

## 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 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. Agriculture equipment manufacturers rely on our plain bearings and polymer coating solutions for grease-free and maintenance-free 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.



### 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.



## 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

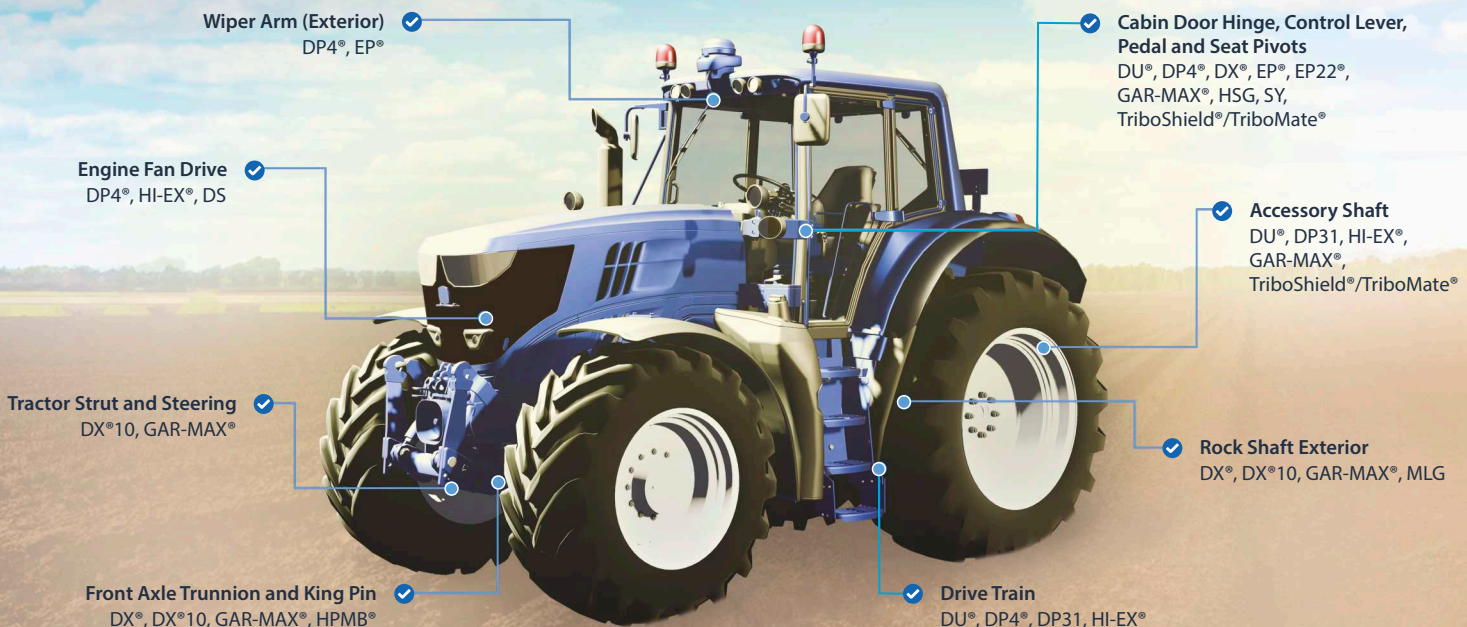
By partnering with you early in the design process, we can review your assemblies and make sure both the bearing and surrounding components are optimized for performance and cost-effectiveness. Partnering early in the design phase also increases your customers' satisfaction by identifying ways to:

- reduce noise and vibration
- increase energy efficiency
- extend maintenance intervals

## Stronger. Together.

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®

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



### HSG

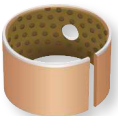
High Strength GAR-MAX bearings offer twice the static load capacity of standard GAR-MAX, plus very good friction, and wear properties.

They also provide excellent resistance to shocks, misalignment, chemicals and contamination.



### 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.



### DX®10

DX10 heavy duty bearings provide good fatigue strength, offer excellent wear performance, and are perfect for heavy duty and harsh environments.



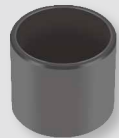
### DX®

DX bearing material offers optimum performance under relatively high loads and low speeds.



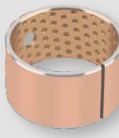
### HI-EX®

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.



### 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.



### AuGlide®

AuGlide machinable bimetal bearings are suitable for high loads and high temperatures, offer excellent fatigue strength under dynamic and shock load conditions, and are suitable for hydrodynamic operation.



\*Performance depends on different operating conditions.



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



**Stronger. Together.**

Order-No. 11559

© 2024 GGB. All rights reserved. GGB®, DP4®, GAR-MAX®, HSG, DX®, DX®10, HI-EX®, EP® and AuGlide® are registered trademarks or trademarks, as the case may be, of GGB and its affiliates.

