

# RNU 202 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	19.3 mm
Outside diameter	35 mm
Width	11 mm

### Performance

Basic dynamic load rating	12.5 kN
Basic static load rating	10.2 kN
Reference speed	22 000 r/min
Limiting speed	26 000 r/min

### 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
Tolerance class	Normal

Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

# Technical Specification

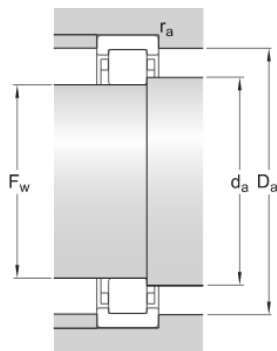


## Dimensions

$F_w$	19.3 mm	Diameter under rollers
$D$	35 mm	Outside diameter
$C$	11 mm	Width
$D_1$	$\approx 27.7$ mm	Shoulder diameter outer ring
$r_{1,2}$	min. 0.6 mm	Corner radius

## Abutment dimensions

$d_a$	max. 21.9 mm	Abutment diameter shaft
$D_a$	max. 31.3 mm	Abutment diameter housing
$r_a$	max. 0.6 mm	Fillet radius



## Calculation data

Basic dynamic load rating	$C$	12.5 kN
Basic static load rating	$C_0$	10.2 kN
Fatigue load limit	$P_u$	1.22 kN
Reference speed		22 000 r/min
Limiting speed		26 000 r/min
Calculation factor	$k_r$	0.15
Limiting value	$e$	0.2
Calculation factor	$Y$	0.6

## Mass

Mass bearing

0.037 kg

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