



MECHANICAL ENGINEERING SOLUTIONS

FOR RELIABLE, SUSTAINABLE OPERATIONS



LEADING THE WAY
IN ASSET INTEGRITY MANAGEMENT & INDUSTRIAL SOLUTIONS

www.dgc-africa.com

SOUTH AFRICA

ZAMBIA

DEMOCRATIC REPUBLIC OF CONGO

MADAGASCAR

ZIMBABWE

BRAZIL

CHINA

CELEBRATING OVER 115 YEARS OF ENGINEERING SOLUTIONS



At **DGC AFRICA**, we provide high-quality asset integrity management and industrial solutions across the African continent. With over 50 years of experience in Africa and 115 years as part of the Dickinson Group of Companies, we serve industries such as mining, metals smelting, mineral processing, oil and gas, and power generation. Our focus on innovation, safety, and efficiency has established us as a trusted partner in the industry, committed to supporting sustainable growth and operational excellence for our clients.

EMPOWERING **ENGINEERING** SOLUTIONS

WITH LOCALISATION PARTNERSHIPS



At **DGC AFRICA**, we recognise that sustainable industrial development is achieved through strategic collaboration and meaningful localisation. Our comprehensive localisation strategy integrates global expertise with local knowledge to create lasting value for communities and clients alike. By fostering partnerships with regional leaders and investing in workforce development, we ensure that our projects deliver both immediate results and long-term regional benefits.

DGC North-West exemplifies the power of strategic localisation through our collaboration with Rustenburg Steel Construction. Combining Rustenburg Steel Construction's renowned expertise in structural steel fabrication with DGC's comprehensive mechanical engineering capabilities, this partnership delivers unparalleled excellence in furnace mechanical projects across South Africa. Through advanced shell fabrication methodologies, innovative refractory solutions, and state-of-the-art structural integrity assessments, **DGC North-West** consistently sets new standards for quality and innovation in the industry.

In **DGC Kwa-Zulu Natal**, our alliance with Khonzi Engineering Services underscores a commitment to technical excellence and workforce development in the region. This partnership integrates advanced precision machining capabilities with specialised fabrication services and local capacity-building initiatives. By delivering innovative solutions for industrial plant maintenance, **DGC Kwa-Zulu Natal** drives regional industrial growth while ensuring sustainable, long-term outcomes for clients and communities alike.

THROUGH THESE FOCUSED PARTNERSHIPS,
DGC AFRICA HARNESSSES
THE STRENGTH OF LOCALISATION
TO DELIVER EXCEPTIONAL RESULTS

Together with **DGC North-West** and **DGC Kwa-Zulu Natal**, we combine global expertise and regional insight to meet the demands of modern industry with precision, efficiency, and sustainability.



OUR COMPREHENSIVE

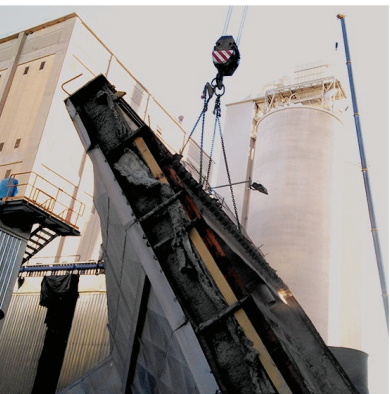
INDUSTRIAL ENGINEERING SOLUTIONS



DGC AFRICA provides a wide range of industrial engineering services designed to address the diverse and evolving challenges faced by modern industries.

Our integrated approach combines unparalleled technical expertise with innovative operational strategies to deliver solutions that are not only robust and efficient but also sustainable.

BY TAILORING OUR SERVICES
TO THE UNIQUE REQUIREMENTS
OF EACH CLIENT,
WE ENSURE OPTIMISED
PERFORMANCE, REDUCED
DOWNTIME, & LONG-TERM
VALUE CREATION ACROSS
ALL INDUSTRIAL SECTORS



STRUCTURAL, MECHANICAL, PIPING, AND PLATEWORK (SMPP)

DGC AFRICA's SMPP services exemplify the highest standards of industrial engineering, providing solutions that meet the complex demands of modern industries. Our expertise spans every phase of project execution, from design and fabrication to installation and maintenance, ensuring seamless integration and operational excellence.



