



POWERING AFRICA'S FUTURE: INNOVATIVE ASSET INTEGRITY & INDUSTRIAL SOLUTIONS

#### **MISSION**

## Our mission is to provide high-quality asset integrity management and industrial solutions to clients across the continent.

We operate with the highest standards of safety, quality, and integrity, building long-term partnerships based on trust, collaboration, and exceptional service. We are committed to making a positive impact on African communities through sustainability and local content development, and strive to support economic development throughout the continent.



#### **PURPOSE**

So that our customers can achieve operational excellence, profitable and sustainable growth, we provide high-quality, innovative, and cost-effective asset integrity management and industrial solutions, that enhance reliability, efficiency, and safety.



## **100 YEARS IN BUSINESS**

#### DGC AFRICA IS A MEMBER OF THE DICKINSON GROUP OF COMPANIES

Dickinson Group of Companies (DGC) is a family-owned business that has been operating since 1910, providing top-notch furnace and industrial services. Over the past century, DGC has evolved into a leading provider of Asset Integrity Management & Industrial Services, including Asset Integrity Management, Industrial Linings & Coatings, Industrial Products, Abrasion & Wear Protection Solutions, Engineering Services, and Asset & Risk Management Digitisation Solutions.

DGC has an impressive track record in the market, having established an extensive client base among major mining and metals, mineral processing, and manufacturing industries. The company has built a strong reputation through its emphasis on safety and training, in-house skills, a large staff complement, and strategic partnerships with leading technology partners worldwide.



## **DGC AFRICA'S STRATEGIC FOCUS**

With over 50 years of experience in Africa, **DGC AFRICA** has built a strong reputation on the continent. The company's strategic focus is on providing innovative asset integrity management and industrial solutions to a range of industries in Africa, including mining & minerals, metals smelting, sulphuric acid plants, mineral processing, oil & gas, chemical & petrochemical, and power generation.

## OVER THE NEXT 3-5 YEARS, DGC AFRICA WILL EMBARK ON A TWO-PHASE STRATEGIC FOCUS:

IN PHASE 1 - The company will expand its services in Southern and Central Africa, including Zambia and the Democratic Republic of Congo, by providing innovative asset integrity management and industrial solutions to a variety of industries, while building strong relationships with clients.

IN PHASE 2 - DGC AFRICA will expand its services to West Africa, particularly in Ivory Coast, Ghana, Mali, Burkina Faso, and Guinea, as well as other Anglophone, Francophone, and Portuguese-speaking countries in sub-Saharan Africa, with the aim of becoming a leading provider of asset integrity management and industrial solutions across the continent.

The company will prioritize quality service and strong client relationships, cementing its position as a top service provider to the mining, metals smelting, mineral processing, and large manufacturing industries in sub-Saharan Africa.

## **DGC AFRICA'S RANGE OF SPECIALIST SERVICES INCLUDE:**





## **BEARINGS & ROTATING EQUIPMENT SERVICES & SUPPLIES**

**DGC AFRICA**, a leader in asset integrity management and industrial solutions, is proud to announce its strategic alliance with **BiSA** (Bearing Inspection South Africa). This collaboration marks a significant milestone in our commitment to providing top-tier Bearings and Rotating Equipment Services and Supplies across sub-Saharan Africa.

#### **ENHANCED INDUSTRIAL SOLUTIONS IN SUB-SAHARAN AFRICA**

DGC AFRICA, a forefront company in asset integrity management and industrial solutions, proudly announces its strategic alliance with BiSA (Bearing Inspection South Africa). This partnership underscores our dedication to providing exceptional Bearings and Rotating Equipment Services and Supplies throughout sub-Saharan Africa.

By joining forces with BiSA, renowned for its expertise in bearing solutions, we significantly enhance our service range, addressing the demands of various industries, including power generation, mining, and more. This collaboration aligns with our mission to deliver comprehensive solutions and reinforces our position as a leader in asset integrity management and industrial services.

