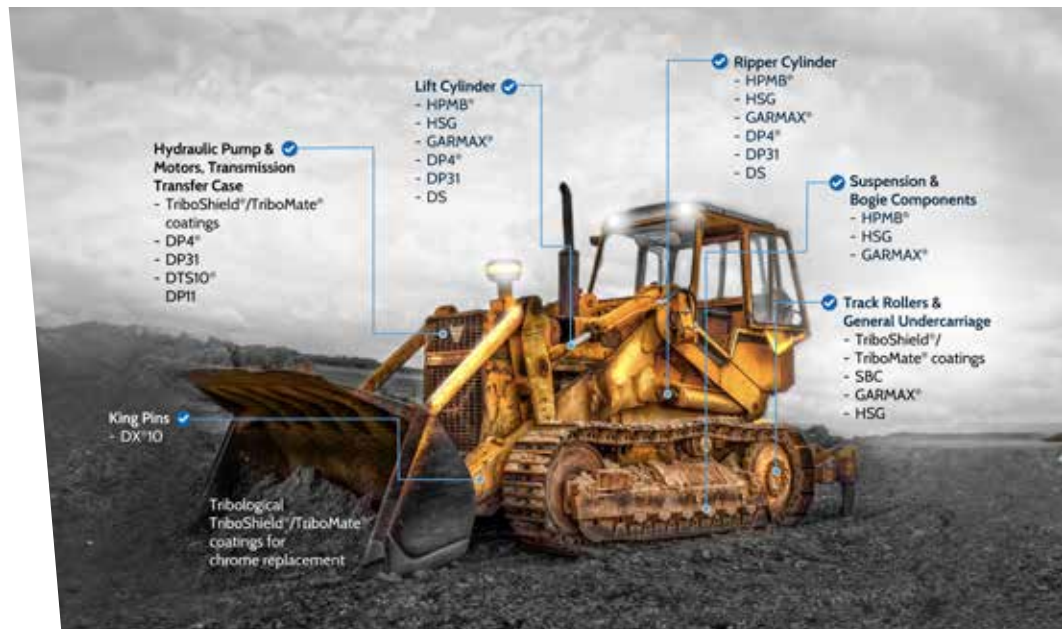


# GGB Bulldozer Solutions

A bulldozer, or dozer, is a powerful motorized machine used to push materials like soil, sand, snow, rubble, or rock during construction work. Typically operating on continuous tracks, though some models feature large off-road tires, bulldozers are equipped with a heavy, broad steel blade mounted on the front, making them essential for tasks in road building, farming, construction, and demolition. However, design engineers face significant challenges when designing bulldozer applications, including issues like noise when shifting gears, clutch slips, failures due to improper greasing, heavy wear and tear, inadequate maintenance and more.

## Application Challenges

- Extremely heavy loads
- Corrosive environments
- Long service time
- Exposure to harsh environments
- Noise during gear shifts
- Heavy wear and tear
- Proper lubrication and re-greasing
- Regular maintenance and inspections



## 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 INFORMATION
<b>DP4®</b> 	DP4® offers low friction and good wear resistance in both dry and lubricated applications. Suitable for linear, oscillating and rotating movements.	
<b>DP31</b> 	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.	
<b>DTS10®</b> 	DTS 10® is a lead-free metal-polymer bearing material designed for lubricated conditions, offering low friction and high wear resistance. It can be machined on-site for tight tolerances, making it ideal for precision applications.	
<b>DP11</b> 	DP11 is a lead-free metal-polymer bearing material known for its excellent wear resistance and anti-friction performance across a wide range of loads, speeds, and temperatures in dry conditions. It is particularly well-suited for dry applications that involve high-frequency, low-amplitude oscillating movements.	
<b>HSG</b> 	HSG is a self-lubricating bearing material with high static load capacity, excellent shock resistance, and superior friction and wear properties.	
<b>GAR-MAX®</b> 	GAR-MAX® is known for its high load capacity and excellent shock and misalignment resistance.	
<b>HPMB®</b> 	HPMB® is a high-precision, fiber-reinforced composite bearing material designed for demanding applications. Pre-machined bearings are available for immediate installation, offering low friction with negligible stick-slip.	
<b>SBC</b> 	SBC with GAR-MAX® are sealed fiber-reinforced composite bearings designed to provide excellent resistance to shock loading and misalignment. These bearings are sealed to exclude contaminants, ensuring an extended service life while offering superior friction and wear properties.	
<b>TriboShield®</b> 	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.	
<b>TriboMate®</b> 	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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