



31309 Tapered roller bearings, single row

SKF Explorer

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

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

Bearing interfaces

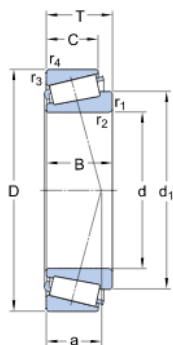
[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fit](#)

Technical specification

Dimension series

7FB

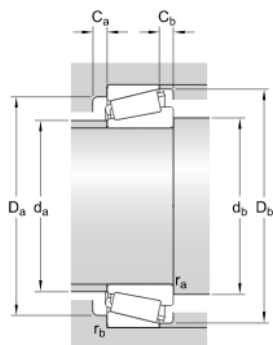


DIMENSIONS

d	45 mm
D	100 mm
T	27.25 mm
d ₁	≈ 74.7 mm
B	25 mm
C	18 mm
r _{1,2}	min. 2 mm
r _{3,4}	min. 1.5 mm
a	31.023 mm

ABUTMENT DIMENSIONS

d _a	max. 57 mm
d _b	min. 55 mm
D _a	min. 79 mm



D_a	max. 92 mm
D_b	min. 95 mm
C_a	min. 4 mm
C_b	min. 9 mm
r_a	max. 2 mm
r_b	max. 1.5 mm

CALCULATION DATA

Basic dynamic load rating	C	113 kN
Basic static load rating	C_0	102 kN
Fatigue load limit	P_u	12.5 kN
Reference speed		5 000 r/min
Limiting speed		6 700 r/min
Calculation factor	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

MASS

Mass bearing	0.95 kg
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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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