

**GE500-DO**

## Spherical plain bearing

Radial spherical plain bearing, requiring maintenance, sliding contact surface: steel/steel, DIN ISO 12240-1, dimension series C, open design

## Technical information



## Your current product variant

Maintenance	Maintenance required
Material	Steel
Sealing	Without
Radial internal clearance	CN (Group N) Normal internal clearance
Coating	Durotect M Inner- and outer ring coated with Durotect M (Manganese Phosphate)

## Main Dimensions &amp; Performance Data

d	500 mm	Bore diameter bearing
D	670 mm	Outside diameter bearing
B	230 mm	Width inner ring
C <sub>r</sub>	14.300.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	54.900.000 N	Basic static load rating, radial
≈m	244,4 kg	Weight

## Mounting dimensions

r <sub>1smin</sub>	2 mm	Edge Spacing
r <sub>2smin</sub>	5 mm	Edge Spacing
d <sub>a max</sub>	537,9 mm	Connection measure Inner ring
D <sub>a min</sub>	557 mm	Housing Connection Diameter



### Dimensions

C	195 mm	Width Outer ring
d <sub>K</sub>	585 mm	Ball diameter
α	3,6 °	Tilt angle
d <sub>OT</sub>	0 mm	Bore diameter bearing, upper tolerance
d <sub>UT</sub>	-0,045 mm	Bore diameter bearing, lower tolerance
D <sub>OT</sub>	0 mm	Outside diameter, upper tolerance
D <sub>UT</sub>	-0,075 mm	Outside diameter, lower tolerance
B <sub>OT</sub>	0 mm	Width inner ring, upper tolerance
B <sub>UT</sub>	-0,45 mm	Width inner ring, lower tolerance
C <sub>OT</sub>	0 mm	Width outer ring, upper tolerance
C <sub>UT</sub>	-1,1 mm	Width outer ring, lower tolerance
G <sub>r</sub>	0,145 - 0,285	Radial Clearance
G <sub>rmax</sub>	0,285 mm	Radial clearance, maximum
G <sub>rmin</sub>	0,145 mm	Radial clearance, minimum

### Temperature range

T <sub>min</sub>	-60 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment