



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

# **NU 228 ECM**

### 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	140 mm
Outside diameter	250 mm
Width	42 mm

### Performance

Basic dynamic load rating	450 kN
Basic static load rating	510 kN
Reference speed	2 800 r/min
Limiting speed	3 200 r/min
SKF performance class	SKF Explorer

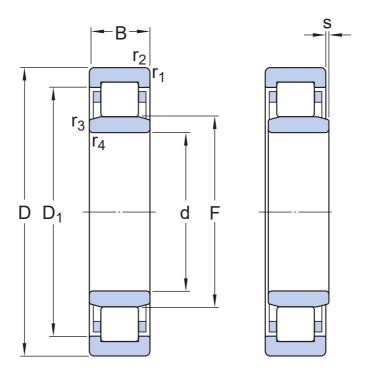
## **Properties**

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

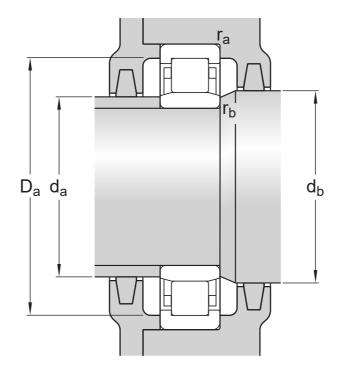
Product net weight	9.05 kg
eClass code	23-05-09-01
UNSPSC code	31171505

# **Technical specification**



## Dimensions

d	140 mm	Bore diameter
D	250 mm	Outside diameter
В	42 mm	Width
$D_1$	≈ 215.78 mm	Shoulder diameter of outer ring
F	169 mm	Raceway diameter of inner ring
r <sub>1,2</sub>	min. 3 mm	Chamfer dimension
r <sub>3,4</sub>	min. 3 mm	Chamfer dimension
s	max. 2.5 mm	Permissible axial displacement



## Abutment dimensions

da	min. 154 mm	Diameter of spacer sleeve
da	max. 165 mm	Diameter of spacer sleeve
$d_b$	min. 172 mm	Diameter of shaft abutment
Da	max. 235 mm	Diameter of housing abutment
ra	max. 2.5 mm	Radius of fillet
r <sub>b</sub>	max. 2.5 mm	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	450 kN
Basic static load rating	$C_0$	510 kN
Fatigue load limit	Pu	57 kN
Reference speed		2 800 r/min
Limiting speed		3 200 r/min
Minimum load factor	k <sub>r</sub>	0.15
Limiting value	е	0.2
Calculation factor	Υ	0.6

## Associated products

Angle ring HJ 228 EC

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



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