

## NU 12/500 MA

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                | 500 mm       | Bore diameter                   |
| D                | 920 mm       | Outside diameter                |
| B                | 185 mm       | Width                           |
| D <sub>1</sub>   | ≈ 780 mm     | Shoulder diameter of outer ring |
| F                | 603.1 mm     | Raceway diameter of inner ring  |
| r <sub>1,2</sub> | min. 7.5 mm  | Chamfer dimension               |
| s                | max. 13.9 mm | Permissible axial displacement  |



| Abutment dimensions |             |                              |
|---------------------|-------------|------------------------------|
| da                  | min. 532 mm | Diameter of spacer sleeve    |
| da                  | max. 593 mm | Diameter of spacer sleeve    |
| db                  | min. 610 mm | Diameter of shaft abutment   |
| Da                  | max. 888 mm | Diameter of housing abutment |
| ra                  | max. 6 mm   | Radius of fillet             |

## Calculation data

|                           |                |           |
|---------------------------|----------------|-----------|
| Basic dynamic load rating | C              | 5 280 kN  |
| Basic static load rating  | C <sub>0</sub> | 8 500 kN  |
| Fatigue load limit        | P <sub>u</sub> | 620 kN    |
| Reference speed           |                | 670 r/min |
| Limiting speed            |                | 950 r/min |
| Minimum load factor       | k <sub>r</sub> | 0.17      |
| Limiting value            | e              | 0.3       |
| Calculation factor        | Y              | 0         |

## 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