

British engineering,
global investment in
innovation, world-class
results in fouling
removal

A low-angle, upward-looking photograph of industrial infrastructure. Large, dark, metallic pipes and structural elements dominate the foreground and midground, creating a sense of scale and complexity. In the background, a tall, cylindrical industrial tower with a spiral staircase is visible against a clear blue sky. The overall color palette is dark and industrial, with the blue of the sky providing a contrast.

Welcome to Tube Tech

Tube Tech has spent more than 30 years working at the forefront of innovation in cleaning technologies across heavy industrial sectors, providing a premium service for the biggest names in industry and building a reputation as the 'go-to' solution for even the most challenging and critical fouling projects.

Fouling has a major effect on the performance of refining and petrochemical facilities, and heat exchanger fouling leads to additional costs in the order of 25% of the gross national product (GDP) of industrialised countries.

**Our global service brings the
most advanced cleaning expertise
to your country.**

Services

- Fired Heater Furnace Cleaning
- Texas Tower (VCFE) Cleaning
- Cleaning for IRIS Inspection
- Ethylene furnace
- Air Cooled Condenser (ACC Fin Fan) Cleaning
- Twisted Tube Heat Exchanger Cleaning
- Shell Side External Heat Exchanger Cleaning
- Condenser Cleaning
- Flare Line Cleaning
- U-Tube (Hairpin) Heat Exchanger Cleaning
- Waste Heat Recovery Units (WHRU)

All in a day's work...

Tube Tech delivers 90%+ clean as standard



90%+

Clean Guaranteed,
even on the most
fouled assets

RIGHT PEOPLE

Innovation is in our DNA. Tube Tech's history, company ethos and mission statement are built on taking on the toughest fouling removal challenges thrown up by industry. We thrive on challenge and over the past three decades have achieved unrivalled results thanks to our consistent research and development of innovative, step-change solutions.

RIGHT EXPERIENCE

More than 30 years' experience at your service. When you work with Tube Tech, you'll unlock more than 30 years' experience of leading the industry in delivering innovative solutions, unmatched results and unlocking profits from existing assets. We're here to help you achieve the best possible results.

RIGHT SOLUTIONS

Innovative, engineered solutions to global cleaning challenges. We understand the challenges of the industry and more importantly, the specific challenges affecting your operations. We never stop innovating, so you can get the best possible outcomes now and in the future.

ROBOTIC INSPECTION & CLEANING

Safe, rapid deployment and +90% clean as standard. Using our industry-leading robotic cleaning technologies, Tube Tech can work in locations and environments which would be hazardous for human agents. Reduced downtime, improved safety, no-man entry, design thermal efficiency and unrivalled

ENGINEERED SOLUTIONS

Delivering the most advanced solutions on the market. Tube Tech collaborates with leading global partners, including research institutes and universities, to develop the most advanced robotic cleaning solutions on the global market.

REDUCING REWORK & DOWNTIME

Achieve ROI in downtime and performance. Our technologies create significant cost saving benefits for your organisation, such as reduced shutdown time and associated costs. IRIS equipment doesn't lie and can be interpreted by your own inspectors to prove no potential conflict of interest.

RAISE YOUR EXPECTATIONS

Never compromise on results. Tube Tech delivers you a fully operational asset that is at least 90% clean. Despite typically limited access, we remove even the most tenacious process deposits from internal and external tube surfaces of heat exchangers, where others have tried and failed.

UNLOCK REVENUE

Bring your fouled assets back to optimum performance. By applying the world's most advanced cleaning technologies, we can restore optimum heat duty, proven to deliver unprecedented energy savings. The significant benefits in process efficiency, not least reducing carbon emissions, enables our clients to experience a rapid return on cleaning investment, as well as support in their wider operational agenda.

INCREASE PROFITS

Unlock hidden profits from your fouled assets. When production efficiency is affected due to unforeseen fouling, the impact on profits can be incalculable. Tube Tech's fouling removal solutions can deliver longer asset life, reducing or even removing the expense of costly replacement of the asset.



Innovation is in our DNA

Research & Development

Tube Tech's UK base operates as a **centre of excellence** for the development of **robotic industrial technologies** dedicated to solving the most severe global fouling issues from within the most critical, and inaccessible, fired, and unfired process plant found within up and downstream energy sectors.

Tube Tech's R&D resources are geared towards delivering the next generation of solutions to heavy industries' **most complex challenges, addressing climate change, and unlocking profits** for our clients across the globe. Our growing R&D team boasts design and research engineers who are driven by their passion to continually innovate using the latest software, materials, and equipment to consistently deliver new technologies capable of providing improvements in downtime, safety, cleanliness and waste, and life-cycle costs.

EXCHANGER CLEANING SYSTEMS

Our talented Research and Development team has created a unique technology for both Koch twisted tube and conventional shell and tube heat exchangers. We are the only company able to offer this more thorough cleaning method.

The Industry

Traditional water jetting equipment does not access and cannot clean all areas of static heat transfer equipment. This means that fouled heat exchangers will have been returned to service with some degree of fouling inhibiting performance. Hydrocarbons will harden over time, the exchanger will foul quicker, hot spots and under scale corrosion risk increases, and fuel usage rises with the corresponding CO2 emissions.

