



GE 90 ES

Radial spherical plain bearings

Bearing data

[Tolerances,](#)

[Radial internal clearance](#)

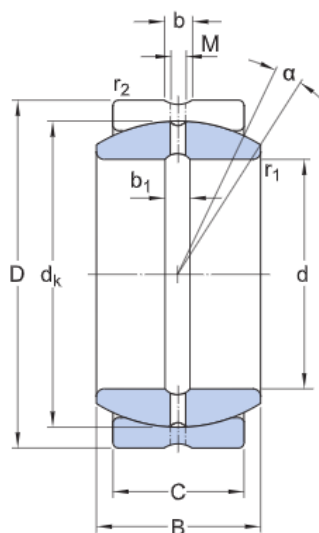
Radial location of bearings

[Recommended fits](#)

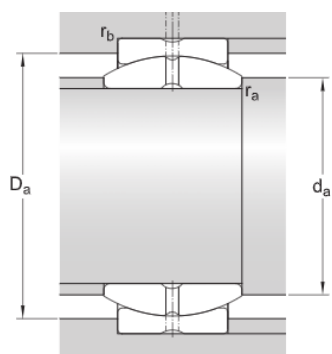
Technical specification

Lubricant	Regular relubrication – grease
Design (sliding contact surface combination)	Steel/steel
Sealing solution	No seals

DIMENSIONS



d	90 mm	Bore diameter
D	130 mm	Outside diameter
B	60 mm	Nominal width
C	50 mm	Width outer ring
α	5 °	Angle of tilt
dk	115 mm	Raceway diameter inner ring
b	9.5 mm	Width annular lubrication groove at outer ring
b ₁	9.5 mm	Width annular lubrication groove at inner ring
M	5 mm	Diameter lubrication hole (outer ring)
r ₁	min. 1 mm	Chamfer dimension bore
r ₂	min. 1 mm	Chamfer dimension outer ring



ABUTMENT DIMENSIONS

d_e min. 97.4 mm	Abutment diameter shaft
d_e max. 98.1 mm	Abutment diameter shaft
D_i min. 109.3 mm	Abutment diameter housing
D_i max. 123.5 mm	Abutment diameter housing
r_a max. 1 mm	Fillet radius shaft
r_b max. 1 mm	Fillet radius housing

CALCULATION DATA

Basic dynamic load rating	C	490 kN
Basic static load rating	C_0	2 450 kN
Specific dynamic load factor	K	100 N/mm
Specific static load factor	K_0	500 N/mm
Material constant	K_M	330

MASS

Mass plain bearing	2.75 kg
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More information

Product details Designs and variants Bearing data	Engineering information Principles of selection and application	Tools SKF Bearing Calculator Heater selection tool
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