

## 81164 M

Single row cylindrical roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. They provide a high degree of stiffness and require little axial space. They are mainly used in applications where thrust ball bearings do not have sufficient load carrying capacity. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.



- High axial load carrying capacity
- High stiffness
- Long service life
- Require little axial space
- Separable design



| Dimensions       |           |                                  |
|------------------|-----------|----------------------------------|
| d                | 320 mm    | Bore diameter                    |
| D                | 400 mm    | Outside diameter                 |
| H                | 63 mm     | Height                           |
| d <sub>1</sub>   | 396 mm    | Outside diameter shaft washer    |
| D <sub>1</sub>   | 324 mm    | Bore diameter housing washer     |
| B                | 19 mm     | Height shaft washer              |
| r <sub>1,2</sub> | min. 2 mm | Chamfer dimension housing washer |



| Abutment dimensions |             |                           |
|---------------------|-------------|---------------------------|
| d <sub>a</sub>      | min. 394 mm | Abutment diameter shaft   |
| D <sub>a</sub>      | max. 334 mm | Abutment diameter housing |
| r <sub>a</sub>      | max. 2 mm   | Fillet radius             |

## Calculation data

|                           |                |           |
|---------------------------|----------------|-----------|
| Basic dynamic load rating | C              | 880 kN    |
| Basic static load rating  | C <sub>0</sub> | 4 650 kN  |
| Fatigue load limit        | P <sub>u</sub> | 345 kN    |
| Reference speed           |                | 400 r/min |
| Limiting speed            |                | 800 r/min |
| Minimum axial load factor | A              | 1.73      |

## Included products

|                                 |           |
|---------------------------------|-----------|
| Roller and cage thrust assembly | K 81164 M |
| Shaft washer                    | WS 81164  |
| Housing washer                  | GS 81164  |

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: table, table, values

### DESIGN CONSIDERATIONS

- table

### BEARING INTERFACES

- Seat tolerances for standard conditions