



Image may differ from product. See technical specification for details.

NU 310 ECJ

Single row cylindrical roller bearing, NU design

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 no flanges on the inner ring, NU design bearings can accommodate axial displacement 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
- Accommodate axial displacement in both directions
- Separable design

Overview

Dimensions

Bore diameter	50 mm
Outside diameter	110 mm
Width	27 mm

Performance

Basic dynamic load rating	127 kN
Basic static load rating	112 kN
Reference speed	6 700 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

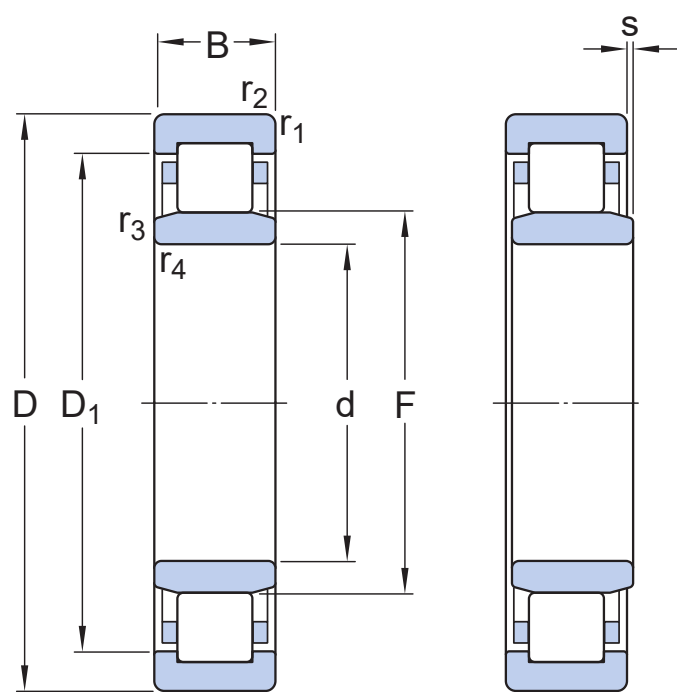
Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
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	0
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

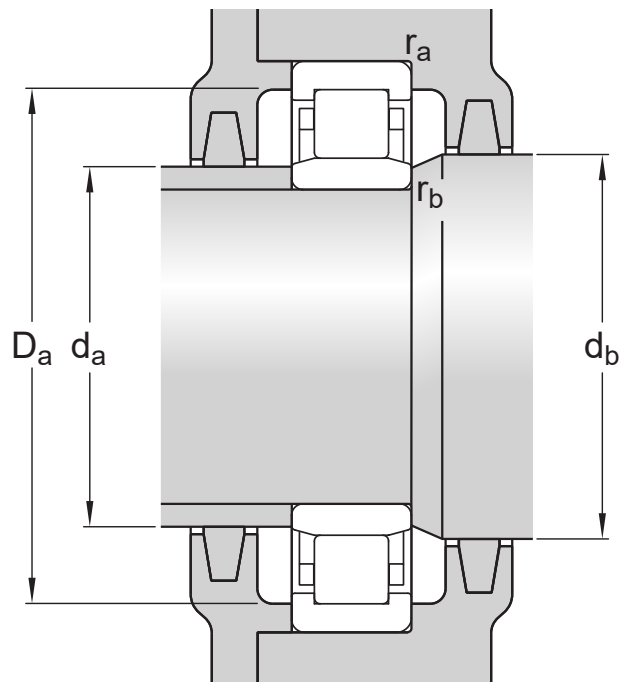
Product net weight	1.18 kg
eClass code	23-05-09-01
UNSPSC code	31171505

Technical specification



Dimensions

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
D ₁	≈ 91.4 mm	Shoulder diameter of outer ring
F	65 mm	Raceway diameter of inner ring
r _{1,2}	min. 2 mm	Chamfer dimension
r _{3,4}	min. 2 mm	Chamfer dimension
s	max. 1.9 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 60 mm	Diameter of spacer sleeve
d_a	max. 63 mm	Diameter of spacer sleeve
d_b	min. 67 mm	Diameter of shaft abutment
D_a	max. 99.6 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	127 kN
Basic static load rating	C_0	112 kN
Fatigue load limit	P_u	15 kN
Reference speed		6 700 r/min
Limiting speed		8 000 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Associated products

Compatible products

Recommended product

Angle ring (L-shaped thrust collar) for single row cylindrical roller bearings, NU or NJ design

[HJ 310 EC](#)

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