

KDN.KC180XP0

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              | 457.2 mm     | Bore diameter                             |
| D              | 476.25 mm    | Outside diameter                          |
| H              | 9.525 mm     | Radial cross section                      |
| B              | 9.525 mm     | Width                                     |
| d <sub>1</sub> | ≈ 464.236 mm | Shoulder diameter inner ring              |
| D <sub>1</sub> | ≈ 469.214 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> | 14.7 kN |
| Basic static load rating, radial direction    | C <sub>0</sub> | 39.3 kN |

|                                           |          |            |
|-------------------------------------------|----------|------------|
| Basic static load rating, axial direction | $C_{0a}$ | 98.3 kN    |
| Basic dynamic load rating, moment         | $C_M$    | 2.566 kN·m |
| Basic static load rating, moment          | $C_{0M}$ | 9.173 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