

**GE220-DO-2RS** [↗](#)

Spherical plain bearing

High performance radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, DIN ISO 12240-1, dimension series E, sealed
High-performance: For highest load rating and lifetime demands

Technical information



Your current product variant

| | | |
|---------------------------|----------------------|--|
| Maintenance | Maintenance required | |
| Material | Steel | |
| Sealing | 2RS | Lip seals on both sides |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Coating | Durotect M | Inner- and outer ring coated with Durotect M (Manganese Phosphate) |

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 220 mm | Bore diameter bearing |
| D | 320 mm | Outside diameter bearing |
| B | 135 mm | Width inner ring |
| C _r | 3.040.000 N | Basic dynamic load rating, radial |
| C _{0r} | 11.700.000 N | Basic static load rating, radial |
| ≈m | 35,5 kg | Weight |

Mounting dimensions

| | | |
|--------------------|----------|-------------------------------|
| r _{1smin} | 1,1 mm | Edge Spacing |
| r _{2smin} | 1,1 mm | Edge Spacing |
| d _{a max} | 239,5 mm | Connection measure Inner ring |
| D _{a min} | 267 mm | Housing Connection Diameter |



Dimensions









| | | |
|-------------------|--------------|--|
| C | 100 mm | Width Outer ring |
| d _K | 275 mm | Ball diameter |
| α | 8 ° | Tilt angle |
| d _{OT} | 0 mm | Bore diameter bearing, upper tolerance |
| d _{UT} | -0,03 mm | Bore diameter bearing, lower tolerance |
| D _{OT} | 0 mm | Outside diameter, upper tolerance |
| D _{UT} | -0,04 mm | Outside diameter, lower tolerance |
| B _{OT} | 0 mm | Width inner ring, upper tolerance |
| B _{UT} | -0,3 mm | Width inner ring, lower tolerance |
| C _{OT} | 0 mm | Width outer ring, upper tolerance |
| C _{UT} | -0,8 mm | Width outer ring, lower tolerance |
| G _r | 0,11 - 0,214 | Radial Clearance |
| G _{rmax} | 0,192 mm | Radial clearance, maximum |
| G _{rmin} | 0,1 mm | Radial clearance, minimum |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 130 °C | Operating temperature max. |



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Sealed on both sides
-  Large bearing
-  Static angular error and misalignment
-  Dynamic angular error and misalignment