

KDN.KC100XP0

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	273.05 mm	Outside diameter
H	9.525 mm	Radial cross section
B	9.525 mm	Width
d ₁	≈ 261.036 mm	Shoulder diameter inner ring
D ₁	≈ 266.014 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 _k	10.5 kN
Basic static load rating, radial direction	C ₀	22.2 kN

Basic static load rating, axial direction	C_{0a}	55.5 kN
Basic dynamic load rating, moment	C_M	1.04 kN·m
Basic static load rating, moment	C_{0M}	2.924 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