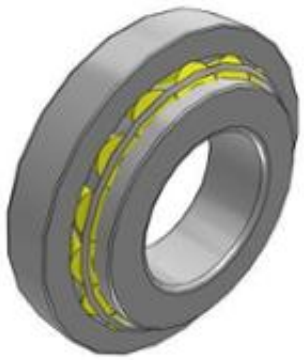


31316

SKF Explorer

Tapered roller bearings, single row

Bearing data

Tolerances,

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

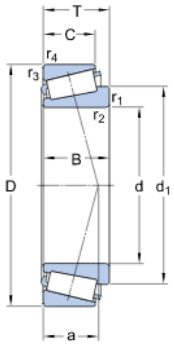
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fit

Technical specification

Dimension series	7GB

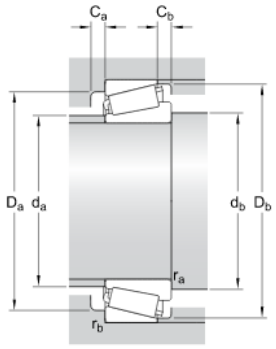


DIMENSIONS

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

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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