



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

32313 B

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. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- 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	65 mm
Outside diameter	140 mm
Width, total	51 mm
Width, inner ring	48 mm
Width, outer ring	39 mm
Contact angle	20 °

Properties

Bearing part	Complete bearing
Number of rows	1
Locating feature, bearing outer ring	Without
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 carbon footprint for new product	13.7 kg CO ₂ e

Performance

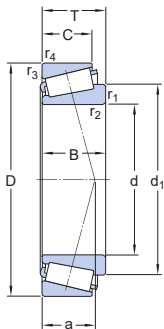
Basic dynamic load rating	305 kN
Basic static load rating	345 kN
Reference speed	3 600 r/min
Limiting speed	4 800 r/min
SKF performance class	SKF Explorer

Logistics

Product net weight	3.71 kg
eClass code	23-05-09-10
UNSPSC code	31171516

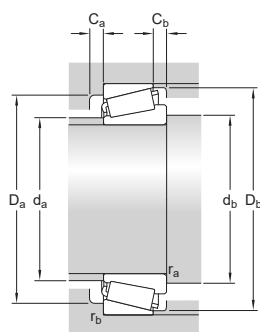
Technical specification

Dimension series	5GD
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Dimensions

d	65 mm	Bore diameter
D	140 mm	Outside diameter
T	51 mm	Bearing width, total
d ₁	≈ 105.6 mm	Shoulder diameter of inner ring
B	48 mm	Width of inner ring



C	39 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	41.025 mm	Distance side face to pressure point

Abutment dimensions

d _a	max. 79 mm	Diameter of shaft abutment
d _b	min. 78 mm	Diameter of shaft abutment
D _a	min. 107 mm	Diameter of housing abutment
D _a	max. 129.5 mm	Diameter of housing abutment
D _b	min. 131 mm	Diameter of housing abutment
C _a	min. 6 mm	Minimum width of space required in housing on large side face
C _b	min. 12 mm	Minimum width of space required in housing on small side face
r _a	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	C	305 kN
Basic static load rating	C ₀	345 kN
Fatigue load limit	P _u	40 kN
Reference speed		3 600 r/min
Limiting speed		4 800 r/min

Limiting value	e	0.54
Calculation factor	Y	1.1
Calculation factor	Y_0	0.6

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

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