





# The GGB Advantage

Reduce downtime and improve equipment performance

#### LOW FRICTION AND HIGH WEAR RESISTANCE

Low coefficients of friction eliminate the need for lubrication while reducing wear and extending service life.

### MAINTENANCE-FREE

Ideal for applications requiring long bearing life without continuous maintenance or operating conditions with little or no lubrication.

## **LOWER SYSTEM COST**

Reduce shaft costs by eliminating the need for hardening and machining grease paths. Compact, one-piece construction provides space and weight savings and simplifies assembly.

### **ENVIRONMENTAL**

Greaseless, lead-free bearings comply with increasingly stringent environmental regulations such as the RoHS directive for electrical and electronic equipment.

# Your Complete Bearing Solutions Provider

GGB offers a comprehensive selection of plain bearing solutions to meet the world's most demanding bearing needs. We manufacture Metal-Polymer, Solid Polymer, Filament Wound, Metal and Bi-Metal bearings in addition to a range of supporting assemblies, bushing blocks and thrust plates. Industries served include:

- Oil & Gas
- Aerospace
- Construction
- Agriculture
- Automotive

- Recreational
- Energy
- Fluid Power
- General Industrial
- Primary Metals

### **GLOBAL FOOTPRINT**

GGB operates manufacturing, sales, service and support locations around the globe. This vast network of resources and expertise enables us to respond promptly to your bearing needs wherever you do business. Our global management and manufacturing systems comply with all major international quality, environmental and safety standards and certifications.



Distributor in Norway:

## **SERVI AS**

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an EnPro Industries company

The Global Leader in High Performance Bearing Solutions



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# High Performance Bearing Solutions for Oil & Gas Applications

The Global Leader in High Performance Bearing Solutions



## **Applications**

GGB bearings offer exceptional performance over a wide range of load, speed and temperature conditions. The self-lubricating materials are resistant to wear, chemicals, cavitation, flow erosion and fatigue, making them ideal for a wide range of uses in oil and gas operations. From the top of the derrick to the ocean floor and from the pipeline to the pump, our bearing solutions provide longer service life, reduced maintenance and grease-free operation in the following applications:







TOP DRIVE UNITS



**PUMP JACKS** 



**DRAW WORKS** 



**BLOWOUT PREVENTERS** 



**VALVES** 



MARINE RISERS AND TENSIONERS



PLATFORM CRANES AND SHEAVES



**HEAVE WINCH / FAIRLEAD** 



WATERTIGHT / GASTIGHT DOORS, HATCHES & COVERS

## Products that fuel innovation

In the unforgiving conditions of the oil and gas industry, high stress, heat and contamination constantly threaten the functionality of drilling, production and processing equipment. In these environments, where safety is paramount and downtime is costly, GGB's high-performance bearing solutions provide the performance and durability to keep oil and gas operations running smoothly.



## DP4<sup>™</sup>

Good wear and low friction performance in a wide range of dry-running loads, speeds and temperatures. Suitable for use in linear, oscillating and rotating movement applications and also performs well in lubricated uses.



## DU®

Consists of a metal-polymer composite material that provides very good wear and friction performance in dry running applications. Also suitable for use in oil lubricated conditions.



## DB™

Maintenance-free design provides excellent performance under high loads and intermittent operation in heavy-duty applications. Graphite inserts are available for temperatures exceeding 250°C.



## HSG™

Excellent shock, contamination and misalignment resistance combined with very good friction and wear properties. Also features good chemical resistance and high static load capacity.



## **GAR-MAX®**

Filament wound construction features high load capacity and excellent shock, misalignment and contamination resistance. Also provides very good friction and wear properties in dry conditions.

