

# 32309 Tapered roller bearings, single row

Popular item

SKF Explorer

## Tapered roller bearings, single row

### Bearing data

Tolerances,

Normal and CL7C, CLN, Normal and CL, deviating width

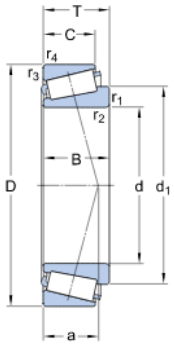
### Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

## Technical specification

| | |
|---|---|
| Dimension series | 2FD |

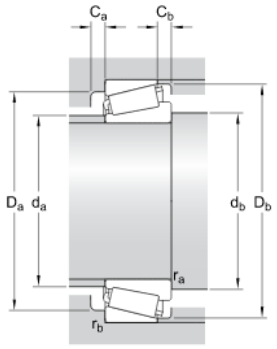



### DIMENSIONS

| | |
|---|---|
| d | 45 mm |
| D | 100 mm |
| T | 38.25 mm |
| $d_1$ | ≈ 71.1 mm |
| B | 36 mm |
| C | 30 mm |
| $r_{1,2}$ | min. 2 mm |
| $r_{3,4}$ | min. 1.5 mm |
| a | 24.712 mm |

### ABUTMENT DIMENSIONS

| | |
|---|---|
| $d_a$ | max. 57 mm |
| $d_b$ | min. 55 mm |
| $D_a$ | min. 82 mm |




| | |
|---|---|
| $D_a$ | max. 92 mm |
| $D_b$ | min. 93 mm |
| $C_a$ | min. 4 mm |
| $C_b$ | min. 8 mm |
| $r_a$ | max. 2 mm |
| $r_b$ | max. 1.5 mm |

## CALCULATION DATA

| | | |
|---|---|---|
| Basic dynamic load rating | C | 173 kN |
| Basic static load rating | $C_0$ | 170 kN |
| Fatigue load limit | $P_u$ | 20.4 kN |
| Reference speed | | 5 300 r/min |
| Limiting speed | | 7 000 r/min |
| Calculation factor | e | 0.35 |
| Calculation factor | Y | 1.7 |
| Calculation factor | $Y_0$ | 0.9 |

## MASS

| | |
|---|---|
| Mass bearing | 1.39 kg |

## More information

### Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Bearing designations
- Designation system

### Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

### Tools

- SimPro Quick
- Bearing Select
- Engineering Calculator
- LubeSelect for SKF greases
- Heater Selection Tool
- Oil Injection Method Program
- skf.com/mount

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