

KDN.KC100AR0

These angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in only one direction. One bearing series is based on a single cross section which remains constant as the bore diameter increases, leading to significant space and weight savings. The bearings are available with and inch boundary dimensions. Depending on the design and series, the bearings can be provided with chemical and corrosion resistance.



- Accommodate radial loads and axial loads in one direction
- Thin cross section
- Lightweight
- Low friction
- High stiffness
- High running accuracy



| Dimensions     |              |                                           |
|----------------|--------------|-------------------------------------------|
| d              | 254 mm       | Bore diameter                             |
| D              | 273.05 mm    | Outside diameter                          |
| H              | 9.525 mm     | Radial cross section                      |
| B              | 9.525 mm     | Width                                     |
| d <sub>1</sub> | ≈ 261.036 mm | Shoulder diameter inner ring              |
| D <sub>1</sub> | ≈ 266.014 mm | Shoulder diameter outer ring              |
| D <sub>4</sub> | ≈ 267.818 mm | Shoulder diameter outer ring              |
|                | 4.763 mm     | Ball diameter                             |
|                | 1.016 mm     | Maximum radius of shaft or housing fillet |

Calculation data

|                                               |                |         |
|-----------------------------------------------|----------------|---------|
| Dynamic load rating, Kaydon, radial direction | C <sub>k</sub> | 8.64 kN |
| Basic static load rating, radial direction    | C <sub>0</sub> | 27.3 kN |

|                                           |                 |         |
|-------------------------------------------|-----------------|---------|
| Basic static load rating, axial direction | C <sub>0a</sub> | 78.9 kN |
|-------------------------------------------|-----------------|---------|

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances, radial clearance and recommended fits:
  - Endurakote bearings: Class 1, Class 1, Class 3, Class 4
  - bearings: Class 1
  - other bearings: Class 1, Class 1, Class 3, Class 4, Class 6
- Materials

AGA BEARINGS