



## The GGB Advantage



### LOWER SYSTEM COST

GGB® bearings 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. Packaging machinery manufacturers rely on our plain bearings and polymer coating solutions for grease free and maintenance 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.

## Who We Are

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, along with a range of tribological TriboShield® Polymer Coatings.

Our products are used in tens of thousands of critical applications every day on our planet. It is always our goal to provide superior, high-quality solutions for our customers' needs, no matter where those demands take our products. From space vehicles to golf carts and virtually everything in between; we offer the industry's most extensive range of high performance, maintenance-free bearing solutions for a multitude of applications.



### 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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GGB is part of The Timken Company's portfolio of engineered bearings and industrial motion products.



## High Performance Bearings for Packaging Machinery

Stronger. Together.



## PACKAGING MACHINERY

Among the industries we serve are manufacturers of packaging equipment, where the durability and maintenance-free properties of our bearing materials and coatings make them ideal for use in a variety of applications, offering the following advantages:

- withstand high temperatures,
- withstand high loads and speeds,
- resist the corrosive effects of frequent cleaning with chemicals,
- provide high positioning accuracy for minimum play,
- lightweight,
- quiet operation,
- simple design,
- avoid maintenance,
- eliminate fretting debris,
- ideal in partial rotation applications.



## GGB PRODUCTS

The following products are particularly well suited to packaging machinery applications.

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



### DU®

Original iconic all-purpose metal-polymer product that offers exceptional wear resistance with low friction over a wide range of dry and lubricated running conditions.



### 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.



### HI-EX®

HI-EX marginally lubricated bearing material with ultimate robustness and wear performance under highly loaded, thin film conditions. Available with non-indented overlay for hydrodynamic applications.



### GGB-BP25

Maintenance-free GGB-BP25 oil impregnated sintered bronze bearings offer optimum performance in low temperature applications with relatively light loads and high speeds.



### GAR-MAX®

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

## APPLICATIONS IN WHICH THEY ARE USED:

- automatic baggers,
- bag fillers,
- case erectors,
- palletizing machines,
- filling and sealing units,
- pharmaceutical labelers,
- pressure thermoformers,
- roller adjustments,
- die plates.

They are also used in machinery for producing cosmetic and mass market packaging; horizontal form, fill and seal machines; and packing machines for vegetables, among others.



### 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. TriboShield standard coatings TS650, TS651, TS652 and TS742 are FDA compliant. Your bearing or coating performance can be enhanced with our TriboMate paired solutions.