

KDN.KG050XP0

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	127 mm	Bore diameter
D	177.8 mm	Outside diameter
H	25.4 mm	Radial cross section
B	25.4 mm	Width
d ₁	≈ 145.847 mm	Shoulder diameter inner ring
D ₁	≈ 158.953 mm	Shoulder diameter outer ring
	12.7 mm	Ball diameter
	2.032 mm	Maximum radius of shaft or housing fillet

Calculation data

Dynamic load rating, Kaydon, radial direction

C_k 39 kN

Basic static load rating, radial direction

C₀ 43.8 kN

Basic static load rating, axial direction	C_{0a}	110 kN
Basic dynamic load rating, moment	C_M	2.228 kN·m
Basic static load rating, moment	C_{0M}	3.339 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