



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

NU 2322 ECP

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	4.331 in
Outside diameter	9.449 in
Width	3.15 in

Performance

Basic dynamic load rating	175 351 lbf
Basic static load rating	202 328 lbf
Reference speed	3 000 r/min
Limiting speed	3 400 r/min
SKF performance class	SKF Explorer

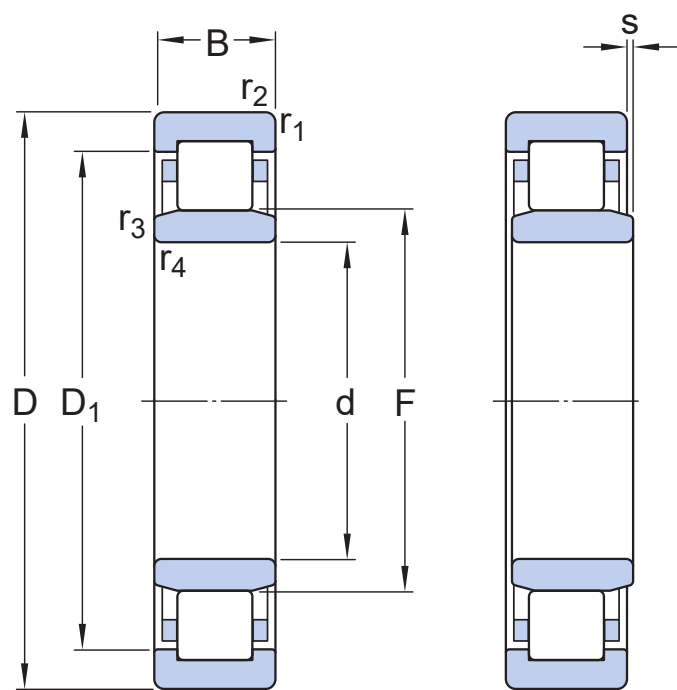
Properties

Bearing part	Complete bearing
Axial displacement capability	In both directions
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
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

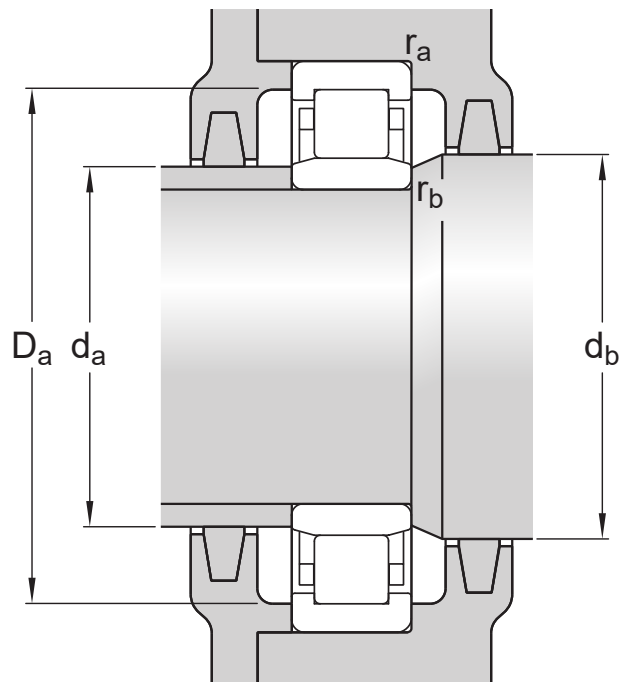
Product net weight	37.181 lb
eClass code	23-05-09-01
UNSPSC code	31171505

Technical specification



Dimensions

d	4.331 in	Bore diameter
D	9.449 in	Outside diameter
B	3.15 in	Width
D ₁	≈ 7.876 in	Shoulder diameter of outer ring
F	5.63 in	Raceway diameter of inner ring
r _{1,2}	min. 0.118 in	Chamfer dimension
r _{3,4}	min. 0.118 in	Chamfer dimension
s	max. 0.295 in	Permissible axial displacement



Abutment dimensions

d_a	min. 4.882 in	Diameter of spacer sleeve
d_a	max. 5.472 in	Diameter of spacer sleeve
d_b	min. 5.748 in	Diameter of shaft abutment
D_a	max. 8.866 in	Diameter of housing abutment
r_a	max. 0.098 in	Radius of fillet
r_b	max. 0.098 in	Radius of fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	175 351 lbf
Basic static load rating	C_0	202 328 lbf
Fatigue load limit	P_u	22 931 lbf
Reference speed		3 000 r/min
Limiting speed		3 400 r/min

Associated products

Angle ring	HJ 2322 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 2322 EC](#)

More Information

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