

32020 XSingle row tapered roller

bearing

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

Dimensions

Bore diameter	100 mm
Outside diameter	150 mm
Width, total	32 mm
Width, inner ring	32 mm
Width, outer ring	24 mm
Contact angle	17 °

Performance

Basic dynamic load rating	209 kN
Basic static load rating	280 kN
Reference speed	3 200 r/min
Limiting speed	4 000 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

Overview



Lubricant	None
Relubrication feature	Without



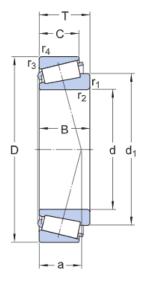
SKF Explorer

4CC

Technical Specification

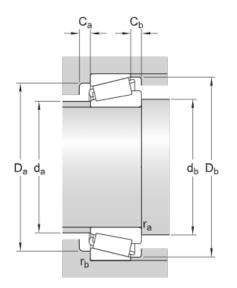
SKF performance class

Dimension series





d	100 mm	Bore diameter
D	150 mm	Outside diameter
Т	32 mm	Total width
d_1	≈125.4 mm	Shoulder diameter of inner ring
В	32 mm	Width of inner ring
С	24 mm	Width of outer ring
r _{1,2}	min. 2 mm	Chamfer dimension of inner ring
r _{3,4}	min. 1.5 mm	Chamfer dimension of outer ring
а	32.5 mm	Distance side face to pressure point



Abutment dimensions

d, max. 110 mm	Diameter of shaft abutment
d _{t min.} 111.5 mm	Diameter of shaft abutment
D min. 134 mm	Diameter of housing abutment
D _{max. 141} mm	Diameter of housing abutment
D min. 144 mm	Diameter of housing abutment
C, min. 6 mm	Minimum width of space required in housing on large side face
C _{I min. 8} mm	Minimum width of space required in housing on small side face
r _a max. 2	Radius of shaft fillet



	mm	
r	r _b max. 1.5 mm	Radius of housing fillet

Calculation data

Basic dynamic load rating	С	209 kN
Basic static load rating	C ₀	280 kN
Fatigue load limit	Pu	31 kN
Reference speed		3 200 r/min
Limiting speed		4 000 r/min
Limiting value	e	0.46
Calculation factor	Y	1.3
Calculation factor	Υ ₀	0.7

Mass

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