

KDN.KA090XP0

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	228.6 mm	Bore diameter
D	241.3 mm	Outside diameter
H	6.35 mm	Radial cross section
B	6.35 mm	Width
d ₁	≈ 233.324 mm	Shoulder diameter inner ring
D ₁	≈ 236.576 mm	Shoulder diameter outer ring
	3.175 mm	Ball diameter
	0.635 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction	C _k	5.39 kN
Basic static load rating, radial direction	C ₀	12.5 kN

Basic static load rating, axial direction	C_{0a}	31.2 kN
Basic dynamic load rating, moment	C_M	0.475 kN·m
Basic static load rating, moment	C_{0M}	1.468 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