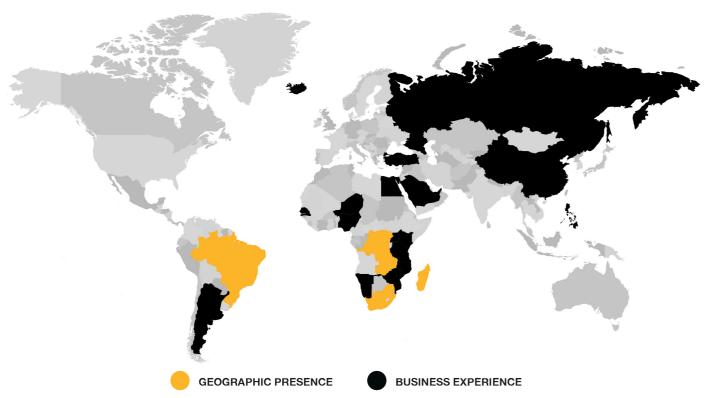






## GLOBAL FOOTPRINT





## **ELEVATING BEARING & ROTATING EQUIPMENT SERVICES & SUPPLIES**

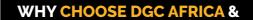
This collaboration heralds a new chapter in bearing and rotating equipment services, blending **DGC AFRICA's** robust expertise in asset management with **BiSA's** specialized knowledge in bearings. Together, we present an expansive suite of solutions, meticulously crafted to address the varied needs of industries throughout sub-Saharan Africa.

Our joint endeavor is rooted in a commitment to innovation, superior quality, and customer-centric service, positioning us not just as service providers but as long-term strategic partners. Our alliance is dedicated to elevating the standards and reliability of industrial operations in the region, bringing forth a new era of excellence in equipment maintenance and supply.

Through this strategic alliance, **DGC AFRICA** and **BiSA** deliver a comprehensive approach to asset reliability management and maintenance. **DGC AFRICA** contributes with its extensive portfolio of asset integrity and industrial solutions, vital for enhancing operational efficiency in mining and other sectors. **BiSA** complements this with its specialized focus on bearings and rotating devices, offering advanced lubricants and maintenance tools essential for the durability and reliability of machinery.













## WHY BEARINGS & ROTATING EQUIPMENT SERVICES ARE IMPORTANT

FOR ASSET RELIABILITY MANAGEMENT

In industries like mining, mineral processing, metals smelting, and large manufacturing, particularly in sub-Saharan Africa, bearings and rotating equipment play a pivotal role in ensuring operational efficiency and reliability. These components are fundamental in machinery used for extraction, processing, and production, where any failure can lead to significant downtime and financial loss.

#### **MINIMIZES OPERATIONAL DISRUPTIONS**

Regular maintenance and servicing of bearings and rotating equipment prevent unexpected machinery failures, crucial in continuous-operation industries like mining and metals smelting.

## **ENHANCES EQUIPMENT LONGEVITY**

Proper care and timely replacement of these components extend the life of costly industrial machinery, ensuring a better return on investment.

#### **SAFETY ASSURANCE**

Well-maintained bearings and rotating parts reduce the risk of accidents, promoting a safer working environment.

## **EFFICIENCY AND PRODUCTIVITY**

Smoothly functioning bearings and rotating equipment ensure optimal machinery performance, leading to increased efficiency and productivity in these heavy industries.

## **COST-EFFECTIVE MAINTENANCE**

Proactive servicing helps identify potential issues before they escalate into major problems, thereby reducing repair costs and avoiding expensive downtime.

#### **ADAPTABILITY TO HARSH CONDITIONS**

In sub-Saharan Africa, equipment often operates in extreme conditions; specialized maintenance ensures resilience and reliability in such challenging environments.

Therefore, bearings and rotating equipment services are not just a maintenance activity, but a strategic asset reliability management approach in these critical sectors.





#### **UNRIVALED EXPERTISE**

The fusion of **DGC AFRICA's** asset integrity management skills and BiSA's bearing expertise creates unmatched proficiency in the field.

#### **DIVERSE SERVICE PORTFOLIO**

The alliance offers a broad array of services, encompassing everything from bearing installation to state-of-the-art lubrication technologies, addressing a spectrum of industrial requirements.

#### **REGIONAL MASTERY**

Focused on sub-Saharan Africa, DGC AFRICA and BiSA deliver solutions finely tuned to local market nuances.

#### **COMMITMENT TO EXCELLENCE**

Renowned for their dedication to innovation and premium quality, **DGC AFRICA and BiSA** ensure optimal solutions for every operational challenge.

