Schaeffler’s new series of FAG ball bearings for generators and electric motors are specifically tailored to the customer’s needs. All of these bearings feature a sheet steel cage, which provides the following advantages compared to a standard solid brass cage:

- Easier bearing relubrication in the application
- Reduced weight
- Reduced noise generation thanks to optimized cage pocket geometry

The series includes two variants that additionally provide protection against the passage of current by means of either coated inner or outer rings or ceramic balls.

www.schaeffler.de/en
Ball Bearings for Generators and Electric Motors

The new series of ball bearings bears the suffix “-G” (e.g. 6330-G) and features the same outside dimensions as standard deep groove ball bearings according to DIN 620. The design has been customized for use in generators and electric motors. Three variants are available depending on the application:

**Standard steel variant (e.g. 6330-G)**
- All components made from high-quality bearing steel
- Easier relubrication thanks to the sheet steel cage
- Reduced noise generation due to optimized cage pocket geometry

**Variant with current-insulating coating (e.g. 6330-G-J20GA):**
- Inner or outer ring coated with Schaeffler’s INSUTECT (ceramic) coating
- Secure protection against disruptive voltages of 1,000 V DC to 5,000 V DC through the use of different coating thicknesses
- INSUTECT coating provides outstanding protection even in high levels of humidity

**Variant with current-insulating ceramic balls (e.g. HC6330-G):**
- Rolling elements made from high-quality ceramic material provide optimum insulation protection
- Longer bearing and grease operating life
- Ceramic balls ensure optimum emergency running characteristics

The bearing characteristics are described as follows in the product designation:

**BEARING DESIGNATION EXAMPLES**
- 6330-G: Steel rings, steel balls, riveted sheet steel cage
- 6330-G-J20GA: Coated outer ring, steel inner ring, steel balls, riveted sheet steel cage
- HC6330-G: Steel rings, ceramic balls, sheet steel cage
* For tolerance class P5 with ring coating, please contact our application engineer.