

KDN.KD100AR0

These angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in only one direction. 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 and inch boundary dimensions. Depending on the design and series, the bearings can be provided with chemical and corrosion resistance.



- Accommodate radial loads and axial loads in one direction
- Thin cross section
- Lightweight
- Low friction
- High stiffness
- High running accuracy



Dimensions		
d	254 mm	Bore diameter
D	279.4 mm	Outside diameter
H	12.7 mm	Radial cross section
B	12.7 mm	Width
d ₁	≈ 263.398 mm	Shoulder diameter inner ring
D ₁	≈ 270.002 mm	Shoulder diameter outer ring
D ₄	≈ 272.593 mm	Shoulder diameter outer ring
	6.35 mm	Ball diameter
	1.524 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction	C _k	13.2 kN
Basic static load rating, radial direction	C ₀	36.9 kN

Basic static load rating, axial direction	C_{0a}	106 kN
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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