

# RNU 307 ECPSingle row cylinarical ° roller bearing, NU design, without inner ring

Single row cylindrical roller bearing, NU design, without inner ring

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	46.2 mm
Outside diameter	80 mm
Width	21 mm

### Performance

Basic dynamic load rating	75 kN
Basic static load rating	63 kN
Reference speed	9 500 r/min
Limiting speed	11 000 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

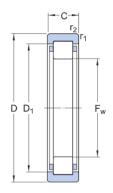


Sealing	Without
Lubricant	None
Relubrication feature	Without



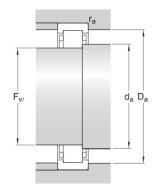
# **Technical Specification**

SKF performance class SKF Explorer



# Dimensions

D 80 mm Outside diameter C 21 mm Width $D_1 \approx 65.8 \text{ mm}$ Shoulder diameter outer ring
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r <sub>1,2</sub> min. 1.5 mm Corner radius



# Abutment dimensions

d <sub>a</sub> max. 51 mm	Abutment diameter shaft
D <sub>e max. 72.2 mm</sub>	Abutment diameter housing
r <sub>a</sub> max. 1.5 mm	Fillet radius

# Calculation data

Basic dynamic load rating	С	75 kN
Basic static load rating	$C_0$	63 kN
Fatigue load limit	$P_{u}$	8.15 kN
Reference speed		9 500 r/min



Limiting speed		11 000 r/min
Calculation factor	k <sub>r</sub>	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6

# Mass

Mass bearing	0.37 kg
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