



# 6314-RS1 Deep groove ball bearings

- SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

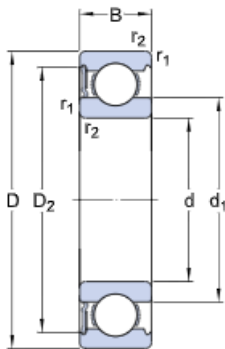
Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

## Technical specification

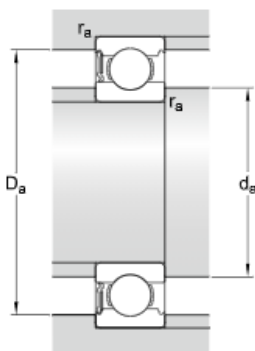


### DIMENSIONS

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
d <sub>1</sub>	≈ 94.95 mm	Shoulder diameter
D <sub>2</sub>	≈ 129.9 mm	Recess diameter
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

d <sub>ε</sub> min.	82 mm	Diameter of shaft abutment
d <sub>ε</sub> max.	94.9 mm	Diameter of shaft abutment
D <sub>i</sub> max.	138 mm	Diameter of housing abutment
r <sub>a</sub> max.	2 mm	Radius of shaft or housing fillet



## CALCULATION DATA

C	111 kN	Basic dynamic load rating
C <sub>0</sub>	68 kN	Basic static load rating
P <sub>u</sub>	2.75 kN	Fatigue load limit
	3 000 r/min	Limiting speed
k <sub>r</sub>	0.03	Minimum load factor
f <sub>0</sub>	13.2	Calculation factor

## MASS

	2.57 kg	Mass bearing
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## TOLERANCE CLASS

P6	Dimensional tolerances
Normal	Radial run-out