



## SILO CLEANING SERVICES



## LEADING THE WAY

IN ASSET INTEGRITY MANAGEMENT & INDUSTRIAL SOLUTIONS

[www.dgc-africa.com](http://www.dgc-africa.com)

SOUTH AFRICA

ZAMBIA

DEMOCRATIC REPUBLIC OF CONGO

MADAGASCAR

ZIMBABWE

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CHINA



# EMPOWER YOUR OPERATIONS

## WITH SAFE, EFFICIENT SILO CLEANING SERVICES FROM DGC



**Are you looking for a better way to manage your bulk storage silos or containers?**

Do you struggle with flow restrictions, blockages, or reduced storage capacity that disrupt production and hurt profitability? At DGC, we understand these challenges and offer an advanced, people-first, zero-entry approach to silo cleaning that helps you optimize storage capacity, maintain high product quality, and keep your employees safe.





## WHY

### SILO CLEANING MATTERS

Silos, bins, and other bulk storage containers often encounter common issues like bridging, caking, sidewall buildup, ratholing, and funnelling – primarily due to moisture and material compaction. In fact, whether it be cement, coal, soda ash, fertilizer, lime, animal feed, salt, or clay, substances kept in silos naturally attract moisture, causing materials to bind to the walls or form lumps.

These problems can lead to:

#### **BLOCKED FLOW**

Material blockages can halt operations and cause costly downtime.

#### **REDUCED CAPACITY**

Caked or compacted product shrinks available storage space, forcing additional handling or new storage solutions.

#### **SAFETY RISKS**

Conventional cleaning methods may require personnel to work in hazardous, confined spaces.

#### **PRODUCT QUALITY CONCERNS**

Stored materials can become contaminated, leading to waste and increased disposal costs.

BY PROACTIVELY ADDRESSING  
**THESE CHALLENGES,**  
YOU NOT ONLY PROTECT  
**YOUR WORKFORCE &  
EQUIPMENT**  
**BUT ALSO ENHANCE**  
OVERALL PRODUCTIVITY  
**& PROFITABILITY**





## DGC'S HOLISTIC APPROACH TO SILO CLEANING

At DGC, we specialize in cleaning contaminated and clogged-up bulk storage containers for manufacturing, mining, mineral processing, and a broad array of other industries. Rather than simply cleaning your silo and leaving you to figure out the rest, we provide:

### SAFE & EFFICIENT MATERIAL REMOVAL

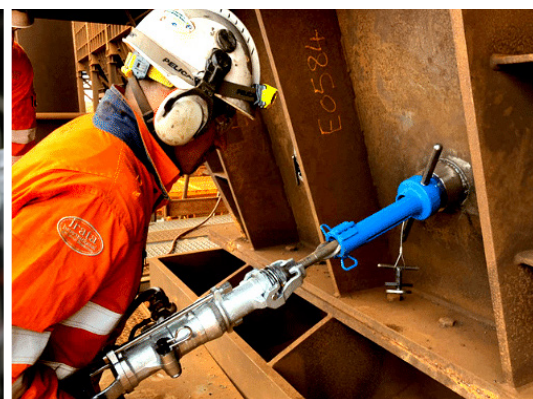
- **No human entry required.** We use cutting-edge equipment that operates from outside the silo to eliminate the risks of confined-space work.
- **High-performance, specialized systems** capable of dislodging even the toughest build-ups.

### CONSULTING SERVICES & PREVENTATIVE MAINTENANCE

- **We collaborate with you** to develop regular cleaning schedules and optimized protocols.
- **Ongoing support and advice** to reduce future blockages and enhance your silo management system.

### ADVANCED TECHNOLOGIES TO GET THE JOB DONE

- **SiloWhip System:** Uses hydraulic or pneumatic power to break up compacted materials.
- **Cardox CO<sup>2</sup> System:** Delivers a powerful heaving force (up to 40,000 psi) to shatter hardened build-ups and restore full capacity.





# HOW OUR TECHNOLOGIES WORK

## THE CARDOX CO<sup>2</sup> SYSTEM

### SAFE, CONTROLLED RELEASE

Each Cardox tube is filled with liquid CO<sup>2</sup> (like a fire extinguisher). An electrical charge instantly heats the CO<sup>2</sup>, causing rapid expansion.

### POWERFUL FORCE

Pressures can reach up to 40,000 psi in milliseconds. This force breaks hardened material without damaging your silo.

### REUSABLE TUBES

After deployment, the tube is fitted with a new rupture disc and recharged with CO<sup>2</sup>, making it efficient and eco-friendly.



## THE SILOWHIP SYSTEM

### REMOTE, ZERO-ENTRY CLEANING

Operated from the top of the silo without exposing personnel to confined-space risks.

### POWERFUL FORCE

A hydraulic or pneumatic rotary cutter clears material build-ups at depths of up to 50 meters.

### REUSABLE TUBES

Different cutter types are selected based on the material characteristics (from fine powders to tougher mineral lumps).





# KEY BENEFITS YOU'LL EXPERIENCE

## SAFETY

- Zero human entry into confined spaces.
- Suitable for flammable, explosive, hazardous, or toxic materials.
- Meets rigorous Government Health & Safety Regulations.
- No risk of structural damage to your silo or harm to the surrounding environment.

## IMPROVED HYGIENE

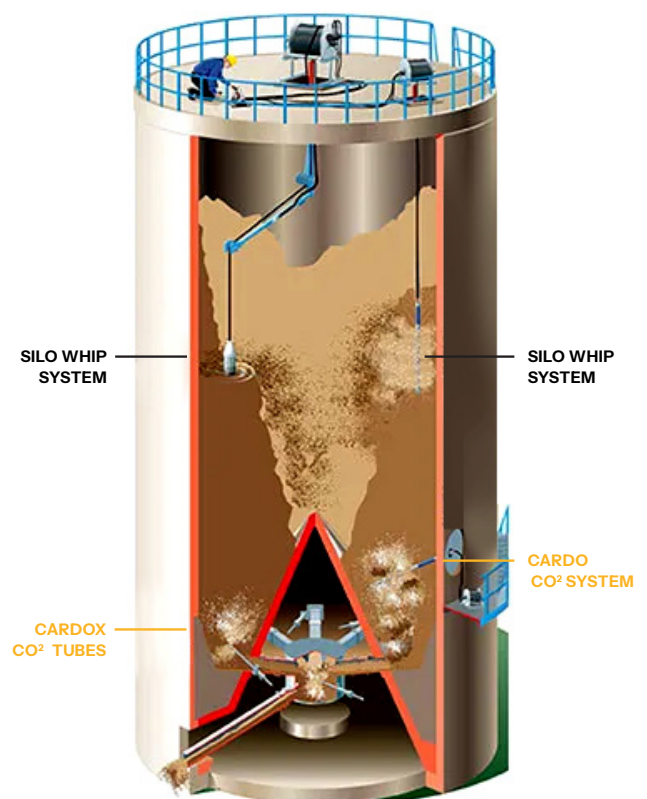
- No water or chemicals used, minimizing contamination risks.
- Regular cleaning helps maintain product quality and cleanliness standards.
- Extends the lifespan and reliability of your storage vessels.

## COST SAVINGS

- Eliminates expenses tied to confined-space protocols and additional labour.
- Recovers lost or compacted material that can be reclaimed or recycled.
- Enhances silo capacity, often preventing the need for new storage solutions.
- Aligns with QA and ISO standards, helping you avoid costly compliance fines or interruptions.

## SPEED & EFFICIENCY

- Faster than conventional methods – reduces downtime and keeps production on schedule.
- Ability to clean multiple silos simultaneously for larger operations.
- Instantly tackles everything from minor scaling to total blockages.
- Keeps your production lines moving without needless disruptions.



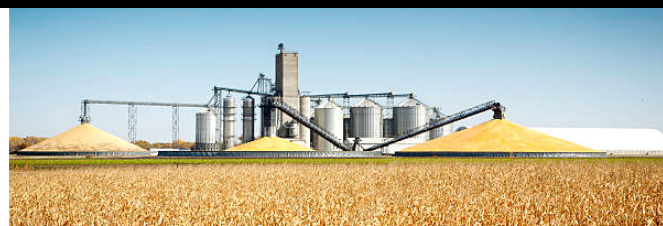




# SERVING A WIDE RANGE OF INDUSTRIES

From manufacturing and mining to construction and agriculture, our methods restore flow, recover design capacity, prevent cross-contamination, and even reclaim lost product. **Here are just a few industries that leverage our silo cleaning solutions:**

- Aluminium
- Biofuels
- Breweries & Distilleries
- Coal
- Cement Plants & Terminals
- Feed & Grain
- Foundry
- Glass, Stone & Clay
- Iron & Steel
- Metals Smelting Industries
- Mining / Quarrying
- Mineral Processing
- Paint & Allied Products
- Pulp & Paper
- Sand & Gravel
- Thermal Power Plants







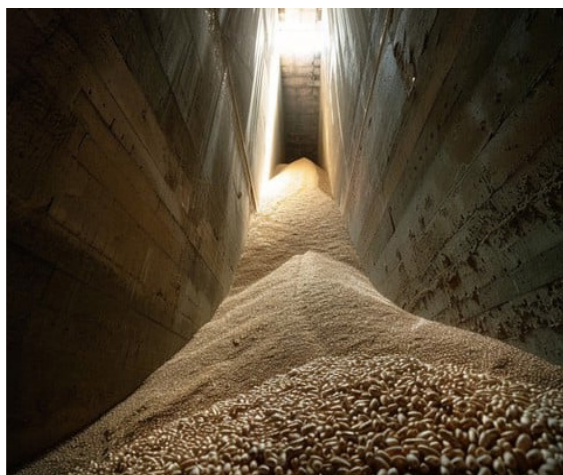
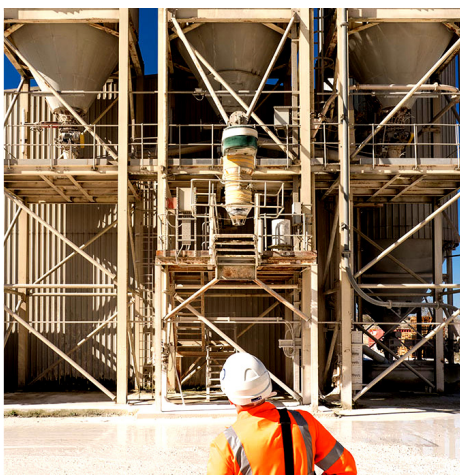
# READY TO **TRANSFORM**

## YOUR SILO **MANAGEMENT?**

Don't let caking, compacted product, and silo blockages slow you down or risk your employees' safety. DGC's advanced Silo Cleaning Services stand ready to keep your operations efficient, productive, and compliant.

**THROUGH A COMBINATION OF SPECIALIZED SYSTEMS,  
EXPERT CONSULTATION, & PREVENTATIVE MAINTENANCE,  
WE'LL HELP YOU MAINTAIN  
THE HIGHEST STANDARDS  
OF SAFETY & PRODUCTIVITY IN  
YOUR BULK STORAGE OPERATIONS**

Get in touch today to learn how DGC can help you restore silo capacity, safeguard product quality, and optimize your entire operation - all while keeping employees out of harm's way. We look forward to partnering with you for a safer, smarter, and more sustainable approach to silo management.







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

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