



HIGH PERFORMANCE BEARINGS FOR AGRICULTURE

AGRICULTURE

A rapidly growing world requires advancements in the agricultural industry. In farm machinery equipment, agricultural bearings are subjected to friction and wear during periods of inadequate, marginal and boundary lubrication - often under hostile conditions with high loads where corrosion occurs, and dirt is introduced. GGB agriculture bearings offer solutions for:

- grease-free operation
- high-strength corrosion resistance
- lightweight design
- increased abrasion resistance
- less friction

By partnering with you early in the design process, we can 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
- extend maintenance intervals

GGB's bearing solutions are used in a wide range of agricultural equipment such as:

- tractors
- backhoes
- mowers
- cultivators
- seeders and harvesters
- sprayers

Applications in which they are used include:

- linkage and pivot points
- kingpins
- steering and suspension assemblies
- hydraulic cylinders
- grain head and corn head reel systems
- chaff discharge doors and hinges
- seats

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 for agricultural applications*. Contact your local Timken sales representative for bearing product selection and design assistance.



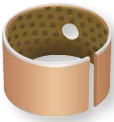
GAR-MAX® self-lubricating bearings:

- offer exceptional performance under heavy load and slow speed
- provide excellent resistance to shock, misalignment, chemicals, and contamination
- very good dry wear performance



HSG high-load bearings:

- offer high static load capacity
- provide excellent shock and misalignment resistance
- ensure excellent contamination resistance



DX®10 heavy duty bearings:

- provide good fatigue strength
- offer excellent wear performance
- perfect for heavy duty and harsh environments



DX® marginally lubricated bearings:

- allow reduced maintenance intervals
- provide optimum performance under high loads and low speeds
- suitable for linear, oscillating, and rotating movements



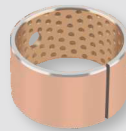
Hi-EX® hydrodynamic composite bearings:

- rated for high temperature use up to 250°C
- suitable for use with low viscosity fluids
- offer good wear resistance under thin film conditions



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



AuGlide® machinable bimetal bearings:

- suitable for high loads and high temperatures
- offer excellent fatigue strength under dynamic and shock load conditions
- suitable for hydrodynamic operation

*Performance depends on different operating conditions.



www.ggbearings.com



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