



2220 Self-aligning ball bearings

Self-aligning ball bearings

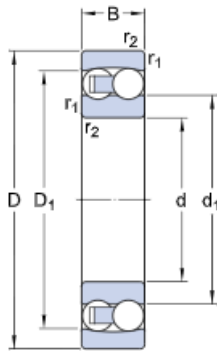
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits
table

Technical specification

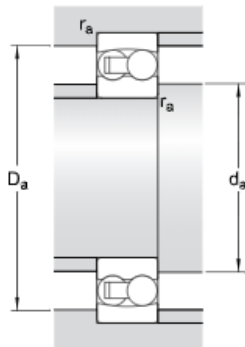


DIMENSIONS

d	100 mm	Bore diameter
D	180 mm	Outside diameter
B	46 mm	Width
d ₁	≈ 124 mm	Shoulder diameter inner ring
D ₁	≈ 156.9 mm	Shoulder diameter outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a min.	112 mm	Abutment diameter shaft
D _i max.	168 mm	Abutment diameter housing
r _a max.	2 mm	Fillet radius



CALCULATION DATA

C	97.5 kN	Basic dynamic load rating
C ₀	40.5 kN	Basic static load rating
P _u	1.76 kN	Fatigue load limit
	6 700 r/min	Reference speed
	4 800 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

	5 kg	Mass bearing
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