



# GE 180 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 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

## Overview

### Dimensions

Bore diameter	180 mm
Outside diameter	260 mm
Width, inner ring	105 mm
Width, outer ring	80 mm

### Performance

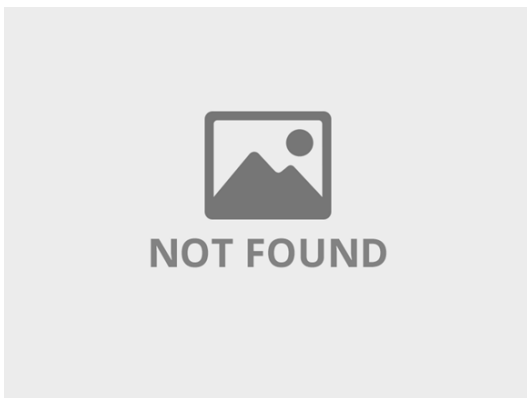
Basic dynamic load rating	1 530 kN
Basic static load rating	7 650 kN

### 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

## 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	180 mm	Bore diameter
D	260 mm	Outside diameter
B	105 mm	Width
C	80 mm	Width outer ring
$\alpha$	6 °	Angle of tilt
$d_k$	225 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. 1.1 mm	Chamfer dimension bore
$r_2$	min. 1.1 mm	Chamfer dimension outer ring

### Abutment dimensions

$d_a$	min. 191 mm	Abutment diameter shaft
$d_a$	max. 199 mm	Abutment diameter shaft
$D_a$	min. 224.5 mm	Abutment diameter housing
$D_a$	max. 250.5 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	1 530 kN
Basic static load rating	$C_0$	7 650 kN
Specific dynamic load factor	K	100 N/mm <sup>2</sup>
Specific static load factor	$K_0$	500 N/mm <sup>2</sup>
Material constant	$K_M$	330

## Mass

Mass plain bearing	18.5 kg
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