



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

## 61884 MA

### 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	420 mm
Outside diameter	520 mm
Width	46 mm

## Performance

Basic dynamic load rating	251 kN
Basic static load rating	425 kN
Reference speed	2 200 r/min
Limiting speed	1 800 r/min

## Properties

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

## Logistics

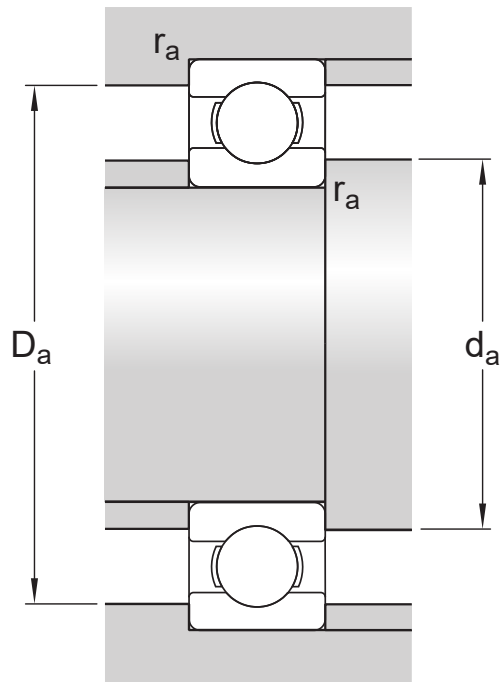
Product net weight	21.5 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	420 mm	Bore diameter
D	520 mm	Outside diameter
B	46 mm	Width
d <sub>1</sub>	≈ 452.4 mm	Shoulder diameter
D <sub>1</sub>	≈ 490.16 mm	Shoulder diameter
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension
	Normal	ISO tolerance class for dimensions



## Abutment dimensions

$d_a$	min. 432 mm	Diameter of shaft abutment
$D_a$	max. 508 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	251 kN
Basic static load rating	$C_0$	425 kN
Fatigue load limit	$P_u$	8.3 kN
Reference speed		2 200 r/min
Limiting speed		1 800 r/min
Minimum load factor	$k_r$	0.015
Calculation factor	$f_0$	17.3

## Tolerances of run-out

ISO tolerance class for geometrical tolerances	Normal
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## Tolerances and clearances




GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

# More Information

 Product details	 Engineering information	 Tools
<a href="#">Single row deep groove ball bearings</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SKF Product select</a>
<a href="#">Stainless steel deep groove ball bearings</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Single row deep groove ball bearings with filling slots</a>	<a href="#">Bearing selection process</a>	<a href="#">Bearing Frequency Calculator</a>
<a href="#">Double row deep groove ball bearings</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">General bearing specifications</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Loads</a>	<a href="#">Selecting internal clearance</a>	
<a href="#">Temperature limits</a>	<a href="#">Lubrication</a>	
<a href="#">Permissible speed</a>	<a href="#">Sealing, mounting and dismounting</a>	
<a href="#">Designation system</a>	<a href="#">Bearing failure and how to prevent it</a>	

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