

# 22324 CC/W33



## Spherical roller bearing with relubrication features

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. The design includes features to facilitate relubrication. The bearings can be used in a modular system, including housings, sleeves and nuts.

- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

## Overview

### Dimensions

|                  |        |
|------------------|--------|
| Bore diameter    | 120 mm |
| Outside diameter | 260 mm |
| Width            | 86 mm  |

### Performance

|                           |              |
|---------------------------|--------------|
| Basic dynamic load rating | 1 019 kN     |
| Basic static load rating  | 1 120 kN     |
| Reference speed           | 2 000 r/min  |
| Limiting speed            | 2 600 r/min  |
| SKF performance class     | SKF Explorer |

### Properties

|                                      |             |
|--------------------------------------|-------------|
| Number of rows                       | 2           |
| Locating feature, bearing outer ring | Without     |
| Bore type                            | Cylindrical |
| Cage                                 | Sheet metal |
| Radial internal clearance            | CN          |
| Tolerance class for dimensions       | Normal      |
| Tolerance class for run-out          | P5          |
| Sealing                              | Without     |
| Lubricant                            | None        |
| Relubrication feature                | With        |
| Candidate for remanufacturing        | Yes         |

# Technical Specification

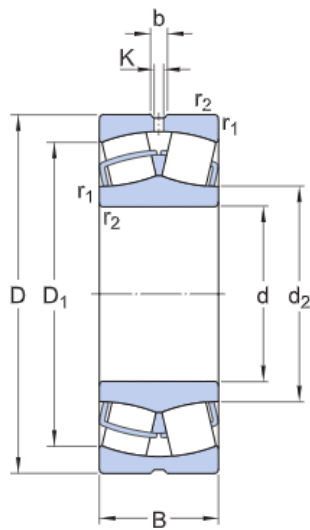
SKF performance class

SKF Explorer

Bore type

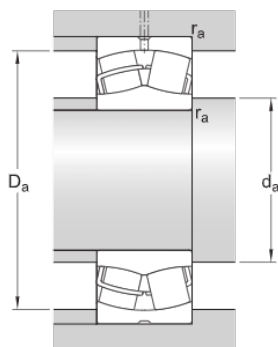
Cylindrical

## Dimensions



|           |                  |  |
|-----------|------------------|--|
| d         | 120 mm           | Bore diameter                          |
| D         | 260 mm           | Outside diameter                       |
| B         | 86 mm            | Width                                  |
| $d_2$     | $\approx 152$ mm | Shoulder diameter of inner ring        |
| $D_1$     | $\approx 216$ mm | Shoulder/recess diameter of outer ring |
| b         | 13.9 mm          | Width of lubrication groove            |
| K         | 7.5 mm           | Diameter of lubrication hole           |
| $r_{1,2}$ | min. 3 mm        | Chamfer dimension                      |

## Abutment dimensions



|       |             |                              |
|-------|-------------|------------------------------|
| $d_a$ | min. 134 mm | Diameter of shaft abutment   |
| $D_c$ | max. 246 mm | Diameter of housing abutment |
| $r_a$ | max. 2.5 mm | Radius of fillet             |

## Calculation data

|                           |       |          |
|---------------------------|-------|----------|
| Basic dynamic load rating | C     | 1 019 kN |
| Basic static load rating  | $C_0$ | 1 120 kN |

|                    |       |             |
|--------------------|-------|-------------|
| Fatigue load limit | $P_u$ | 100 kN      |
| Reference speed    |       | 2 000 r/min |
| Limiting speed     |       | 2 600 r/min |
| Limiting value     | $e$   | 0.35        |
| Calculation factor | $Y_1$ | 1.9         |
| Calculation factor | $Y_2$ | 2.9         |
| Calculation factor | $Y_0$ | 1.8         |

## Mass

|      |  |         |
|------|--|---------|
| Mass |  | 22.5 kg |
|------|--|---------|

## Tolerance class

|                        |  |        |
|------------------------|--|--------|
| Dimensional tolerances |  | Normal |
| Radial run-out         |  | P5     |

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