

# NJ 226 ECJ Single row cylindrical roller bearing, NJ design

## 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	130 mm
Outside diameter	230 mm
Width	40 mm

### Performance

Basic dynamic load rating	415 kN
Basic static load rating	455 kN
Reference speed	3 200 r/min
Limiting speed	3 400 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	Sheet 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

# Technical Specification

SKF performance class

SKF Explorer

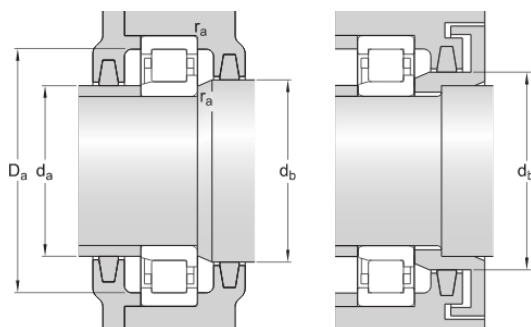


## Dimensions

d	130 mm	Bore diameter
D	230 mm	Outside diameter
B	40 mm	Width
$d_1$	≈ 164 mm	Shoulder diameter of inner ring
$D_1$	≈ 200.3 mm	Shoulder diameter of outer ring
F	153.5 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 3 mm	Chamfer dimension
$r_{3,4}$	min. 3 mm	Chamfer dimension
s	max. 2.1 mm	Permissible axial displacement

## Abutment dimensions

$d_a$	min. 144 mm	Diameter of spacer sleeve
$d_a$	max. 150 mm	Diameter of spacer sleeve
$d_b$	min. 167 mm	Diameter of shaft abutment
$D_a$	max. 215.4 mm	Diameter of housing abutment
$r_a$	max. 2.5 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	415 kN
Basic static load rating	$C_0$	455 kN

Fatigue load limit	$P_u$	51 kN
Reference speed		3 200 r/min
Limiting speed		3 400 r/min
Minimum load factor	$k_r$	0.15
Limiting value	$e$	0.2
Calculation factor	$Y$	0.6

## Mass

Mass		6.58 kg
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## Associated products

Angle ring		HJ 226 EC
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