

RNU 305Single 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

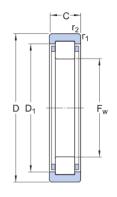
Bearing part	Bearing without inner ring
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Number of flanges, outer ring	2
Loose flange	None
Coating	Without
Sealing	Without



Lubricant None
Relubrication feature Without

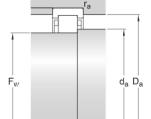


Technical Specification



Dimensions

F_{w}	35 mm	Diameter under rollers
D	62 mm	Outside diameter
С	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_{ε} max. 55.5 mm	Abutment diameter housing
r _a max.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	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	е	0.2
Calculation factor	Υ	0.6



Mass

Mass bearing 0.18 kg



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