



# 61844 Deep groove ball bearings

- Popular item

## Deep groove ball bearings

### Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

Matched bearing pairs, Stainless steel

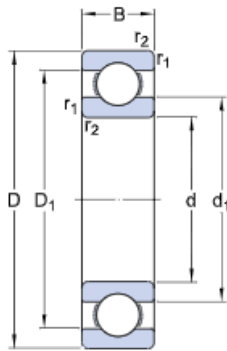
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

## Technical specification

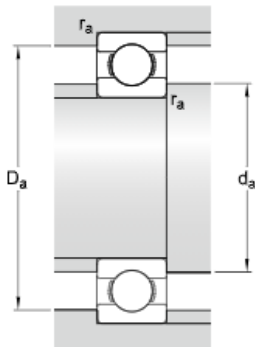


### DIMENSIONS

d	220 mm	Bore diameter
D	270 mm	Outside diameter
B	24 mm	Width
$d_1$	≈ 236 mm	Shoulder diameter
$D_1$	≈ 254 mm	Shoulder diameter
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

$d_c$	min. 227 mm	Diameter of shaft abutment
$D_i$	max. 263 mm	Diameter of housing abutment
$r_a$	max. 1.5 mm	Radius of shaft or housing fillet



## CALCULATION DATA

C	78 kN	Basic dynamic load rating
C <sub>0</sub>	110 kN	Basic static load rating
P <sub>u</sub>	3 kN	Fatigue load limit
	4 500 r/min	Reference speed
	2 800 r/min	Limiting speed
k <sub>r</sub>	0.015	Minimum load factor
f <sub>0</sub>	17.4	Calculation factor

## MASS

	2.54 kg	Mass bearing
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## TOLERANCE CLASS

Normal	Dimensional tolerances
Normal	Radial run-out