STRUCTURAL ENGINEERING

We specialise in advanced steel fabrication, delivering structures that ensure integrity, resilience, and compliance with the highest safety standards, even under the most challenging conditions. Our methodologies incorporate cutting-edge technologies to optimise designs for performance and durability.

MECHANICAL ENGINEERING

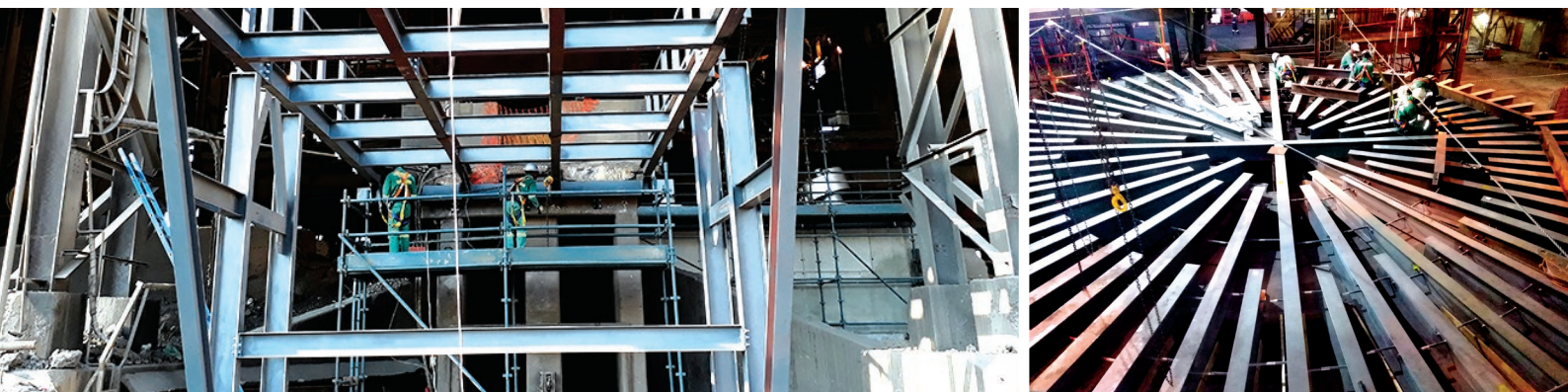
Our comprehensive system design and maintenance solutions are tailored to optimise equipment performance, improve reliability, and extend lifecycles. We focus on precision alignment, advanced component integration, and preventative maintenance strategies that minimise downtime and enhance operational efficiency.

PIPING SOLUTIONS

We deliver high-performance piping systems designed to operate in extreme environments. Our expertise includes material selection, stress analysis, and customised installation techniques that ensure longevity and efficiency while addressing unique client requirements.

PLATEWORK EXPERTISE

Our precision platework installations are crafted to enhance structural durability and operational efficiency. From complex plate designs to high-tolerance fabrication and installation, we ensure that every project is executed with the highest levels of accuracy and quality.





These integrated capabilities enable us to provide robust, tailored solutions that not only address immediate operational needs but also align with our clients' long-term strategic goals.

BY COMBINING TECHNICAL
**EXCELLENCE WITH INNOVATIVE
PRACTICES, WE HELP DRIVE
SUSTAINABLE SUCCESS**
FOR INDUSTRIES ACROSS A RANGE OF SECTORS

FURNACE **MECHANICAL** EXCELLENCE

With over a century of expertise, **DGC AFRICA** has established itself as a leader in furnace maintenance and optimisation. Our comprehensive, end-to-end solutions cater to a variety of furnace types, including submerged arc furnaces, rotary kilns, and metallurgical vessels. By leveraging our deep technical knowledge and advanced engineering capabilities, we deliver innovative, reliable solutions tailored to the unique challenges of each operation.

