

NU 230 ECJ Single row cylindrical roller bearing, NU design

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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 | 150 mm |
| Outside diameter | 270 mm |
| Width | 45 mm |

Performance

| | |
|---------------------------|--------------|
| Basic dynamic load rating | 510 kN |
| Basic static load rating | 600 kN |
| Reference speed | 2 600 r/min |
| Limiting speed | 2 800 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 | Sheet 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

Technical Specification

SKF performance class

SKF Explorer



Dimensions

| | | |
|-----------|---------------------|---------------------------------|
| d | 150 mm | Bore diameter |
| D | 270 mm | Outside diameter |
| B | 45 mm | Width |
| D_1 | ≈ 232.35 mm | Shoulder diameter of outer ring |
| F | 182 mm | Raceway diameter of inner ring |
| $r_{1,2}$ | min. 3 mm | Chamfer dimension |
| $r_{3,4}$ | min. 3 mm | Chamfer dimension |
| s | max. 2.5 mm | Permissible axial displacement |

Abutment dimensions

| | | |
|-------|---------------|------------------------------|
| d_a | min. 164 mm | Diameter of spacer sleeve |
| d_a | max. 178 mm | Diameter of spacer sleeve |
| d_b | min. 186 mm | Diameter of shaft abutment |
| D_a | max. 254.6 mm | Diameter of housing abutment |
| r_a | max. 2.5 mm | Radius of fillet |
| r_b | max. 2.5 mm | Radius of fillet |



Calculation data

| | | |
|---------------------------|-------|--------|
| Basic dynamic load rating | C | 510 kN |
| Basic static load rating | C_0 | 600 kN |
| Fatigue load limit | P_u | 64 kN |

| | | |
|---------------------|----------|-------------|
| Reference speed | | 2 600 r/min |
| Limiting speed | | 2 800 r/min |
| Minimum load factor | k_r | 0.15 |
| Limiting value | e | 0.2 |
| Calculation factor | γ | 0.6 |

Mass

| | | |
|------|--|---------|
| Mass | | 10.3 kg |
|------|--|---------|

Associated products

| | | |
|------------|--|-----------|
| Angle ring | | HJ 230 EC |
|------------|--|-----------|

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