



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

30210

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	50 mm
Outside diameter	90 mm
Width, total	21.75 mm
Width, inner ring	20 mm
Width, outer ring	17 mm
Contact angle	15.642 °

Performance

Basic dynamic load rating	93.1 kN
Basic static load rating	91.5 kN
Reference speed	6 000 r/min
Limiting speed	7 500 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

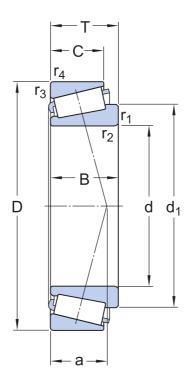
Logistics

Product net weight	0.536 kg
eClass code	23-05-09-10
UNSPSC code	31171516

Technical specification

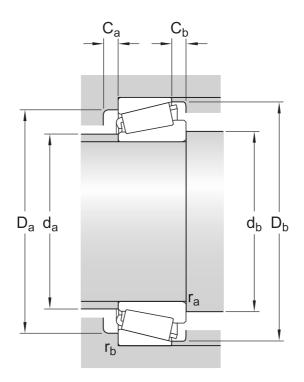
Dimension series

3DB



Dimensions

d	50 mm	Bore diameter
D	90 mm	Outside diameter
Т	21.75 mm	Total width
d ₁	≈ 68 mm	Shoulder diameter of inner ring
В	20 mm	Width of inner ring
С	17 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	19.248 mm	Distance side face to pressure point



Abutment dimensions

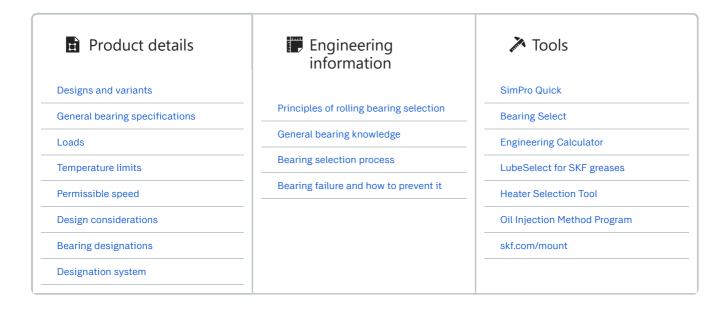
d _a	max. 59 mm	Diameter of shaft abutment
d _b	min. 59 mm	Diameter of shaft abutment
D _a	min. 79 mm	Diameter of housing abutment
D _a	max. 82 mm	Diameter of housing abutment
D _b	min. 85 mm	Diameter of housing abutment
C _a	min. 3 mm	Minimum width of space required in housing on large side face
C _b	min. 4.5 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	93.1 kN
Basic static load rating	C ₀	91.5 kN
Fatigue load limit	P _u	10.4 kN
Reference speed		6 000 r/min
Limiting speed		7 500 r/min
Limiting value	e	0.43

Calculation factor	Y	1.4
Calculation factor	Y ₀	0.8

More Information





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