Our offerings include:

THERMAL ENGINEERING

We provide advanced thermal analysis, heat transfer solutions, and temperature control systems to optimise furnace performance. Our approach ensures precise thermal management, enhancing operational efficiency and reducing energy consumption.

MECHANICAL SYSTEMS SOLUTIONS

From structural integrity assessments to component optimisation and tailored maintenance plans, our solutions are designed to sustain long-term performance. We focus on preventing wear and ensuring that critical systems operate seamlessly under demanding conditions.

REFRACTORY SOLUTIONS

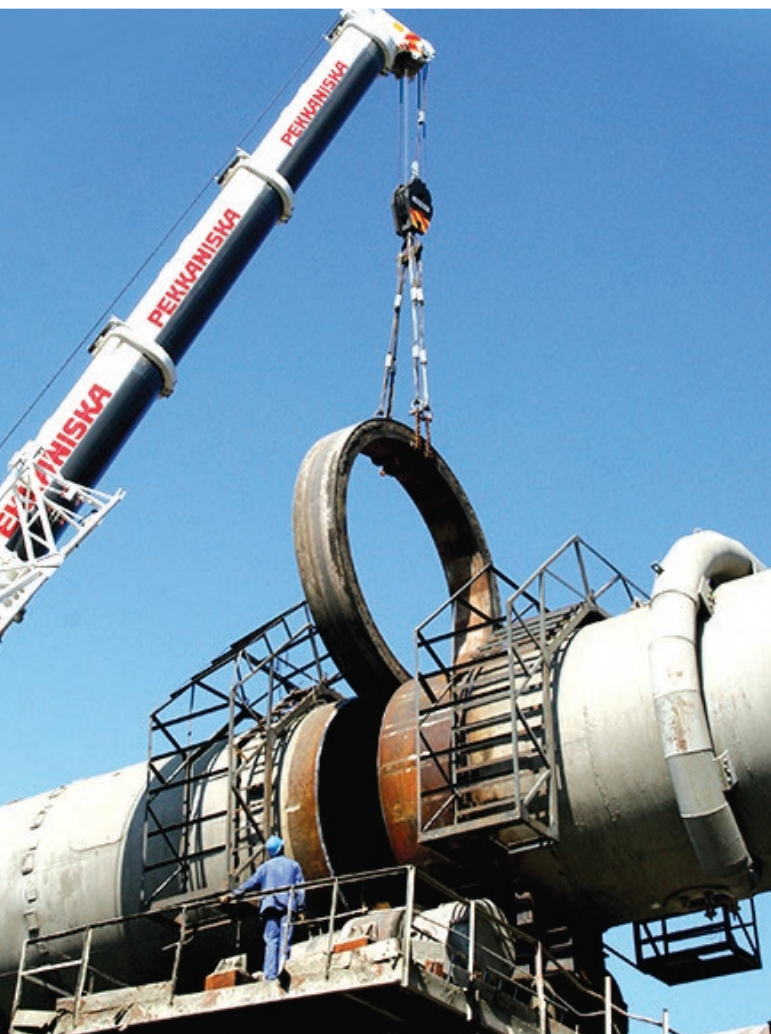
We specialise in material selection and installation techniques that enhance furnace longevity and operational efficiency. Our team ensures optimal refractory performance by implementing strategies that minimise wear and improve durability.

COOLING SYSTEMS

Our advanced cooling designs mitigate thermal stress, protect critical components, and extend equipment lifecycles. By employing innovative cooling solutions, we maintain system integrity even under extreme conditions.

EMERGENCY SERVICES

We deploy rapid-response teams equipped to handle critical repairs and root cause analysis, minimising downtime and restoring operations swiftly. Our proactive approach ensures operational resilience and business continuity.



By combining advanced engineering practices with a comprehensive understanding of furnace systems, **DGC AFRICA** delivers reliable and efficient operations that empower our clients to meet their production goals. Through innovation and precision, we set new standards in furnace mechanical excellence.

