



# 1320 K Self-aligning ball bearings

- Popular item

## Self-aligning ball bearings

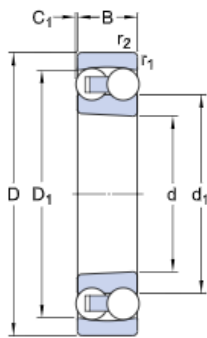
### Bearing data

[Tolerances](#),  
Normal, JS7,  
[Radial internal clearance](#),  
table

### Bearing interfaceS

[Seat tolerances for standard conditions](#),  
[Tolerances and resultant fits](#)

## Technical specification

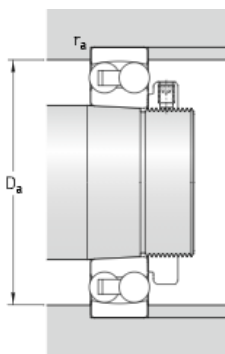


### DIMENSIONS

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	47 mm	Width
$d_1$	≈ 136 mm	Shoulder diameter inner ring
$D_1$	≈ 181.9 mm	Shoulder diameter outer ring
C1	2.469 mm	Protrusion of the balls from bearing side faces
$r_{1,2}$	min. 3 mm	Chamfer dimension
Tapered bore, taper 1:12		

### ABUTMENT DIMENSIONS

$D_c$	max. 201 mm	Abutment diameter housing
$r_a$	max. 3 mm	Fillet radius



## CALCULATION DATA

C	143 kN	Basic dynamic load rating
C <sub>0</sub>	57 kN	Basic static load rating
P <sub>u</sub>	2.36 kN	Fatigue load limit
	6 000 r/min	Reference speed
	4 000 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k <sub>r</sub>	0.045	Calculation factor
e	0.24	Calculation factor
Y <sub>0</sub>	2.8	Calculation factor
Y <sub>1</sub>	2.6	Calculation factor
Y <sub>2</sub>	4.1	Calculation factor

## MASS

	8.05 kg	Mass bearing
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