



# HIGH PERFORMANCE BEARINGS FOR PACKAGING MACHINERY

## 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
- high speeds
- high temperatures
- resist corrosion
- harsh chemicals/disinfectants

Applications in which they are used include:

- automatic baggers
- bag fillers
- case erectors
- the filling and sealing units for pet food packaging machines
- pharmaceutical labelers
- pressure thermoformers
- roller adjustments for carton printing and die cutting machines

GGB bearings are also used in:

- cosmetic/mass market packaging
- horizontal form, fill, and seal machines
- packing machines for vegetables
- and many more

## 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 coefficients of friction eliminate the need for lubrication, while providing smooth operation, reducing wear and extending service life. Low friction also supports the elimination of 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.



### 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.

## PUSHING BOUNDARIES TO CO-CREATE A HIGHER QUALITY OF LIFE

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.

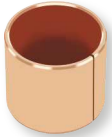
Today, our products can be found everywhere – from scientific vessels at the bottom of the ocean to racecars speeding down the tarmac to the Curiosity rover exploring the surface of the Mars.

# GGB PRODUCTS

The following products are particularly well suited to packaging machinery applications\*. Contact your local Timken sales representative for bearing product selection and design assistance.



- DP4®** self-lubricating bearings:
- suitable for dry operation, which eliminates the need for greases and oils
  - resistant to high loads for extended operating life
  - suitable for linear, oscillating, and rotating movements



- DP4-B** bronze-backed bearings:
- offer improved corrosion resistance in humid/saline environments
  - very good performance in lubricated applications
  - suitable for linear, oscillating, and rotating movements



- DX®** marginally lubricated bearings:
- allow reduced maintenance intervals
  - provide optimum performance under high loads and low speeds
  - suitable for linear, oscillating, and rotating movements



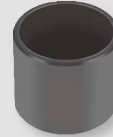
- GAR-MAX®** self-lubricating bearings:
- offer exceptional performance under heavy load and slow speed
  - provide excellent resistance to shock, misalignment, chemicals, and contamination
  - very good dry wear performance



- GAR-FIL** self-lubricating bearings:
- operate under moderate speed and heavy load
  - offer low friction
  - resistance to chemicals and contamination



- GGB-CBM®** maintenance-free bimetal bearings:
- engineered with a homogeneously distributed solid lubricant (graphite) in the sliding layer
  - offer high load and temperature capacity
  - different metallic backings are available: stainless steel, carbon steel, or bronze



- EP®** self-lubricating engineered plastic bearings:
- provide good performance in dry working conditions
  - provide good performance in lubricated or marginally lubricated applications
  - corrosion resistant in humid/saline environments



- EP®22** self-lubricating engineered plastic bearings:
- offer very good performance in marginally lubricated applications
  - good performance in dry working conditions
  - offer a very good weight performance ratio



- EP®43** self-lubricating engineered plastic bearings:
- good price performance ratio for higher temperature applications
  - very good weight performance ratio
  - good performance in lubricated or marginally lubricated applications

\*Performance depends on different operating conditions.



[www.ggbearings.com](http://www.ggbearings.com)



Order-No. 11557

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