RBC LUBRON BEARING SYSTEMS

We design and custom manufacture self-lubricating bearings for demanding applications and tough operating conditions. Our products are used in some of the largest projects and most critical applications on the planet, from power generation to bridge building, from rocket launching to subsea oil production, from missile defense systems to earthquake seismic isolation.

Manufacturing Capabilities
Our manufacturing facilities are state-of-the-art, flexible and capable of complete tasks with precision accuracy. We have in-house CNC machining capabilities for up to 60” (1500 mm) in size. Our diverse design and manufacturing skills combine to assure consistent quality and reliable performance.

Quality Assurance
Lubron self-lubricating bearings are manufactured and inspected in compliance with the requirements of ISO 9001.

Testing & Development
Prototype and full scale production testing is performed in-house or by independent testing laboratories. In-house testing equipment includes hydraulic presses capable of sliding and rotational movement. Maximum vertical load testing capacity is 4 million pounds.

Engineering Services
We offer a variety of engineering services from custom design of self-lubricating bearings, selection of bearing materials, and testing of bearings to simulate load, movement, velocity, temperature and other environmental conditions present during the actual operation of Lubron maintenance-free bearings. On-site engineering services are available upon request.

Design-Build
We work with all members of Design-Build teams and Public-Private Partnerships during the design, bidding and construction processes to identify and evaluate bearing requirements and provide best value bearing solutions.

Catalogs
Catalogs are available from our website www.lubron.com and www.rbcbearings.com. Contact RBC Lubron Bearing Systems for any additional information.

www.rbcbearings.com


RBC has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC offers a full line of standard industrial and aerospace bearings, including:

Tapered Roller Thrust Bearings
- Full complement - minimum capacity versions.

Cylindrical Roller Bearings
- Metric and inch sizes.

Cam Followers
- Metric and inch sizes.

TP Series Bearings
- Metric and inch sizes.

Lubron® Bearings
- Metric and inch sizes.

Spherical Plain Bearings
- Metric and inch sizes.

Thin Section Ball Bearings
- Metric and inch sizes.

Ball Bearings
- Metric and inch sizes.

Specials
- Metric and inch sizes.

Lubron® Bearing Systems

It takes a unique company to combine 100 years of bearing expertise and knowledge to provide the industry with innovative solutions. RBC Bearings is that company!

RBC Lubron Bearing Systems, Inc.
10620 Lawson River Avenue
Fountain Valley, CA 92708 USA

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Manufacturing Capabilities
Our manufacturing facilities are state-of-the-art, flexible and capable of complex tasks with precision accuracy. We have in-house CNC machining capabilities for up to 80" (2000 mm) in size. Our diverse design and manufacturing skills combine to assure consistent quality and reliable performance.

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Lubron® self-lubricating bearings are manufactured and inspected in compliance with the requirements of ISO 9001.

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**Tapered Roller Bearings**
- Non-separable double or triple row double outer race bearings.
- Caged or full complement races.

**Cylindrical Roller Bearings**
- Cylindrical roller bearings designed for end thrust and radial loads where the radial load is the greater of the two.
- Manufactured in industry standard sizes.

**Cam Followers**
- Cam followers designed for radial and thrust loads. Available in duplex configurations.
- Manufactured in various sizes and materials.

**Lubron® Bearings**
- Self-lubricating bearings designed and manufactured for demanding applications.
- Available in inch and metric sizes.

**Cylindrical Roller Thrust Bearings**
- Cylindrical roller thrust bearings designed for high loads where the load is primarily in the axial direction.
- Manufactured in a variety of sizes and materials.

**Cam Followers**
- Cam followers designed for radial and thrust loads. Available in duplex configurations.
- Manufactured in various sizes and materials.

**Lubron® Bearings**
- Self-lubricating bearings designed and manufactured for demanding applications.
- Available in inch and metric sizes.

**Spherical Plain Bearings**
- Spherical plain bearings are available in inch and metric sizes.
- Designed for heavy radial loads and high misalignment.

**Thin Section Ball Bearings**
- Thin section bearings are available in inch and metric sizes.
- Designed for high speed and high precision applications.

**Specials**
- RBC offers a full range of special bearings, including self-lubricating bearings for the aerospace, oil and gas, semiconductor equipment, and other industries.

**SLE-LUBRICATING BEARINGS**
- It takes a unique company to combine 100 years of bearing expertise and knowledge to provide the industry with innovative solutions. RBC Bearings is that company!
LUBRON AE bearings and bearing assemblies are designed for use in nuclear power plants and nuclear powered vessels. Capable of withstanding high radiation and high temperatures, LUBRON AE near-isotropic nuclear grade graphite solid lubricants are employed to provide long service life and reliable performance.

LUBRON AQ bearings are constructed of high strength beryllium alloys permanently embedded with PTFE solid lubricants, and are especially suitable for underwater applications where grease lubrication is impractical or prohibited. Specified by water power authorities and engineering companies worldwide, LUBRON AQ bearings are the proven choice for hydro and marine applications.

LUBRON SL bearings are widely used in many industrial and structural applications for moderate to heavy loads and cryogenic to elevated temperatures. Solid graphite lubricants are compounded and compressed into trepanned or circular recesses, and are available in a combination with a wide variety of brass, copper nickel and Meehanite® bearing alloys.

LUBRON TF bearings are constructed of woven PTFE fabric liners permanently bonded and mechanically locked to glass fabric, stainless steel or fiberglass backings. Capable of very low friction and high wear resistance, LUBRON TF bearings offer exceptional performance for high load-low friction applications.