INDUSTRY-SPECIFIC SOLUTIONS

DGC AFRICA's engineering expertise spans key industrial sectors, offering tailored solutions to address unique challenges and seize opportunities. By combining technical excellence with industry-specific knowledge, we deliver innovative services that empower our clients to achieve operational success and long-term growth.



MINING & MINERAL PROCESSING:

Our services are designed to optimise processes, enhance reliability, and minimise downtime in mining operations. We provide:

- **Advanced mill maintenance and relining services** that improve throughput and ensure dependable performance.
- **Conveyor system optimisation solutions** that enhance material handling efficiency and reduce operational bottlenecks.
- **Predictive maintenance strategies and condition monitoring systems**, enabling proactive issue identification and reduced unplanned downtime.

METALS & SMELTING

Supporting operations in high-temperature environments, our solutions address the critical demands of the metals and smelting industry. We specialise in:

- **Comprehensive furnace maintenance and refractory installation**, ensuring durability and operational continuity.
- **High-temperature process management** that prioritises safety, efficiency, and performance optimisation.
- **Environmental compliance solutions**, including off-gas handling and slag management, aligning operations with regulatory requirements and sustainability goals.



HEAVY INDUSTRY

For clients in heavy industrial sectors, we deliver advanced solutions that drive operational efficiency and adaptability. Our expertise includes:

- **Specialised equipment relocations and vibration-resistant foundation designs**, ensuring precise implementation and stability.
- **Minimal disruption strategies** for production line upgrades and expansions, maintaining continuity during critical transitions.
- **Plant optimisation services** powered by cutting-edge data analytics, enabling data-driven decision-making and maximised resource utilisation.



BY TAILORING OUR SERVICES TO MEET THE SPECIFIC DEMANDS OF EACH SECTOR, DGC AFRICA ENSURES THAT OUR CLIENTS BENEFIT FROM RELIABLE, INNOVATIVE, & COST-EFFECTIVE SOLUTIONS THAT ENHANCE THEIR COMPETITIVE EDGE & OPERATIONAL RESILIENCE

COMMITMENT TO EXCELLENCE

At **DGC AFRICA**, excellence is more than a goal - it is a standard that informs every aspect of our work. From initial design and engineering to project execution and ongoing maintenance, we prioritise:

- **Safety:** Embedding a zero-harm culture across all operations.
- **Sustainability:** Integrating environmental responsibility into every project.
- **Operational Efficiency:** Delivering solutions that maximise performance and minimise costs.

Our ISO 9001:2015 certification reflects our commitment to continuous improvement and quality assurance. Through rigorous inspection protocols, advanced measurement tools, and comprehensive documentation, we ensure that every project meets the highest standards of reliability and excellence.

STRATEGIC PARTNERSHIPS

& COLLABORATIVE EXCELLENCE

DGC AFRICA collaborates with globally recognised industry leaders to enhance our service offerings and expand our capabilities. Through these partnerships, we integrate specialised expertise, cutting-edge technologies, and innovative practices, enabling us to deliver tailored solutions that meet the evolving demands of industrial operations.



Our collaboration with SARENS brings access to world-class lifting and transportation capabilities, making it possible to handle large-scale industrial projects with precision.

SARENS offers an extensive range of equipment, from 50-ton mobile cranes to massive 5,000-ton crawler cranes, ensuring we can accommodate even the most complex lifting requirements.

Their integrated lifting engineering services and advanced project planning methodologies allow for seamless execution while prioritising safety and efficiency, ensuring timely delivery for our clients.



This partnership strengthens DGC AFRICA's capabilities in process engineering by incorporating advanced digital technologies.

LogiProc's expertise includes the use of digital twin systems, providing real-time operational insights that allow for optimised process control and enhanced performance.

