



GGB's New HPMB® Bearings

From hydraulics to railroads, GGB's new HPMB® bearings provides exceptional dimensional control and class-leading tribological properties.

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. It is available in standard configurations.

APPLICATIONS

HPMB® bearings provide very good 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.

Some common applications include:

- Injection molding machines
- Hydraulic cylinder pivots
- Stabilization systems
- ATV/Snowmobile CVT transmissions
- Brake linkages

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:

- 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.

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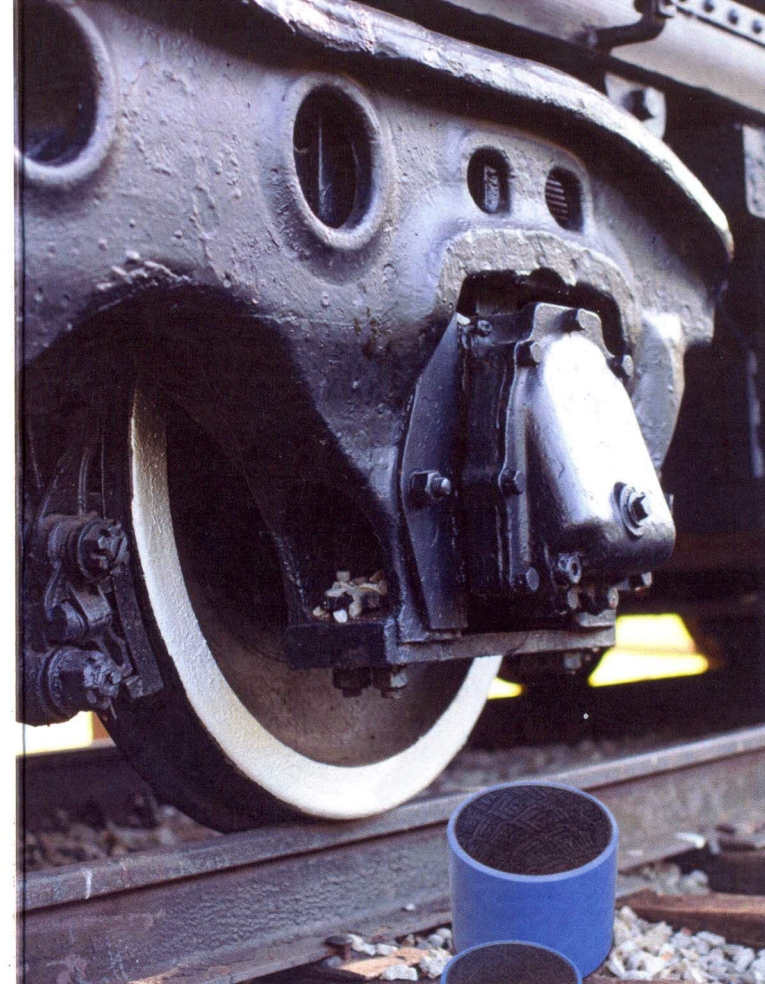


an EnPro Industries company

The Global Leader in High Performance Bearing Solutions



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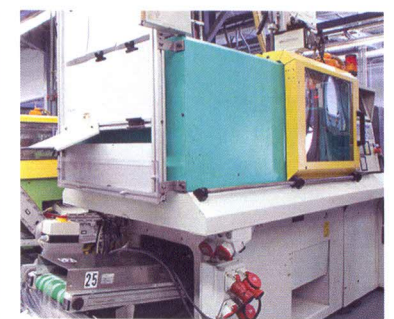
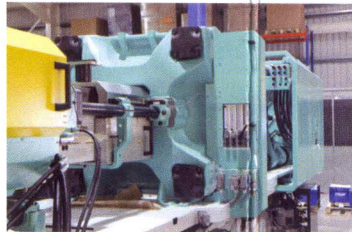
HPMB® Filament Wound Machinable Bearings

Industrial Bearing Solutions for Demanding Applications

The Global Leader
in High Performance Bearing Solutions



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GGB HPMB®
Cylindrical Bushings



HPMB® Bearing Material

STRUCTURE

Fiber and Epoxy Resin Composite Material

CHARACTERISTICS

- Machinable inner and outer diameters for superior application precision, circularity and cylindricity tolerances
- Pre-machined high precision HPMB® bearing available for immediate installation
- High precision through easy single point machining of the inner 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
- Excellent shock and edge loading capacity
- Low friction with negligible stick-slip

- Low wear rate for extended bearing life
- Excellent corrosion resistance
- Dimensionally stable - very low water absorption, low swelling
- Environmentally friendly grease-free operation

APPLICATIONS

Railroad stabilization systems, railroad brake linkages, injection molding machines – guide bushings, hydraulic cylinder pivots, water turbines – wicket gates, servomotors, links, water gates, valves.

AVAILABILITY

Bearing forms made to order: Finished cylindrical bushings, pre-machined cylindrical bushings, flanged cylindrical bushings (subject to design review).

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