

**GE90-SW**

Spherical plain bearing

Angular contact spherical plain bearing, maintenance-free, DIN ISO 12240-2, inner ring curved surface with hard chromium coating, open design

Technical information

**Your current product variant**

| | |
|------------------------|------------------|
| Maintenance | Maintenance free |
| Material sliding Layer | ELGOGLIDE |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 90 mm | Bore diameter bearing |
| D | 140 mm | Outside diameter bearing |
| T | 32 mm | Height |
| B | 30 mm | Width inner ring |
| C_r | 941.000 N | Basic dynamic load rating, radial |
| C_{0r} | 1.570.000 N | Basic static load rating, radial |
| $\approx m$ | 2,111 kg | Weight |

Mounting dimensions

| | | |
|-------------|----------|-------------------------------|
| r_{1smin} | 2 mm | Edge Spacing |
| r_{2smin} | 0,6 mm | Edge Spacing |
| $d_{a max}$ | 100,8 mm | Connection measure Inner ring |
| $D_{b min}$ | 132 mm | Connection diameter |
| $d_{b max}$ | 118 mm | Connection measure Inner ring |
| $D_{a min}$ | 112 mm | Housing Connection Diameter |



Dimensions

| | | |
|----------|----------|--|
| d_K | 130 mm | Ball diameter |
| D_1 | 103,3 mm | Bore diameter of housing washer |
| C | 30 mm | Width Outer ring |
| s | 11 mm | Plane Surface Spacing |
| α | 1,8 ° | Tilt angle |
| d_{OT} | 0 mm | Bore diameter bearing, upper tolerance |
| d_{UT} | -0,02 mm | Bore diameter bearing, lower tolerance |
| D_{OT} | 0 mm | Outside diameter, upper tolerance |
| D_{UT} | -0,02 mm | Outside diameter, lower tolerance |
| T_{OT} | 0,25 mm | Height, upper tolerance |
| B_{OT} | 0 mm | Width inner ring, upper tolerance |
| T_{UT} | -0,25 mm | Height, lower tolerance |
| B_{UT} | -0,4 mm | Width inner ring, lower tolerance |
| C_{OT} | 0 mm | Width outer ring, upper tolerance |
| C_{UT} | -0,4 mm | Width outer ring, lower tolerance |

Temperature range

| | | |
|-----------|--------|----------------------------|
| T_{min} | -50 °C | Operating temperature min. |
| T_{max} | 150 °C | Operating temperature max. |

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Lifetime lubrication, freedom from maintenance |
|  | Not sealed |
|  | Static angular error and misalignment |
|  | Dynamic angular error and misalignment |