



Pipeline Services



YOUR CHALLENGES

Improperly manufactured, installed, or maintained pipelines, production facilities and pressure piping systems can pose a significant risk to your company, its people and the environment. The best way to ensure safe and reliable operational capabilities is to properly prepare and quality assure all essential equipment and piping during precommissioning and, again, during periodic maintenance and inspection routines.

OUR PIPELINE SERVICES

We offer a comprehensive portfolio of properly engineered, high quality pipeline & process services both onshore and offshore, including pipeline cleaning, pressure testing, water flushing, hydro-jetting, cold cutting, specialist oil flushing, mercury decontamination, pneumatic testing, purging and nitrogen / helium leak testing, among others.

HOW WE SUPPORT YOUR BUSINESS

We have considerable experience in pipeline & process services and can provide a full range of solutions to fit your pre-commissioning, commissioning and decommissioning requirements.

Operating under a single project management team to ensure optimal safety, quality and schedule efficiency, we support our customers with detailed planning, coordination and execution for various work scopes.

We have successfully performed numerous pipeline & process projects on newly built offshore modules, refineries, petrochemical plants and power stations, subsea pipelines, heat recovery steam generators (HRSGs), hydraulic & lube oil systems as well as decontaminating equipment from redundant offshore facilities during decommissioning.

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 modern automated equipment that delivers safer, faster and higher quality results. Rover, our multi-purpose remotely operated vehicle, works in all conditions, including underwater, at high temperatures and in explosive/toxic atmospheres. Rover minimises manned entry to these high-risk environments and performs a variety of tasks through the use of different attachments. Furthermore, our strategic partnerships boost our in-house capabilities, enabling us to provide end-to-end solutions that make use of the most advanced cleaning and maintenance technology available.

Outstanding QHSE performance

Our drive towards safety excellence and Zero Harm is supported by modern equipment and processes that improve productivity and minimise risks. Additionally, we provide significant resources to ensure all staff have the best training available in the industry. We reward strong safety behaviour and provide substantial opportunities for staff to participate in safety workshops, toolbox talks and other events and campaigns that raise safety awareness.

Exceptional service

Our professional personnel take pride in delivering our full range of pipeline services to the highest industry standards. 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.

With our network of offices and workshop facilities across Asia, we have the ability to respond quickly to planned and unplanned events.



Unrivalled experience

With decades of experience, we are uniquely capable of offering a comprehensive solution for all your pipeline needs to ensure on-time and on-budget delivery for all your projects. Our combination of using advanced equipment and multi-skilled technicians in a 'blind to blind' approach helps to minimise downtime and maximise returns.



OUR SOLUTIONS

- Pipeline cleaning
- Pipeline flooding
- Pressure testing
- Dewatering
- Nitrogen services including drying, purging & leak testing
- Online leak sealing
- Air blowing and drying
- Vacuum testing (inside to outside or outside to inside)
- Online pigging programs
- Application of internal coatings
- Mercury removal / decontamination / abandonment programs
- Intelligent pigging

YOUR BUSINESS BENEFITS

Benefit from a comprehensive solution – by using a highperforming contractor to properly maintain your assets through a fully integrated and collaborative approach to ensure on-time and on-budget delivery for all your projects.

Significant savings – our end-to-end solutions and project management capability helps to minimise downtime and maximise returns.

Uphold high safety standards – with our combination of advanced equipment and highly trained multi-skilled technicians to ensure optimal safety.

CR3 IN ACTION

The challenge

An exploration and production company in SE Asia needed to rehabilitate a 1.2 km subsea pipeline with the installation of a new liner.

The solution

A 200-ton barge with crane facilitated the liner installation. The pipeline modifications required, engineering, cold cutting, welding, scaffolding and pigging.

The outcome

Subsea pipeline was rehabilitated cost-effectively resulting in rapid recommissioning and improved flow properties whilst extending the life for at least 50 years.

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

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

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

SHUTDOWNS & TURNAROUNDS

MECHANICAL & PLANT MAINTENANCE SERVICES

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

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

PIPELINE & PROCESS SERVICES

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



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**.

Contact us today to learn more

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