



# SKF NUP 218 ECPS Single row cylindrical roller bearing, NUP design

## Single row cylindrical roller bearing, NUP 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 integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. 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 both directions
- Separable design

## Overview

### Dimensions

Bore diameter	90 mm
Outside diameter	160 mm
Width	30 mm

## Performance

Basic dynamic load rating	208 kN
Basic static load rating	220 kN
Reference speed	4 500 r/min
Limiting speed	5 000 r/min
SKF performance class	SKF Explorer

### Properties

Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without

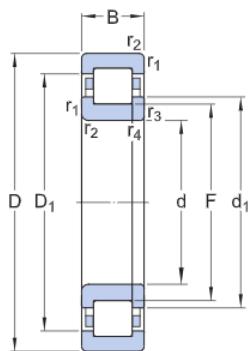
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

SKF performance class

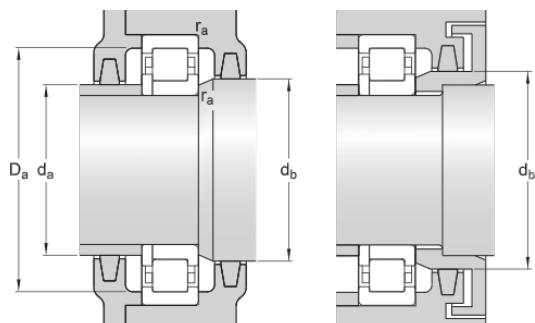
SKF Explorer

## Dimensions



d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	30 mm	Width
$d_1$	$\approx 114$ mm	Shoulder diameter of inner ring
$D_1$	$\approx 138.45$ mm	Shoulder diameter of outer ring
F	107 mm	Raceway diameter of inner ring
$r_{1,2}$	min. 2 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension of loose flange ring

## Abutment dimensions



$d_a$	min. 101 mm	Diameter of spacer sleeve
$d_b$	min. 117 mm	Diameter of shaft abutment
$D_a$	max. 149 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of fillet

## Calculation data

Basic dynamic load rating	C	208 kN
Basic static load rating	$C_0$	220 kN

Fatigue load limit	$P_u$	27 kN
Reference speed		4 500 r/min
Limiting speed		5 000 r/min
Minimum load factor	$k_r$	0.15
Limiting value	$e$	0.2
Calculation factor	$\gamma$	0.6

## Mass

Mass	2.44 kg
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