



Image may differ from product. See technical specification for details.

GE 140 ES

Radial spherical plain bearing, requiring maintenance, metric sizes

Radial spherical plain bearings are designed to accommodate radial and combined radial and axial loads, and also misalignment. This specific design includes a steel/steel sliding contact surface combination. The bearings require maintenance and can be relubricated via lubrication holes and an annular groove in both rings.

- Designed for radial and combined radial and axial loads
- Suitable for heavy static, alternating or impact loads

Overview

Dimensions

Bore diameter	140 mm
Outside diameter	210 mm
Width, inner ring	90 mm
Width, outer ring	70 mm

Performance

Basic dynamic load rating	1 080 kN
Basic static load rating	5 400 kN

Properties

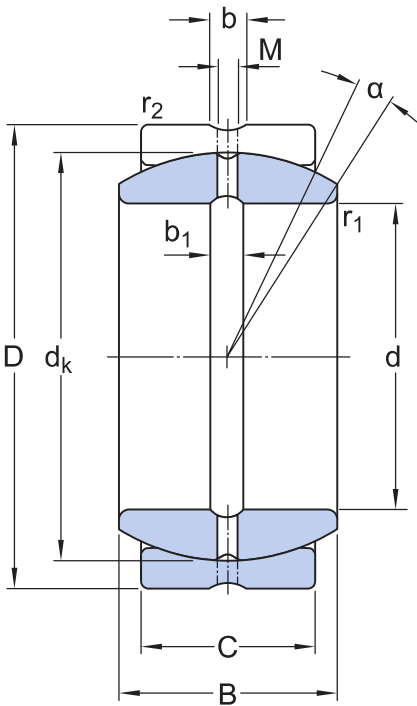
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Without
Relubrication feature	With

Logistics

Product net weight	10.8 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

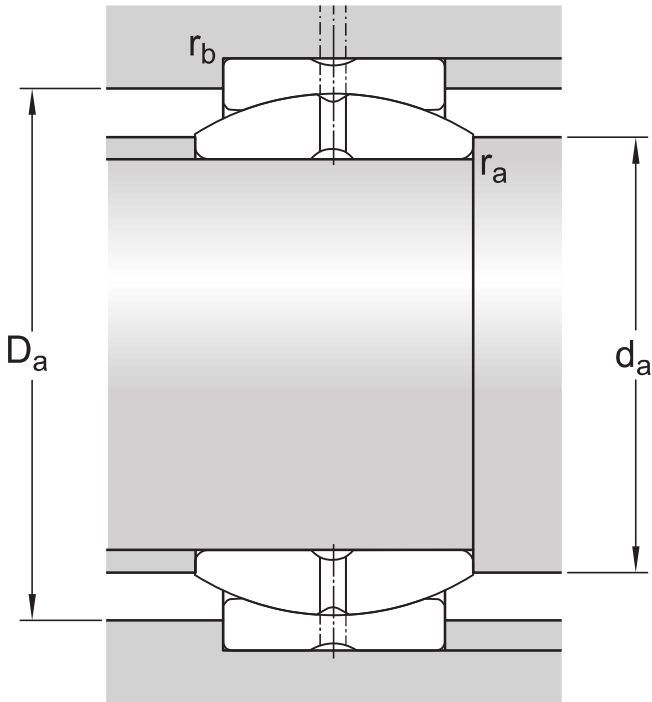
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Without



Dimensions

d	140 mm	Bore diameter
D	210 mm	Outside diameter
B	90 mm	Width
C	70 mm	Width outer ring
α	7 °	Angle of tilt
d_k	180 mm	Raceway diameter inner ring
b	13.5 mm	Width annular lubrication groove at outer ring
b_1	13.5 mm	Width annular lubrication groove at inner ring

M	6 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 _a	min. 149 mm	Abutment diameter shaft
d _a	max. 155.5 mm	Abutment diameter shaft
D _a	min. 171 mm	Abutment diameter housing
D _a	max. 202.5 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	1 080 kN
Basic static load rating	C ₀	5 400 kN
Specific dynamic load factor	K	100 N/mm ²
Specific static load factor	K ₀	500 N/mm ²

Material constant

 K_M

330




Tolerances and clearances

- [General bearing specifications](#)

RADIAL LOCATION OF BEARINGS

- [Recommended fits](#)

More Information

<div> Product details</div> <div>Radial spherical plain bearings requiring maintenance</div> <div>Maintenance-free radial spherical plain bearings</div> <div>General bearing specifications</div> <div>Temperature limits</div>	<div> Engineering information</div> <div>Principles of selection</div>	<div> Tools</div> <div>SKF Product select</div> <div>Heater selection tool</div>
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