

THE GGB ADVANTAGE



LOWER SYSTEM COST

GGB® bearings can help to reduce shaft costs by eliminating the need for hardening and machining grease paths. Their compact, one-piece construction provides space and weight savings and simplifies assembly.



LOW FRICTION, HIGH WEAR RESISTANCE

Low friction is vital for efficient machine efficiency and wear resistance critical for durability and service life. Low friction also minimizes the risk of stick-slip or stiction effects during start up. Railroad and tramway equipment manufacturers rely on our plain bearings and polymer coating solutions for grease-free and maintenance-free operation.



MAINTENANCE-FREE

GGB bearings are self-lubricating, making them ideal for applications requiring long bearing life without continuous maintenance, as well as operating conditions with inadequate or no lubrication.



ENVIRONMENTAL

Greaseless, lead-free GGB bearings comply with increasingly stringent environmental regulations such as the EU RoHS directive, restricting the use of hazardous substances in electrical and electronic equipment.



CUSTOMER SUPPORT

GGB's flexible production platform and extensive supply network assure quick turnaround and timely deliveries. In addition, we offer local applications engineering and technical support.



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.



BEARING AND COATINGS SOLUTIONS FOR RAILROADS & TRAMWAYS

RAILROAD AND TRAMWAY EQUIPMENT

Railroad and tramway equipment manufacturers rely on our plain bearings and polymer coatings solutions for grease-free and maintenance-free performance, and extended service life under harsh operating and environmental conditions. Our bearings provide superior performance and lower cost of ownership without the need for complex automated greasing systems.

Learn more about GGB railroad bearings:



Stronger. Together.

With our extensive global presence and deep expertise in various applications, our capabilities are pushing the boundaries. We strive to expand the horizons of what's achievable, encouraging customers from all industries to collaborate with us and foster innovation together.

Today, our products can be found everywhere – from scientific vessels at the bottom of the ocean to racecars speeding down the tarmac to the Curiosity rover exploring the surface of the Mars.

- ✓ Ramps for passenger accessibility
EP® Series, DP4®

- ✓ Door opening system bushes
HSG, GAR-MAX®, MLG, DP4®, EP® Series

- ✓ Fold down seats hinges
EP® Series, DP4®

- ✓ Pantograph bushes
MLG, EP® Series,
DP4-B, DU-B

- ✓ Railway barrier bearings
EP® Series, DP4®

- ✓ Various hinges for vehicle interior
EP® Series, DP4®

- ✓ Hook guide plates
HPF, GGB-MEGALIFE®XT

- ✓ Couplings that connect train cars
HSG, GAR-MAX®, MLG

- ✓ Bogie System Components

- Brake linkages
HSG, GAR-MAX®, MLG
- Anti-roll bar bushes
GAR-MAX®, GAR-FIL
- Friction damper bushes
HSG, GAR-MAX®, DP4®
- Horn block axial guide plates
HPF
- Side bearer liners
HPF, GGB-MEGALIFE®XT
- King pin bushes
HPMB®, HSG, GAR-MAX®
- Center pivot liner
HPF



Learn more about TriboShield® polymer coatings and TriboMate® paired coatings solutions for Railroad applications.

GGB PRODUCTS

The following products are particularly well suited in railroad and tramway equipment applications*. Contact your local GGB sales representative for a customized surface solution and design assistance.



DP4®

Lead-free metal-polymer bearing material offering low friction and good wear resistance in both dry and lubricated applications. Suitable for linear, oscillating, and rotating movements.



DP4-B

Same advantages as DP4, plus the added benefit of an anti-magnetic bronze backing for improved corrosion resistance in humid/saline environments.



DX®

DX bearing material offers optimum performance under relatively high loads and low speeds.



HSG

High Strength GAR-MAX bearings offer twice the static load capacity of standard GAR-MAX, plus very good friction, and wear properties.

They also provide excellent resistance to shocks, misalignment, chemicals and contamination.



GGB-MEGALIFE® XT

GGB-MEGALIFE XT thrust washers offer excellent contamination resistance and misalignment resistance.



www.ggbearings.com



Stronger. Together.

Order-No. 11648

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GAR-MAX®

GAR-MAX fiber reinforced composite bearing material is known for its high load capacity and excellent shock and misalignment resistance.



EP® Engineered Plastics Bearings

Created out of thermoplastic bearing material, our series of EP bearings provide excellent wear resistance and low friction in both dry and lubricated operating conditions. In addition to their high shock-load resistance and noise-dampening properties, our EP bearings provide environmentally friendly, quiet, and grease-free operation.



TriboShield® & TriboMate® Polymer Coatings Solutions

Our TriboShield formulations cover the full spectrum of mechanical, thermal and chemical capabilities offered by today's coatings materials. Your bearing or coating performance can be enhanced with our TriboMate paired solutions.



*Performance depends on different operating conditions.

