



## The GGB Advantage

### EARLY COLLABORATION

By partnering with customers early on in the design phase, we can help identify ways that bearing selection can improve the performance and cost-effectiveness of the final product.

### SURFACE ENGINEERING & RELIABLE TRIBOLOGY

With industry-leading expertise in tribology—the science of interacting surfaces in relative motion—we've been able to develop innovative materials with extremely low coefficients of friction and exceptional durability.

### 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.

## Your Complete Bearing Solutions Provider

GGB offers a comprehensive selection of plain bearing solutions to meet the world's most demanding bearing needs. We manufacture Metal-Polymer Bearings, Engineered Plastics Bearings, Fiber Reinforced Composite Bearings, Metal & Bimetal Bearings, in addition to a range of supporting assemblies, bushing blocks and thrust plates. Industries served include:

- Aerospace
- Automotive
- Energy
- Fluid Power
- Industrial
- Primary Metals
- Construction/Agriculture
- Recreation

### 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.

### GGB North America

P.O. Box 189  
700 Mid Atlantic Parkway  
Thorofare, New Jersey 08086  
Tel. +1-856-848-3200  
Fax +1-856-848-5115  
usa@ggbearings.com  
www.ggbearings.com

©2017 GGB. All rights reserved.

GGB®, DX®10, EP™22 and EP™43 are registered trademarks or trademarks, as the case may be, of GGB and its affiliates.



an EnPro Industries company

The Global Leader in High Performance Bearing Solutions



FL557ENG09-17USA



## High Performance Bearing Solutions for Cycling Equipment

The Global Leader  
in High Performance Bearing Solutions



an EnPro Industries company



## GGB BEARING SOLUTIONS

The following products are particularly well suited to cycling equipment applications. Contact your local GGB sales representative for bearing selection and design assistance.

### Cycling Equipment

Bicycle engineers face a daunting challenge: reduce weight, increase durability and keep costs to a minimum. Meeting these demands requires careful consideration of every single component of the bike. By consulting with GGB early on in the design phase, engineers can find ways to improve other elements of their designs through their bearing selections.

In addition to their high shock-load resistance and noise-dampening properties, our bearings provide environmentally friendly, grease-free operation, eliminating stains on riders' clothing and the potential for the grease to be washed away during riding and cleaning.

Also capable of withstanding the effects of operating in wet, dirty environments, GGB plain bearings are better suited to cycling equipment than ball and roller bearings, which are subject to brinelling damage under high loads with small oscillation movements.



For additional market/product offerings, go to [ggbearings.com](http://ggbearings.com)

#### METAL-POLYMER



**DP4** lead-free, metal-polymer bearings offer excellent performance and corrosion resistance in heavy-duty, oil-lubricated applications. DP4 performs well running dry under light-duty conditions, particularly intermittent, stop/start operation with reciprocating or oscillating movements. In cycling applications, they are used in shock absorbers, suspension forks and rear suspension arms.



**DX®10** grease-lubricated bearings are perfect in heavy-duty and harsh environments. They offer excellent corrosion resistance, good fatigue strength and can be broached for tighter tolerance, making them suitable for use in mountain bike shock tubes.

#### ENGINEERED PLASTICS



**EPTM22** injection-molded, engineered plastic bearings provide excellent wear resistance and low friction over a wide range of both dry and lubricated conditions. Made of a modified PBT-based material, they are used primarily in brake levers.



**EPTM43** engineered plastic bearings are made of a modified PPS-based material providing extremely low friction and optimized for dry running conditions. Offering high dimensional stability, chemical resistance and low humidity absorption, these bearings are well suited for use in pedal assemblies.

### PRODUCT APPLICATIONS

Hydraulic Seat Post ✓  
EPTM22

Rear Suspension Arms ✓  
DP4

Wheel Hub ✓  
EPTM43

Bike Pedals ✓  
EPTM43

Guide Pulley ✓  
DP4

✓ Brake Levers  
EPTM22

✓ Front Fork  
DP4 | EPTM22

✓ Shock Absorber  
DP4

✓ Shock Tubes  
DX®10 | EPTM43

