



31306 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

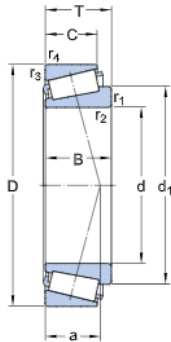
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

7FB

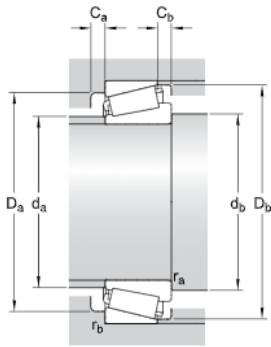


DIMENSIONS

| | |
|------------------|-------------|
| d | 30 mm |
| D | 72 mm |
| T | 20.75 mm |
| d ₁ | ≈ 52.75 mm |
| B | 19 mm |
| C | 14 mm |
| r _{1,2} | min. 1.5 mm |
| r _{3,4} | min. 1.5 mm |
| a | 22.335 mm |

ABUTMENT DIMENSIONS

| | |
|----------------|--------------|
| d _a | max. 40 mm |
| d _b | min. 38.5 mm |
| D _a | min. 55 mm |



| | |
|-------|-------------|
| D_a | max. 65 mm |
| D_b | min. 68 mm |
| C_a | min. 3 mm |
| C_b | min. 6.5 mm |
| r_a | max. 1.5 mm |
| r_b | max. 1.5 mm |

CALCULATION DATA

| | | |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C | 58.3 kN |
| Basic static load rating | C_0 | 50 kN |
| Fatigue load limit | P_u | 5.7 kN |
| Reference speed | | 7 500 r/min |
| Limiting speed | | 9 500 r/min |
| Calculation factor | e | 0.83 |
| Calculation factor | Y | 0.72 |
| Calculation factor | Y_0 | 0.4 |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.39 kg |
|--------------|---------|

More information

| Product details | Engineering information | Tools |
|---------------------------------------|---|--|
| Designs and variants | Principles of rolling bearing selection | SimPro Quick |
| Bearing data | General bearing knowledge | Bearing Select |
| Loads | Bearing selection process | Engineering Calculator |
| Temperature limits | Bearing failure and how to prevent it | LubeSelect for SKF greases |
| Permissible speed | | Heater Selection Tool |
| Design considerations | | Oil Injection Method Program |
| Bearing designations | | skf.com/mount |
| Designation system | | |

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