



Waste Handling



YOUR CHALLENGES

Industrial waste presents a Quality, Health, Safety and Environmental (QHSE) challenge. To minimise these risks, rigorous safety precautions and proper handling procedures are essential.

OUR WASTE HANDLING

To match these demands, we offer a broad range of waste handling and vacuum truck services, including industrial waste collection and transportation to waste disposal facilities. Our fleet of Supersucker Vacuum Trucks and Waste Bin / Hook-lift trucks are capable of vacuuming and collecting both dry and liquid generated wastes. We have specialised equipment and personnel fully trained in the hazards associated with handling mercury-contaminated materials and have relationships with several licensed disposal facilities for the safe disposal of mercury-containing and other hazardous wastes.

HOW WE SUPPORT YOUR BUSINESS

Our vacuum trucks and static vacuum units are strategically located so they can react quickly to a call out and are offered on a long or short term basis with 24/7 availability.

We have developed Rover, our multi-purpose, tracked remotely operated vehicle, which works in all conditions including underwater, at high temperatures and in explosive/toxic atmospheres. This robotic solution minimises manned entry to these high-risk environments. Rover is fitted with lights, cameras and is small enough to fit through most access points. It can perform a variety of tasks through the use of different attachments tailored for the specific task.

The versatile nature of Rover allows more areas to be accessed for maintenance and waste handling such as tanks, liquid reservoirs, drainage systems and other such harsh environments.

THE CR3 DIFFERENCE

CR3's large in-house team of highly trained technicians is subject to regular audits and a stringent safety passport scheme. We invest heavily in the latest equipment and SMART systems to maintain our reputation as the region's leading one-stop provider of specialised maintenance services.

Advanced equipment and technology

We continually invest in the latest equipment and processes to improve safety and quality standards. Our customers always benefit from having access to the latest solutions. Like Rover, our multi-purpose tracked remotely operated vehicle, designed to minimise manned entry to high-risk environments. Rover enhances safety and improves productivity as it can operate uninterrupted, unlike its human equivalent.

Outstanding QHSE performance

Our experts follow rigorous safety precautions and proper handling procedures and can provide safe and transparent disposal options that meet all local regulations and environmental requirements.

We are committed to embracing the most advanced technology to improve safety standards and provide significant resources to ensure all staff have the best training available in the industry.

Unrivalled experience

We pride ourselves on delivering safer, faster and more efficient results. With each operational success, the experience and knowledge gained is channelled into the next generation of solutions.

Exceptional service

Count on us to provide a multi-skilled, competent and motivated team, supported by high quality systems,

procedures and equipment to meet your ever-evolving requirements. Our commitment to service excellence is underpinned by our integrated approach to safety, quality and the environment as well as our continual investment in developing our people and securing the latest technology available.



OUR SOLUTIONS

- Vacuum truck and tanker services
- Hazardous liquid transportation
- Sewers drain and pipe cleaning with simultaneous vacuuming
- High pressure water cleaning
- Waste skip and bin rental up to 18 cubic metres
- Mercury monitoring, decontamination and sludge removal
- Road sweeping services
- Wet and dry material vacuuming and collection
- Disposal of non-toxic and toxic wastes
- Temporary storage and tank rental
- Sludge and liquid transfer
- Tank cleaning
- Site clean-up, restoration and reinstatement
- Collection of coal-fired power plant waste such as coal ash, fly ash, bottom ash and boiler slag

YOUR BUSINESS BENEFITS

Benefit from a holistic approach – by using our broad range of waste handling and vacuum truck services, including industrial waste collection and transportation to waste disposal facilities.

Save time and money – with our strategically located resources to ensure we can react quickly to a call out.

Minimise environmental impact – by working with a partner who maintains rigorous safety precautions and proper handling procedures and can respond quickly to emergency spills and unplanned cleanups.

CR3 IN ACTION

The challenge

A gas plant in SE Asia needed to clean their slug catcher for its statutory inspection. Its contaminants included benzene, H₂S, mercury and radioactive material (NORM).

The solution

Proprietary chemicals, circulated by both pumping and nitrogen injection, liquified the clay residue and dissolved any mercury and form a sludge which was removed by vacuuming into UN approved drums for disposal.

