



# Your Complete Tribological Service Provider

GGB offers a comprehensive selection of products to meet the world's most demanding surface engineering needs. We manufacture metal-polymer, engineered plastics, fiber reinforced composite, metal and bimetal bearings and polymer coatings along with a range of supporting assemblies, bushing blocks and thrust plates.

### Industries served include:

- Aerospace
- Automotive
- Industrial
- Agricultural
- Construction
- Oil and Gas
- Energy
- Fluid Power
- Primary Metals
- Recreation
- Railway
- Solar
- Packaging



## The GGB Advantage



### LOW FRICTION, 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 service life without regular 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 solutions comply with increasingly stringent environmental regulations such as the RoHS directive for electrical and electronic equipment.

## 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.



### GGB North America

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## AuGlide™ Solutions

**SMALL FOOTPRINT.  
BIG RESULTS.**

GGB, an EnPro Industries company



# Green Engineered Solutions for Hard-Working Applications

As heavy-duty industrial applications continue to grow and expand, so does the need for environmentally friendly, lead-free solutions that can withstand them. And just because the application is harsh, doesn't mean that your solution has to be.

GGB's AuGlide™ tribological solutions are lead-free and designed with a smaller environmental footprint. But they're also optimized for the most demanding applications that require high performance under extreme loads, including shock loads and low-frequency, oscillating movements.

## SUSTAINABILITY WITHOUT COMPROMISING DURABILITY

Lead-free and compliant with RoHS specifications, AuGlide™ is designed for high load capacities. A bimetal composition with steel backing and bronze overlay offers better resistance to fatigue strength at high temperatures—even in the most demanding conditions.

## DESIGNED FOR HEAVY-DUTY APPLICATIONS AND EQUIPMENT

### Industrial

- Agricultural machinery
- Earth-movers
- Textile machinery
- Pneumatic equipment
- Mechanical handling and lifting equipment
- Hydraulic cylinders
- Off-highway equipment
- And many more...

### Automotive

- **Transmissions**
- King pin bushes
- Truck brake caliper bushes



## AuGlide™

### CHARACTERISTICS

- Lead-free
- Machinable
- Design freedom – customizable to meet specific indentation and shape needs
- Capable of supporting high specific loads and high temperatures
- Excellent fatigue strength under dynamic and shock load conditions
- Excellent wear resistance
- Suitable for hydrodynamic operation
- Suitable for oil and grease lubrication
- Superior performance under oscillating movement
- Thin-wall construction permits compact bearing assembly
- Indents in the bearing surface provide a reservoir for grease and thus allow extended re-greasing intervals



## Partner With GGB

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.

Contact your local GGB sales representative for product selection and design assistance.

To learn more, visit: <https://www.ggbearings.com>

### MECHANICAL PROPERTIES

Bearing Properties	Symbol	Value	AuGlide™
Maximum sliding speed	$U_{max}$	m/s	2.5
Maximum pU factor	grease/oil lubrication $\bar{p}U$	N/mm <sup>2</sup> x m/s	2.8
Coefficient of friction	grease-lubricated oil-lubricated $\mu$	-	0.05-0.12 0.04-0.12
Max. temperature	grease-lubricated oil-lubricated $T_{max}$	°C	150 250
Min. temperature	$T_{min}$	°C	-40
Maximum load	static dynamic $\bar{p}$	N/mm <sup>2</sup>	300 140
Shaft surface finish Ra	Ra	µm	≤0.8
Shaft hardness	normal for longer service life HB	-	>200 >350