

11209 TN9

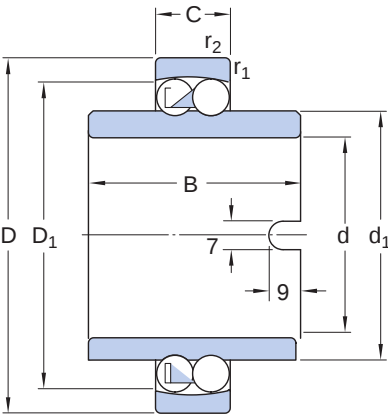
Self-aligning ball bearings, with extended inner ring, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing. The extended inner ring enables use of commercial grade shafting and axial location on the shaft by means of a slot at one end of the inner ring.



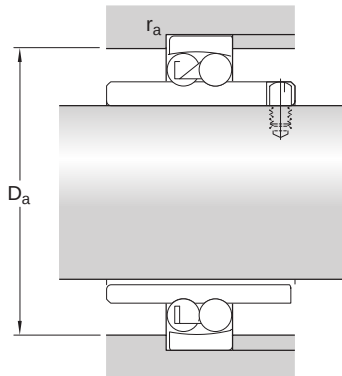
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Extended inner ring facilitates ease of mounting

Bore type

Cylindrical



Dimensions		
d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	58 mm	Width
C	19 mm	Width outer ring
d ₁	≈ 57.7 mm	Shoulder diameter inner ring
D ₁	≈ 72.5 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions		
Da	max. 78 mm	Abutment diameter housing
ra	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	22.9 kN
Basic static load rating	C ₀	7.8 kN
Fatigue load limit	P _u	0.4 kN
Limiting speed		4 500 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.04
Limiting value	e	0.21
Calculation factor	Y ₀	3.2
Calculation factor	Y ₁	3
Calculation factor	Y ₂	4.6

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits