

NU 324 ECM - Cylindrical roller bearings

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

# **NU 324 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	120 mm
Outside diameter	260 mm
Width	55 mm

### Performance

Basic dynamic load rating	610 kN
Basic static load rating	620 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	14.6 kg
eClass code	23-05-09-01

UNSPSC code

31171505

# **Technical specification**

Dimensions - NU 324 ECM

## **Dimensions**

d	120 mm	Bore diameter
D	260 mm	Outside diameter
В	55 mm	Width
D <sub>1</sub>	≈ 217.65 mm	Shoulder diameter of outer ring
F	154 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. 3.7 mm	Permissible axial displacement

# Abutment dimensions - NU 324 ECM

### **Abutment dimensions**

d <sub>a</sub>	min. 134 mm	Diameter of spacer sleeve
d <sub>a</sub>	max. 150 mm	Diameter of spacer sleeve
d <sub>b</sub>	min. 157 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 244.8 mm	Diameter of housing abutment
r <sub>a</sub>	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	610 kN
Basic static load rating	C <sub>0</sub>	620 kN
Fatigue load limit	P <sub>u</sub>	69.5 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 324 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

## **Compatible products**

## Recommended product

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

HJ 324 EC

## **More Information**

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



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