#### **CUSTOMIZED INDUSTRIAL SOLUTIONS**

Services are meticulously tailored to the distinct demands of sectors like power generation and mining, guaranteeing highly effective outcomes.

#### LONG-TERM PARTNERSHIP AND SUPPORT

More than just providers, **DGC AFRICA and BiSA** are long-term partners, offering continuous support and maintenance to guarantee the enduring efficiency and reliability of your equipment. This enduring commitment to client satisfaction cements their status as your reliable ally in bearing and rotating equipment services.



#### **KEY HIGHLIGHTS OF OUR SERVICES**



#### **BEARING SERVICES**

Fitment & Removal

Refurbishment

**On-Site Inspections** 

Failure Analysis

Sales of New Bearings



#### **COMPREHENSIVE SERVICES**

Vibration Monitoring

Drive Train Alignment & Balancing

Installation and Commissioning of Drive Train Components

Grinding Mill Inspection & Maintenance

Concrete Structural Inspections & Repairs

Turnkey Project Management



## ADVANCED LUBRICATION SOLUTIONS

Industry 4.0 Lubrication Management

Single and Multi-Point Lubricators

Specialty Greases and Lubricants

These services represent our commitment to providing comprehensive, top-quality solutions in the field of bearing and rotating equipment.

## **EXPANDED OVERVIEW OF SERVICES**

**DGC AFRICA**, in partnership with **BiSA (Bearing Inspections South Africa)**, offers an extensive range of specialized services in Bearings and Rotating Equipment Services and Supplies, bolstered by advanced lubrication and condition monitoring solutions.

**DGC AFRICA's b**road expertise in asset management, combined with **BiSA's** precision in bearing fitment and removal using Schaeffler's tools, refurbishment services, and proactive on-site inspections, ensures extended bearing life and effective failure analysis. As an authorized Schaeffler distributor, **BiSA** provides a diverse selection of bearings for various industrial needs.

In the Industry 4.0 sector, **BiSA's** Lubrication Management Solutions, which include Easylube and Autol systems, deliver automated, continuous lubrication, thereby enhancing efficiency and safety. Their high-performance lubricants, aligned with the 6 "Rights" of Lubrication, are designed to prevent premature bearing failures.

**BiSA's** employment of Visual Artisan™ technology and Schaeffler's equipment for Condition and Vibration Monitoring ensures meticulous machinery maintenance. Their oil sampling service plays a vital role in assessing machinery conditions and lubrication effectiveness.

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Furthermore, **BiSA's** Drive Train Alignment and Rotating Equipment Balancing services offer crucial onsite balance reducing the need for machinery dismantling and providing versatile drive train management solutions.

This collaboration between **DGC AFRICA** and **BiSA** significantly elevates the reliability and efficiency of mining equipment, enhancing the overall success and operational effectiveness of the partnership.

## **BEARING SERVICES**







#### FITMENT & REMOVAL SERVICE

THE FITMENT AND REMOVAL

SERVICE OFFERED BY DGC

SPECIALIZED TECHNIQUES FOR THE INSTALLATION AND

EXTRACTION OF BEARINGS IN VARIOUS TYPES OF

This service is pivotal in

MACHINERY AND EQUIPMENT.

maintaining the performance

and longevity of machinery.

**AFRICA & BISA INVOLVES** 

#### **PRECISION INSTALLATION**

Utilizing advanced tools and techniques, our expert technicians ensure that bearings are installed with precise alignment, which is crucial for optimal performance and lifespan.

#### **DAMAGE PREVENTION**

During removal, special care is taken to avoid any damage to the bearing housing and surrounding components, a critical aspect of maintaining the integrity of the equipment.

#### **CUSTOMIZED APPROACH**

Understanding that different types of machinery require unique handling, our team tailors their approach to each specific fitment and removal task.

#### **EFFICIENCY AND RELIABILITY**

Our goal is to perform these tasks efficiently to minimize downtime, while also ensuring that the bearings function reliably post-installation or removal.

## **COMPLIANCE WITH STANDARDS**

All procedures adhere strictly to industry standards and best practices, ensuring that every fitment and removal process meets the highest quality and safety benchmarks.