Most heavily industrial plants continue to build using historical shell and tube heat exchanger designs and are cleaned using traditional water jetting and chemical principles. These methods are applied with the philosophy that any improvement is better than nothing.

At Tube Tech, we believe that a significant amount of exchangers go back into service with fouling remaining on both the tube and shell side. This causes consequential production losses and a reduction in asset life.

Industry is embracing technology, but local substandard cleaning techniques, training, and mindsets remain a root cause of commercial, safety, and environmental failures.

Tube Tech is a game changer in fouling removal solutions.

We do things Differently

Tube Tech is not a traditional cleaning contractor. We are a global leader in research led, high-tech cleaning and inspection services, and have witnessed first-hand the substantial losses heavy industrial clients suffer from the inability to clean heat transfer and process plant during shutdown periods. The technology that we develop is changing the way the industry tackles the issue of fouling.

1-5%

of energy consumed
by industry is used to
overcome fouling

9000-45,000

barrels of crude are burned
every day in the EU as a
direct result of fouling

The Tube Tech Difference

ROBOTIC CLEANING SYSTEMS

Tube Tech has developed a variety of robotic cleaning technologies. Using intuitive robotics, up to 100% of surface contact can be achieved, providing a superior clean. Safety is also enhanced by eliminating the need for man entry.

DELIVERING GREATER AND FASTER RETURNS ON INVESTMENT

Tube Tech's world-class portfolio of cleaning techniques ensures you get a significant return on investment every time. Our services are an investment, not a cost – providing better results, delivered safely and faster.

BESPOKE SOLUTIONS

You may be relying on systems that do not always deliver the results you need or expected! Our range of world-class technologies will deliver outstanding results. For more complex requirements, our technical team can engineer a bespoke and more cost-effective solution to unlock previously untapped savings and benefits.

RAPID RESPONSE

Depending on location, we can mobilise quickly, typically within 24 to 72 hours and we will attend with a team of experienced personnel and equipment either nationally or internationally. Tube Tech has an impressive portfolio of worldwide projects and has operational bases globally.





DETAILED DIGITAL ARCHIVES

A comprehensive digital record of every contract is available. Clients can receive, via our Excalibur visualisation suite, a minute-by-minute report of on-site activities plus a thorough post-contract report detailing activities made before, during and after the contract, including digital images and video evidence.



CLEAN ASSETS EQUAL EFFICIENT OPERATIONS

How clean is clean? Are you currently accepting 30, 50, 60% clean as your company's standard? There is no API standard that exists to confirm how clean an asset is or should be. We take that burden and ensure you receive a fully operational asset that is at least 90% clean.



ATTENTION TO DETAIL

When you work with Tube Tech, innovation starts at the estimation stage. We request 'as built' drawings of the assets you require to be cleaned. This allows us to determine the best method and accurately plan so that every stakeholder has a clear operational view of the project from timelines to results.



SAFETY

Incidents and lost time accidents in the oil and gas industry are higher than any other industry globally. Remote technologies have created the opportunity to engineer out hazards associated with chemicals and high-pressure water, whether within confined spaces, at height, in the presence of flammable environments or any situations potentially dangerous for human agents. Tube Tech's remotely operated and robotic cleaning methods avoid these risks by removing the need for cleaning contractors to be in close proximity to danger.



COMPLIANCE

The safety of operators and clients on-site is paramount. Tube Tech devotes considerable resources to maintaining its excellent safety record via the continuous research and development of technologies and through rigorous training in best practice and compliance, strict enforcement of regulations and the wearing of correct PPE at all times.



HEALTH AND SAFETY

Tube Tech has always maintained an exceptional health and safety record, despite the hazardous nature of the industry and a long history operating in countries with comparatively lax regulation and enforcement to the UK. It is our policy to, where necessary, go beyond regulation and operate to the high standards we believe are required to deliver our services safely.

The background of the image is a photograph of an industrial welding process. Bright, golden-yellow sparks are flying upwards from a welding point on the left side. In the background, there are large, dark industrial structures, possibly parts of a ship or a large machine, with some small lights visible. A large, solid orange shape, resembling a stylized triangle or a large arrow pointing towards the bottom right, is overlaid on the right side of the image. Inside this orange shape, there is white text.

IGS has the largest global footprint in its industry sector, with operational capabilities and experience delivering solutions on-site on six continents.

An IGS Solution

Tube Tech is proud to be an Integrated Global Services (IGS) Solution. IGS is an international provider of surface protection solutions with more than 35 years of experience helping customers solve metal wastage and reliability problems in mission-critical equipment.

IGS's proprietary High Velocity Thermal Spray (HVTs) coating systems solve corrosion and erosion problems where other solutions fail. Cetek ceramic coatings and Hot-tek™ online furnace cleaning, repair, and inspection services optimise the efficiency of high-temperature process equipment. IGS's Environmental Products improve the reliability and efficiency of critical equipment with unique solid particle filtration and airflow redistribution.





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