



# 314-ZNR

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

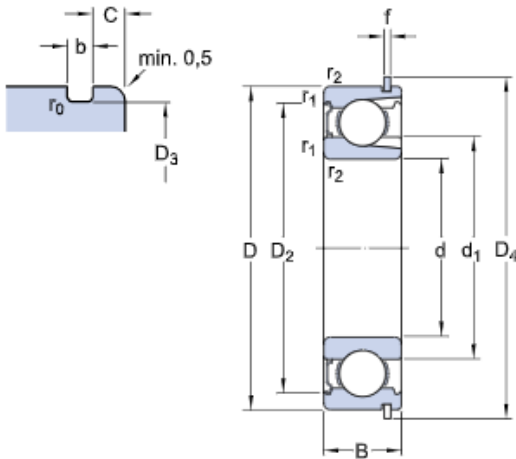
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

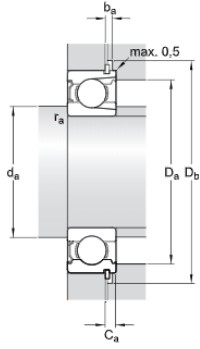


## DIMENSIONS

$d$	70 mm
$D$	150 mm
$B$	35 mm
$d_1$	≈ 93.75 mm
$D_2$	≈ 129.9 mm
$D_3$	145.24 mm
$D_4$	159.7 mm
$b$	3.1 mm
$C$	4.9 mm
$f$	2.82 mm
$r_0$	max. 0.6 mm
$r_{1,2}$	min. 2.1 mm

## ABUTMENT DIMENSIONS

$d_a$	min. 82 mm
$d_a$	max. 93.7 mm
$D_a$	max. 138 mm
$D_b$	min. 162 mm
$b_a$	min. 3.5 mm



$C_a$	max. 7.72 mm
$r_a$	max. 2 mm

CALCULATION DATA

Basic dynamic load rating	$C$	114 kN
Basic static load rating	$C_0$	102 kN
Fatigue load limit	$P_u$	4.15 kN
Reference speed		8 000 r/min
Limiting speed		5 000 r/min
Calculation factor	$k_r$	0.05

MASS

Mass bearing	2.75 kg
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INCLUDED PRODUCTS

Snap ring	SP 150
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## 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="#">Bearing 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="#">Engineering 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="#">Bearing data</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="#">Rolling bearings mounting and dismounting instructions</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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