



RNU 305 Single 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	35 mm
Outside diameter	62 mm
Width	17 mm

Performance

Basic dynamic load rating	28.6 kN
Basic static load rating	24.5 kN
Reference speed	12 000 r/min
Limiting speed	15 000 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
Tolerance class	Normal
Coating	Without

Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

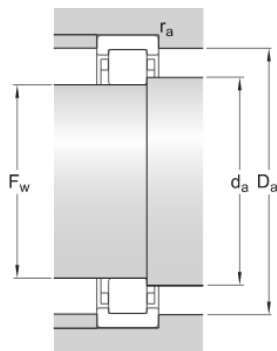


Dimensions

F_w	35 mm	Diameter under rollers
D	62 mm	Outside diameter
C	17 mm	Width
D_1	≈ 48.2 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.1 mm	Corner radius

Abutment dimensions

d_a	max. 39 mm	Abutment diameter shaft
D_a	max. 55.5 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	28.6 kN
Basic static load rating	C_0	24.5 kN
Fatigue load limit	P_u	3.05 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Calculation factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass bearing

0.18 kg

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