

KDN.KG100XP0

Four-point contact ball bearings can accommodate radial, axial and moment loads simultaneously. 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 or inch main dimensions. Depending on the design and series the bearings can be provided with chemical and corrosion resistance.



- Accommodate radial, axial and moment loads simultaneously
- Require considerably less axial space than two angular contact ball bearings
- Thin cross section
- Lightweight
- Low friction
- High stiffness
- High running accuracy



| Dimensions     |              |                                           |
|----------------|--------------|-------------------------------------------|
| d              | 254 mm       | Bore diameter                             |
| D              | 304.8 mm     | Outside diameter                          |
| H              | 25.4 mm      | Radial cross section                      |
| B              | 25.4 mm      | Width                                     |
| d <sub>1</sub> | ≈ 272.847 mm | Shoulder diameter inner ring              |
| D <sub>1</sub> | ≈ 285.953 mm | Shoulder diameter outer ring              |
|                | 12.7 mm      | Ball diameter                             |
|                | 2.032 mm     | Maximum radius of shaft or housing fillet |

Calculation data

Dynamic load rating, Kaydon, radial direction

C<sub>k</sub> 54 kN

Basic static load rating, radial direction

C<sub>0</sub> 80.3 kN

|                                           |                 |             |
|-------------------------------------------|-----------------|-------------|
| Basic static load rating, axial direction | C <sub>0a</sub> | 201 kN      |
| Basic dynamic load rating, moment         | C <sub>M</sub>  | 5.663 kN·m  |
| Basic static load rating, moment          | C <sub>0M</sub> | 11.222 kN·m |

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