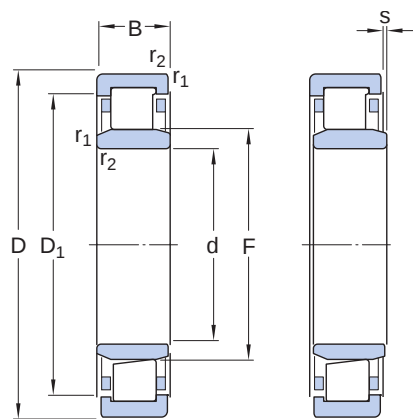


NU 344 M

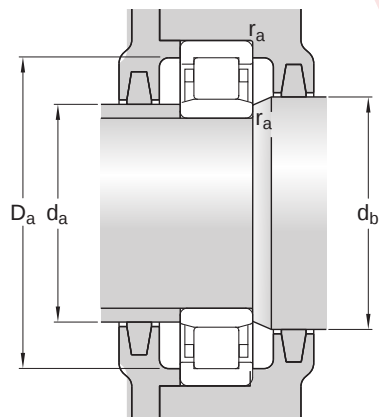
Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. An important feature is the separable 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



| Dimensions       |             |                                 |
|------------------|-------------|---------------------------------|
| d                | 220 mm      | Bore diameter                   |
| D                | 460 mm      | Outside diameter                |
| B                | 88 mm       | Width                           |
| D <sub>1</sub>   | ≈ 371 mm    | Shoulder diameter of outer ring |
| F                | 284 mm      | Raceway diameter of inner ring  |
| r <sub>1,2</sub> | min. 5 mm   | Chamfer dimension               |
| s                | max. 5.2 mm | Permissible axial displacement  |



| Abutment dimensions |             |                              |
|---------------------|-------------|------------------------------|
| d <sub>a</sub>      | min. 240 mm | Diameter of spacer sleeve    |
| d <sub>a</sub>      | max. 277 mm | Diameter of spacer sleeve    |
| d <sub>b</sub>      | min. 288 mm | Diameter of shaft abutment   |
| D <sub>a</sub>      | max. 440 mm | Diameter of housing abutment |
| r <sub>a</sub>      | max. 4 mm   | Radius of fillet             |

## Calculation data

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 1 210 kN    |
| Basic static load rating  | C <sub>0</sub> | 1 630 kN    |
| Fatigue load limit        | P <sub>u</sub> | 156 kN      |
| Reference speed           |                | 1 500 r/min |
| Limiting speed            |                | 1 700 r/min |
| Minimum load factor       | k <sub>r</sub> | 0.15        |
| Limiting value            | e              | 0.2         |
| Calculation factor        | Y              | 0.6         |

## 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