

KDN.KB100XP0

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	269.875 mm	Outside diameter
H	7.938 mm	Radial cross section
B	7.938 mm	Width
d ₁	≈ 259.867 mm	Shoulder diameter inner ring
D ₁	≈ 263.982 mm	Shoulder diameter outer ring
	3.969 mm	Ball diameter
	1.016 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction	C _k	8.19 kN
Basic static load rating, radial direction	C ₀	18.6 kN

Basic static load rating, axial direction	C _{0a}	46.5 kN
Basic dynamic load rating, moment	C _M	0.805 kN·m
Basic static load rating, moment	C _{0M}	2.438 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