

1320 K

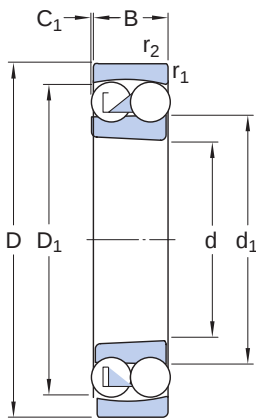


Self-aligning ball bearings, with a tapered bore, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection. The tapered bore facilitates ease of mounting via adapter sleeves or withdrawal sleeves.

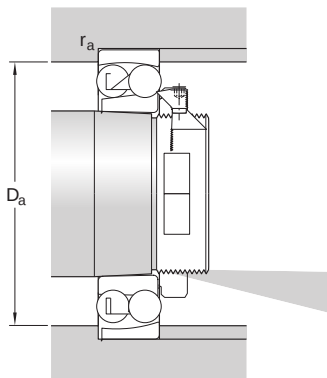
- Ease of mounting via adapter sleeves or withdrawal sleeves
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction

Bore type

Tapered 1:12



Dimensions		
d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	47 mm	Width
d ₁	≈ 136 mm	Shoulder diameter inner ring
D ₁	≈ 181.9 mm	Shoulder diameter outer ring
C ₁	2.469 mm	Protrusion of the balls from bearing side faces
r _{1,2}	min. 3 mm	Chamfer dimension



Abutment dimensions		
Da	max. 201 mm	Abutment diameter housing
ra	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	143 kN
Basic static load rating	C ₀	57 kN
Fatigue load limit	P _u	2.36 kN
Reference speed		6 000 r/min
Limiting speed		4 000 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k _r	0.045
Limiting value	e	0.24
Calculation factor	Y ₀	2.8
Calculation factor	Y ₁	2.6
Calculation factor	Y ₂	4.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, JS7
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits