

31316

SKF Explorer

Tapered roller bearings, single row

Bearing data

[Tolerances,](#)

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

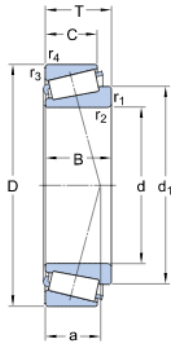
Bearing interfaces

[Seat tolerances for standard conditions,](#)
[Tolerances and resultant fit](#)

Technical specification

Dimension series

7GB



DIMENSIONS

d	80 mm
D	170 mm
T	42.5 mm
d_1	≈ 125.38 mm
B	39 mm
C	27 mm
$r_{1,2}$	min. 3 mm
$r_{3,4}$	min. 2.5 mm
a	51.517 mm

ABUTMENT DIMENSIONS

d_a	max. 97 mm
d_b	min. 93.5 mm
D_a	min. 134 mm
D_a	max. 159 mm



D_b	min. 159 mm
C_a	min. 5 mm
C_b	min. 15.5 mm
r_a	max. 3 mm
r_b	max. 2.5 mm

CALCULATION DATA

Basic dynamic load rating	C	276 kN
Basic static load rating	C_0	265 kN
Fatigue load limit	P_u	30.5 kN
Reference speed		3000 r/min
Limiting speed		4000 r/min
Calculation factor	e	0.83
Calculation factor	Y	0.72
Calculation factor	Y_0	0.4

MASS

Mass bearing	4.06 kg
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More information

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

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