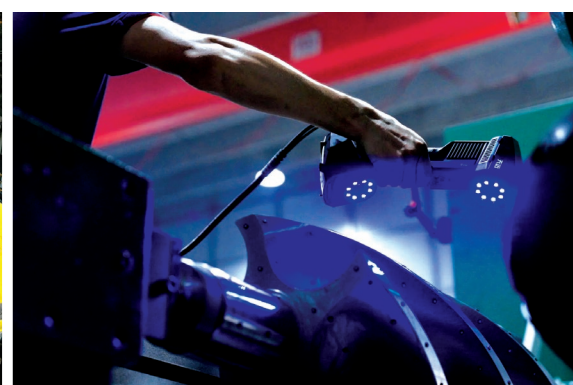
By leveraging data-driven solutions, we reduce downtime, streamline operations, and deliver measurable efficiency improvements, aligning with the unique needs of diverse industrial sectors.



Effixon Engineering supports DGC AFRICA's precision manufacturing and reverse engineering initiatives.

Utilising state-of-the-art 3D scanning and modelling technologies, Effixon enables exact replication of critical components and delivers innovative design improvements.

Their capabilities in equipment modernisation and lifecycle management help clients address operational challenges effectively while ensuring sustained performance and reliability.



Together, these strategic partnerships allow DGC AFRICA to provide comprehensive, high-quality solutions that address the most challenging industrial requirements. Through collaborative excellence, we continue to set new benchmarks in the industry, driving value for our clients and partners alike.



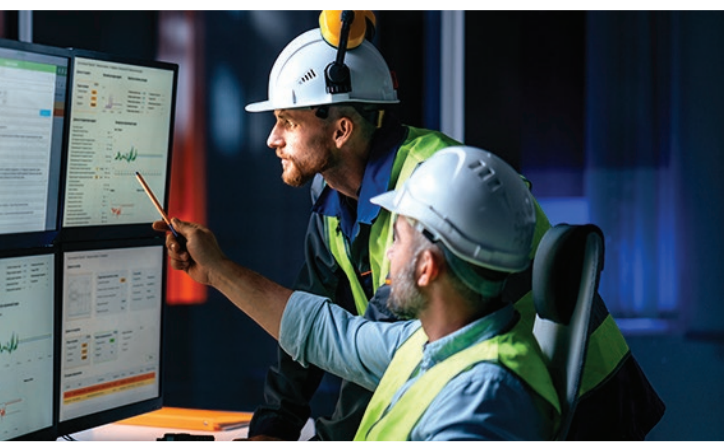
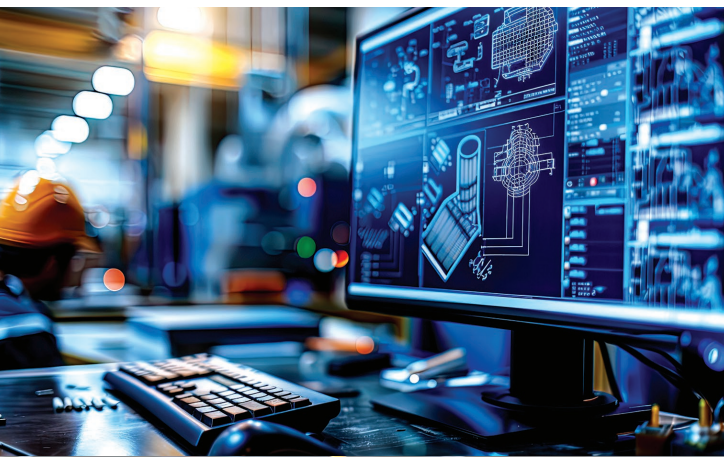
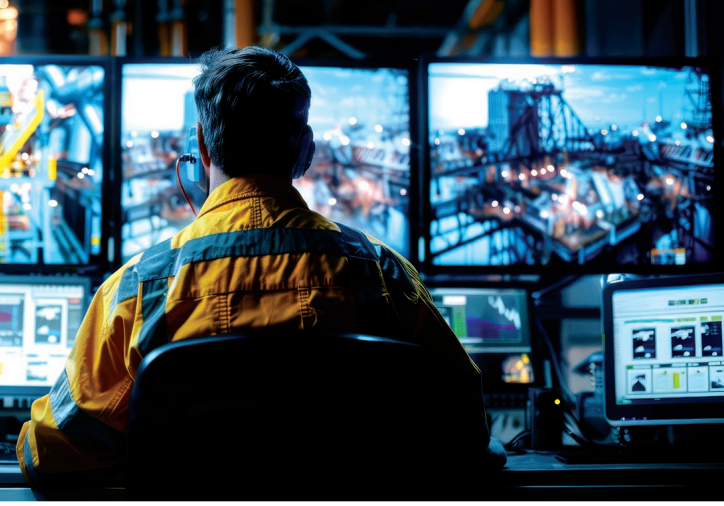
QUALITY ASSURANCE

& SAFETY STANDARDS

A zero-harm culture lies at the heart of DGC AFRICA's philosophy, reflecting our unwavering commitment to safeguarding the wellbeing of our workforce, supporting local communities, and protecting the ecosystems in which we operate. This culture fosters a proactive approach to safety, encouraging every individual to take ownership of risk management and make informed decisions that prioritise health and sustainability.

Backed by our ISO 9001:2015 certification, we continuously refine our processes to ensure that every project meets the highest standards of safety, reliability, and sustainability. Through rigorous quality control, real-time risk assessments, and environmentally responsible practices, we create value for our clients while preserving the resources and environments essential for future generations.





TECHNOLOGY & INNOVATION

At DGC AFRICA, we leverage technology as a cornerstone of innovation and efficiency, enabling our clients to achieve sustainable and high-performance outcomes.

Through our specialised **DGC Integrated Asset Management Solutions**, we deliver cutting-edge tools and strategies that optimise operations and ensure long-term value.

ARTIFICIAL INTELLIGENCE (AI) & IOT APPLICATIONS

Artificial intelligence (AI) and IoT applications form the backbone of our predictive maintenance services, allowing for real-time data collection and analysis to identify potential issues before they escalate. This proactive approach minimises downtime, reduces costs, and extends asset lifecycles.

ADVANCED SIMULATION TOOLS & REAL-TIME MONITORING SYSTEMS

Advanced simulation tools and real-time monitoring systems provide actionable insights into operations. These technologies enable clients to model scenarios, optimise processes, and make informed decisions that enhance performance and reduce risks.

