



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

30219

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	95 mm
Outside diameter	170 mm
Width, total	34.5 mm
Width, inner ring	32 mm
Width, outer ring	27 mm
Contact angle	15.642 °

Performance

Basic dynamic load rating	266 kN
Basic static load rating	275 kN
Reference speed	3 200 r/min
Limiting speed	3 800 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

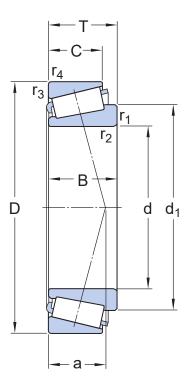
Logistics

Product net weight	2.99 kg
eClass code	23-05-09-10

UNSPSC code 31171516

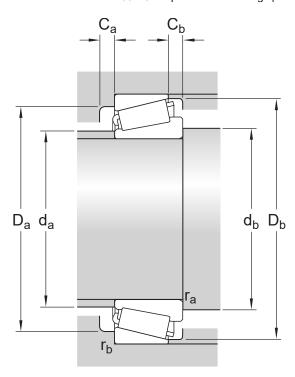
Technical specification

Dimension series 3FB



Dimensions

d	95 mm	Bore diameter
D	170 mm	Outside diameter
Т	34.5 mm	Total width
d_1	≈ 126.98 mm	Shoulder diameter of inner ring
В	32 mm	Width of inner ring
С	27 mm	Width of outer ring
r _{1,2}	min. 3 mm	Chamfer dimension of inner ring
r _{3,4}	min. 2.5 mm	Chamfer dimension of outer ring
a	33 mm	Distance side face to pressure point



Abutment dimensions

d _a	max. 110 mm	Diameter of shaft abutment
d _b	min. 108.5 mm	Diameter of shaft abutment
D _a	min. 149 mm	Diameter of housing abutment
D _a	max. 158.5 mm	Diameter of housing abutment
D _b	min. 159 mm	Diameter of housing abutment
Ca	min. 5 mm	Minimum width of space required in housing on large side face
C _b	min. 7.5 mm	Minimum width of space required in housing on small side face
Гa	max. 3 mm	Radius of shaft fillet
r _b	max. 2.5 mm	Radius of housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	266 kN
Basic static load rating	C ₀	275 kN
Fatigue load limit	P_{u}	31.5 kN
Reference speed		3 200 r/min

Limiting speed		3 800 r/min
Limiting value	е	0.43
Calculation factor	Υ	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

Product details	Engineering information	➢ Tools
Designs and variants		SimPro Quick
General bearing specifications	Principles of rolling bearing selection	Bearing Select
Loads	General bearing knowledge	Engineering Calculator
Temperature limits	Bearing selection process 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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