



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

## NU 208 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	1.575 in
Outside diameter	3.15 in
Width	0.709 in

## Performance

Basic dynamic load rating	13 938 lbf
Basic static load rating	11 915 lbf
Reference speed	9 500 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

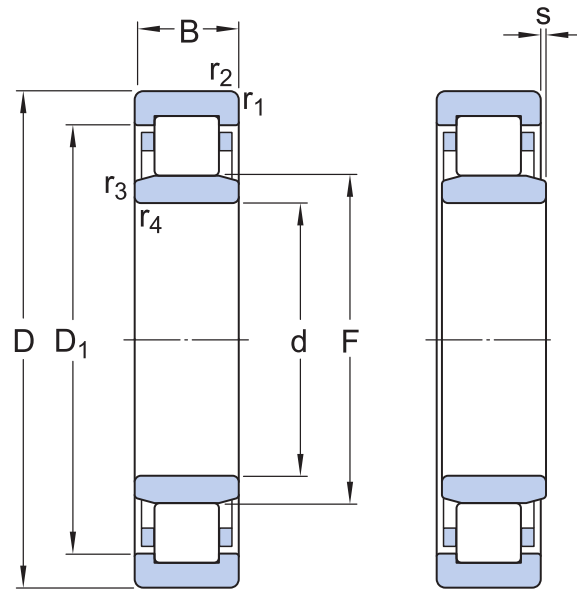
## Properties

Bearing part	Complete bearing
Axial displacement capability	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

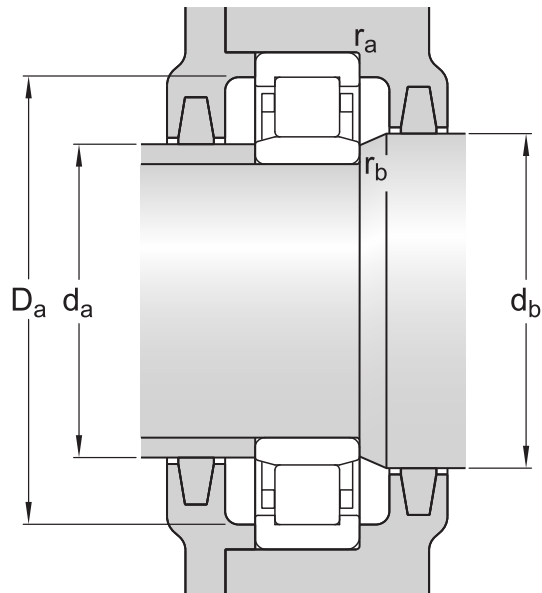
Product net weight	0.8091 lb
UNSPSC code	31171505

## Technical specification



## Dimensions

$d$	1.575 in	Bore diameter
$D$	3.15 in	Outside diameter
$B$	0.709 in	Width
$D_1$	$\approx 2.654$ in	Shoulder diameter of outer ring
$F$	1.949 in	Raceway diameter of inner ring
$r_{1,2}$	min. 0.043 in	Chamfer dimension
$r_{3,4}$	min. 0.043 in	Chamfer dimension
$s$	max. 0.055 in	Permissible axial displacement



## Abutment dimensions

$d_a$	min. 1.85 in	Diameter of spacer sleeve
$d_a$	max. 1.89 in	Diameter of spacer sleeve
$d_b$	min. 2.008 in	Diameter of shaft abutment
$D_a$	max. 2.866 in	Diameter of housing abutment
$r_a$	max. 0.039 in	Radius of fillet
$r_b$	max. 0.039 in	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	13 938 lbf
Basic static load rating	$C_0$	11 915 lbf
Fatigue load limit	$P_u$	1 506 lbf
Reference speed		9 500 r/min
Limiting speed		11 000 r/min
Minimum load factor	$k_f$	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

## Associated products

## Compatible products

### Recommended product

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

[HJ 208 EC](#)

## More Information

### Product details

[Designs and variants](#)

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[General bearing specifications](#)

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[Loads](#)

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[Temperature limits](#)

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[Permissible speed](#)

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[Design considerations](#)

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[Designation system](#)

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### Engineering information

[Principles of rolling bearing selection](#)

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[General bearing knowledge](#)

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[Bearing selection process](#)

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[Bearing failure and how to prevent it](#)

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### Tools

[SimPro Quick](#)

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[SKF Product select](#)

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[Bearing Frequency Calculator](#)

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[LubeSelect for SKF greases](#)

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[Heater selection tool](#)

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[Oil Injection Method Program](#)

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