

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

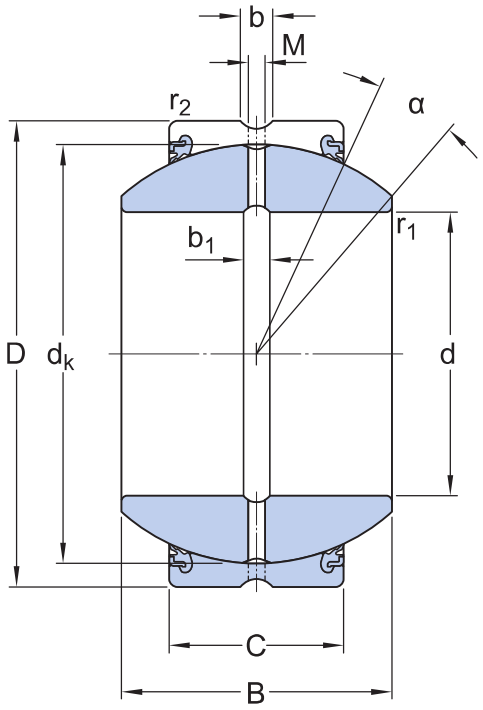
| | |
|---|---|
| Sliding contact surface combination | Steel/steel, SKF Explorer |
| Material, inner ring | Bearing steel |
| Material, outer ring | Bearing steel |
| Maintenance | Virtually maintenance-free |
| Radial internal clearance | CN |
| Sealing | Seal on both sides |
| Sealing type | Triple-lip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

## Logistics

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

## Technical specification

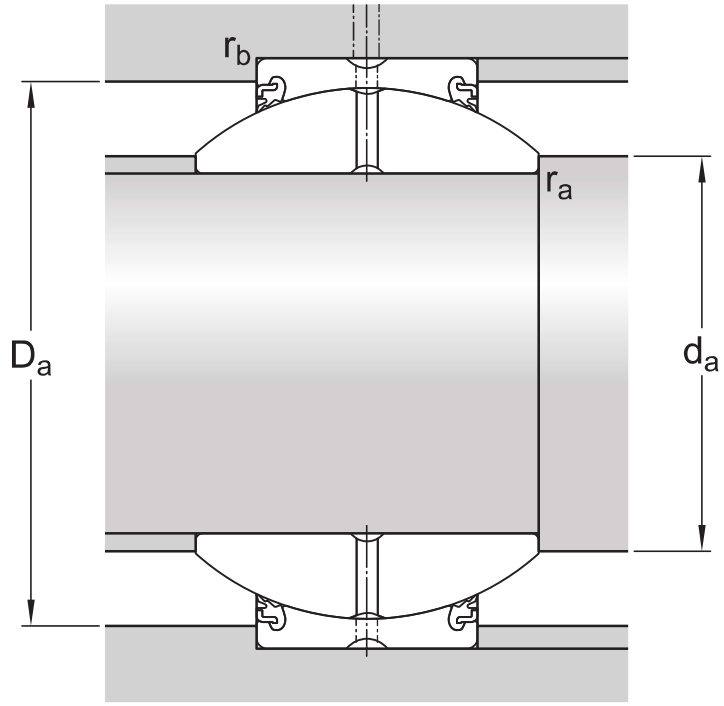
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| Material, outer ring | Bearing steel |
| Sealing | Seal on both sides |
| Sealing type | Triple-lip |




## 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/mm² |

| | | |
|---|---|---|
| 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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