

1226 M

Self-aligning ball bearing

Self-aligning ball bearings 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.

- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction



Overview

Dimensions

Bore diameter	130 mm
Outside diameter	230 mm
Width	46 mm

Performance

Basic dynamic load rating	127 kN
Basic static load rating	58.5 kN
Reference speed	5 600 r/min
Limiting speed	3 600 r/min

Properties

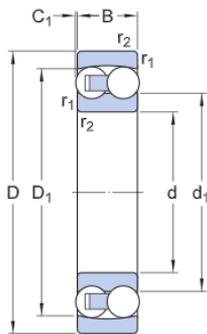
Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Cylindrical
Cage	Machined metal
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

Bore type

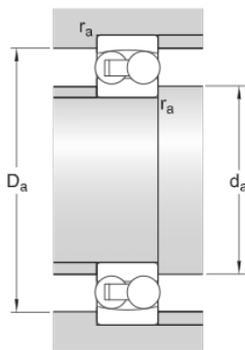
Cylindrical

Dimensions



d	130 mm	Bore diameter
D	230 mm	Outside diameter
B	46 mm	Width
d ₁	≈ 163 mm	Shoulder diameter inner ring
D ₁	≈ 201.4 mm	Shoulder diameter outer ring
C ₁	1.322 mm	Protrusion of the balls from bearing side faces
r _{1,2}	min. 3 mm	Chamfer dimension

Abutment dimensions



d _a	min. 144 mm	Abutment diameter shaft
D _a	max. 216 mm	Abutment diameter housing
r _a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	127 kN
Basic static load rating	C ₀	58.5 kN
Fatigue load limit	P _u	2.24 kN

Reference speed		5 600 r/min
Limiting speed		3 600 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

Mass

Mass bearing		8.3 kg
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