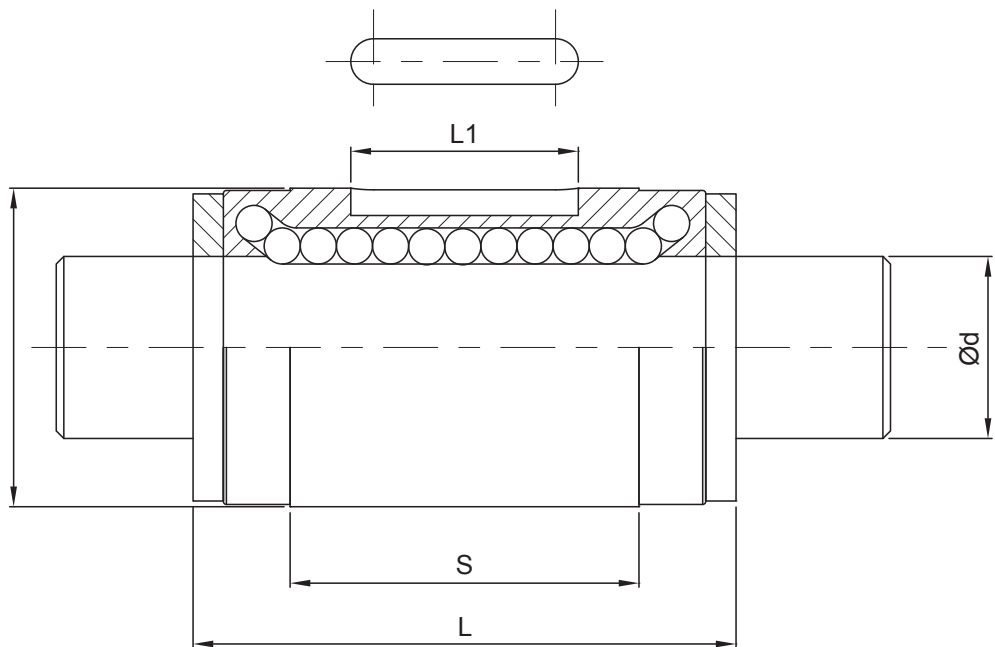
**B**

Ball Spline

| Model No. | Diameter | Row | Spline Nut Dimension |    |      |     | Keyway Dimensions |              |
|-----------|----------|-----|----------------------|----|------|-----|-------------------|--------------|
|           | d        |     | D                    | L  | S    | L1  | b                 | t            |
|           | h7       |     |                      |    |      |     | H8                | +0.05<br>~ 0 |
| SOT008    | 8        | 2   | 15                   | 25 | 14.6 | 8.5 | 2.5               | 1.5          |
| SOT010    | 10       | 2   | 19                   | 30 | 18.2 | 11  | 3                 | 1.8          |
| SOT012    | 12       | 2   | 21                   | 35 | 23   | 15  | 3                 | 1.8          |
| SOT015    | 13.6     | 2   | 23                   | 40 | 27   | 20  | 3.5               | 2            |
| SOT020    | 18.2     | 2   | 30                   | 50 | 33   | 26  | 4                 | 2.5          |
| SOT025    | 22.6     | 2   | 37                   | 60 | 39.2 | 29  | 5                 | 3            |

# TBI MOTION BALL SPLINE

## 1-1 Structure and Benefits of *TBI MOTION* Ball Spline



B

Ball Spline

| Model No. | Basic Load Rating |      | Basic Torsion |         | Static Permissible Moment |         | Mass       |              |
|-----------|-------------------|------|---------------|---------|---------------------------|---------|------------|--------------|
|           | C                 | C0   | CT            | C0T     | MA1                       | MA2     | Spline Nut | Spline Shaft |
|           | kgf               | kgf  | kgf · m       | kgf · m | kgf · m                   | kgf · m | g          | kg/m         |
| SOT008    | 121               | 136  | 0.56          | 0.63    | 0.34                      | 2.24    | 15.9       | 0.39         |
| SOT010    | 192               | 219  | 1.11          | 1.27    | 0.71                      | 4.23    | 31.5       | 0.61         |
| SOT012    | 222               | 274  | 1.51          | 1.87    | 1.08                      | 6.02    | 44         | 0.88         |
| SOT015    | 426               | 619  | 3.19          | 4.65    | 2.83                      | 15.49   | 59.5       | 1.11         |
| SOT020    | 673               | 922  | 6.73          | 9.22    | 4.95                      | 29.36   | 130        | 2.02         |
| SOT025    | 1142              | 1458 | 14.17         | 18.14   | 9.46                      | 56.17   | 220        | 3.10         |