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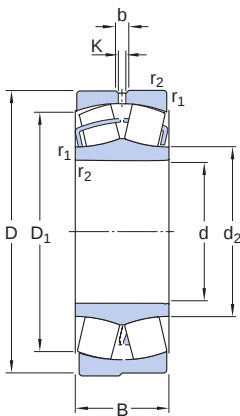


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. This variant is optimized for use in continuous casters in the metals industry. The design includes features to facilitate relubrication. The bearings are developed for very slow rotation speed.

- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance
- Suitable only for very low speed

Bore type

Cylindrical



| Dimensions        |                 |                                                |
|-------------------|-----------------|------------------------------------------------|
| d                 | 140 mm          | Bore diameter                                  |
| t <sub>Δdmp</sub> | -0.025 – 0.0 mm | Deviation limits of mid-range bore diameter    |
| D                 | 225 mm          | Outside diameter                               |
| t <sub>ΔDmp</sub> | -0.03 – 0.0 mm  | Deviation limits of mid-range outside diameter |
| B                 | 85 mm           | Width                                          |
| t <sub>ΔBs</sub>  | -0.08 – 0.0 mm  | Deviation limits of ring width                 |
| d <sub>2</sub>    | ≈ 156 mm        | Shoulder diameter of inner ring                |
| D <sub>1</sub>    | ≈ 193 mm        | Shoulder/recess diameter of outer ring         |
| b                 | 8.3 mm          | Width of lubrication groove                    |
| K                 | 4.5 mm          | Diameter of lubrication hole                   |
| r <sub>1,2</sub>  | min. 2.1 mm     | Chamfer dimension                              |
| Normal            |                 | ISO tolerance class for dimensions             |



### Abutment dimensions

|       |             |                              |
|-------|-------------|------------------------------|
| $d_a$ | min. 152 mm | Diameter of shaft abutment   |
| $D_a$ | max. 213 mm | Diameter of housing abutment |
| $r_a$ | max. 2 mm   | Radius of fillet             |

### Calculation data

|                          |       |          |
|--------------------------|-------|----------|
| Basic static load rating | $C_0$ | 1 160 kN |
| Limiting speed           |       | 20 r/min |
| Calculation factor       | $Y_0$ | 1.8      |

### Tolerances of run-out

|                                                            |           |            |
|------------------------------------------------------------|-----------|------------|
| Range of section height at inner ring of assembled bearing | $t_{Kia}$ | 30 $\mu$ m |
| Range of section height at outer ring of assembled bearing | $t_{Kea}$ | 50 $\mu$ m |
| ISO tolerance class for geoal tolerances                   |           | Normal     |

### Radial internal clearance

|                           |             |
|---------------------------|-------------|
| Minimum initial clearance | 190 $\mu$ m |
| Maximum initial clearance | 240 $\mu$ m |

### Tolerances of run-out

## GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5, tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS