



Your Complete Bearing Solutions Provider

GGB offers a comprehensive selection of plain bearing solutions to meet the worlds' 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:

- Aerospace
- Automotive
- Energy
- Fluid Power
- Industrial
- Primary Metals
- Construction/Agriculture
- Recreation

GLOBAL FOOTPRINT

GGB has 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.

With extensive experience and expertise in the hydropower industry, GGB offers a line of high quality performance-proven bearings for a variety of applications, including:

- Servomotors
- Operating ring sliding segments
- Linkages
- Wicket gates
- Guide vanes
- Intake gate sliding segments and rollers
- Spillway gates
- Trash gates
- Fish screens
- Trunnions
- Blades
- Injectors
- Deflectors
- Ball and butterfly trunnions
- Hydraulic cylinders



Distributor in Norway:

SERVI AS
 Rasmus Solbergs vei 1
 Post Box 3230
 1402 Ski
 +47 64 97 97 97
 post@servi.no
www.servi.no

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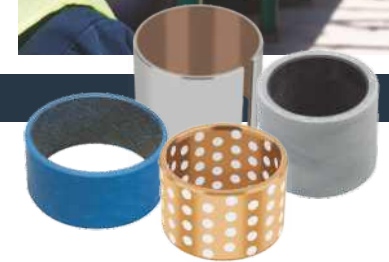


an EnPro Industries company

The Global Leader in High Performance Bearing Solutions



FL901ENG09-15USA



High Performance Bearing Solutions for Hydro Power Applications

The Global Leader in High Performance Bearing Solutions



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Other GGB Products for Hydro Power Applications

DB™

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

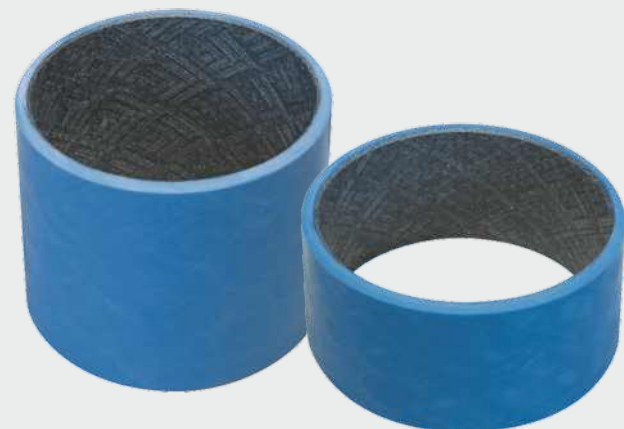


HPMB® – Hydro Power Machinable Bearing

HPMB® bearings provide superior performance in dry and water-lubricated applications with high loads, tight clearances and slow rotating or oscillatory movements. They also provide a wide temperature range and low thermal expansion for consistent performance under varying conditions and have been approved for use in water turbines by the USA Army Corps of Engineers.

FILAMENT WOUND

GGB pioneered the filament wound construction technique. The new HPMB® takes this process to new heights with a machinable inner and outer diameter, excellent strength and impact resistance, corrosion resistance and negligible water absorption.

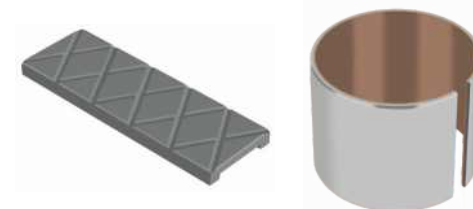


Characteristics:

- Machinable inner and outer diameters for superior application precision, circularity and cylindricity tolerances
- Pre-machined high precision HPMB® bearings available for immediate installation
- Hi precision through easy single point machining of the bearing liner, on-site prior to installation
- Superior precision achieved with post-installation (inner diameter tolerance IT7 attainable) single point machining of the bearing liner
- High load capacity and unrivaled dithering performance
- Excellent shock and edge loading capacity
- Low friction with negligible stick-slip
- Low wear rate for extended bearing life
- Excellent corrosion resistance
- Dimensionally stable – negligible water absorption, low swelling
- Environmentally friendly grease-free operation

GGB-CBM®

Manufactured using a powder metallurgy process to produce a metallic matrix with homogeneously distributed solid lubricant (graphite, MoS₂), which forms a lubricant film with the products' motion, these bearings are self-lubricating for maintenance-free performance and provide high load capacity, a broad temperature range and corrosion resistance.



HPM™/HPF™

These environmentally friendly composite bearing materials were specifically designed for hydro power applications. The maintenance-free, self-lubricating bearings require no additional lubrication and have been approved for usage in water turbines by the USA Army Corps of Engineers.



For additional market / product offerings, go to www.ggbearings.com