

KDN.SC040XP0

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	101.6 mm	Bore diameter
D	120.65 mm	Outside diameter
H	9.525 mm	Radial cross section
B	9.525 mm	Width
d ₁	≈ 108.636 mm	Shoulder diameter inner ring
D ₁	≈ 113.614 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 6.3 kN

Basic static load rating, radial direction

C₀ 9.34 kN

Basic static load rating, axial direction	C _{0a}	23.4 kN
Basic dynamic load rating, moment	C _M	0.263 kN·m
Basic static load rating, moment	C _{0M}	0.52 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