



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

NU 305 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	25 mm
Outside diameter	62 mm
Width	17 mm

Performance

Basic dynamic load rating	46.5 kN
Basic static load rating	36.5 kN
Reference speed	12 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

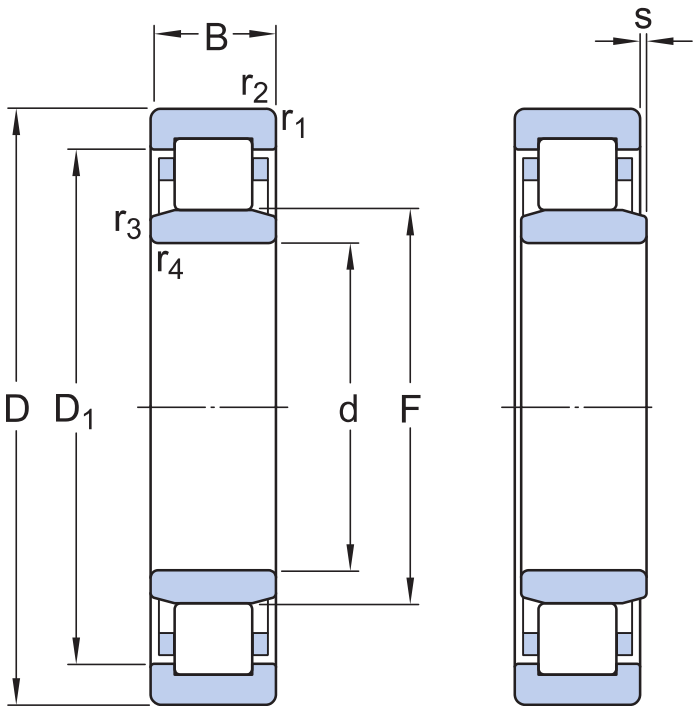
Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Number of flanges, outer ring	2
Number of flanges, inner ring	0
Loose flange	None
Radial internal clearance	CN
Tolerance class	Normal
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

Product net weight	0.245 kg
eClass code	23-05-09-01

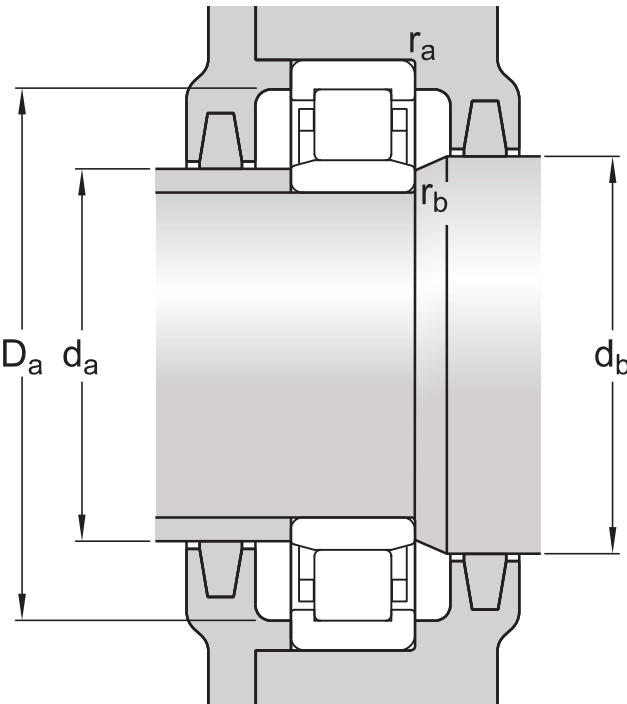
UNSPSC code	31171505
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Technical specification



Dimensions

d	25 mm	Bore diameter
D	62 mm	Outside diameter
B	17 mm	Width
D ₁	≈ 50.25 mm	Shoulder diameter of outer ring
F	34 mm	Raceway diameter of inner ring
r _{1,2}	min. 1.1 mm	Chamfer dimension
r _{3,4}	min. 1.1 mm	Chamfer dimension
s	max. 1.3 mm	Permissible axial displacement



Abutment dimensions

d _a	min. 31 mm	Diameter of spacer sleeve
d _a	max. 32.5 mm	Diameter of spacer sleeve
d _b	min. 36 mm	Diameter of shaft abutment
D _a	max. 54.9 mm	Diameter of housing abutment
r _a	max. 1 mm	Radius of fillet
r _b	max. 1 mm	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	46.5 kN
Basic static load rating	C ₀	36.5 kN
Fatigue load limit	P _u	4.55 kN
Reference speed		12 000 r/min
Limiting speed		15 000 r/min
Minimum load factor	k _r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Associated products

Angle ring	HJ 305 EC
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, Normal (inch)
- Radial internal clearance: cylindrical bore, tapered bore
- Axial internal clearance: NUP, NJ + HJ

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

Compatible products

Recommended product

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

[HJ 305 EC](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick SKF Product select Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool Oil Injection Method Program
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