The outcome

Over 90% of the contents were removed without the need for confined space entry.

CR3 is a leading provider of energy engineering solutions. Established in 1991, we provide specialised maintenance, plant upgrade, revamp and engineering services with a sharp focus on **Energy Efficiency**, **Engineering Excellence**, and Sustainable **Solutions**.

To learn more, visit [CR3.Group](#)

Leading one-stop provider of specialised maintenance services

CR3 supports your business with extensive contracting experience in the delivery of catered service packages, 'blind to blind' jobs and turnkey maintenance services during major shutdowns and turnarounds. Our business upholds a culture and track record of integrated management systems that are certified to multiple international standards.

Our Solutions

We offer a comprehensive portfolio of maintenance services that are grouped into six business lines. Our experts deliver these services – onshore and offshore – on time and on budget.

Our complete 'blind to blind' solution ensures more streamlined and efficient projects, as we maintain direct, single-source control of all critical path elements. We cater to projects of widely varying scope and complexity, and can deliver multiple shutdowns concurrently.

Related services:

- Static & Rotating Equipment Maintenance
- Industrial Scaffolding
- Mechanical Services
- Column Modifications & Repairs
- Total Heat Exchanger Maintenance
- Flare Tip Replacements & Repairs
- Cleaning & Decontamination Services
- Mercury Management Services
- Catalyst Handling Services
- Nitrogen Services
- Waste Handling
- Decommissioning Services
- Insulation Services
- Valve Maintenance
- Storage Tank Cleaning & Maintenance

SHUTDOWNS & TURNAROUNDS

Our investment in training, equipment and SMART systems combined with our focus on safety and rigorous planning, preparation and execution of work underpins our track record as a leading provider of mechanical & plant maintenance services.

Related services:

- Static Equipment Maintenance
- Rotating Equipment Maintenance
- Specialist Cutting Services
- Online Leak Sealing
- Controlled Bolting
- Reactor Repairs & Maintenance
- Plant Change & Piping Modifications
- In-situ Flange Facing & Machining
- Industrial Scaffolding
- Insulation Services
- Valve Maintenance
- Continuous Plant Maintenance
- Storage Tank Cleaning & Maintenance

MECHANICAL & PLANT MAINTENANCE SERVICES

CATALYST HANDLING SERVICES

Our experts meet your demands for shorter change-outs, leaner project teams and superior quality standards for all reactor types with end-to-end solutions that reduce downtime and increase profitability.

Related services:

- Catalyst & Adsorbent Handling Services
- Tubular Reactor Services
- Dense Loading
- 'Blind to Blind' Mechanical Services
- Reactor Internals Replacement & Repairs
- Nitrogen Services
- Waste Handling

PIPELINE & PROCESS SERVICES

We clean and inspect virtually all plant vessels, columns, drums and piping systems, both onshore and offshore, with services that can be tailored to requirements.

Related services:

- Pre-Commissioning & Commissioning Services
- Nitrogen Services
- Pipeline Cleaning (Chemical & Mechanical)
- Pipeline Flooding
- Pressure Testing
- Dewatering
- Drying
- Purging

INDUSTRIAL CLEANING SERVICES

Our extensive portfolio of cleaning services sets the benchmark in terms of technical, environmental and safety standards.

Related services:

- Chemical Cleaning Services
- Mercury Management Services
- Fin Fan Optimisation
- Hydro Jetting Services
- CR3 Decoking Technology (CDT)
- Decontamination Services
- Waste Handling

REVAMP, CONSTRUCTION & EPCC SERVICES

We deliver projects safely, on time and on budget by ensuring single-source control through our multi-disciplinary approach and project management capability.

Related services:

- Process Revamps, Rejuvenations & Retrofits
- Construction & Constructability Reviews
- Engineering, Procurement & Commissioning Services
- Operations & Maintenance
- Dismantling, Demolishing & Removal of Equipment
- Fabrication of structural, Carbon Steels & Pipe Systems
- Fabrication of Stainless Steels & Special Alloys
- Installation of Large Equipment & Pipe Systems
- Welding
- Hot & Cold Cutting
- Scaffolding & Insulation



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Contact us today to learn more

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