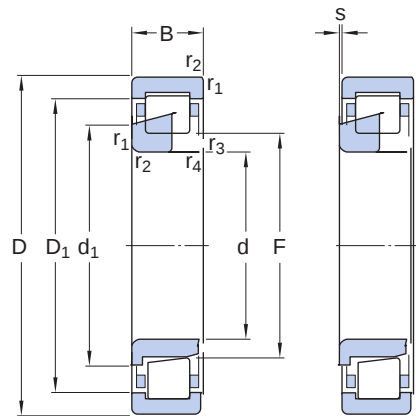


NJ 2224 ECJ

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



| Dimensions       |             |                                 |
|------------------|-------------|---------------------------------|
| d                | 120 mm      | Bore diameter                   |
| D                | 215 mm      | Outside diameter                |
| B                | 58 mm       | Width                           |
| d <sub>1</sub>   | ≈ 153 mm    | Shoulder diameter of inner ring |
| D <sub>1</sub>   | ≈ 186.95 mm | Shoulder diameter of outer ring |
| F                | 143.5 mm    | Raceway diameter of inner ring  |
| r <sub>1,2</sub> | min. 2.1 mm | Chamfer dimension               |
| r <sub>3,4</sub> | min. 2.1 mm | Chamfer dimension               |
| s                | max. 3.8 mm | Permissible axial displacement  |



| Abutment dimensions |             |                            |
|---------------------|-------------|----------------------------|
| d <sub>a</sub>      | min. 132 mm | Diameter of spacer sleeve  |
| d <sub>a</sub>      | max. 140 mm | Diameter of spacer sleeve  |
| d <sub>b</sub>      | min. 156 mm | Diameter of shaft abutment |

|       |               |                              |
|-------|---------------|------------------------------|
| $D_a$ | max. 201.6 mm | Diameter of housing abutment |
| $r_a$ | max. 2 mm     | Radius of fillet             |

## Calculation data

|                           |       |              |
|---------------------------|-------|--------------|
| AGA performance class     |       | AGA Explorer |
| Basic dynamic load rating | C     | 520 kN       |
| Basic static load rating  | $C_0$ | 630 kN       |
| Fatigue load limit        | $P_u$ | 72 kN        |
| Reference speed           |       | 3 400 r/min  |
| Limiting speed            |       | 3 600 r/min  |
| Minimum load factor       | $k_r$ | 0.2          |
| Limiting value            | e     | 0.3          |
| Calculation factor        | Y     | 0.4          |

## Associated products

|            |            |
|------------|------------|
| Angle ring | HJ 2224 EC |
|------------|------------|

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), 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