



NUP 2314 ECPSingle 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	70 mm
Outside diameter	150 mm
Width	51 mm

Performance

Basic dynamic load rating	315 kN
Basic static load rating	325 kN
Reference speed	4 800 r/min
Limiting speed	5 600 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	Non-metallic
Number of flanges, outer ring	2
Number of flanges, inner ring	1
Loose flange	Inner ring loose flange
Radial internal clearance	CN
Coating	Without

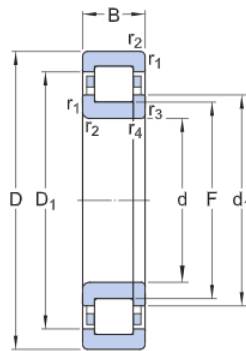
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

SKF performance class

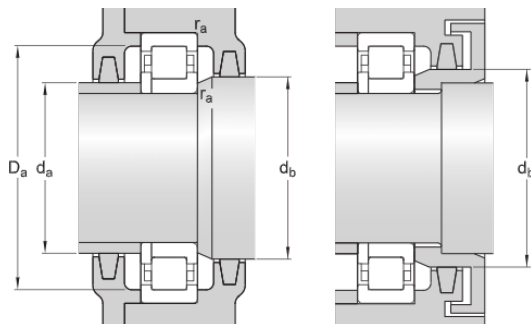
SKF Explorer

Dimensions



d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	51 mm	Width
d ₁	≈ 97.3 mm	Shoulder diameter of inner ring
D ₁	≈ 125.6 mm	Shoulder diameter of outer ring
F	89 mm	Raceway diameter of inner ring
r _{1,2}	min. 2.1 mm	Chamfer dimension
r _{3,4}	min. 2.1 mm	Chamfer dimension of loose flange ring

Abutment dimensions



d _a	min. 82 mm	Diameter of spacer sleeve
d _t	min. 100 mm	Diameter of shaft abutment
D _ε	max. 137.5 mm	Diameter of housing abutment
r _a	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	315 kN
Basic static load rating	C ₀	325 kN

Fatigue load limit	P_u	41.5 kN
Reference speed		4 800 r/min
Limiting speed		5 600 r/min
Minimum load factor	k_r	0.25
Limiting value	e	0.3
Calculation factor	Y	0.4

Mass

Mass		4.17 kg
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