



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

GEH 30 ESX-2LS

SKF Explorer radial spherical plain bearing, virtually maintenance-free, sealed, metric sizes

These radial spherical plain bearings have an SKF Explorer steel/steel sliding contact surface combination. They are initially lubricated and have a triple-lip, heavy-duty contact seal on both sides. Compared to conventional steel/steel bearings, they have increased dynamic load ratings. Compared to the GE series, they have a wider inner ring and a larger outside diameter, which enable higher load ratings and larger tilt angles.

- Designed for radial and combined radial and axial loads
- Long service life
- Virtually maintenance-free
- Suitable for heavy static or impact loads
- Enable larger tilt angles

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	55 mm
Width, inner ring	32 mm
Width, outer ring	20 mm

Performance

Basic dynamic load rating	120 kN
Basic static load rating	400 kN
SKF performance class	SKF Explorer

Properties

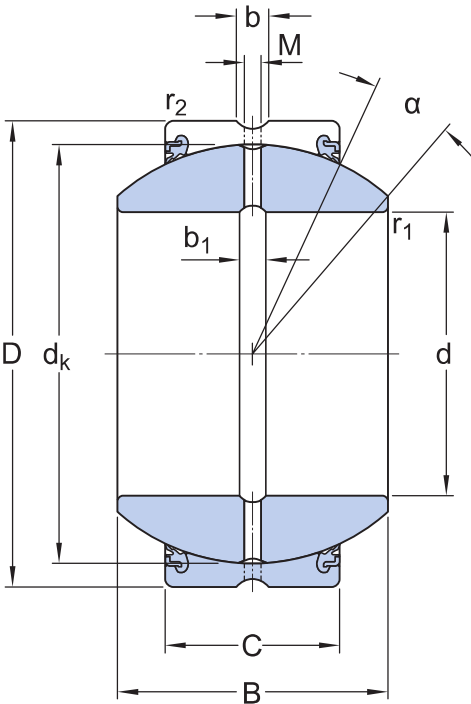
Sliding contact surface combination	Steel/steel, SKF Explorer
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Virtually maintenance-free
Radial internal clearance	CN
Sealing	Seal on both sides
Sealing type	Triple-tip
Relubrication feature	With

Logistics

Product net weight	0.284 kg
eClass code	23-05-01-06
UNSPSC code	31171515

Technical specification

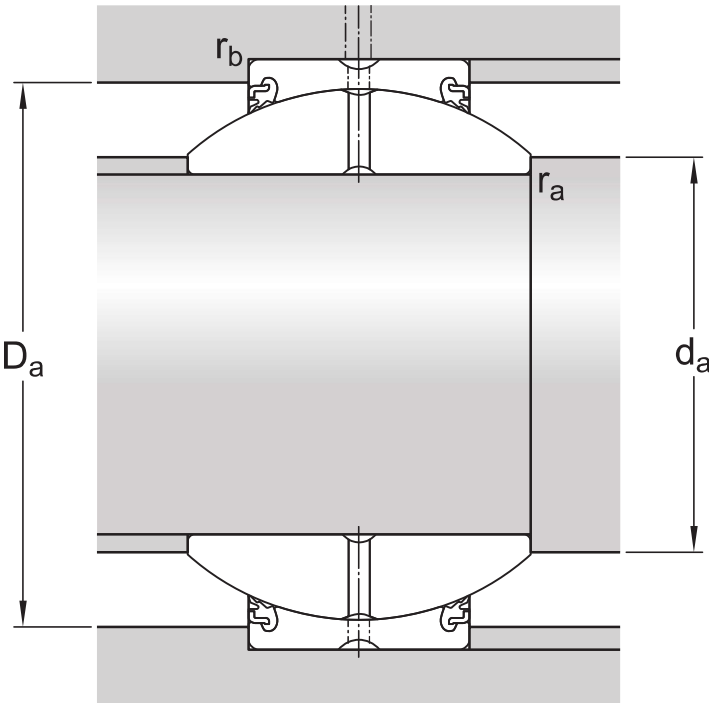
Maintenance	Virtually maintenance-free
Sliding contact surface combination	Steel/steel, SKF Explorer
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Seal on both sides
Sealing type	Triple-lip



Dimensions

d	30 mm	Bore diameter
D	55 mm	Outside diameter
B	32 mm	Width
C	20 mm	Width outer ring
α	17 °	Angle of tilt
d_k	47 mm	Raceway diameter inner ring
b	3.8 mm	Width annular lubrication groove at outer ring

b ₁	4 mm	Width annular lubrication groove at inner ring
M	2.5 mm	Diameter lubrication hole (outer ring)
r ₁	min. 0.6 mm	Chamfer dimension bore
r ₂	min. 1 mm	Chamfer dimension outer ring



Abutment dimensions

d _a	min. 33.7 mm	Abutment diameter shaft
d _a	max. 34.4 mm	Abutment diameter shaft
D _a	min. 48.5 mm	Abutment diameter housing
D _a	max. 50.9 mm	Abutment diameter housing
r _a	max. 0.6 mm	Fillet radius shaft
r _b	max. 1 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	C	120 kN
Basic static load rating	C ₀	400 kN
Specific dynamic load factor	K	150 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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