

RNU 206 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	37.5 mm
Outside diameter	62 mm
Width	16 mm

Performance

Basic dynamic load rating	44 kN
Basic static load rating	36.5 kN
Reference speed	13 000 r/min
Limiting speed	14 000 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

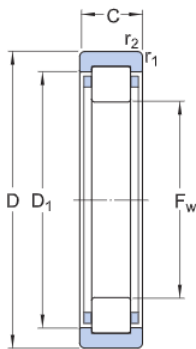
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

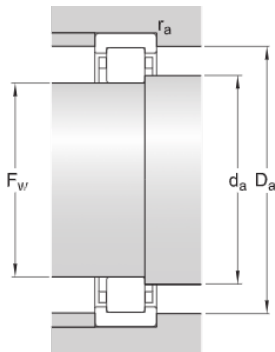
SKF Explorer

Dimensions



F_w	37.5 mm	Diameter under rollers
D	62 mm	Outside diameter
C	16 mm	Width
D_1	≈ 52.08 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1 mm	Corner radius

Abutment dimensions



d_a	max. 41.4 mm	Abutment diameter shaft
D_a	max. 55.9 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	44 kN
Basic static load rating	C_0	36.5 kN
Fatigue load limit	P_u	4.5 kN
Reference speed		13 000 r/min

Limiting speed		14 000 r/min
Calculation factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing		0.16 kg
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