



1318 Self-aligning ball bearings

Self-aligning ball bearings

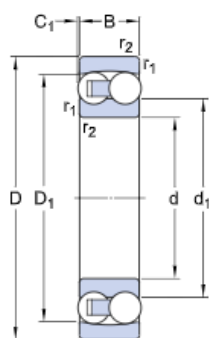
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits
table

Technical specification

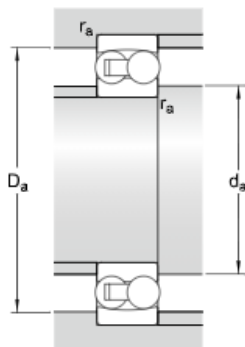


DIMENSIONS

d	90 mm	Bore diameter
D	190 mm	Outside diameter
B	43 mm	Width
d ₁	≈ 122.8 mm	Shoulder diameter inner ring
D ₁	≈ 162.1 mm	Shoulder diameter outer ring
C1	1 mm	Protrusion of the balls from bearing side faces
r _{1,2}	min. 3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a min.	104 mm	Abutment diameter shaft
D _i max.	176 mm	Abutment diameter housing
r _a max.	3 mm	Fillet radius



CALCULATION DATA

C	117 kN	Basic dynamic load rating
C ₀	44 kN	Basic static load rating
P _u	1.93 kN	Fatigue load limit
	6 700 r/min	Reference speed
	4 500 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.22	Calculation factor
Y ₀	2.8	Calculation factor
Y ₁	2.9	Calculation factor
Y ₂	4.5	Calculation factor

MASS

	5.8 kg	Mass bearing
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