



# 6312-ZNR

SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

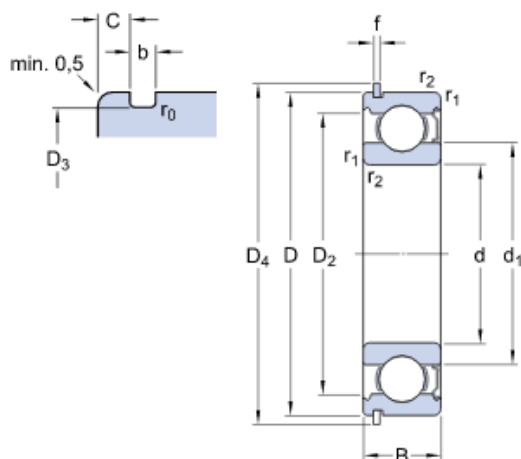
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

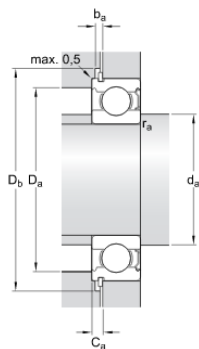


## DIMENSIONS

d	60 mm
D	130 mm
B	31 mm
d <sub>1</sub>	≈ 81.86 mm
D <sub>2</sub>	≈ 112.2 mm
D <sub>3</sub>	125.22 mm
D <sub>4</sub>	139.7 mm
b	3.1 mm
C	4.06 mm
f	2.82 mm
r <sub>0</sub>	max. 0.6 mm
r <sub>1,2</sub>	min. 2.1 mm

## ABUTMENT DIMENSIONS

d <sub>a</sub>	min. 72 mm
d <sub>a</sub>	max. 81.8 mm
D <sub>a</sub>	max. 118 mm
D <sub>b</sub>	min. 141 mm
b <sub>a</sub>	min. 3.5 mm



$C_a$	max. 6.88 mm
$r_a$	max. 2 mm

## CALCULATION DATA

Basic dynamic load rating	$C$	85.2 kN
Basic static load rating	$C_0$	52 kN
Fatigue load limit	$P_u$	2.2 kN
Reference speed		11000 r/min
Limiting speed		7000 r/min
Calculation factor	$k_r$	0.03
Calculation factor	$f_0$	13

## MASS

Mass bearing	1.78 kg
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## INCLUDED PRODUCTS

Snap ring	SP 130
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## More information

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

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