# GGB Wheel Loader Solutions



Wheel loaders are essential for lifting and transporting heavy materials like pipes, steel beams, and concrete blocks, making them indispensable in construction, mining, and earthmoving projects. They support primary loading tools by keeping loading floors clean, transporting both oversize materials and fine substances like sand or demolition debris, and assisting with tasks such as touch-up dumps and site cleanup. Their versatility extends beyond construction into agriculture and industrial cleanup, ensuring smooth operations and effective material handling across various applications. However, design engineers face significant challenges when designing wheel loader applications, including managing heavy loads, extreme wear and tear, harsh environments, and contaminants while ensuring smooth, consistent low friction and extended service life. GGB® bearing and coating solutions effectively meet these needs.

## **Application Challenges**

- · Extremely heavy loads
- · Corrosive environments
- Stick-slip operation
- Long maintenance intervals
- · Handles heavy weight
- · Smooth consistent low friction
- Long service time
- · Increasing safety regulations



### **GGB Product Benefits**



#### **MAINTENANCE-FREE**

GGB® bearings are self-lubricating, making them ideal for applications demanding extended bearing life without the need for continuous maintenance, as well as under operating conditions with inadequate or no lubrication.



#### **SPACE SAVING**

A slim, compact, one-piece design provides notable space and weight reductions, simplifying installation, reducing system costs, and minimizing the risk of potential damage during the installation process.



#### **LOWER SYSTEM COST**

Reduce ownership expenses with GGB's solutions, offering prolonged service life and minimized maintenance and lubrication requirements.



#### **EXTENDED SERVICE LIFE**

GGB bearings provide dependable performance under substantial loads and intense stress, enduring challenging and corrosive environments to prolong the service life of various applications.



#### ENVIRONMENTAL

Greaseless, lead-free GGB bearings comply with increasingly stringent environmental regulations such as the RoHS and WEEE directives restricting the use of hazardous substances in certain types of electrical and electronic equipment.



## **Recommended Products**

PRODUCT	ADVANTAGES MORE INF	ORMATION
DU®	DU® self-lubricating bearings offer very good wear and low friction over a wide range of dry running applications. Also suitable for lubricated applications.	
DP4®	DP4® offers low friction and good wear resistance in both dry and lubricated applications. Suitable for linear, oscillating and rotating movements.	
DP31	DP31 is a lead-free metal-polymer hydrodynamic composite bearing that offers excellent low friction and wear resistance in lubricated applications. It provides superior flow erosion and cavitation resistance, along with high fatigue strength, making it ideal for demanding environments.	
DX®	DX® bearing material is ideal for marginally lubricated applications, delivering optimal performance under relatively high loads and low speeds.	
DX®10	DX®10 is a lead-free, heavy-duty metal-polymer bearing material with exceptional fatigue strength and wear performance. It is ideal for heavy-duty and harsh environments, offering excellent chemical and erosion resistance for reliable operation under demanding conditions.	
HSG RoHS	HSG is a self-lubricating bearing material with high static load capacity, excellent shock resistance, and superior friction and wear properties.	
GAR-MAX®	GAR-MAX® is known for its high load capacity and excellent shock and misalignment resistance.	
EP®	EP® provides good bearing performance in dry as well as lubricated or marginally lubricated working conditions. Good choice for medium working conditions compared to other engineered plastics materials.	
TriboShield®	With the TriboShield® technology, GGB can reduce the friction and extend the durability of any complex shaped part by coating the substrate with our special designed low friction paints.	
TriboMate®	Our TriboMate® technology is the pairing of a GGB bearing with a GGB polymer coating. The technology reduces significantly the static and dynamic friction, improves start and stop behaviors and increases load carrying capability	

## Stronger. Together.

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