

# RNU 308 ECPSingle row cylindrical roller bearing, NU design, without inner ring

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Single row cylindrical roller bearings of the NU design without an inner ring consist of an outer ring with a roller and cage assembly. They are typically used in applications where hardened and ground raceways are provided on the shaft. Without the inner ring, a larger shaft diameter can be used to provide a stronger, stiffer shaft. The bearings can accommodate axial displacement in both directions, limited only by the width of the raceway on the shaft.

- High radial load carrying capacity
- Enable a stronger, stiffer shaft
- Low friction
- Long service life
- Accommodate axial displacement in both directions

## Overview

### Dimensions

Bore diameter	52 mm
Outside diameter	90 mm
Width	23 mm

### Performance

Basic dynamic load rating	93 kN
Basic static load rating	78 kN
Reference speed	8 000 r/min
Limiting speed	9 500 r/min
SKF performance class	SKF Explorer

### Properties

Bearing part	Bearing without inner ring
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Number of flanges, outer ring	2
Loose flange	None
Coating	Without

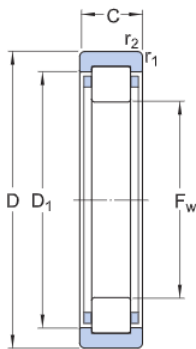
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

SKF performance class

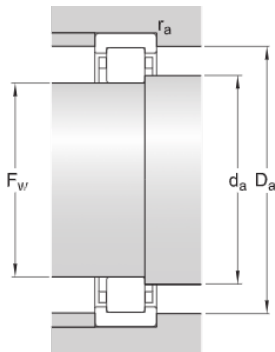
SKF Explorer

## Dimensions



$F_w$	52 mm	Diameter under rollers
$D$	90 mm	Outside diameter
$C$	23 mm	Width
$D_1$	$\approx 75.18$ mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.5 mm	Corner radius

## Abutment dimensions



$d_a$	max. 57.7 mm	Abutment diameter shaft
$D_a$	max. 81.8 mm	Abutment diameter housing
$r_a$	max. 1.5 mm	Fillet radius

## Calculation data

Basic dynamic load rating	$C$	93 kN
Basic static load rating	$C_0$	78 kN
Fatigue load limit	$P_u$	10.2 kN
Reference speed		8 000 r/min

Limiting speed		9 500 r/min
Calculation factor	$k_r$	0.15
Limiting value	$e$	0.2
Calculation factor	$Y$	0.6

## Mass

Mass bearing		0.5 kg
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