

# NJ 2322 ECP



## Single row cylindrical roller bearing, NJ 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 one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. 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
- Locate the shaft axially in one direction
- Separable design

## Overview

### Dimensions

|                  |        |
|------------------|--------|
| Bore diameter    | 110 mm |
| Outside diameter | 240 mm |
| Width            | 80 mm  |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 780 kN       |
| Basic static load rating  | 900 kN       |
| 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 one direction |
| 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        | 1                |
| Loose flange                         | None             |
| Radial internal clearance            | CN               |
| Tolerance class                      | Normal           |
| Coating                              | Without          |
| Sealing                              | Without          |
| Lubricant                            | None             |

Relubrication feature

Without

## Logistics

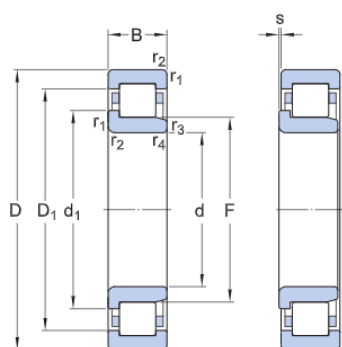
Product net weight 17.1 kg

UNSPSC code 31171505

# Technical Specification

SKF performance class

SKF Explorer

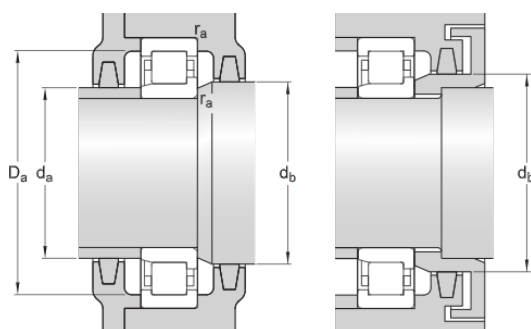


## Dimensions

|                  |             |                                 |
|------------------|-------------|---------------------------------|
| d                | 110 mm      | Bore diameter                   |
| D                | 240 mm      | Outside diameter                |
| B                | 80 mm       | Width                           |
| d <sub>1</sub>   | ≈ 155 mm    | Shoulder diameter of inner ring |
| D <sub>1</sub>   | ≈ 200.05 mm | Shoulder diameter of outer ring |
| F                | 143 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. 7.5 mm | Permissible axial displacement  |

## Abutment dimensions

|                |               |                              |
|----------------|---------------|------------------------------|
| d <sub>a</sub> | min. 124 mm   | Diameter of spacer sleeve    |
| d <sub>a</sub> | max. 139 mm   | Diameter of spacer sleeve    |
| d <sub>b</sub> | min. 159 mm   | Diameter of shaft abutment   |
| D <sub>a</sub> | max. 225.2 mm | Diameter of housing abutment |
| r <sub>a</sub> | max. 2.5 mm   | Radius of fillet             |



## Calculation data

|                           |                |        |
|---------------------------|----------------|--------|
| Basic dynamic load rating | C              | 780 kN |
| Basic static load rating  | C <sub>0</sub> | 900 kN |

|                     |       |             |
|---------------------|-------|-------------|
| Fatigue load limit  | $P_u$ | 102 kN      |
| Reference speed     |       | 3 000 r/min |
| Limiting speed      |       | 3 400 r/min |
| Minimum load factor | $k_r$ | 0.25        |
| Limiting value      | $e$   | 0.3         |
| Calculation factor  | $Y$   | 0.4         |

## Mass

|      |  |         |
|------|--|---------|
| Mass |  | 16.9 kg |
|------|--|---------|

## Associated products

|            |  |            |
|------------|--|------------|
| Angle ring |  | HJ 2322 EC |
|------------|--|------------|

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