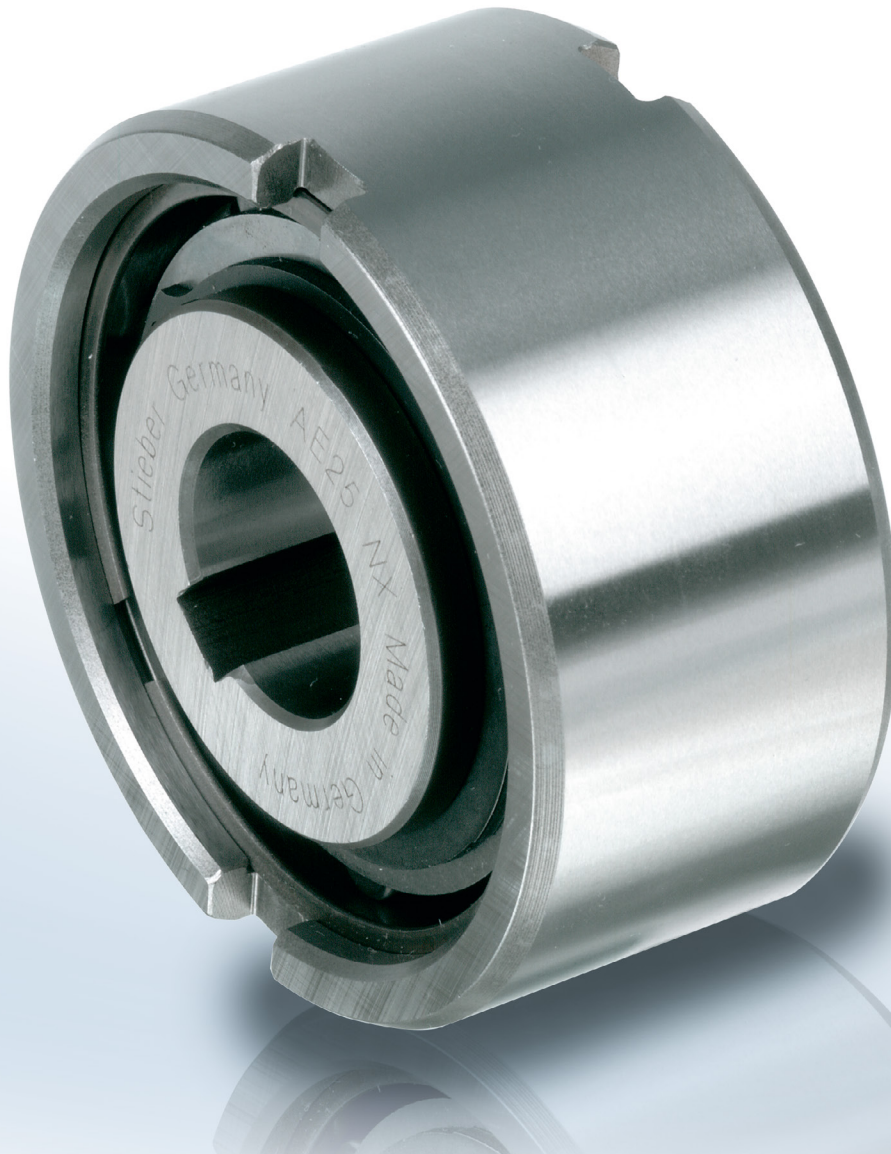


# AA



## TYPE

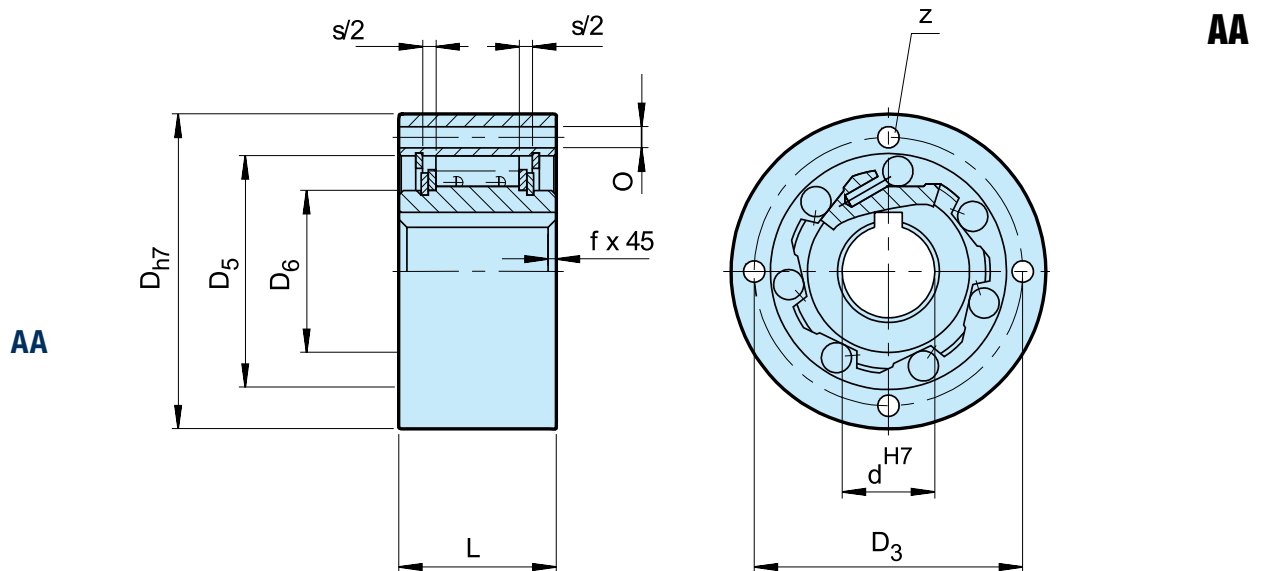


Type AA is a roller type freewheel non-bearing supported. Bearings are required to support axial and radial loads. Lubrication and sealing must also be provided by the installation.

Standard lubrication is oil. A typical installation is shown on the following page.

The inner race is keyed to the shaft. The fit for centering of the outer race must be to H7 tolerance. Connection of the outer race is via through bolts to grade 10.9 or better.

This design can accept an axial misalignment of inner and outer race of  $\pm S/2$ .



