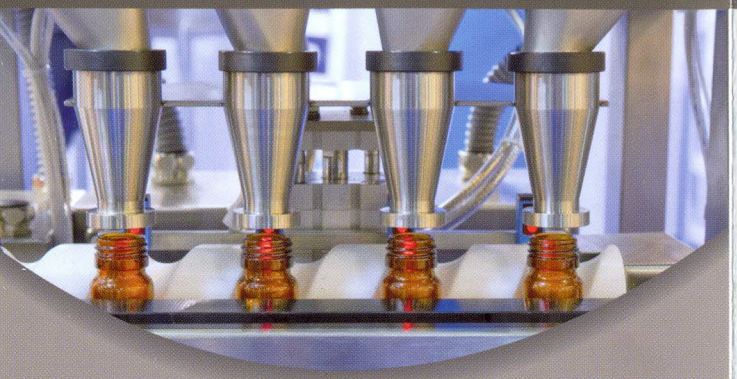
# THE GGB ADVANTAGE



## 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 coefficients of friction eliminate the need for lubrication, while providing smooth operation, reducing wear and extending service life. Low friction also eliminates the effects of stick-slip or "stiction" during startup.

## 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.

compliant RoHS

## 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.

## GGB Bearing Technology

GGB Bearing Technology, formerly Glacier Garlock Bearings, is the global leader in high performance bearing solutions. Through our extensive global production and supply network, we provide customers throughout the world with the industry's most comprehensive range of self-lubricating and prelubricated bearings for literally thousands of applications in hundreds of industries.

## EnPro Industries Inc.

GGB is part of EnPro Industries, Inc. (NYSE: NPO), a leading provider of engineered products for the global processing and general manufacturing industries. Based in Charlotte, North Carolina, USA, the company has 43 manufacturing locations worldwide.

For more information, visit the Technical Reference section at **www.ggbearings.com** or scan the QR code below with your smartphone.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GGB
BEARING TECHNOLOGY

an EnPro Industries company

***The Global Leader in High Performance Bearing Solutions***

FL555ENG08-12OS1



# HIGH PERFORMANCE BEARINGS FOR PACKAGING MACHINERY

GGB
BEARING TECHNOLOGY

an EnPro Industries company

# PACKAGING MACHINERY

Among the industries we serve are manufacturers of packaging machinery, where the durability and maintenance-free properties of our bearings make them ideal for use in a variety of applications. GGB bearings can withstand high loads, speeds and temperatures, and resist the corrosive effects of frequent cleaning with chemicals and disinfectants. They also provide high positioning accuracy for minimum play.

Applications in which they are used include automatic baggers where they support roller pins on conveyor feed systems; bag fillers where they are used to hold bags open and in the right position during the filling operation; case erectors where they serve to erect trays for multi-pack foods and other products; and palletizing machines where they act as pivot bearings.

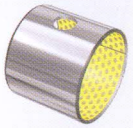
In addition, our bearings are used in the filling and sealing units for pet food packaging machines; pharmaceutical labelers where they help guide the strips of labels; pressure thermoformers where they support the press that shapes the heated plastic; roller adjustments for carton printing and die-cutting machines; and die plates for deep-drawing tools for can production. 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.

## Products

*The following products are particularly well suited to packaging machinery applications. Contact GGB Sales for consultation/selection.*

**DP4**™ *metal-polymer bearings offer excellent performance in heavy-duty, oil-lubricated applications, as well as running dry under light-duty conditions, particularly intermittent, stop/start operation with reciprocating and oscillating movements.*

**DP4-B**™ *bearings offer all the advantages of DP4 bearings, including resistance to wear, chemicals and erosion, plus the added benefit of an anti-magnetic, corrosion-resistant bronze backing, making them suitable for use in hostile environments.*

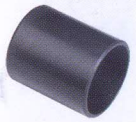


**DX**® *marginally lubricated material provides optimum performance under relatively high loads and low speeds, and is suitable for linear, oscillating and rotating movements.*

**GAR-MAX**® *filament wound, composite bearings provide very good friction and wear properties, as well as high load capacity and excellent resistance to shock, misalignment, chemicals and contamination.*

**GAR-FIL**® *filament wound bearings offer extremely low friction under low-speed, high-pressure conditions. They also provide good wear properties, and resistance to chemicals and contamination.*

**DB**™ *maintenance-free bearings deliver excellent performance under high loads and intermittent operation. Their structure, which consists of cast bronze with graphite-free solid lubricant inserts, provides an ultra-low coefficient of friction, maximum wear resistance, long service life and absolute corrosion resistance, even in wet, dirty environments.*





**EP**™ *series of injection-molded, solid polymer bearings provide low friction and excellent wear resistance under both dry and lubricated conditions in a wide range of applications. Made of engineering polymers with reinforcing fibers and solid lubricant, they exhibit excellent dimensional stability, high compressive strength and creep resistance and low thermal expansion.*