#### REFURBISHMENT SERVICE

THE REFURBISHMENT **SERVICE PROVIDED BY** PROCESS DESIGNED TO

several meticulous steps:

**DGC AFRICA & BISA IS A COMPREHENSIVE EXTEND THE LIFE** OF BEARINGS.

# This process involves

**ON-SITE INSPECTIONS BY DGC AFRICA & BISA FOCUS ON PROACTIVE MEASURES TO** MAINTAIN THE HEALTH **AND EFFICIENCY OF BEARINGS IN VARIOUS EQUIPMENT.** 

Key aspects of this service include:

#### **THOROUGH CLEANING**

Bearings are first cleaned to remove any contaminants, dirt, or debris, which allows for accurate assessment and ensures optimal functioning post-refurbishment.

#### **DETAILED INSPECTION**

Post-cleaning, each bearing undergoes a thorough inspection to identify any signs of wear, damage, or potential failure points.

## **PARTS REPLACEMENT**

Worn or damaged components are replaced with high-quality parts. This could include balls, rollers, cages, seals, and shields.

#### **PERFORMANCE TESTING**

After refurbishment, bearings are rigorously tested to ensure they meet or exceed original performance specifications.

#### **DOCUMENTATION AND REPORTING**

Detailed reports are provided, documenting the refurbishment process and any replacements made, offering transparency and traceability.

#### **ADVICE ON MAINTENANCE**

Clients receive recommendations on maintenance practices to maximize the lifespan of the refurbished bearings.

#### ON-SITE INSPECTIONS SERVICE —

#### **COMPREHENSIVE EQUIPMENT REVIEW**

Inspectors conduct a detailed examination of bearings within the machinery, assessing their condition and performance.

### **EARLY PROBLEM DETECTION**

The primary goal is to identify potential issues before they lead to equipment failure, thereby reducing downtime and repair costs.

#### **CUSTOMIZED INSPECTION PLANS**

Based on the machinery type and operational demands, inspection plans are tailored to each client's specific needs.

#### REPORTING AND RECOMMENDATIONS

Post-inspection, a comprehensive report is provided, detailing the condition of the bearings and offering actionable recommendations for maintenance or replacement.

## **FOLLOW-UP ACTIONS**

If issues are identified, our team can immediately propose solutions or schedule necessary repairs and replacements, ensuring minimal disruption to operations.

#### FAILURE ANALYSIS SERVICE —

## **IDENTIFYING ROOT CAUSES**

The service focuses on determining the fundamental reasons behind a bearing's failure. This could be due to issues like material fatigue, lubrication failure, improper installation, or environmental factors.

FAILURE ANALYSIS IN THE **CONTEXT OF BEARINGS** IS A CRUCIAL SERVICE OFFERED BY DGC AFRICA & BiSA.

This service involves a multi-faceted approach:

#### **DETAILED ASSESSMENT**

Using advanced diagnostic tools and techniques, experts analyze the damaged bearings to uncover the exact cause of failure.

#### **CUSTOMIZED SOLUTIONS**

Based on the analysis, tailored solutions and recommendations are provided to prevent similar failures in the future.

#### **ENHANCING EQUIPMENT RELIABILITY**

By understanding and addressing the reasons for bearing failures, the longevity and reliability of equipment are significantly improved.

#### SALES & NEW BEARINGS SERVICE —

#### **WIDE SELECTION**

A vast array of bearings, including ball, roller, and specialty types, are suitable for various industrial applications.

#### **QUALITY ASSURANCE**

Emphasis on high-quality products that meet stringent performance and durability standards.

THE SALES OF NEW **BEARINGS SERVICE BY DGC AFRICA & BISA ENCOMPASSES:** 

#### **CUSTOMIZATION**

Ability to provide bearings tailored to specific industry needs, ensuring optimal compatibility and performance.

#### **EXPERT GUIDANCE**

Professional advice is available to help clients select the most appropriate bearings for their machinery and applications.

#### **CONTINUOUS SUPPLY**

A reliable supply chain ensures the availability and timely delivery of bearings to minimize operational delays.











