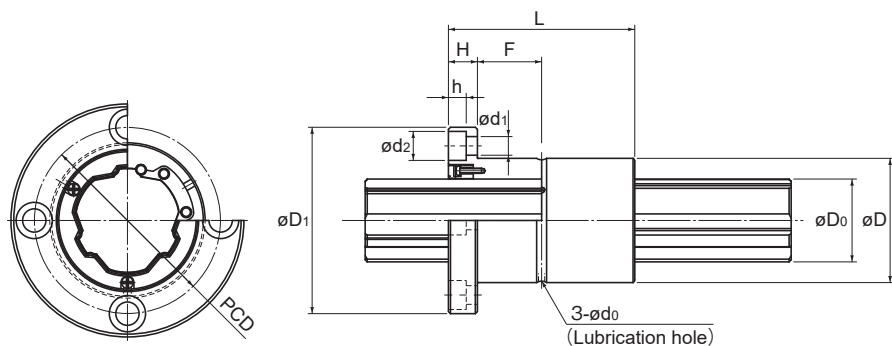


# Model SLF



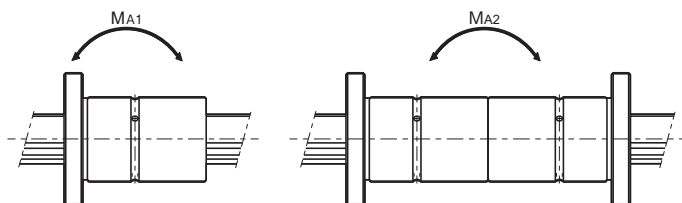
| Model No. | Spline nut dimensions |             |        |           |                 |           |    |      |                           |     |
|-----------|-----------------------|-------------|--------|-----------|-----------------|-----------|----|------|---------------------------|-----|
|           | Outer diameter        |             | Length |           | Flange diameter |           | H  | F    | Lubrication hole<br>$d_0$ | PCD |
|           | D                     | Tolerance   | L      | Tolerance | $D_1$           | Tolerance |    |      |                           |     |
| SLF25     | 37                    | 0<br>-0.016 | 60     | 0<br>-0.3 | 60              | 0<br>-0.2 | 9  | 21   | 2                         | 47  |
| SLF30     | 45                    |             | 70     |           | 70              |           | 10 | 25   | 3                         | 54  |
| SLF40     | 60                    | 0<br>-0.019 | 90     |           | 90              |           | 14 | 31   | 3                         | 72  |
| SLF50     | 75                    |             | 100    |           | 113             | 0<br>-0.3 | 16 | 34   | 4                         | 91  |
| SLF60     | 90                    |             | 127    |           | 129             |           | 18 | 45.5 | 4                         | 107 |
| SLF70     | 100                   | 0<br>-0.022 | 110    | 0<br>-0.4 | 142             |           | 20 | 35   | 4                         | 117 |
| SLF80     | 120                   |             | 140    |           | 168             | 0<br>-0.4 | 22 | 48   | 5                         | 138 |
| SLF100    | 140                   | 0<br>-0.025 | 160    |           | 195             |           | 25 | 55   | 5                         | 162 |

## Model number coding

|                                                            |              |                                                        |                                                               |                                                  |                              |                                                      |
|------------------------------------------------------------|--------------|--------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|------------------------------|------------------------------------------------------|
| <b>2</b>                                                   | <b>SLF50</b> | <b>UU</b>                                              | <b>CL</b>                                                     | <b>+700L</b>                                     | <b>P</b>                     | <b>K</b>                                             |
| Number of spline nuts on one shaft (no symbol for one nut) | Model No.    | Contamination protection accessory symbol <sup>1</sup> | Symbol for clearance in the rotational direction <sup>2</sup> | Overall spline shaft length <sup>5</sup> (in mm) | Accuracy symbol <sup>3</sup> | Symbol for standard hollow spline shaft <sup>4</sup> |

<sup>1</sup> See **A3-128**. <sup>2</sup> See **A3-32**. <sup>3</sup> See **A3-37**. <sup>4</sup> See **A3-50**. <sup>5</sup> See **A3-123**.

# High-Torque Caged Ball Spline



Unit: mm

|  |                           | Basic torque rating |                 | Basic load rating |             | Static permissible moment |                 | Mass             |                      |
|--|---------------------------|---------------------|-----------------|-------------------|-------------|---------------------------|-----------------|------------------|----------------------|
|  | Mounting hole             |                     |                 |                   |             |                           |                 |                  |                      |
|  | $d_1 \times d_2 \times h$ | $C_T$<br>N·m        | $C_{0T}$<br>N·m | C<br>kN           | $C_0$<br>kN | $M_{A1}$<br>N·m           | $M_{A2}$<br>N·m | Spline nut<br>kg | Spline shaft<br>kg/m |
|  | 5.5×9.5×5.4               | 219.9               | 306.8           | 18.2              | 22.5        | 136                       | 851             | 0.26             | 3.51                 |
|  | 6.6×11×6.5                | 366.5               | 513.3           | 25.4              | 31.5        | 233                       | 1,341           | 0.45             | 5.05                 |
|  | 9×14×8.6                  | 818.9               | 1,135.4         | 42.8              | 52.5        | 520                       | 2,801           | 1.06             | 9.18                 |
|  | 11×17.5×11                | 1,373.4             | 1,783.1         | 57.6              | 66.2        | 687                       | 4,156           | 1.9              | 14.45                |
|  | 11×17.5×11                | 2,506.7             | 3,321           | 87.8              | 103         | 1,452                     | 7,733           | 3.08             | 21.23                |
|  | 14×20×13                  | 2,986.3             | 3,474.7         | 89.7              | 92.5        | 1,038                     | 6,392           | 3.25             | 28.57                |
|  | 16×23×15.2                | 4,664.6             | 5,477.4         | 122.8             | 127.7       | 1,739                     | 11,482          | 5.82             | 37.49                |
|  | 18×26×17.5                | 8,922.3             | 10,211.6        | 188.2             | 190.7       | 3,155                     | 19,118          | 7.66             | 58.97                |

Ball Spline