

INDUSTRIAL SERVICES



LEADING THE WAY
IN ASSET INTEGRITY MANAGEMENT & INDUSTRIAL SOLUTIONS

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SOUTH AFRICA

ZAMBIA

DEMOCRATIC REPUBLIC OF CONGO

MADAGASCAR

ZIMBABWE

BRAZIL

CHINA

INDUSTRIAL SERVICES



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.



**DGC AFRICA PROVIDES
A WIDE RANGE OF
WORLD-CLASS
INDUSTRIAL SERVICES
TO THE MINING, METALS SMELTING,
MINERAL PROCESSING & REFINING
INDUSTRIES
INTERNATIONALLY**

Our portfolio of industrial services is designed to optimize maintenance costs and enhance plant performance for large industrial customers. By offering innovative solutions and leveraging market-leading technologies, we ensure the extended service life of your operating assets, resulting in improved efficiency and reliability.

To support **DGC AFRICA's** mission of providing an integrated and multidisciplinary **“One Personalised Solution,”** we constantly review and develop our services. This approach aims to optimize clients' productivity, safety performance, and regulatory compliance while extending the life of their assets.

DGC AFRICA'S INDUSTRIAL SERVICES COMPRISE OF THE FOLLOWING:

**INDUSTRIAL VACUUMATION SERVICES / SILO CLEANING SERVICES
CATALYST HANDLING SERVICES / HP & UHP WATER BLASTING**



INDUSTRIAL VACUUMATION SERVICES

DGC AFRICA offers reliable and efficient solutions for cleaning industrial waste and recovering material spillages in the mining, metals smelting, mineral processing, and refining industries. Using heavy-duty vacuum systems, we handle a wide range of substances, including liquids, sludge, chemicals, and industrial products like alumina, coal, and oil spills.

Our **Industrial Vacuumation Services** utilize advanced vacuum trucks and custom-designed systems for both hazardous and non-hazardous materials. This ensures safe and effective clean-up, aiding in operational cleanliness and maintaining high safety standards in plants and mining applications.



THESE SERVICES ARE CRUCIAL FOR
**MANAGING SPILLAGES
& BLOCKAGES,**
WHICH CAN IMPACT
PRODUCTIVITY
& **SAFETY**
WITHIN INDUSTRIAL FACILITIES



Our approach ensures comprehensive and efficient solutions for material recovery and waste management in various heavy industries.

SILO CLEANING SERVICES

DGC AFRICA provides specialized Silo Cleaning Services for the manufacturing, mining, and mineral processing industries. Our advanced techniques ensure the safe and efficient removal of compacted materials from bulk storage containers, including silos, bins, hoppers, tanks, reactors, and chimneys.



OUR SERVICES INCLUDE
CONSULTING,
PREVENTATIVE
MAINTENANCE
PROCEDURES,
& PROPER CLEANING SCHEDULES
TO ENHANCE OPERATIONAL
EFFICIENCY



Using cutting-edge equipment like the **Cardox CO2 System** and the **SiloWhip System**, we safely clean storage vessels without human entry. These services not only enhance the operational efficiency and safety of storage systems but also comply with environmental standards, making them essential for industries like manufacturing and mining.

SILO MANAGEMENT

Materials stored in silos, such as cement, coal, soda ash, fertilizer, lime, animal feed, salt, or clay, often attract moisture. This moisture causes the materials to bind and adhere to the silo walls or form lumps. Due to moisture and other factors, materials stored in silos can lead to several issues such as bridging, caking, sidewall build-ups, lumps, ratholing, plugging, and funnelling. These problems can restrict and block the flow within the silo, ultimately reducing its storage capacity and negatively impacting production.

Specialist expertise is critical to successful silo management. DGC AFRICA's Silo Cleaning Services utilize innovative technologies to replace traditional, unsafe cleaning methods, eliminating the need for personnel to work inside confined spaces. In addition to relevant experience and know-how, these services require highly specialized equipment.

DGC AFRICA combines specialist cleaning systems to ensure efficient and safe silo maintenance.



CATALYST HANDLING SERVICES

DGC AFRICA provides highly specialized **Catalyst Handling Services** to the mining, metal smelting, and mineral processing industries across sub-Saharan Africa and beyond.

Our heavy-duty catalyst handling equipment, combined with experienced and well-trained personnel, ensures the execution of catalyst handling projects in the most challenging confined and hazardous working environments, adhering to strict health, safety, and environmental protection procedures.

Our **Catalyst Handling Services** are expertly tailored to meet the demands of various industries. We manage catalysts efficiently and safely, utilizing specialized techniques and equipment to ensure high standards of safety and performance. We handle everything from catalyst unloading and screening to reloading, even under challenging conditions.



HAVING SUCCESSFULLY COMPLETED NUMEROUS CATALYST HANDLING PROJECTS WORLDWIDE, OUR TEAM IS EQUIPPED TO ENHANCE PROCESS EFFICIENCIES & REDUCE ENVIRONMENTAL IMPACTS, ENSURING OPTIMAL PERFORMANCE IN ALL CATALYST MANAGEMENT TASKS



CATALYST UNLOADING

Through excellent project planning, monitoring, control, communication, co-ordination and management, **DGC AFRICA** ensures that catalyst layers are separated according to age and (or) type without cross contamination, harm to personnel or the endangerment of the convertor's structural integrity.



Special barriers are constructed inside convertors for personnel movements while vacuuming to avoid catalyst damage. Vacuumation suction pressure and catalyst velocity are also carefully controlled by our team of experts to avoid catalyst break-age. In addition, our team ensures that all ceramic ball layers are vacuumed separately from the catalyst.



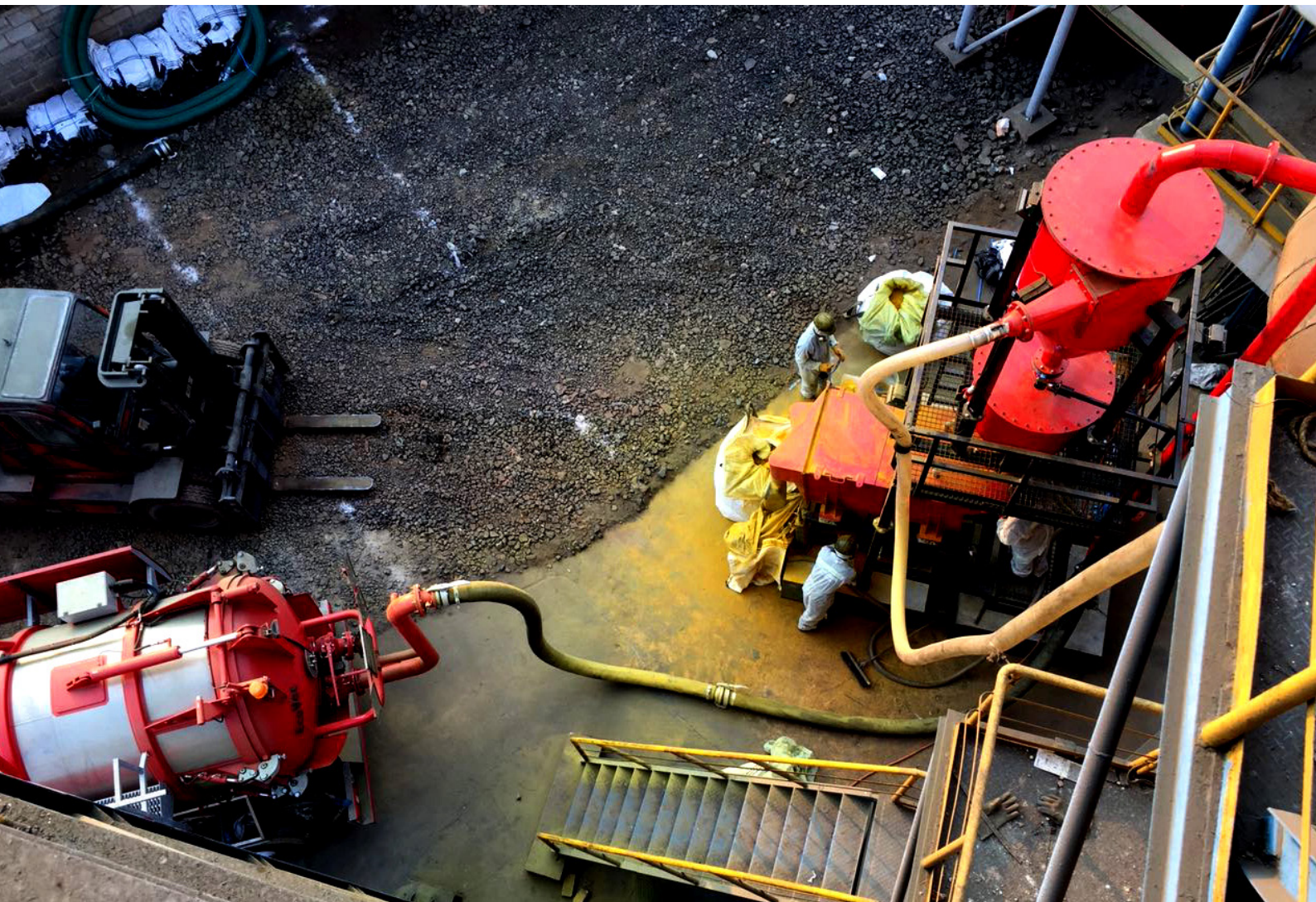
- SCOPE OF SERVICES -
**WE TAKE FULL
RESPONSIBILITY FOR
THE ENTIRE CATALYST
HANDLING PROCESS FROM
UNLOADING,
SCREENING TO
RELOADING**



CATALYST **LOADING**

DGC AFRICA performs both sock and dense catalyst loading. Like in every other stage of the catalyst handling process, quality assurance is given critical attention. Given the hygroscopic nature of catalysts, exposure to the environment is minimized at all costs.

