



Image may differ from product. See technical specification for details.

33015

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	115 mm
Width, total	31 mm
Width, inner ring	31 mm
Width, outer ring	25.5 mm
Contact angle	11.25 °

Performance

Basic dynamic load rating	167 kN
Basic static load rating	228 kN
Reference speed	4 300 r/min
Limiting speed	5 300 r/min
SKF performance class	SKF Explorer

Properties

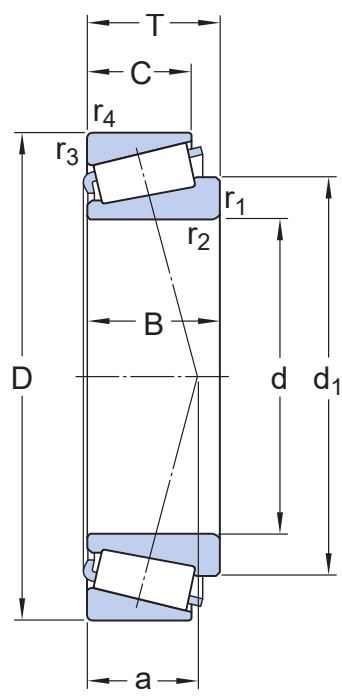
Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Unit system	Metric

Logistics

Product net weight	1.15 kg
eClass code	23-05-09-10
UNSPSC code	31171516

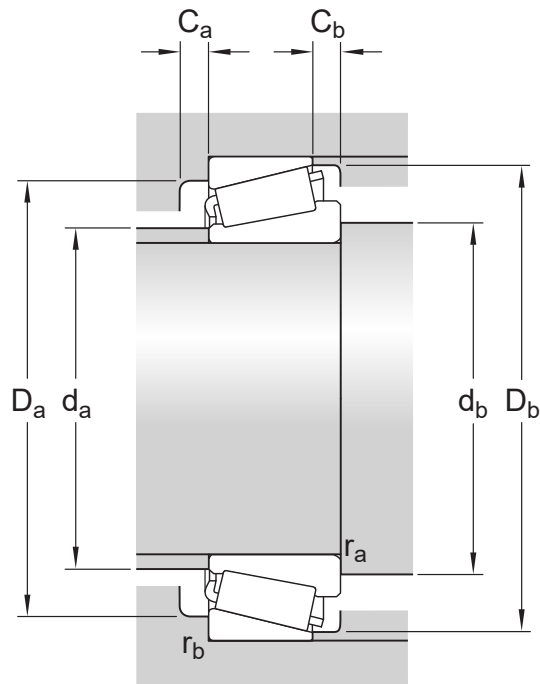
Technical specification

Dimension series	2CE
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Dimensions

d	75 mm	Bore diameter
D	115 mm	Outside diameter
T	31 mm	Total width
d ₁	≈ 95 mm	Shoulder diameter of inner ring
B	31 mm	Width of inner ring
C	25.5 mm	Width of outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension of inner ring
r _{3,4}	min. 1.5 mm	Chamfer dimension of outer ring
a	23.216 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 84 mm	Diameter of shaft abutment
d_b	min. 84.5 mm	Diameter of shaft abutment
D_a	min. 104 mm	Diameter of housing abutment
D_a	max. 106.5 mm	Diameter of housing abutment
D_b	min. 110 mm	Diameter of housing abutment
C_a	min. 6 mm	Minimum width of space required in housing on large side face
C_b	min. 5.5 mm	Minimum width of space required in housing on small side face
r_a	max. 1.5 mm	Radius of shaft fillet
r_b	max. 1.5 mm	Radius of housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	167 kN
Basic static load rating	C_0	228 kN
Fatigue load limit	P_u	26 kN
Reference speed		4 300 r/min
Limiting speed		5 300 r/min
Limiting value	e	0.3
Calculation factor	Y	2

Tolerances and clearances




GENERAL BEARING SPECIFICATIONS

- **Tolerances:**
metric bearings: Normal and CL7C, CLN
inch bearings: Normal and CL, deviating width

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

 Product details	 Engineering information	 Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
General bearing specifications	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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