





Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

Overview

Dimensions

Bore diameter	100 mm
Outside diameter	180 mm
Width	46 mm

Performance

Basic dynamic load rating	380 kN
Basic static load rating	450 kN
Reference speed	4 000 r/min
Limiting speed	4 500 r/min
SKF performance class	SKF Explorer

Properties

Bearing part	Complete bearing
Axial displacement capability	In one direction
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Machined metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None



Relubrication feature Without

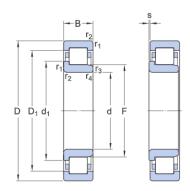
Logistics

Product net weight	5.5 kg
UNSPSC code	31171505



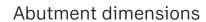
Technical Specification

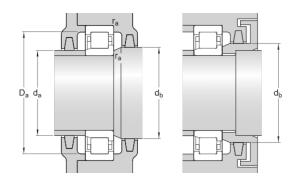
SKF performance class SKF Explorer



Dimensions

d	100 mm	Bore diameter
D	180 mm	Outside diameter
В	46 mm	Width
d_1	≈ 127 mm	Shoulder diameter of inner ring
D_1	≈ 155.6 mm	Shoulder diameter of outer ring
F	119 mm	Raceway diameter of inner ring
r _{1,2}	min. 2.1 mm	Chamfer dimension
r _{3,4}	min. 2.1 mm	Chamfer dimension
S	max. 2.5 mm	Permissible axial displacement





d _a min. 113 mm	Diameter of spacer sleeve
d _a max. 116 mm	Diameter of spacer sleeve
d _b min. 130 mm	Diameter of shaft abutment
D _a max. 167.5 mm	Diameter of housing abutment
r _a max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	380 kN
Basic static load rating	C ₀	450 kN



Fatigue load limit	P_{u}	54 kN
Reference speed		4 000 r/min
Limiting speed		4 500 r/min
Minimum load factor	k _r	0.2
Limiting value	е	0.3
Calculation factor	Υ	0.4

Mass

Mass	5.63 kg
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Associated products

Angle ring	HJ 2220 EC
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