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

32005 X

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	0.984 in
Outside diameter	1.85 in
Width, total	0.591 in
Width, inner ring	0.591 in
Width, outer ring	0.453 in
Contact angle	16 °

Performance

Basic dynamic load rating	7 464 lbf
Basic static load rating	7 306 lbf
Reference speed	12 000 r/min
Limiting speed	14 000 r/min
SKF performance class	SKF Explorer

Properties

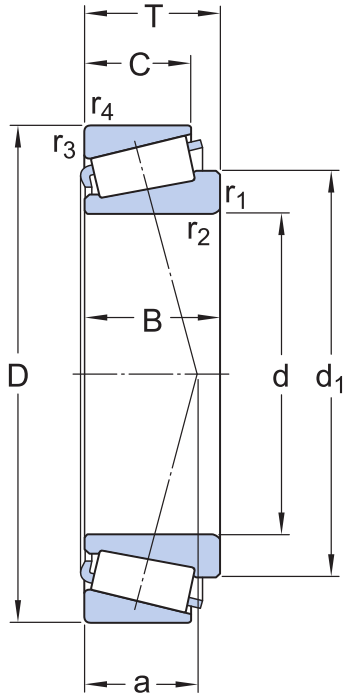
Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

Product net weight	0.2474 lb
eClass code	23-05-09-10
UNSPSC code	31171516

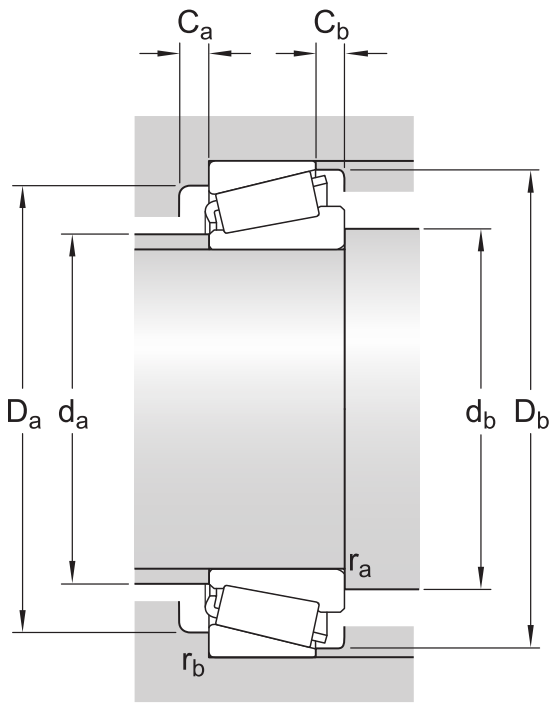
Technical specification

Dimension series	4CC



Dimensions

d	0.984 in	Bore diameter
D	1.85 in	Outside diameter
T	0.591 in	Total width
d_1	≈ 1.476 in	Shoulder diameter of inner ring
B	0.591 in	Width of inner ring
C	0.453 in	Width of outer ring
$r_{1,2}$	min. 0.024 in	Chamfer dimension of inner ring
$r_{3,4}$	min. 0.024 in	Chamfer dimension of outer ring
a	0.45 in	Distance side face to pressure point



Abutment dimensions

d_a	max. 1.181 in	Diameter of shaft abutment
d_b	min. 1.22 in	Diameter of shaft abutment
D_a	min. 1.575 in	Diameter of housing abutment
D_a	max. 1.654 in	Diameter of housing abutment
D_b	min. 1.732 in	Diameter of housing abutment
C_a	min. 0.118 in	Minimum width of space required in housing on large side face
C_b	min. 0.138 in	Minimum width of space required in housing on small side face
r_a	max. 0.024 in	Radius of shaft fillet
r_b	max. 0.024 in	Radius of housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	7 464 lbf
Basic static load rating	C_0	7 306 lbf
Fatigue load limit	P_u	731 lbf
Reference speed		12 000 r/min
Limiting speed		14 000 r/min
Limiting value	e	0.43

Calculation factor	Y	1.4
Calculation factor	Y_0	0.8

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

Terms of use