

316019

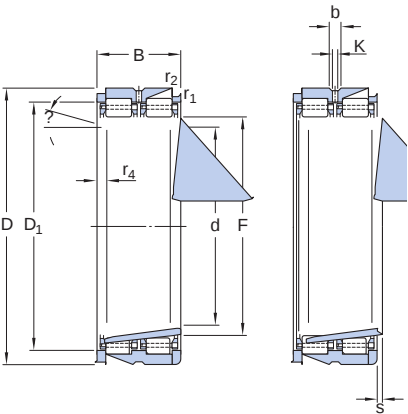


Double row cylindrical roller bearings are designed to accommodate high to very high radial loads in combination with medium to high speeds. The NR assortment includes many designs and variants, such as standard and full complement bearings and also greased and sealed bearings. Depending on the configuration of the outer and inner rings, the bearings are available in locating as well as non-locating designs.

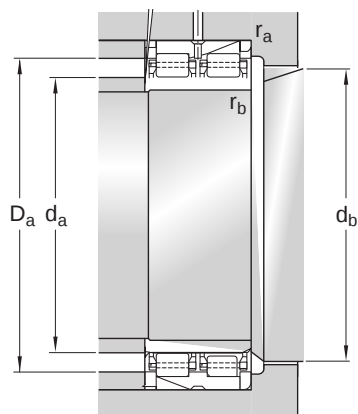
- High to very high radial load carrying capacity
- Low friction
- Long service life

Design variant/feature

NNU.4/C4W33WI



| Dimensions       |             |                                                                                                   |
|------------------|-------------|---------------------------------------------------------------------------------------------------|
| d                | 410 mm      | Bore diameter                                                                                     |
| D                | 600 mm      | Outside diameter                                                                                  |
| B                | 220 mm      | Overall bearing width                                                                             |
| D <sub>1</sub>   | ≈ 540 mm    | Shoulder diameter outer ring                                                                      |
| F                | 460 mm      | Raceway diameter inner ring                                                                       |
| b                | 16.7 mm     | Width of annular groove                                                                           |
| K                | 9 mm        | Diameter lubrication hole                                                                         |
| r <sub>1,2</sub> | min. 5 mm   | Chamfer dimension outer ring                                                                      |
| r <sub>3,4</sub> | min. 13 mm  | Chamfer dimension inner ring                                                                      |
| α                | 20 °        | Chamfer angle inner ring                                                                          |
| s                | max. 6.3 mm | Permissible axial displacement from the normal position of one bearing ring relative to the other |



### Abutment dimensions

|       |             |                                           |
|-------|-------------|-------------------------------------------|
| $d_a$ | min. 430 mm | Abutment diameter spacer sleeve           |
| $d_a$ | max. 456 mm | Abutment diameter spacer sleeve           |
| $d_b$ | min. 465 mm | Abutment diameter shaft                   |
| $D_a$ | max. 580 mm | Abutment diameter spacer sleeve / housing |
| $r_a$ | max. 4 mm   | Fillet radius                             |
| $r_b$ | max. 4 mm   | Fillet radius                             |

### Calculation data

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 3 800 kN    |
| Basic static load rating  | $C_0$ | 8 650 kN    |
| Fatigue load limit        | $P_u$ | 720 kN      |
| Reference speed           |       | 750 r/min   |
| Limiting speed            |       | 1 100 r/min |
| Calculation factor        | $k_r$ | 0.33        |

### Tolerances and clearances

#### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Radial internal clearance: cylindrical bore, tapered bore

#### BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit