



ADVANCED MECHANICAL MAINTENANCE & PROTECTION SOLUTIONS

POWERED BY CERAMIC COMPOSITE TECHNOLOGY



LEADING THE WAY

IN ASSET INTEGRITY MANAGEMENT & INDUSTRIAL SOLUTIONS

www.dgc-africa.com

SOUTH AFRICA

ZAMBIA

DEMOCRATIC REPUBLIC OF CONGO

MADAGASCAR

ZIMBABWE

SAUDI ARABIA



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, & EFFICIENCY
HAS ESTABLISHED US AS A TRUSTED PARTNER
IN THE INDUSTRY, COMMITTED TO SUPPORTING
SUSTAINABLE GROWTH & OPERATIONAL
EXCELLENCE FOR OUR CLIENTS**



TRANSFORMING

INDUSTRIAL MAINTENANCE

**DGC AFRICA STANDS AT THE FOREFRONT OF
INDUSTRIAL MAINTENANCE
& PROTECTION SOLUTIONS,
PIONEERING THE APPLICATION
OF ADVANCED CERAMIC
COMPOSITE TECHNOLOGY
ACROSS MULTIPLE INDUSTRIES**

Our comprehensive approach combines cutting-edge materials science with decades of practical engineering experience to deliver solutions that significantly extend equipment life, reduce maintenance costs, and improve operational efficiency.

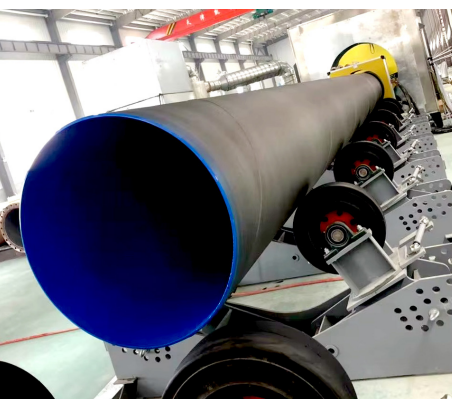
In today's demanding industrial environments, equipment reliability is paramount. Our specialized ceramic composite solutions provide unprecedented protection against wear, corrosion, and chemical attack, while offering exceptional thermal stability. This unique combination of properties allows us to address complex maintenance challenges that traditional solutions cannot effectively solve.



REVOLUTIONARY MATERIAL TECHNOLOGY

Our ceramic composite materials represent a breakthrough in materials science, combining the inherent strength of ceramics with the versatility of advanced polymers and metals. **This engineered synergy creates materials with extraordinary properties:**

- **Superior mechanical properties** including exceptional compressive strength, enhanced fracture toughness, and outstanding hardness ratings on the Mohs scale
- **Comprehensive temperature resistance** spanning from cryogenic conditions to extremely high temperatures
- **Universal chemical resistance** against industrial acids and alkalis
- **Wear resistance** that substantially surpasses traditional hardened steel



INDUSTRY-SPECIFIC SOLUTIONS

MINING & MINERAL PROCESSING

In the challenging environment of mining and mineral processing, equipment faces constant exposure to abrasive materials, aggressive chemicals, and high-impact loads. Our ceramic composite solutions have revolutionized equipment protection in this sector, offering substantial improvements in service life compared to conventional materials.

KEY APPLICATIONS INCLUDE:

- **Slurry pipelines and pumps** requiring superior wear resistance and longevity
- **Crushing and grinding equipment** exposed to extreme abrasive conditions
- **Material transfer points** subject to continuous impact and wear
- **Storage tanks and vessels** requiring chemical resistance
- **Processing equipment** needing comprehensive protection



CHEMICAL PROCESSING

The chemical processing industry demands materials that can withstand aggressive chemicals while maintaining structural integrity. Our ceramic composite solutions provide universal chemical resistance across the full pH spectrum, combining this with exceptional wear resistance and thermal stability.

WE SPECIALIZE IN PROTECTING:

- **Reaction vessels and storage tanks** exposed to aggressive chemicals
- **Process piping systems** requiring long-term reliability
- **Heat exchangers** operating in corrosive environments
- **Mixing equipment** subject to abrasive wear
- **Containment areas** needing chemical resistance



COMPREHENSIVE

PROTECTION SOLUTIONS

OUR CERAMIC COMPOSITE TECHNOLOGY REPRESENTS
A QUANTUM LEAP
IN EQUIPMENT PROTECTION CAPABILITIES

THESE ADVANCED MATERIALS DELIVER:

- **Temperature resistance** from cryogenic conditions to extreme heat
- **Universal chemical resistance** across the entire pH spectrum
- **Superior wear resistance** compared to conventional materials
- **Enhanced impact resistance** exceeding traditional ceramics
- **Exceptional thermal shock resistance**
- **Lightweight properties** for easier installation and handling
- **Advanced fouling resistance** for improved efficiency



REPAIR & REHABILITATION CAPABILITIES

OUR CERAMIC COMPOSITE SOLUTIONS EXCEL IN EQUIPMENT REPAIR AND REHABILITATION THROUGH:

- **Precision** rebuilding of worn surfaces
- **In-situ application** capabilities
- **Profile restoration** to original specifications
- **Enhanced** surface properties post-repair
- **Custom solutions** for specific damage types



SERVICE METHODOLOGY

ASSESSMENT & DESIGN

OUR ENGINEERING TEAM CONDUCTS COMPREHENSIVE EVALUATIONS OF:

- **Current equipment** performance and limitations
- **Operational environment** and challenges
- **Maintenance history** and requirements
- **Performance** improvement objectives
- **Budget** and timeline constraints

IMPLEMENTATION EXCELLENCE

OUR IMPLEMENTATION PROCESS FOLLOWS RIGOROUS QUALITY CONTROL PROCEDURES:

- Advanced surface preparation techniques
- Carefully controlled application procedures
- Comprehensive documentation
- Regular quality control checks
- Continuous monitoring and adjustment

ENVIRONMENTAL SUSTAINABILITY

OUR CERAMIC COMPOSITE SOLUTIONS
CONTRIBUTE TO ENVIRONMENTAL
SUSTAINABILITY THROUGH:

- Reduced material waste through extended equipment life
- Solvent-free options aligned with environmental standards
- Improved energy efficiency in operations
- Decreased maintenance-related waste
- Lower resource consumption over equipment lifetime
- Enhanced process efficiency reducing environmental impact

COMMITMENT TO QUALITY

Quality stands at the core of everything we do at DGC AFRICA. Our comprehensive quality assurance program encompasses all aspects of our operations, from initial assessment through final implementation and ongoing support. We maintain ISO certification and comply with all relevant industry standards, ensuring that our solutions meet or exceed the highest quality requirements.



ADVANCING

THE FUTURE OF INDUSTRY

Partner with DGC AFRICA to redefine what's possible in industrial maintenance and protection. Our revolutionary ceramic composite technology represents more than just an advancement in materials science – it embodies a fundamental shift in how industries approach equipment protection and operational sustainability.

Through decades of innovation and practical experience, we've developed solutions that address today's industrial challenges while anticipating tomorrow's demands. Our approach combines cutting-edge technology with deep industry expertise, delivering protection systems that transcend traditional limitations.



WHEN YOU WORK WITH DGC AFRICA, YOU GAIN ACCESS TO:

- **State-of-the-art ceramic composite technology** that sets new standards in equipment protection
- **A partner committed** to understanding and solving your unique operational challenges
- **Solutions that drive** both operational excellence and environmental sustainability
- **A team of experts** dedicated to your success
- **Innovation** that keeps you ahead of industry demands

The era of next-generation industrial maintenance is here. Join us in shaping an industrial future where equipment performs better, lasts longer, and operates more sustainably than ever before. DGC AFRICA is ready to guide your transformation journey.

TRANSFORM YOUR MAINTENANCE STRATEGY WITH OUR ADVANCED CERAMIC COMPOSITE SOLUTIONS.

Contact our team today to discuss how we can help protect your critical equipment and improve your operational efficiency.





**EMPOWERING INDUSTRIES
THROUGH ADVANCED MAINTENANCE & PROTECTION SOLUTIONS**

OUR OFFICES

**CONTACT US TO
LEARN HOW DGC
CAN HELP TRANSFORM
YOUR OPERATIONS
& DELIVER
SUSTAINABLE
COMPETITIVE
ADVANTAGE.**

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