Throughout the loading process, an even distribution of ceramic balls and catalysts on each bed in accordance with the loading diagram is closely monitored and ensured. The loading team puts in place all necessary measures to minimize catalyst breakages, channelling and high pressure drops that may occur due to loading errors.



HP/UHP WATER BLASTING

DGC AFRICA provides a complete range of (High Pressure / Ultra High Pressure) HP/UHP Water Blasting services. Our state-of-the-art technologies ensure that services are completed efficiently and effectively. Using our automated systems eliminates human errors and operator variabilities, significantly reducing cleaning time and improving ergonomics.

DGC AFRICA's High Pressure (HP) and Ultra High Pressure (UHP) Water Blasting Services provide advanced cleaning solutions for various industrial applications. We remove hardened deposits from equipment like heat exchangers and pipes, enhancing operational efficiency.

OUR TECHNIQUES ARE ALSO USED FOR SURFACE PREPARATION & COLD CUTTING, ENSURING ENVIRONMENTAL FRIENDLINESS & PRECISION WITHOUT THERMAL STRESS. THIS APPROACH EXTENDS EQUIPMENT LIFESPAN WHILE MEETING RIGOROUS SAFETY & ENVIRONMENTAL STANDARDS



HEAT EXCHANGER CLEANING

We use HP/UHP Water Blasting (Between 20000 and 40000 psi) to remove hardened process related deposits on efficient heat exchanger systems thoroughly and cost-effectively. The modern automated systems are more effective and more operator friendly. Regular cleaning allows the ultra-efficient heat exchanger systems to maintain optimum levels of operational efficiency; ensuring efficient heat transfer and lowering operating costs.

PIPE CLEANING

Pipes used in industry often become corroded, scaled up or even completely blocked. Our HP/UHP Water Blasting Pipe Cleaning Systems are used to effectively clear blockages and remove scaling from pipes and drains using water jets at pressure ranges between 500 and 3000 bar. The spent water flushes the debris through the open end of the pipes.



SURFACE PREPARATION & REMOVAL COATING

UHP water jets penetrate the surface initially making contact with the steel surface. As they ricochet off the surface, they lift any existing coating and contaminants from the steel surface. This makes UHP far more efficient in preparing steel surfaces for lining or coating. The fact that there are no added contaminants make UHP surface preparation extremely environmentally friendly.



COLD CUTTING

DGC AFRICA's Cold Cutting systems give highly precise cuts while eliminating heat-affected zones, toxic fumes, recast layers, work hardening, and thermal stress. These systems are ideal for cutting heat-sensitive material. Addition of abrasives onto UHP water has turned the waterjet into a modern machining tool for all materials; offering added advantages of reduced dust, cutting oils, vibrations, thermal stress, mechanical stress and waste products.



HYDRO DEMOLITION

Our Hydro Demolition technologies use high pressure jetting equipment for concrete demolition tasks as an alternative to traditional mechanical methods of concrete demolition. Using HP/ UHP Water Jetting for these tasks allows for more efficient and effective and safer services when compared to the other typical concrete breaking techniques. The systems also produce a better surface for concrete repair and protective coatings.



BENEFITS

ENHANCED EFFICIENCY AND RELIABILITY

We help you optimize maintenance costs and extend the life of your operating assets, ensuring your production runs smoothly and efficiently.

SAFETY AND COMPLIANCE

Our innovative technologies and strict safety standards keep your operations safe and compliant with environmental regulations.

COMPREHENSIVE SOLUTIONS

From vacuumation to silo cleaning, catalyst handling, and water blasting, we offer a wide range of services tailored to meet your specific needs.

EXPERTISE AND EXPERIENCE

With our extensive industry knowledge and specialized equipment, our experienced team delivers high-quality services you can rely on.

IMPROVED PRODUCTIVITY

We minimize downtime and enhance your plant's performance, preventing blockages and reducing production stoppages.

INNOVATIVE TECHNIQUES

Our advanced systems and methods ensure efficient and effective service, incorporating modern technologies for superior results.



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