



UPSTREAM
TECHNOLOGY

TECHNICAL OPERATIONS

Ensuring measurable and optimal operational performance through minimised downtime and cost-effective maintenance.

Our proven systems, methodologies, and world-class delivery experience mean we exceed expectations on every project.

The Technical Operations Team has a track record of excellence in managing marine maintenance shutdown projects, with extensive experience in building and maintaining complete marine mining systems. As a partner to our clients, we employ an engineering, procurement, and construction approach to streamline and expedite the execution of complex maintenance shutdown projects.

A comprehensive service offering encompasses all operational and technology systems in performing a maintenance shutdown, delivering a fully integrated solution tailored to your operation's needs. This enhances cost efficiency and quality assurance.

INTEGRATED CAPABILITY & EXPERTISE

1. Marine Maintenance Shutdown Management

Comprehensive shutdown execution from scoping, costing, and planning through to commissioning of complete mining systems and associated plants.

BROWNFIELDS PROJECT INTEGRATION & EXECUTION

Implementation of upgrades and optimisations to enhance existing infrastructure and operations.

GREENFIELDS PROJECT INTEGRATION & EXECUTION

Integrating newly developed and built systems and cutting-edge technology solutions.

2. Maintenance & New Build of Marine Mining Equipment and in support of Shutdown Management

26

planned shutdowns awarded an excellent service rating for exceptional cost, schedule, and quality control through a fully integrated process.

In each complex project, we develop and manage up to

18 000
ACTIVITIES

24 000
RELATIONSHIPS

3 000
ONSITE PERSONNEL

SHUTDOWN MANAGEMENT ECOSYSTEM



1. Workscope Development

- ◆ Deeply collaborative process for shared success
- ◆ Scope clarification and validation with you

2. Planning & Scheduling Execution

- ◆ We have vast experience in developing complex project plans including schedules with over 18 000 activities, with up to 24000 relationships
- ◆ Management of technical receivables
- ◆ Stakeholder management of common user facilities i.e. Sturrock Dry Dock

3. Commercial Control

- ◆ Accurate forecasting of costs for better budget management
- ◆ Efficient contract management
- ◆ Timely intervention for discovery work
- ◆ Third-party assurance of re-measurable contracts
- ◆ Rapid project closeout

4. Quality Management

- ◆ Ensuring compliance meets the highest industry standards, reducing the risk of equipment failure while enhancing operational efficiency
- ◆ We provide you with third-party assurance of the standards achieved

5. Integrated SHE Management

- ◆ Leads to a safer work environment and improved operational efficiency
- ◆ Experienced site control of over 3 000 onsite personnel ensures the safety of every person on site
- ◆ Documentation for compliance and assurance, reducing the risk of non-compliance and associated penalties
- ◆ Innovative leading indicator analysis provides real-time insights into safety and operational performance, allowing for proactive measures to prevent incidents

6. Contractor Management

- ◆ Development of a competitively priced infrastructure of approximately 110 direct specialist companies to provide onsite work and support, providing high-quality services at competitive rates.

7. Shutdown Execution

- ◆ The complete and integrated management of up to 110 specialist companies in the successful delivery of a Shutdown project
- ◆ Intense and detailed critical path and near-critical path management leads to reliable delivery on time and within budget
- ◆ Delivery of fully commissioned vessel, inclusive of all supporting documentation.

MINING SYSTEMS WORKSHOP

The Mining Systems Workshop facility, based in Cape Town, South Africa, manages shutdowns and undertakes the construction, overhaul, and refurbishment of mission-critical marine mining equipment to the highest standards.

The workshop aims to prevent unexpected production stoppages due to marine mining equipment failures by implementing the following measures:



Integrated best practice and quality assured processes during the new build, overhaul, and refurbishment of equipment.



Continuous improvement cycle: with client's team and learnings, and operational support, resulting in increased reliability of machines.



Execution of the work using the philosophy: verify (before doing), fit (during), validate (after completion).



Success is measured by the reliability and longevity of the equipment in operation ensuring consistency and sustained operational performance.



As partners, we deliver as an owners' team: fully accountable, execution-focused, and committed to delivering results that align with your operational targets.

Partnering for our future.
 Let's solve the hard mining problems together.

Contact Us

T +27 21 658 3229
W DEBEERSGROUP.COM

JOHANNESBURG, WEST CAMPUS | RECOVERY FACILITY
 Cnr Crownwood & Booysens Reserve Roads, Theta, Johannesburg, 2013

CAPE TOWN, GOLF PARK | HEAD OFFICE
 DBM Gardens, Golf Park 2, Raapenberg Road, Pinelands, 7405
 +27 21 658 3229