



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

30234

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	170 mm
Outside diameter	310 mm
Width, total	57 mm
Width, inner ring	52 mm
Width, outer ring	43 mm
Contact angle	16.172 °

Performance

Basic dynamic load rating	657 kN
Basic static load rating	865 kN
Reference speed	1 500 r/min
Limiting speed	2 000 r/min

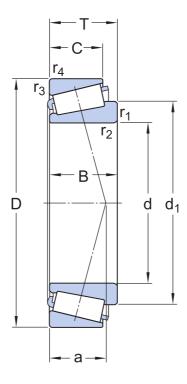
Properties

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

Logistics

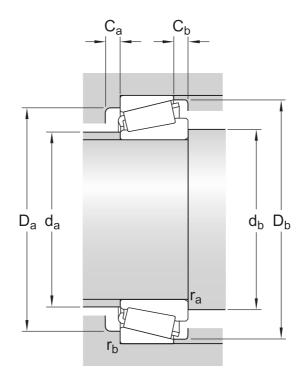
Product net weight	16.6 kg
eClass code	23-05-09-10
UNSPSC code	31171516

Dimension series 4GB



Dimensions

d	170 mm	Bore diameter
D	310 mm	Outside diameter
Т	57 mm	Total width
d_1	≈ 231.3 mm	Shoulder diameter of inner ring
В	52 mm	Width of inner ring
С	43 mm	Width of outer ring
r _{1,2}	min. 5 mm	Chamfer dimension of inner ring
r _{3,4}	min. 4 mm	Chamfer dimension of outer ring
a	58.46 mm	Distance side face to pressure point



Abutment dimensions

d _a	max. 203 mm	Diameter of shaft abutment
d _b	min. 189.5 mm	Diameter of shaft abutment
D _a	min. 269 mm	Diameter of housing abutment
D _a	max. 293.5 mm	Diameter of housing abutment
D _b	min. 288 mm	Diameter of housing abutment
Ca	min. 8 mm	Minimum width of space required in housing on large side face
C_{b}	min. 14 mm	Minimum width of space required in housing on small side face
r _a	max. 5 mm	Radius of shaft fillet
r _b	max. 4 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	С	657 kN
Basic static load rating	C_0	865 kN
Fatigue load limit	P_{u}	83 kN
Reference speed		1 500 r/min
Limiting speed		2 000 r/min
Limiting value	е	0.43
Calculation factor	Υ	1.4

Calculation factor Y₀ 0.8

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	LubeSelect for SKF greases
Permissible speed	Bearing failure and how to prevent it	Heater Selection Tool
Design considerations		Oil Injection Method Program
Bearing designations		skf.com/mount
Designation system		



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