

# NJ 236 ECML 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	180 mm
Outside diameter	320 mm
Width	52 mm

### Performance

Basic dynamic load rating	720 kN
Basic static load rating	850 kN
Reference speed	2 200 r/min
Limiting speed	3 600 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

# Technical Specification

SKF performance class

SKF Explorer

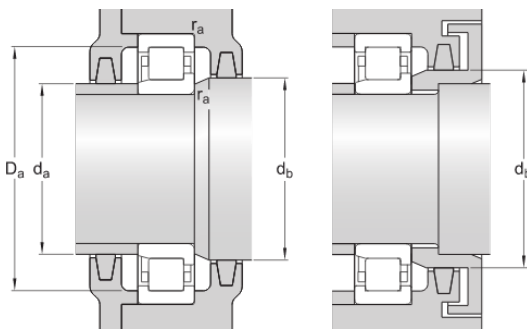


## Dimensions

d	180 mm	Bore diameter
D	320 mm	Outside diameter
B	52 mm	Width
$d_1$	≈ 230 mm	Shoulder diameter of inner ring
$D_1$	≈ 278.6 mm	Shoulder diameter of outer ring
F	217 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 4 mm	Chamfer dimension
$r_{3,4}$	min. 4 mm	Chamfer dimension
s	max. 2.9 mm	Permissible axial displacement

## Abutment dimensions

$d_a$	min. 198 mm	Diameter of spacer sleeve
$d_a$	max. 213 mm	Diameter of spacer sleeve
$d_b$	min. 234 mm	Diameter of shaft abutment
$D_a$	max. 302.2 mm	Diameter of housing abutment
$r_a$	max. 3 mm	Radius of fillet



## Calculation data

Basic dynamic load rating	C	720 kN
Basic static load rating	$C_0$	850 kN

Fatigue load limit	$P_u$	88 kN
Reference speed		2 200 r/min
Limiting speed		3 600 r/min
Minimum load factor	$k_r$	0.23
Limiting value	$e$	0.2
Calculation factor	$Y$	0.6

## Mass

Mass		18.5 kg
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## Associated products

Angle ring		HJ 236 EC
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