

**GE50-DO-2TS**

## 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	
Type of Sealing	2TS	Integrated triple lip high performance 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 &amp; Performance Data

d	50 mm	Bore diameter bearing
D	75 mm	Outside diameter bearing
B	35 mm	Width inner ring
C <sub>r</sub>	204.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	785.000 N	Basic static load rating, radial
m	0,53 kg	Weight

## Mounting dimensions

r <sub>1min</sub>	0,6 mm	Edge Spacing
r <sub>2min</sub>	1 mm	Edge Spacing
d <sub>a max</sub>	55,9 mm	Connection measure Inner ring
D <sub>a min</sub>	63 mm	Housing Connection Diameter



## Dimensions

C	28 mm	Width Outer ring
d <sub>K</sub>	66 mm	Ball diameter
α	6 °	Tilt angle
d <sub>OT</sub>	0 mm	Bore diameter bearing, upper tolerance
d <sub>UT</sub>	-0,012 mm	Bore diameter bearing, lower tolerance
D <sub>OT</sub>	0 mm	Outside diameter, upper tolerance
D <sub>UT</sub>	-0,013 mm	Outside diameter, lower tolerance
B <sub>OT</sub>	0 mm	Width inner ring, upper tolerance
B <sub>UT</sub>	-0,12 mm	Width inner ring, lower tolerance
C <sub>OT</sub>	0 mm	Width outer ring, upper tolerance
C <sub>UT</sub>	-0,3 mm	Width outer ring, lower tolerance
G <sub>r</sub>	0,06 - 0,12	Radial Clearance
G <sub>rmax</sub>	0,12 mm	Radial clearance, maximum
G <sub>rmin</sub>	0,06 mm	Radial clearance, minimum

## Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	100 °C	Operating temperature max.

## Characteristics

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