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.
The following products are particularly well suited for fluid power applications*. Contact your local Timken sales representative for bearing product selection and design assistance.

**DTS10®** hydrodynamic bearings:
- excellent wear resistance and low friction in lubricated hydraulic applications, designed to be machined on-site for tight tolerances
- excellent chemical resistance
- excellent fatigue strength, cavitation and low erosion resistance, good behavior in dry start-up conditions

**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

**DP10** low-friction bearings:
- very good performance in lubricated applications, especially in marginally lubricated applications
- good wear and low friction performance over a wide range of loads, speeds, and temperatures in dry running conditions
- suitable for linear, oscillating, and rotating movements

**DP31** hydrodynamic bearings:
- excellent flow erosion and cavitation resistance
- excellent low friction and wear resistance performance in lubricated applications
- very good fatigue strength

**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

**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

**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

**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

*Performance depends on different operating conditions.*