



30209 Tapered roller bearings, single row

- Popular item
- SKF Explorer

Tapered roller bearings, single row

Technical specification

3DB

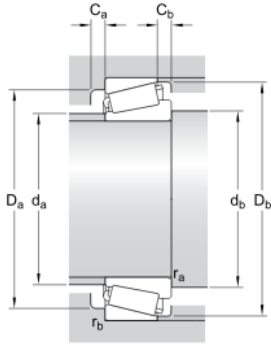


DIMENSIONS

| | | |
|-----------|-------------|------------------------------|
| d | 45 mm | Bore diameter |
| D | 85 mm | Outside diameter |
| T | 20.75 mm | Total bearing width |
| d_1 | ≈ 63.1 mm | Inner ring shoulder diameter |
| B | 19 mm | Width inner ring |
| C | 16 mm | Width outer ring |
| $r_{1,2}$ | min. 1.5 mm | Corner radius inner ring |
| $r_{3,4}$ | min. 1.5 mm | Corner radius outer ring |
| a | 17.829 mm | Distance pressure point |

ABUTMENT DIMENSIONS

| | | |
|-------|--------------|---------------------------|
| d_a | max. 54 mm | Abutment diameter shaft |
| d_b | min. 53.5 mm | Abutment diameter shaft |
| D_a | min. 74 mm | Abutment diameter housing |



| | | |
|-------|--------------|---|
| D_a | max. 77.5 mm | Abutment diameter housing |
| D_b | min. 80 mm | Abutment diameter housing |
| C_a | min. 3 mm | Abutment housing - axial space at the large side face/ both sides of the outer ring |
| C_b | min. 4.5 mm | Abutment housing - axial space at the small side face/ both sides of the outer ring |
| r_a | max. 1.5 mm | Fillet radius |
| r_b | max. 1.5 mm | Fillet radius |

CALCULATION DATA

| | | |
|-------|------------|---------------------------|
| C | 81.6 kN | Basic dynamic load rating |
| C_0 | 76.5 kN | Basic static load rating |
| P_u | 8.65 kN | Fatigue load limit |
| | 6300 r/min | Reference speed |
| | 8000 r/min | Limiting speed |
| e | 0.4 | Calculation factor |
| Y | 1.5 | Calculation factor |
| Y_0 | 0.8 | Calculation factor |

MASS

| | | |
|--|---------|--------------|
| | 0.47 kg | Mass bearing |
|--|---------|--------------|

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