CUTTING-EDGE DATA ANALYTICS

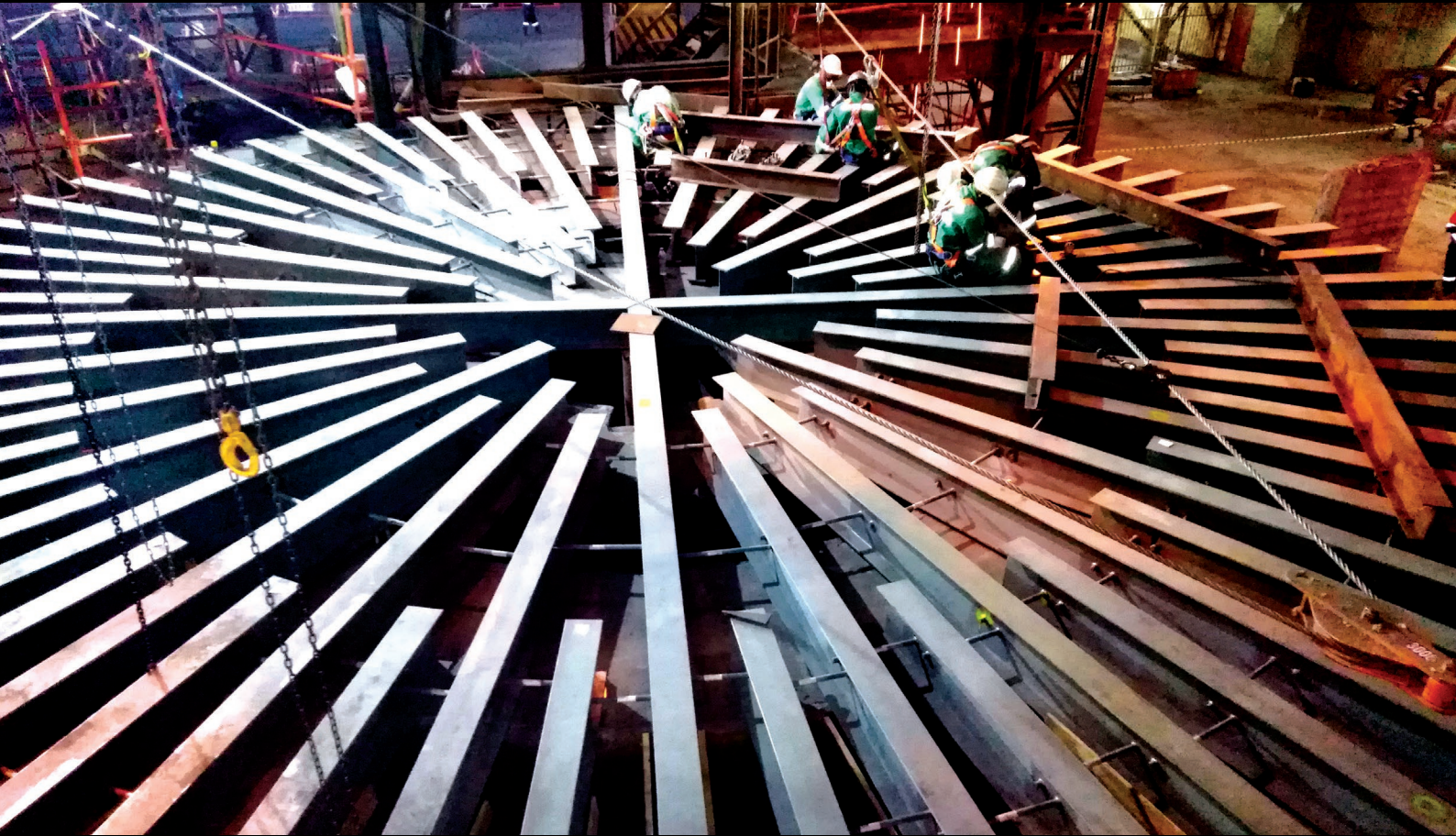
Cutting-edge data analytics drive our ability to optimise industrial operations. By identifying patterns and trends, we improve efficiency, maximise resource utilisation, and align operations with sustainability goals.

With **DGC Integrated Asset Management Solutions**, we bring together innovative technologies and industry expertise to deliver tailored solutions that address the unique challenges of industrial operations. This holistic approach ensures our clients are equipped to navigate the complexities of modern industry while achieving operational excellence.

YOUR PARTNER

IN INDUSTRIAL EXCELLENCE

With a legacy spanning over 115 years, **DGC AFRICA** has established itself as a trusted leader in addressing the most complex industrial challenges. Our comprehensive capabilities encompass a wide range of engineering solutions, designed to optimise operations, enhance efficiency, and ensure long-term sustainability.



Leveraging our regional expertise and commitment to innovation, we deliver tailored solutions that meet the evolving needs of diverse industrial sectors. Our unwavering focus on excellence ensures that every project benefits from our technical proficiency, operational insight, and dedication to quality.

PARTNER WITH DGC AFRICA TO UNLOCK
THE FULL POTENTIAL OF YOUR OPERATIONS.
**TOGETHER, WE CAN DRIVE
OPERATIONAL SUCCESS,**
FOSTER INNOVATION, & CREATE LASTING VALUE
FOR YOUR BUSINESS & STAKEHOLDERS.

LET OUR EXPERIENCE & EXPERTISE EMPOWER YOUR FUTURE.



CONTACT US to learn how DGC can help transform your operations and deliver sustainable competitive advantage.

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