

## 32209Single row tapered rolle

#### 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

#### Overview

#### **Dimensions**

Bore diameter	45 mm
Outside diameter	85 mm
Width, total	24.75 mm
Width, inner ring	23 mm
Width, outer ring	19 mm
Contact angle	15.109°

#### Performance

Basic dynamic load rating	98.7 kN
Basic static load rating	98 kN
Reference speed	6 300 r/min
Limiting speed	8 000 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



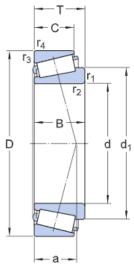
Lubricant

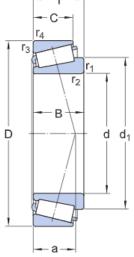
Relubrication feature Without



### **Technical Specification**

SKF performance class	SKF Explorer
Dimension series	3DC





# r<sub>3,4</sub> min. 1.5 mm 19.883 mm

19 mm

r<sub>1,2</sub> min. 1.5 mm

**Dimensions** 

Width of outer ring

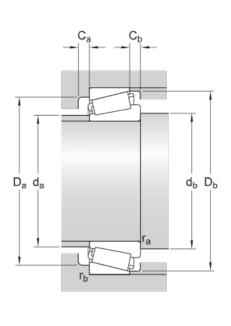
Chamfer dimension of inner ring

Chamfer dimension of outer ring

Distance side face to pressure point

d	45 mm	Bore diameter
D	85 mm	Outside diameter
Т	24.75 mm	Total width
$d_1$	≈ 64.1 mm	Shoulder diameter of inner ring
В	23 mm	Width of inner ring

#### Abutment dimensions



d <sub>t max. 54</sub> mm	Diameter of shaft abutment
d <sub>t min.</sub> 53.5 mm	Diameter of shaft abutment
D <sub>i</sub> min. 73 mm	Diameter of housing abutment
D <sub>i</sub> max. 77.5 mm	Diameter of housing abutment
D <sub>I</sub> min. 80 mm	Diameter of housing abutment
C <sub>i min.</sub> 3 mm	Minimum width of space required in housing on large side face
C <sub>I min. 5.5</sub> mm	Minimum width of space required in housing on small side face
r <sub>a</sub> max. 1.5 mm	Radius of shaft fillet



r <sub>b</sub> max. 1.5	Radius of housing fillet
mm	

#### Calculation data

Basic dynamic load rating	С	98.7 kN
Basic static load rating	$C_0$	98 kN
Fatigue load limit	$P_{u}$	11 kN
Reference speed		6 300 r/min
Limiting speed		8 000 r/min
Limiting value	е	0.4
Calculation factor	Υ	1.5
Calculation factor	$Y_0$	0.8

#### Mass

Mas	0.	.58 kg



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