



NUP 307 ECJ Single row cylindrical roller bearing, NUP design

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Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one integral flange and one loose flange ring on the inner ring, NUP design bearings can locate the shaft axially in both directions. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in both directions
- Separable design

Overview

Dimensions

Bore diameter	35 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

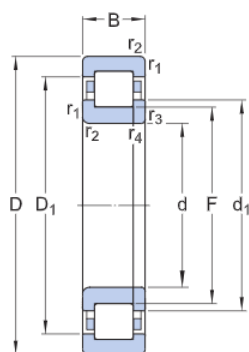
Bearing part	Complete bearing
Axial displacement capability	None
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without

Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

SKF Explorer

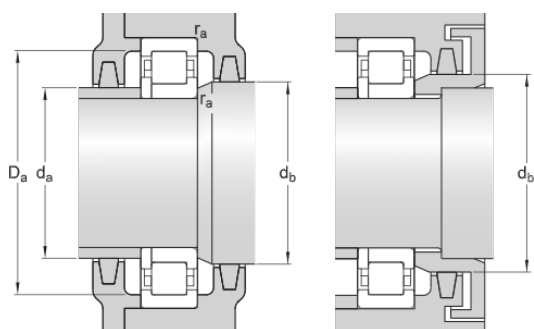


Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d ₁	≈ 51 mm	Shoulder diameter of inner ring
D ₁	≈ 65.8 mm	Shoulder diameter of outer ring
F	46.2 mm	Raceway diameter of inner ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1.1 mm	Chamfer dimension of loose flange ring

Abutment dimensions

d _a	min. 44 mm	Diameter of spacer sleeve
d _t	min. 53 mm	Diameter of shaft abutment
D _c	max. 72.2 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Radius of fillet



Calculation data

Basic dynamic load rating	C	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
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Mass

Mass		0.51 kg
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