



BiSA

LEADER IN BEARING & ROTATING EQUIPMENT SERVICES AND SUPPLIES

LUBRICATION

- Industry 4.0 Lubrication Management Solutions
- Easylube® Single Point Lubricators
- Autol Single Point Lubricators
- Autol Multi Point Lubricators
- TecPlex® Specialty Grease
- Anion SlickBar® Kiln Tire Lubricant

The primary job of lubrication is to reduce friction between moving parts in bearings and other rotating equipment. It also dissipates heat generated by friction inside bearings.

To ensure optimal working conditions for bearings and rotating plant and equipment, we apply a three-pronged approach to lubrication which includes combining Industry 4.0 technology with a human interface, state-of-the-art lubrication devices and equipment, and high-performance lubricants..

This approach not only ensures that the right amount of grease is consistently applied, but also ensures possible problems are timeously detected, associated risks are mitigated, and catastrophic failures and unexpected downtime is avoided.

LEVEL 2 B-BBEE CONTRIBUTOR

INDUSTRY 4.0 LUBRICATION MANAGEMENT SOLUTIONS

Combining People With Technology For Optimal Lubrication Management Solutions.

BiSA's Industry 4.0 Lubrication Management Solutions ensure that all critical components are lubricated 24/7 regardless of location or ease of use. A key benefit is that it increases worker safety – no climbing on machines or inaccessible areas.

Our computerised maintenance management system provides a record of each bearing specification's working condition, lubrication, and maintenance history, as well as precision bearing lubrication.

We use 2 pieces of software to streamline the lubrication task and reduce man-hours required.

- **Minimum Quantity Lubrication (MQL) calculates specific greasing requirements needed for a single bearing, based on six major factors.**
- **Data registration and identification collects data from RFID tags on each lubrication point identified to alert the user if a lubrication point has not been inspected.**

LUBRICATION SYSTEMS AND DEVICES

Our Easylube and Autol devices and systems are designed to apply small, measurable amounts of lubricant to bearings and rotating equipment at frequent, short intervals to ensure optimal functioning. Combined with our Industry 4.0 Lubrication Management Solution, our customers rest assured that their equipment performs optimally and unscheduled breakdowns and maintenance stoppages are reduced significantly.

We offer the following specific devices and systems:

- **Easylube® single-point lubricators.**
- **Autol single-point lubricators.**
- **Autol multi-point lubrication systems.**

Easylube® single-point lubricators.

Explosion-proof models are for use in hazardous environments such as coal mines and plants where flammable products are present. RFID technology is built into every unit to be used with our Industry 4.0 Lubrication Management Solution.

Autol single-point lubricators

This newly-launched electro-mechanical lubricator from Autol offers durable construction and comes in three sizes - 150ml, 250ml, and 500ml. It can endure high output pressure (up to 40 bars), enabling you to add a distribution block and connect two lubrication points.

Autol multi-point lubrication systems

Autol's multi-point lubrication systems offer excellent performance in the harshest conditions both locally and globally. The units come with a two-year warranty and are available in sizes ranging from one to 24 litres.

HIGH PERFORMANCE LUBRICANTS

Because of the harsh environments and less than ideal conditions in which bearings operate, we don't attempt to compete with standard, everyday application grease products available in the market. Instead, we champion a carefully selected range of high-performance greases that are specifically designed to overcome these circumstances and prolong bearing life.

We also place significant emphasis on the environment and, as such, our greases are chosen for being environmentally friendly and having the least impact on the people and areas in which they work. Products we distribute

BiSA is currently the authorized Southern African representative of following two manufacturers of lubricants and protective coatings:

- **Daubert Chemical Corporation, Chicago, Illinois, USA**
- **Anion Specialty Chemicals, Gainesville, Georgia, USA**

Daubert Chemical Corporation

Our Daubert TECPLEX® range of greases consist of the following:

General-purpose: Calcium sulfonate greases are an excellent alternative to traditional lithium complex greases and offer consistent performance in extreme conditions such as steel mills.

Mining: TecPlex® Extreme Pressure greases provide the industry's leading four-ball weld test results (>800kg) and offer superior protection from water spray-off and rust formation

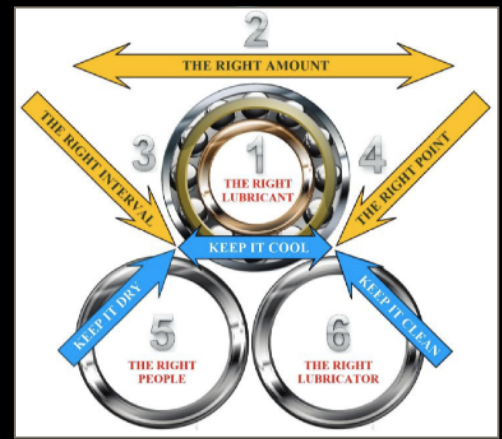


Food Grade (H1): All TecPlex® H1 greases are Kosher and Halal approved and are designed to work under the specifications of most food equipment OEMs. White Oil and PAO varieties are readily available.

Anion Specialty Chemicals

Anion Slick-Bar™ improving costly maintenance problems one kiln at a time.

Anion Specialty Chemicals manufactures specialty lubrication used in rotating kilns in mining, steel, cement, paper and pulp, and other plants. The Anion Slick-Bar™ is globally recognized as the premier solid lubricant bar for this application



THE 6 "RIGHTS" OF LUBRICATION

Most bearing related failures can be attributed to bad lubrication management. We can prevent up to 50% of premature bearing failures by addressing the 6 R's of lubrication:

1. The right lubricant
2. The right amount
3. The right interval
4. The right point
5. The right people
6. The right lubricator

Your satisfaction is our mission, so we have mastered the art to offer precise, effective and safe automated lubrication. Visit our website to for more information on how we can optimise your plant & equipment operations.

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BISA IS A PROUDLY SOUTH AFRICAN COMPANY AND A LEVEL 2 B-BBEE CONTRIBUTOR

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