

# 16024

## Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance



## Overview

### Dimensions

Bore diameter	120 mm
Outside diameter	180 mm
Width	19 mm

### Performance

Basic dynamic load rating	63.7 kN
Basic static load rating	64 kN
Limiting speed	4 800 r/min
Reference speed	7 500 r/min
SKF performance class	SKF Explorer

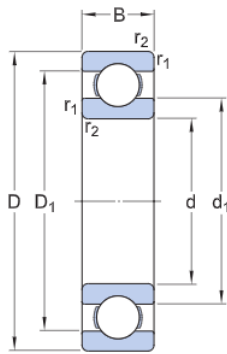
## Properties

Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

# Technical Specification

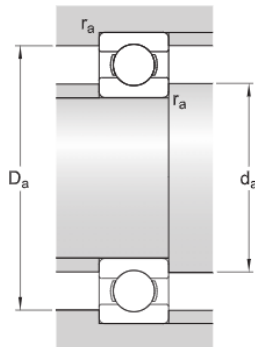
SKF performance class

SKF Explorer



## Dimensions

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	19 mm	Width
$d_1$	≈ 139 mm	Shoulder diameter
$D_1$	≈ 161 mm	Shoulder diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension



## Abutment dimensions

$d_a$	min. 125 mm	Diameter of shaft abutment
$D_a$	max. 175 mm	Diameter of housing abutment
$r_a$	max. 1 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	63.7 kN
Basic static load rating	$C_0$	64 kN
Fatigue load limit	$P_u$	2.2 kN
Reference speed		7 500 r/min

Limiting speed		4 800 r/min
Minimum load factor	$k_r$	0.02
Calculation factor	$f_0$	16.5

### Mass

Mass bearing		1.57 kg
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### Tolerance class

Dimensional tolerances		P6
Radial run-out		Normal

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