#### **VIBRATION MONITORING**

VIBRATION MONITORING, A KEY COMPONENT OF DGC AFRICA AND BISA'S COMPREHENSIVE SERVICES INVOLVES SOPHISTICATED TECHNIQUES TO DETECT EVEN THE SLIGHTEST IRREGULARITIES IN MACHINERY OPERATION.

This proactive approach is crucial for:

#### **EARLY FAULT DETECTION**

Identifying potential issues before they escalate into major failures.

#### PERFORMANCE OPTIMIZATION

Ensuring machinery operates at peak efficiency, is essential for high-demand industries.

#### PREVENTIVE MAINTENANCE SCHEDULING

Allowing for timely maintenance interventions based on actual equipment conditions, rather than relying solely on routine schedules.

## **EXTENDING MACHINERY LIFE**

By addressing issues promptly, the overall lifespan of equipment is significantly enhanced.



DRIVE TRAIN ALIGNMENT & BALANCING, AS PROVIDED BY DGC AFRICA AND BISA, INVOLVES PRECISION TECHNIQUES CRUCIAL FOR THE OPTIMAL FUNCTIONING OF INDUSTRIAL MACHINERY.

This service ensures:

# reducing energy loss, and enhancing performance. REDUCED WEAR AND TEAR

Correct alignment and balancing minimize the stress on bearings and other components, thereby reducing wear and extending the life of the equipment.

Proper alignment of drive train components is critical for efficient power transmission,

#### **DECREASED VIBRATION**

Misalignment can cause excessive vibration, leading to potential damage; this service ensures smoother operation and prevents such issues.

#### **ENHANCED OPERATIONAL EFFICIENCY**

Properly balanced and aligned machinery operates more efficiently, resulting in lower maintenance costs and improved output.

## DRIVE TRAIN COMPONENT INSTALLATION & COMMISSIONING

THE INSTALLATION AND COMMISSIONING OF DRIVE TRAIN COMPONENTS BY DGC AFRICA AND BISA ARE CRUCIAL SERVICES FOR ENSURING THE EFFICIENT OPERATION OF INDUSTRIAL MACHINERY.

This service includes:

#### **EXPERT INSTALLATION**

Skilled technicians adept in accurately installing various drive train components, adhering to the highest standards.

#### **FUNCTIONAL TESTING**

Conducting thorough tests post-installation to confirm every component functions as intended.

#### **COMMISSIONING FOR OPTIMAL PERFORMANCE**

Meticulous commissioning process to ensure the drive train operates at peak efficiency, seamlessly integrating with existing systems.

#### ADHERENCE TO SAFETY AND INDUSTRY STANDARDS

Ensuring all installations meet safety requirements and industry specifications for reliable and secure operations.





#### **GRINDING MILL INSPECTION**

THE GRINDING MILL
INSPECTION & MAINTENANCE
SERVICE OFFERED BY DGC
AFRICA AND BISA FOCUSES ON
SPECIALIZED CARE FOR ONE
OF THE MOST CRITICAL
PIECES OF EQUIPMENT IN
MANY INDUSTRIAL
PROCESSES.

This service includes:

Conducting thorough examinations to identify any wear, misalignment, or potential failures.

#### PREVENTATIVE MAINTENANCE

**DETAILED INSPECTIONS** 

Implementing a schedule of regular maintenance to prevent breakdowns and extend the mill's operational life.

#### **EFFICIENCY OPTIMIZATION**

Adjusting and fine-tuning the mill to ensure it operates at maximum efficiency, reducing energy consumption and increasing output.

#### **CUSTOMIZED MAINTENANCE PLANS**

Tailoring maintenance strategies to the specific needs and usage patterns of the mill, ensuring a more effective and cost-efficient approach.

#### STRUCTURAL INSPECTIONS

STRUCTURAL INSPECTIONS
AND REPAIRS, AN INTEGRAL
PART OF THE SERVICES
PROVIDED BY DGC AFRICA
AND BISA, FOCUS ON THE
INTEGRITY AND SAFETY OF
INDUSTRIAL STRUCTURES.

This service encompasses:

#### THOROUGH STRUCTURAL ASSESSMENTS

Conducting detailed inspections to evaluate the condition of structural components, and identify any signs of stress, corrosion, or damage.

#### **IDENTIFYING REPAIR NEEDS**

Accurately pinpointing areas that require repair or reinforcement to maintain structural integrity.