LUBRON TR PTFE resin slide bearings are widely used for low friction, moderate load applications. Recommended for loads up to 2000 psi, LUBRON TR slide bearings consist of pure PTFE or glass-filled PTFE resin sheets bonded to either or a combination of carbon steel, stainless steel, reinforced elastomeric or neoprene substrates.

LUBRON TX bearings consist of synthetic fiber reinforced PTFE-polyester materials capable of moderate loads and low friction. LUBRON TX bearings have excellent dimensional stability in water, and are ideally suited for many hydro turbine and marine applications. LUBRON TX bearings are available in a variety of shapes, and can be machined on-site.
LUBRON AE bearings and bearing assemblies are designed for use in nuclear power plants and nuclear powered vessels. Capable of withstanding high radiation and high temperatures, LUBRON AE near-isotropic nuclear grade graphite solid lubricants are employed to provide long service life and reliable performance.

LUBRON AQ bearings are constructed of high strength bronze alloys permanently embedded with PTFE solid lubricants, and are especially suitable for underwater applications where grease lubrication is impractical or prohibited. Specified by water power authorities and engineering companies worldwide, LUBRON AQ bearings are the proven choice for hydro and marine applications.

LUBRON SL bearings are widely used in many industrial and structural applications for moderate to heavy loads and cryogenic to elevated temperatures. Solid graphite lubricants are compounded and compressed into trepanned or circular recesses, and are available in a combination with a wide variety of bronzes, copper nickel and Meehanite® bearing alloys.

LUBRON TF bearings are constructed of woven PTFE fabric liners permanently bonded and mechanically locked to rigid bronze, stainless steel or fiberglass backings. Capable of very low friction and high wear resistance, LUBRON TF bearings offer exceptional performance for high load low friction applications.

LUBRON TR PTFE resin slide bearings are widely used for low friction, moderate load applications. Recommended for loads up to 2000 psi, LUBRON TR slide bearings consist of pure PTFE or glass-filled PTFE main sheets bonded to either or a combination of carbon steel, stainless steel, reinforced elastomeric or neoprene substrates.

LUBRON TX bearings consist of synthetic fiber reinforced PTFE polyester materials capable of moderate loads and low friction. LUBRON TX bearings have excellent dimensional stability in water, and are ideally suited for many hydro turbine and marine applications. LUBRON TX bearings are available in a variety of shapes, and can be machined on-site.

LUBRON SELF-LUBRICATING BEARINGS

Aerospace & Defense
- Launch Facilities
- Missile Sites
- Naval Vessels

Architectural
- Buildings
- Convention Centers
- Sports Arenas
- Museums
- Airports

Industrial
- Petrochemical
- Processing
- Air Pollution Control
- Material Handling

Infrastructure
- Highway Bridges
- Railroad Bridges
- Pedestrian Bridges
- Parking Structures
- Light Rail Transit
- High Speed Rail

Machinery & Heavy Equipment
- Bulk Handling Equipment
- Mining & Excavation
- Iron Foundries & Steel Mills
- Amusement Parks
- Cranes

Offshore/Marine
- Oil Platforms
- Floating Oil Production & Storage Vessels
- Offshore Drilling Vessels
- Mooring Systems
- Ships & Barges
- Derrick Crane Vessels
- Floating Bridges

Power Generation
- Hydroelectric
- Nuclear
- Oil, Gas & Coal
- Solar
- Wind

Water Control
- Hydro Dam Gates
- Navigation Locks
- Flood & Tidal Barriers

RBC LUBRON APPLICATIONS

Aerospace & Defense
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- Missile Sites
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- Air Pollution Control
- Material Handling

Infrastructure
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- Railroad Bridges
- Pedestrian Bridges
- Parking Structures
- Light Rail Transit
- High Speed Rail

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LUBRON AE bearings and bearing assemblies are designed for use in nuclear power plants and nuclear powered vessels. Capable of withstanding high radiation and high temperatures, LUBRON AE near-isotropic nuclear grade graphite solid lubricants are employed to provide long service life and reliable performance.

LUBRON AQ bearings are constructed of high strength bronze alloys permanently embedded with PTFE solid lubricants, and are especially suitable for underwater applications where grease lubrication is impractical or prohibited. Specified by water power authorities and engineering companies worldwide, LUBRON AQ bearings are the proven choice for hydro and marine applications.

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RBC LUBRON APPLICATIONS

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- Offshore Drilling Vessels
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- Derrick Crane Vessels
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- **Cam Followers**: ideal for high radial loads. Cam follower bearing applications. Three unique series: E, H, and P, and 31 models.

Lubron® Bearings
Lubron® bearings are designed and manufactured with a full complement of 35 components. The Lubron® family is ideal for oilfield top drives and swivels. Available in inch and metric sizes.

Spherical Plain Bearings
Spherical plain bearings are designed and manufactured with a full complement of 35 components. The Lubron® family is ideal for oilfield top drives and swivels. Available in inch and metric sizes.

Ball Bearings
Ball bearings are designed and manufactured with a full complement of 35 components. The Lubron® family is ideal for oilfield top drives and swivels. Available in inch and metric sizes.

Self-Lubricating Bearings
Self-lubricating bearings are designed and manufactured with a full complement of 35 components. The Lubron® family is ideal for oilfield top drives and swivels. Available in inch and metric sizes.

Lubrication
Lubrication is a critical requirement for bearing performance. Lubrication is also essential to bearing performance.

Product Range
Product Range

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