



2218 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

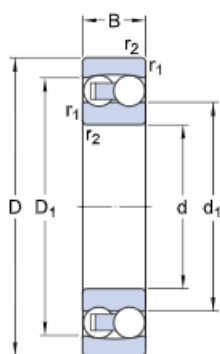
Bearing data

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

Bearing interfaceS

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

Technical specification

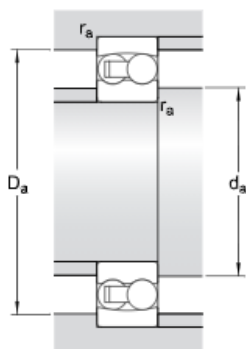


DIMENSIONS

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	40 mm	Width
d ₁	≈ 112.6 mm	Shoulder diameter inner ring
D ₁	≈ 139.5 mm	Shoulder diameter outer ring
r _{1,2}	min. 2 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 101 mm	Abutment diameter shaft
D _i	max. 149 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



CALCULATION DATA

C	70.2 kN	Basic dynamic load rating
C ₀	28.5 kN	Basic static load rating
P _u	1.32 kN	Fatigue load limit
	7 500 r/min	Reference speed
	5 300 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.27	Calculation factor
Y ₀	2.5	Calculation factor
Y ₁	2.3	Calculation factor
Y ₂	3.6	Calculation factor

MASS

	3.4 kg	Mass bearing
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