



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

32228

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	140 mm
Outside diameter	250 mm
Width, total	71.75 mm
Width, inner ring	68 mm
Width, outer ring	58 mm
Contact angle	16.172 °

Performance

Basic dynamic load rating	691 kN
Basic static load rating	1 000 kN
Reference speed	1 900 r/min
Limiting speed	2 600 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
Indicative product carbon footprint to manufacture	51.2 kg CO₂e

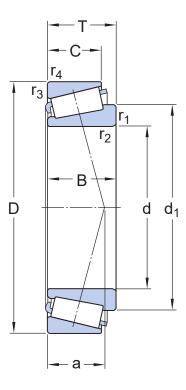
Logistics

Product net weight	14.2 kg
eClass code	23-05-09-10

UNSPSC code 31171516

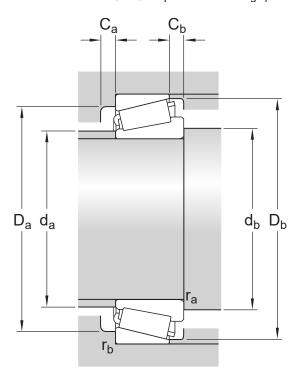
Technical specification

Dimension series 4FD



Dimensions

d	140 mm	Bore diameter
D	250 mm	Outside diameter
T	71.75 mm	Total width
d_1	≈ 191.4 mm	Shoulder diameter of inner ring
В	68 mm	Width of inner ring
С	58 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	59.55 mm	Distance side face to pressure point



Abutment dimensions

d _a	max. 159 mm	Diameter of shaft abutment
d_b	min. 156.5 mm	Diameter of shaft abutment
D _a	min. 210 mm	Diameter of housing abutment
D _a	max. 236.5 mm	Diameter of housing abutment
D_b	min. 238 mm	Diameter of housing abutment
Ca	min. 8 mm	Minimum width of space required in housing on large side face
C _b	min. 13.5 mm	Minimum width of space required in housing on small side face
Γa	max. 4 mm	Radius of shaft fillet
r _b	max. 3 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	С	691 kN
Basic static load rating	C_0	1 000 kN
Fatigue load limit	P_{u}	100 kN
Reference speed		1 900 r/min
Limiting speed		2 600 r/min

Limiting value	е	0.43
Calculation factor	Υ	1.4
Calculation factor	Υ 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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