

RNU 204Single 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	27 mm
Outside diameter	47 mm
Width	14 mm

Performance

Basic dynamic load rating	14.7 kN
Basic static load rating	12 kN
Reference speed	16 000 r/min
Limiting speed	19 000 r/min

Properties

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

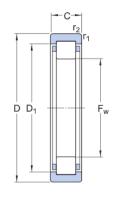


Lubricant None Without

Relubrication feature

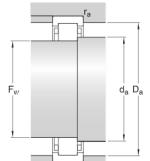


Technical Specification



Dimensions

$F_{\rm w}$	27 mm	Diameter under rollers
D	47 mm	Outside diameter
С	14 mm	Width
D_1	≈ 37.3 mm	Shoulder diameter outer ring
r _{1,2}	min. 1 mm	Corner radius



Abutment dimensions

d _a max. 29.94 mm	Abutment diameter shaft
D _{ε max. 41.7 mm}	Abutment diameter housing
r _a max.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	14.7 kN
Basic static load rating	C_0	12 kN
Fatigue load limit	P_{u}	1.5 kN
Reference speed		16 000 r/min
Limiting speed		19 000 r/min
Calculation factor	k _r	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6



Mass

Mass bearing 0.083 kg



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