

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

32048 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	240 mm
Outside diameter	360 mm
Width, total	76 mm
Width, inner ring	76 mm
Width, outer ring	57 mm
Contact angle	17 °

Performance

Basic dynamic load rating	989 kN
Basic static load rating	1 800 kN
Reference speed	1 200 r/min
Limiting speed	1 600 r/min

Properties

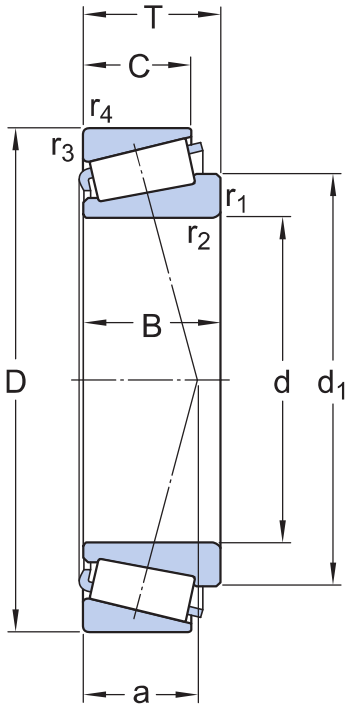
Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Arrangement of contact angle (double-row bearing)	Not applicable
Matched arrangement	No
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Unit system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

Logistics

Product net weight	25.9 kg
eClass code	23-05-09-10
UNSPSC code	31171516

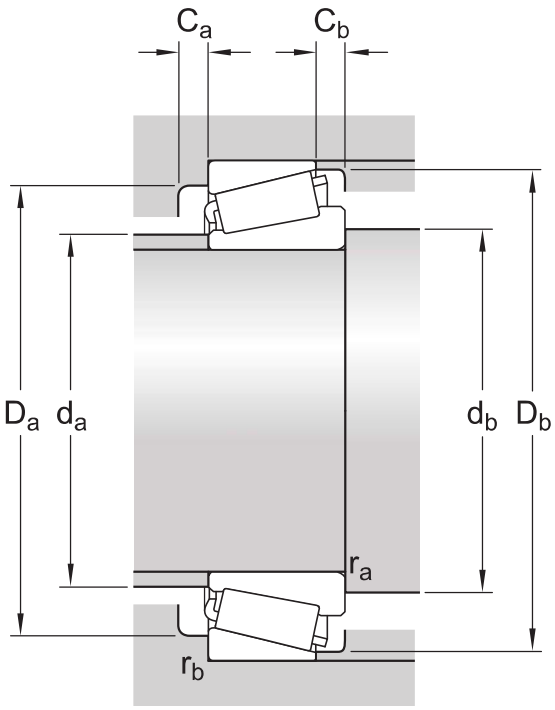
Technical specification

Dimension series	4FD



Dimensions

d	240 mm	Bore diameter
D	360 mm	Outside diameter
T	76 mm	Total width
d_1	≈ 299.5 mm	Shoulder diameter of inner ring
B	76 mm	Width of inner ring
C	57 mm	Width of outer ring
$r_{1,2}$	min. 4 mm	Chamfer dimension of inner ring
$r_{3,4}$	min. 3 mm	Chamfer dimension of outer ring
a	77.5 mm	Distance side face to pressure point



Abutment dimensions

d_a	max. 262 mm	Diameter of shaft abutment
d_b	min. 258.5 mm	Diameter of shaft abutment
D_a	min. 318 mm	Diameter of housing abutment
D_a	max. 345 mm	Diameter of housing abutment
D_b	min. 346 mm	Diameter of housing abutment
C_a	min. 12 mm	Minimum width of space required in housing on large side face
C_b	min. 19 mm	Minimum width of space required in housing on small side face
r_a	max. 4 mm	Radius of shaft fillet
r_b	max. 3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	C	989 kN
Basic static load rating	C_0	1 800 kN
Fatigue load limit	P_u	156 kN
Reference speed		1 200 r/min
Limiting speed		1 600 r/min

Limiting value	e	0.46
Calculation factor	Y	1.3
Calculation factor	Y_0	0.7

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

- Designs and variants
- General bearing specifications
- 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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