| Type | Size                    |                                       | Overrunning speeds <sup>1)</sup>                        |                                                         |                         |                        |                        |                        | Number |           |           |           |           | Weight | Drag torque             |
|------|-------------------------|---------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------|------------------------|------------------------|------------------------|--------|-----------|-----------|-----------|-----------|--------|-------------------------|
| AA   | d <sup>H7</sup><br>[mm] | T <sup>1)</sup> <sub>KN</sub><br>[Nm] | n <sup>2)</sup> <sub>imax</sub><br>[min <sup>-1</sup> ] | n <sup>3)</sup> <sub>amax</sub><br>[min <sup>-1</sup> ] | D <sub>h7</sub><br>[mm] | D <sub>5</sub><br>[mm] | D <sub>6</sub><br>[mm] | D <sub>3</sub><br>[mm] | Z      | 0<br>[mm] | L<br>[mm] | f<br>[mm] | s<br>[mm] | [kg]   | T <sub>R</sub><br>[Ncm] |
|      | 12                      | 17                                    | 3100                                                    | 6200                                                    | 47                      | 28                     | 20                     | 38                     | 3      | 5,5       | 20        | 0,5       | 4,5       | 0,21   | 0,7                     |
|      | 15                      | 55                                    | 2300                                                    | 5600                                                    | 55                      | 37                     | 26                     | 45                     | 3      | 5,5       | 30        | 0,8       | 4,5       | 0,44   | 3,5                     |
|      | 20                      | 146                                   | 2000                                                    | 4800                                                    | 68                      | 50                     | 35                     | 58                     | 4      | 5,5       | 34        | 0,8       | 5,5       | 0,70   | 8,4                     |
|      | 25                      | 285                                   | 1700                                                    | 4000                                                    | 90                      | 68                     | 45                     | 78                     | 6      | 5,5       | 37        | 1         | 6,5       | 1,30   | 14                      |
|      | 30                      | 500                                   | 1500                                                    | 3400                                                    | 100                     | 75                     | 50                     | 87                     | 6      | 6,6       | 44        | 1         | 6,5       | 2,00   | 23                      |
|      | 35                      | 720                                   | 1300                                                    | 2800                                                    | 110                     | 80                     | 55                     | 96                     | 6      | 6,6       | 48        | 1         | 6,5       | 2,60   | 60                      |
|      | 40                      | 1030                                  | 1200                                                    | 2500                                                    | 125                     | 90                     | 60                     | 108                    | 6      | 9         | 56        | 1,5       | 7,6       | 3,90   | 72                      |
|      | 45                      | 1125                                  | 1050                                                    | 2200                                                    | 130                     | 95                     | 65                     | 112                    | 8      | 9         | 56        | 1,5       | 7,6       | 4,00   | 140                     |
|      | 50                      | 2150                                  | 950                                                     | 2050                                                    | 150                     | 110                    | 75                     | 132                    | 8      | 9         | 63        | 1,5       | 7,6       | 6,00   | 180                     |
|      | 55                      | 2675                                  | 850                                                     | 1950                                                    | 160                     | 115                    | 82                     | 138                    | 8      | 11        | 67        | 2         | 7,6       | 7,20   | 190                     |
|      | 60                      | 3500                                  | 800                                                     | 1800                                                    | 170                     | 125                    | 90                     | 150                    | 10     | 11        | 78        | 2         | 7,6       | 9,20   | 240                     |
|      | 70                      | 5813                                  | 650                                                     | 1700                                                    | 190                     | 140                    | 100                    | 165                    | 10     | 11        | 95        | 2,5       | 7,6       | 11,8   | 320                     |
|      | 80                      | 6250                                  | 500                                                     | 1500                                                    | 210                     | 160                    | 115                    | 185                    | 10     | 11        | 100       | 2,5       | 7,6       | 15,6   | 330                     |
|      | 90                      | 10750                                 | 400                                                     | 1300                                                    | 230                     | 180                    | 130                    | 206                    | 10     | 14        | 115       | 3         | 7,6       | 24,7   | 650                     |
|      | 100                     | 15000                                 | 350                                                     | 1150                                                    | 270                     | 210                    | 150                    | 240                    | 10     | 18        | 120       | 3         | 7,6       | 35,8   | 830                     |
|      | 120                     | 25000                                 | 230                                                     | 900                                                     | 310                     | 240                    | 180                    | 278                    | 12     | 18        | 140       | 4         | 9,6       | 54,3   | 1080                    |
|      | 150                     | 57500                                 | 160                                                     | 600                                                     | 400                     | 310                    | 230                    | 360                    | 12     | 22        | 180       | 4         | 9,6       | 116    | 1240                    |
|      | 200                     | 135000                                | 125                                                     | 460                                                     | 520                     | 400                    | 260                    | 460                    | 18     | 26        | 240       | 5         | 10,6      | 267    | 3800                    |
| 250  | 225000                  | 100                                   | 380                                                     | 610                                                     | 480                     | 320                    | 545                    | 20                     | 33     | 300       | 5         | 10,6      | 461       | 6100   |                         |

## NOTES

1)  $T_{max} = 2 \times T_{KN}$   
» Refer to Selection page 7 to 11

2) Inner race overruns

3) Outer race overruns

Keyway to DIN 6885.1

» Refer to mounting and maintenance instructions  
page 12 to 13

## MOUNTING EXAMPLE

