

1222 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

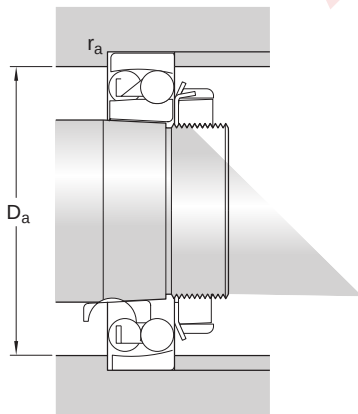
Bore type

Tapered 1:12



Dimensions

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	38 mm	Width
d ₁	≈ 140.35 mm	Shoulder diameter inner ring
D ₁	≈ 173.7 mm	Shoulder diameter outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension



Abutment dimensions

D _a	max. 188 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	88.4 kN
Basic static load rating	C ₀	39 kN
Fatigue load limit	P _u	1.6 kN
Reference speed		6 700 r/min
Limiting speed		4 300 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.04
Limiting value	e	0.17
Calculation factor	Y ₀	4
Calculation factor	Y ₁	3.7
Calculation factor	Y ₂	5.7

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits