On Track for Improved Railway Performance
A proud history and bright future

Railways today are experiencing significant changes in the quest for greater efficiency, reliability and performance. These advancements require careful consideration of design issues, lifetime estimations, stress calculations, technical support and price factors.

Advancements in railway transportation require careful consideration of a variety of issues, including design and price factors.

In evaluating these factors, many manufacturers often rely on outdated “proven” designs that ignore the potential offered by newer technologies and design strategies. This approach can put greater stress and loads on railway components and jeopardize cargo and passenger safety.

Going beyond business as usual

Relying on outdated designs can have serious consequences. As an example:

Manufacturers often use traditional plastic bearings in their cold-tempered EMU brake calipers.

In very low temperatures these bearings can cause the calipers and braking system to fail.

This can result in significant financial liability and reputation costs to the manufacturer.

By partnering with a tribological expert early in the design phase, a newer type of bearing material that withstands a much wider temperature range could have been used.

What if there was a way to increase the effectiveness of your design while meeting cost-saving targets?
The GGB solution

By partnering with you early in the design process, the GGB engineering team is able to review your assemblies and make sure both the bearing and surrounding components are optimized for performance and cost-effectiveness.

Partnering early in the design phase also increases your customers’ satisfaction by identifying ways to reduce noise and vibration, increase energy efficiency and extend maintenance intervals.

With early collaboration, GGB provides the following benefits:

- Railway application experts
- Global footprint
- Fast turnaround for prototypes
- Improved overall system efficiency
- Increased cost effectiveness

GGB railway applications

The advantage of GGB products:
- Self-lubricating, maintenance-free
- Low friction and high load capacity
- Corrosion and contamination resistance
- Wide temperature range
- Low noise

Bogies
- Anti-roll bar bushes
  - GAR-MAX®, GGB-DB®, GGB-CSM®, GAR-FIL®
- Friction damper parts
  - HSG, GAR-MAX®, GGB-DB®, GGB-CSM®, DP4, Spherical bearings
- Horn block axial guide plates
  - HPF®
- Side bearer liners
  - HPF®, GGB-MEGALIFE™ XT
- Current collector bushes
  - HSG, GAR-MAX®, GGB-DB®, GGB-CSM®, MLG
- King pin bushes
  - HPMB®, HSG, GAR-MAX®, GGB-DB®, GGB-CSM®, GGB-CBM®
- Center pivot liner
  - HPF®

Couplers
- HSG, GAR-MAX®, MLG

Brakes
- Brake linkages
  - HSG, GAR-MAX®, GGB-DB®, GGB-CSM®, MLG
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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