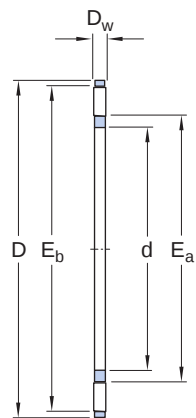


### AXK 6590



Needle roller and cage thrust assemblies are designed to accommodate heavy axial loads and peak loads in one direction. They provide a high degree of stiffness within a minimum axial space. In applications where the faces of adjacent machine components serve as raceways, needle roller thrust bearings take up no more space than a conventional thrust washer. The bearings can also be combined with bearing washers to create complete bearings.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require minimal axial space
- Can be combined with bearing washers



| Dimensions     |            |                                                         |
|----------------|------------|---------------------------------------------------------|
| d              | 65 mm      | Bore diameter                                           |
| D              | 90 mm      | Outside diameter                                        |
| D <sub>w</sub> | 3 mm       | Diameter roller                                         |
| E <sub>a</sub> | min. 70 mm | Raceway diameter (min.) roller and cage thrust assembly |
| E <sub>b</sub> | max. 88 mm | Raceway diameter (max.) roller and cage thrust assembly |

### Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 39 kN       |
| Basic static load rating  | C <sub>0</sub> | 255 kN      |
| Fatigue load limit        | P <sub>u</sub> | 31 kN       |
| Reference speed           |                | 2 000 r/min |
| Limiting speed            |                | 4 000 r/min |

Associated products

|                       |          |
|-----------------------|----------|
| Universal washer      | LS 6590  |
| Thin universal washer | AS 6590  |
| Shaft washer          | WS 81113 |
| Housing washer        | GS 81113 |

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table, values

DESIGN CONSIDERATIONS

- table

BEARING INTERFACES

- Seat tolerances for standard conditions