



1316 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

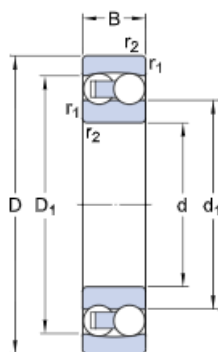
Bearing data

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

Bearing interfaceS

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

Technical specification

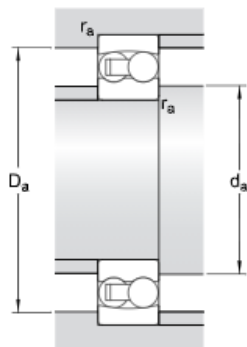


DIMENSIONS

d	80 mm	Bore diameter
D	170 mm	Outside diameter
B	39 mm	Width
d ₁	≈ 110 mm	Shoulder diameter inner ring
D ₁	≈ 144.4 mm	Shoulder diameter outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 92 mm	Abutment diameter shaft
D _i	max. 158 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



CALCULATION DATA

C	88.4 kN	Basic dynamic load rating
C ₀	33.5 kN	Basic static load rating
P _u	1.5 kN	Fatigue load limit
	7 500 r/min	Reference speed
	5 300 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

4.2 kg	Mass bearing
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