



## **FURNACE REBUILD SHUTDOWN SERVICES**

**A LEADING PROVIDER OF SPECIALIST  
FURNACE REBUILD SHUTDOWN SERVICES.**

DGC has more than 90 years' experience in providing asset integrity management and industrial solutions to the mining, metals smelting

Our vision is to help our industrial customers optimising their maintenance costs and improving plant performance, by providing innovative solutions to enhance the service life of their operating assets.



**EFFECTIVE  
PLANNING &  
EXECUTION OF  
SHUTDOWNS,  
TURNAROUNDS  
& OUTAGES  
ARE MAJOR  
TASKS DURING  
A PLANT'S LIFE  
CYCLE.**



## **SHUTDOWN PLANNING & EXECUTION**

**It is an important aspect of plant maintenance** that helps improve the life expectancy of assets, to maintain inventory levels and reduce loss of revenue.

Shutdowns are costly because they are labour and material-intensive. Hence, it is key that shutdowns are carried out quickly and effectively to minimize downtime and any negative business impacts. DGC's shutdown and turnaround experts have vast experience across all metals smelting industries, providing a complete shutdown management service.





## **BENEFITS**

**REDUCED  
PLANT DOWNTIME**

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**SAFE  
PROJECT  
IMPLEMENTATION**

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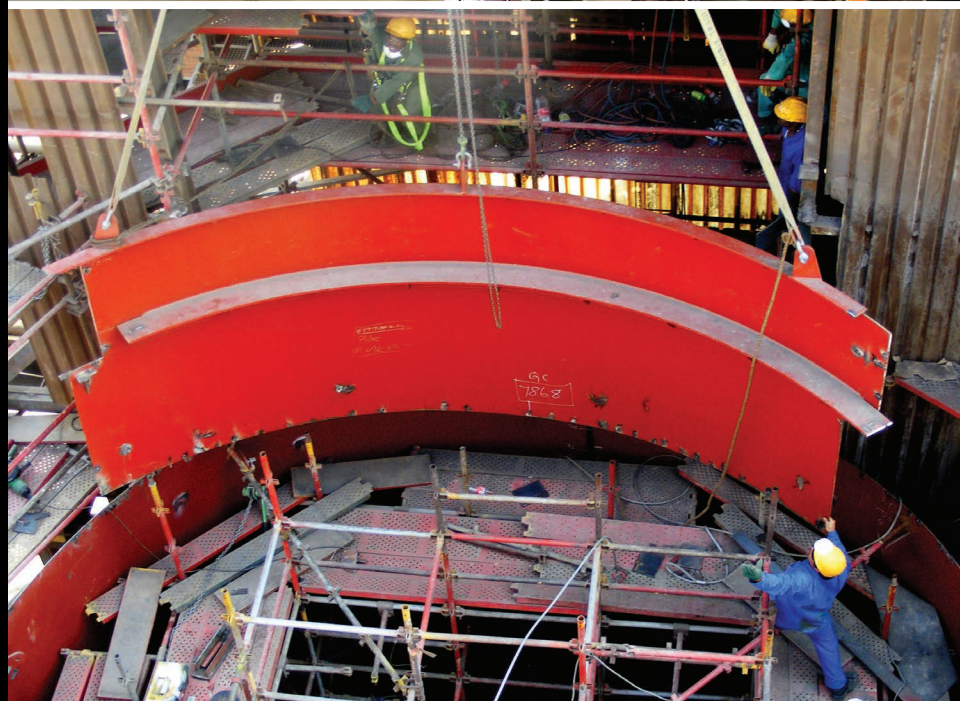
**INTEGRATED  
PROJECT  
IMPLEMENTATION**

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**SIGNIFICANT  
PRODUCTION-COST  
SAVINGS**

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**HIGHER  
PLANT UTILISATION**



# FURNACE REBUILD SHUTDOWN SERVICES



DGC's Furnace Rebuild Shutdown Services for major furnace outages which can cover an entire scope of work including:

**REFRACTORY  
DEMOLITION & REMOVAL**

**PIPING REMOVAL  
& RE-INSTALLATION**

**COOLING ELEMENT  
REPLACEMENT**

**MECHANICAL WORK**

**ELECTRICAL &  
INSTRUMENTATION WORK**

**REFRACTORY  
INSTALLATION**

**OTHER ACTIVITIES**

**DGC's total shutdown solution management teams typically consist of an integrated team of experts as needed for large and complex asset shutdowns, turnarounds and outages.**



A furnace rebuild requires a wide variety of skills and expertise. It takes a dedicated team of professionals to successfully oversee. DGC Furnace Rebuild Shutdown Services has managed numerous major furnace rebuild and upgrade projects.

Some examples of the furnace types rebuilt:

- Flash furnaces
- Six-in-line furnaces
- Electric furnaces
- Isamelt furnaces

# SHUTDOWN PLANNING

**SCOPING & WORK -  
BREAKDOWN STRUCTURE  
(WBS) SHUTDOWN  
METHODOLOGY**

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**SHUTDOWN SCHEDULE**

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**ACTIVITY WORK PLANS**

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**SAFETY MANAGEMENT  
PLAN**

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**RESOURCE SCHEDULING**

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**QUALITY MANAGEMENT  
PLAN**

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**LOGISTICS, RIGGING &  
MATERIALS HANDLING  
PLAN**

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**RISK MANAGEMENT PLAN**



DGC's shutdown and turnaround experts meet and work with your project team and the construction contractors that you select to agree on the plan and optimize the schedule.

At the completion of the planning phase, you and your contractors will have a comprehensive understanding of the agreed shutdown plan as well as all necessary documents to manage and execute the project.



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# SHUTDOWN EXECUTION MANAGEMENT

## SCHEDULE MANAGEMENT

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## SCOPE MANAGEMENT & CO-ORDINATION

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## SAFETY MANAGEMENT

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## QUALITY MANAGEMENT

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## LOGISTICS, RIGGING & MATERIALS MANAGEMENT

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## REPORTING

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## WORK EXECUTION



Acting as your shutdown manager, we can also coordinate all the resources, materials, and equipment needed to execute the project. Starting with a comprehensive shutdown plan, our shutdown management teams can ensure that your shutdown is conducted on time and on budget, allowing you to return to full production with an asset that delivers according to plan.

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## **BENEFITS**

**ENSURING  
WORKFORCE SAFETY**

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**EFFECTIVE COMMUNICATION  
TO ALL STAKEHOLDERS**

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**MANAGING PROJECT  
SCOPE CREEP**

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**COST MANAGEMENT  
AND CONTROL**

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**SCHEDULE OPTIMIZATION**

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**BETTER ALLOCATION  
OF RESOURCES**

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**OPTIMIZATION OF  
PLANT UTILISATION**





# OUR MISSION

DGC's mission is to focus on helping our industrial customers optimising their maintenance costs and improving plant performance, by providing innovative solutions together with our market leading technologies to enhance the service life of their operating assets.

**DGC is customer centric with the adoption of our group-wide "One Personalised Solution",** underpinned by our range of high-quality niche services, with our superior technical expertise, delivery and customer service.

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FURNACE SERVICES    INDUSTRIAL SERVICES    INDUSTRIAL PRODUCTS    MECHANICAL PROJECTS & ROTARY VESSELS  
INDUSTRIAL LININGS    WEAR PROTECTION SERVICES    RISK MANAGEMENT    DIGITIZATION SOLUTIONS