YOUR RELIABLE PARTNER



CR Asia Decoking Technology



YOUR CHALLENGES

A common by-product of industrial plant processes, the build-up of coke and scale in furnace tubings and pipelines is a widespread issue. As these deposits impact operational efficiency, cleaning the tubes thoroughly, quickly and safely the first time, every time, is a key concern. Traditionally, Steam Air Decoking (SAD) has been employed as the preferred cleaning method. There are, however, a number of drawbacks with SAD including the incomplete removal of coke, an increased risk of tube erosion, heat damage, potential fire hazards and environmental issues. SAD also involves longer shutdown times and decreased run lengths.

OUR DECOKING SOLUTION

These issues can all be resolved with CR Asia Decoking Technology (CDT). Proven to be a safe, efficient and costeffective cleaning technology, CDT does not require high temperatures, high pressure or toxic chemicals. Instead, water is applied at a low pressure, typically 150 psi, to drive the pigg along the tube so that metal studs can scrape all the coke and scale loose. By permitting water to flow around the pigg and through the cleaning studs, the loosened deposits are flushed ahead of the pigg and into a collection tank. This process is repeated several times as the size of the pigg is increased incrementally, removing more deposits with each run.

HOW WE SUPPORT YOUR BUSINESS

A proprietary technology from CR Asia, the region's leading one-stop provider of specialised industrial services, CDT is designed specifically to remove all coke and scale deposits. CDT is typically used to clean furnace tubings and pipelines in Cokers, Cogeneration Units, RDS, VBU, Vacuum Heaters, Naphtha Heaters and Crude Heaters.

To complement our in-house capabilities, we work closely with Intelligent Pigging providers. Our strategic partners support us with ultrasonic technology to check the integrity of the furnace tubings and pipelines. As ultrasonic inspections are only possible when the tubes are completely clean, this approach guarantees all coke and scale is removed.

THE CR ASIA DIFFERENCE

CR Asia'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

CR Asia uses the best piggs in the business. To guarantee fast turnarounds, we ensure a wide range of types and sizes are available onsite. Our experts also have access to multiple single and double pumping units, depending on requirements, to clean two or more furnaces simultaneously. Throughout the cleaning process, a chart recorder reading is used to pinpoint both the pigg's location as well as any fouled areas. We also team up with specialist inspection companies to perform intelligent pigging to determine the remaining life of tubes to help optimise operation and maintenance of your furnaces.

Outstanding QHSE track record

From the start of operations until today, we have never suffered an onsite accident. Our technicians undergo the industry's most rigorous training. By maintaining the highest standards of professionalism, communication and collaboration on every project, we receive consistently high customer satisfaction ratings.

Unrivalled experience

CR Asia has successfully performed more than 300 decoking projects across the region. By cascading this knowledge and

experience internally to our project technicians, we are able to maintain a large pool of pigging operators who are ready to deploy at a moment's notice. MCTN, HPCL, Reliance Industries, IOCL, ExxonMobil, Shell, Petronas, Formosa, PTTGC and Thai Oil are just some of the industry leaders that have contracted our cleaning services.

Exceptional service

CR Asia offers a complete 'blind to blind' approach that includes all mechanical services. As part of our comprehensive service offering, we also provide technical support and advice along with planning, scheduling and project management. To ensure smooth project delivery, strong working relationships are maintained with all the main inspection companies. Professionalism and service excellence are key aspects of the training regime our technicians undergo. To ensure minimal disruption and downtime, they are also trained to perform regular maintenance on our pigging processing units and are capable of troubleshooting any fault onsite.



OUR SERVICES

- Furnace / HRSG / pipeline decoking and descaling
- Furnace decoking for refineries
- Pipeline cleaning / descaling
- Checking the integrity of the furnace tubings and pipelines

YOUR BUSINESS BENEFITS

Minimise downtime and cost – compared to SAD, as the CDT solution is proven to be faster and more effective, and is delivered by highly trained, service-oriented experts.

Benefit from customised solutions – as CDT works with any pigging system, enabling us to select the pigg best suited to your requirements and your facilities.

Restore operational efficiency – by completely removing all coke or scale from tubes. By using piggs of various sizes with different stud configurations and ensuring the optimum number of runs, we thoroughly clean tubes with reducers and changing diameters.

Safeguard your plant and people – as the CDT system is a safer, quicker and more environmentally friendly cleaning technology.

CR ASIA IN ACTION

The challenge

Tubing corrosion in a HRSG Cogen unit was causing frequent emergency shutdowns for bypassing repairs that resulted in significant downtime and huge production losses.

The solution

The CDT solution virtually eliminated the need for unplanned maintenance.

The outcome

After comparing our cleaning maintenance cost with the previously lost production, the client identified significant savings and awarded us with 2 x 5-year service contracts.

CR ASIA – YOUR RELIABLE PARTNER

CR Asia is the leading provider of highly specialised pre-commissioning and maintenance services to the Oil, Gas, Chemical, Power and other heavy industries throughout Asia. As your reliable partner, we provide the safest and most efficient solutions to the maintenance, repair and overhaul challenges facing your business. **To learn more, visit www.crasia.net**

Your Reliable Partner

Asia's leading one-stop provider of specialised maintenance services

CR Asia 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 Services

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



Our Business



Our Partners

CR Asia has established long-term alliances with a number of key strategic partners. This collaborative approach ensures our customers always benefit from having access to the most appropriate tools and technologies on any given project. We recognise our industry is constantly evolving. That's why we are continuously looking to expand our network of strategic alliance partners.



CR Asia – Your Reliable Partner

CR Asia is the leading provider of highly specialised pre-commissioning and comprehensive maintenance services to the Oil, Gas, Chemical, Power and other heavy industries throughout Asia. As your reliable partner, we provide the safest and most efficient solutions to the maintenance, repair and overhaul challenges facing your business.

Contact us today to learn more

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