## **IMPLEMENTING REPAIRS**

Carrying out necessary repairs with precision and efficiency, using high-quality materials and techniques to ensure lasting results.

#### **SAFETY COMPLIANCE**

Ensuring all structures meet or exceed safety standards and regulations, safeguarding against potential hazards.





#### **TURNKEY PROJECT MANAGEMENT**

**TURNKEY PROJECT MANAGEMENT** 

OFFERED BY DGC AFRICA AND BISA

**DELIVERING A COMPREHENSIVE** 

SOLUTION FROM START TO FINISH.

**ENCOMPASSES THE HOLISTIC** 

HANDLING OF PROJECTS,

This service includes:

Developing a detailed p

**PROJECT PLANNING** 

Developing a detailed project plan, including timelines, resource allocation, and budgeting.

#### **COORDINATION AND EXECUTION**

Overseeing all aspects of the project, ensuring each phase is executed seamlessly and efficiently.

#### **QUALITY ASSURANCE**

Maintaining the highest standards of quality throughout the project life-cycle.

#### **RISK MANAGEMENT**

Proactively identifying and mitigating potential risks and challenges.

#### **FINAL DELIVERY AND HANDOVER**

Ensuring the project is completed to client satisfaction and delivering a fully functional end product.

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## **ADVANCED LUBRICATION SOLUTIONS**



## INDUSTRY 4.0 LUBRICATION MANAGEMENT

TURNKEY PROJECT
MANAGEMENT OFFERED
BY DGC AFRICA AND
BISA ENCOMPASSES THE
HOLISTIC HANDLING OF
PROJECTS, DELIVERING
A COMPREHENSIVE
SOLUTION FROM START
TO FINISH.

This service includes:

## **SMART MONITORING**

Implementing IoT-based sensors and systems to continuously monitor lubrication levels and conditions in real-time.

### PREDICTIVE MAINTENANCE

Analyzing data to predict when lubrication is required, preventing over or under-lubrication.

#### **AUTOMATED LUBRICATION**

Utilizing automated systems to apply the right amount of lubricant at the optimal time, enhancing machinery efficiency.

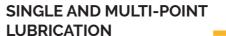
## **DATA-DRIVEN DECISIONS**

Leveraging the power of big data and analytics to make informed decisions about lubrication schedules and maintenance.









SINGLE AND MULTI-POINT

LUBRICATORS BY DGC

AFRICA AND BISA IS A

CRUCIAL SERVICE FOR MAINTAINING OPTIMAL

**LUBRICATION:** 

# AUTOMATED AND PRECISE DELIVERY THE PROVISION OF

These lubricators automatically deliver the exact quantity of lubricant needed at precise intervals, ensuring consistent lubrication without manual intervention.

Offering both single-point lubricators for specific, targeted lubrication needs, and multi-

#### **CUSTOMIZABLE SYSTEMS**

Adapting lubrication systems to meet the unique requirements of different machinery and operational conditions.

#### **REDUCED MAINTENANCE TIME**

**VERSATILE LUBRICATION OPTIONS** 

point systems for comprehensive coverage.

Automation significantly reduces the time and labor involved in manual lubrication, leading to more efficient maintenance processes.

# SPECIALITY GREASES & LUBRICANTS

#### **HIGH-PERFORMANCE FORMULATIONS**

Providing a range of specialized greases and lubricants designed for high performance in challenging industrial conditions.

### **WIDE APPLICATION RANGE**

Catering to a diverse array of industrial needs, from high-temperature environments to heavy-load applications.

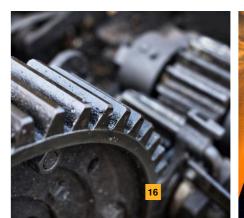
#### **CUSTOM SOLUTIONS**

Offering lubricants tailored to specific machinery and operational requirements, ensuring optimal functionality and protection.

#### **ENHANCED EQUIPMENT PROTECTION**

These specialty products are formulated to reduce wear and tear, prolonging equipment life and maintaining efficiency.







THE SPECIALTY GREASES AND LUBRICANTS SERVICE BY DGC AFRICA AND BISA

**INCLUDES:** 



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