



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

## NU 2207 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	1.378 in
Outside diameter	2.835 in
Width	0.906 in

## Performance

Basic dynamic load rating	15 624 lbf
Basic static load rating	14 163 lbf
Reference speed	11 000 r/min
Limiting speed	12 000 r/min
SKF performance class	SKF Explorer

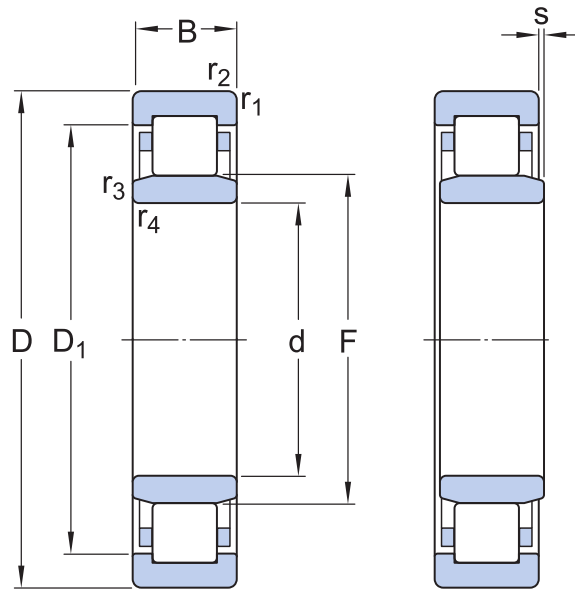
## Properties

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

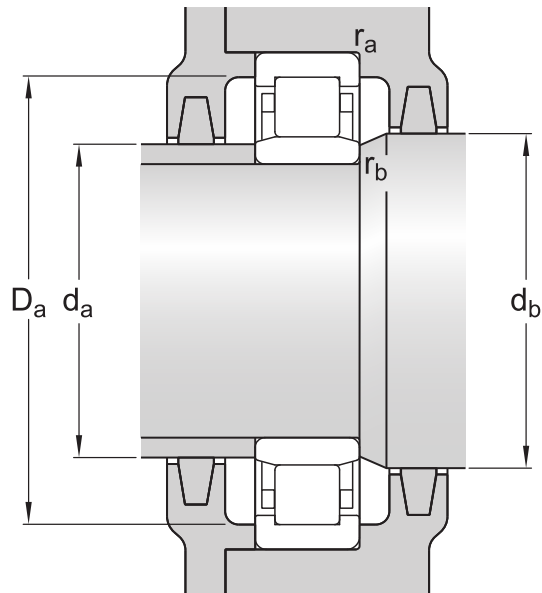
Product net weight	0.8796 lb
eClass code	23-05-09-01
UNSPSC code	31171505

## Technical specification



## Dimensions

$d$	1.378 in	Bore diameter
$D$	2.835 in	Outside diameter
$B$	0.906 in	Width
$D_1$	$\approx 2.37$ in	Shoulder diameter of outer ring
$F$	1.732 in	Raceway diameter of inner ring
$r_{1,2}$	min. 0.043 in	Chamfer dimension
$r_{3,4}$	min. 0.024 in	Chamfer dimension
$s$	max. 0.11 in	Permissible axial displacement



## Abutment dimensions

$d_a$	min. 1.567 in	Diameter of spacer sleeve
$d_a$	max. 1.661 in	Diameter of spacer sleeve
$d_b$	min. 1.811 in	Diameter of shaft abutment
$D_a$	max. 2.563 in	Diameter of housing abutment
$r_a$	max. 0.039 in	Radius of fillet
$r_b$	max. 0.024 in	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	15 624 lbf
Basic static load rating	$C_0$	14 163 lbf
Fatigue load limit	$P_u$	1 832 lbf
Reference speed		11 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	$k_f$	0.2
Limiting value	e	0.3
Calculation factor	Y	0.4

## 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

## 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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