

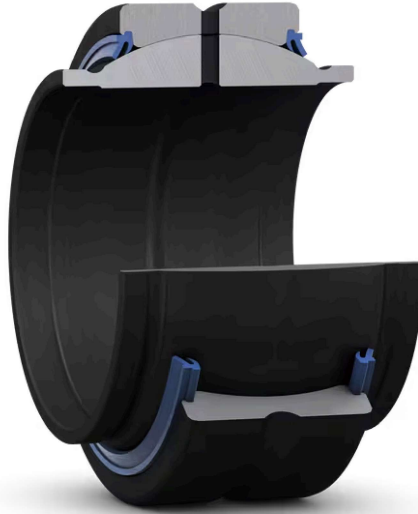


Image may differ from product. See technical specification for details.

GEM 30 ES-2RS

Radial spherical plain bearing, requiring maintenance, sealed, 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, an extended inner ring and a double-lip contact seal on both sides. 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
- Long service life
- Minimal maintenance
- Suitable for heavy static, alternating or impact loads
- Extended inner ring can save spacer rings

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	47 mm
Width, inner ring	30 mm
Width, outer ring	18 mm

Performance

Basic dynamic load rating	62 kN
Basic static load rating	310 kN

Properties

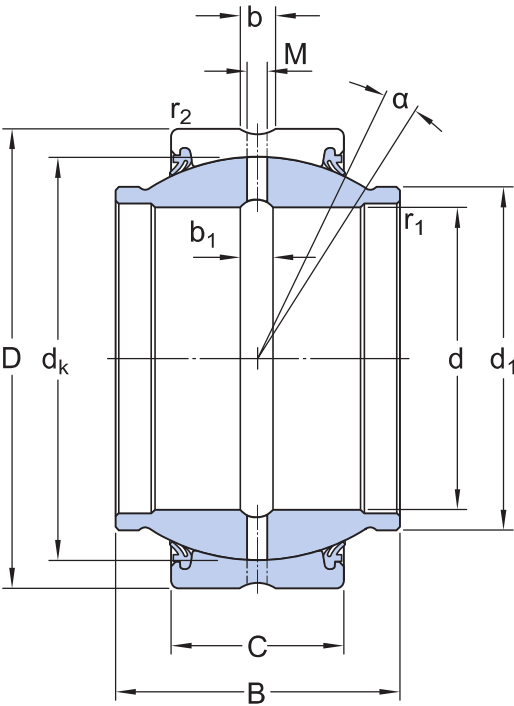
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Seal on both sides
Sealing type	Double-lip
Relubrication feature	With

Logistics

Product net weight	0.15 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

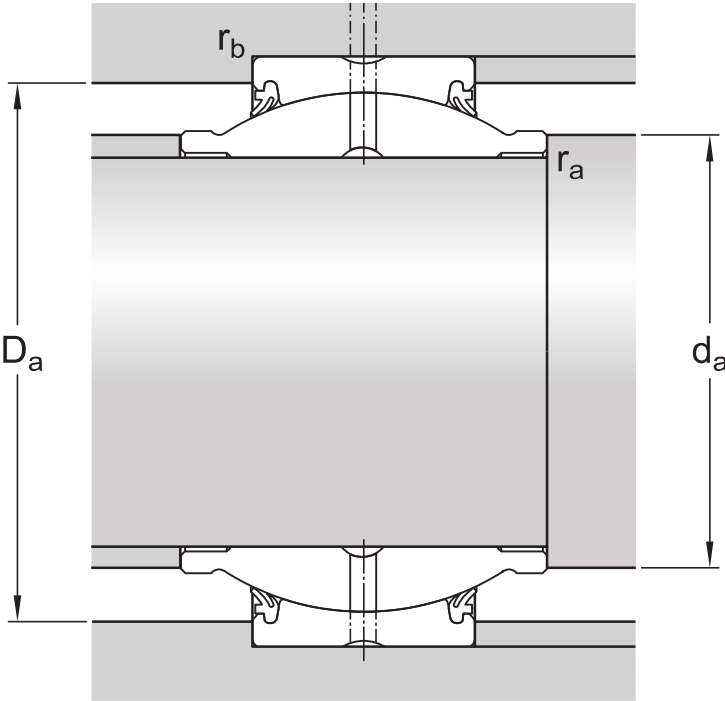
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Seal on both sides
Sealing type	Double-lip



Dimensions

d	30 mm	Bore diameter
D	47 mm	Outside diameter
B	30 mm	Width
C	18 mm	Width outer ring
α	4 °	Angle of tilt
d_k	40.7 mm	Raceway diameter inner ring
d_1	≈ 34 mm	Shoulder diameter cylindrical extension inner ring

b	3.1 mm	Width annular lubrication groove at outer ring
b ₁	3.2 mm	Width annular lubrication groove at inner ring
M	2 mm	Diameter lubrication hole (outer ring)
r ₁	min. 0.3 mm	Chamfer dimension bore
r ₂	min. 0.6 mm	Chamfer dimension outer ring



Abutment dimensions

d _a	min. 33.5 mm	Abutment diameter shaft
d _a	max. 34 mm	Abutment diameter shaft
D _a	min. 41.3 mm	Abutment diameter housing
D _a	max. 44 mm	Abutment diameter housing
r _a	max. 0.3 mm	Fillet radius shaft
r _b	max. 0.6 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	C	62 kN
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Basic static load rating	C_0	310 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

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