



6414

## Deep groove ball bearings

## Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

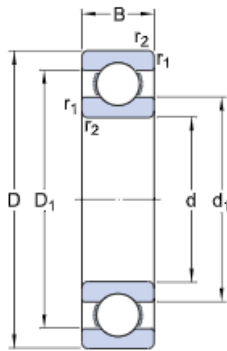
$d < 10$  mm, Other bearings

## Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

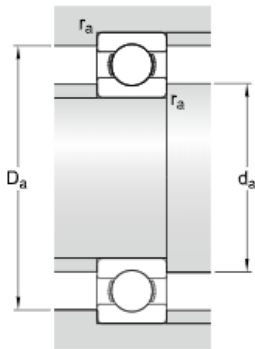


## DIMENSIONS

$d$	70 mm
$D$	180 mm
$B$	42 mm
$d_1$	≈ 103.5 mm
$D_1$	≈ 145.95 mm
$r_{1,2}$	min. 3 mm

## ABUTMENT DIMENSIONS

$d_a$	min. 86 mm
$D_a$	max. 164 mm
$r_a$	max. 2.5 mm



## CALCULATION DATA

Basic dynamic load rating	C	143 kN
Basic static load rating	$C_0$	104 kN
Fatigue load limit	$P_u$	3.9 kN
Reference speed		8 500 r/min
Limiting speed		5 300 r/min
Calculation factor	$k_r$	0.035
Calculation factor	$f_0$	12.1

## MASS

Mass bearing		4.93 kg
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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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