



2218 K Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

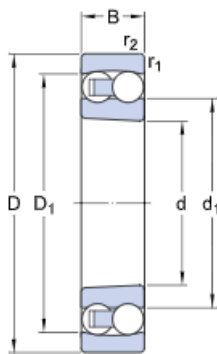
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

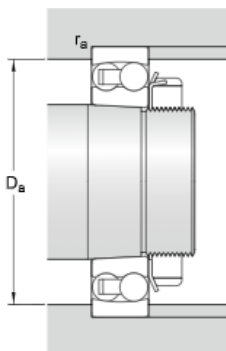


DIMENSIONS

d	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
Tapered bore, taper 1:12		

ABUTMENT DIMENSIONS

D _c 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

	3.2 kg	Mass bearing
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