

PLANT TECHNOLOGY SERVICES GROUP

[Formerly known as POWER TECHNOLOGY SERVICES LIMITED, UK]



PTS INDUSTRIAL & PIPELINE TECHNOLOGIES (INDIA) PRIVATE LIMITED

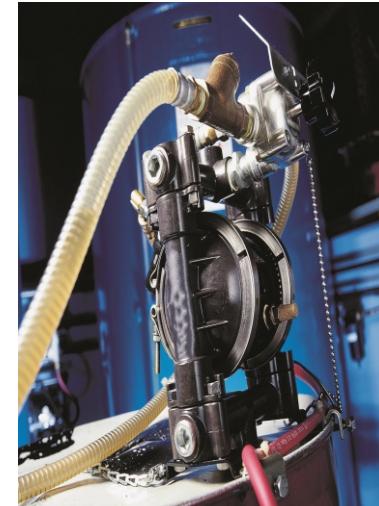
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INDUSTRIAL SERVICES

PLANT PREVENTIVE AND SHUTDOWN MAINTENANCE SOLUTIONS



PLANT TECHNOLOGY SERVICES GROUP

[Formerly known as POWER TECHNOLOGY SERVICES LIMITED, UK]



HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES



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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

PTS INDUSTRIAL & PIPELINE TECHNOLOGIES (INDIA) PVT. LTD.

Is a wholly owned Subsidiary of a world renowned Industrial & Pipeline Service Specialist from UK ,
M/s PLANT TECHNOLOGY SERVICES GROUP LTD - UK [Formerly known as POWER TECHNOLOGY
SERVICES LIMITED, UK]

About PLANT TECHNOLOGY SERVICES GROUP LTD - UK

www.pts.group/uk

Our Industrial services division is managed by highly professional engineers with a combined experience of more than 20+ years. Apart from technical skills our engineers are trained to manage huge manpower required for these services. All equipment required for providing these services are developed and fabricated in-house. PTS has Good logistic tie-ups for mobilizing resources at the earliest for Critical job. We continuously update our equipment's through experience and updated technology available in market.

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PLANT TECHNOLOGY SERVICES GROUP

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES



ADMIN OFFICE

PLANT TECHNOLOGY SERVICES GROUP

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

COMPREHENSIVE CATALYST HANDLING AND REACTOR MAINTENANCE SERVICES

Catalyst are used in reactors to facilitate the refining process of crude materials while simultaneously regulating the rate of the chemical reaction. Most catalyst are pyrophoric in nature and need's to be handled with at most care while replacing it in the inert environment's. PTS has all the required Expertise, Equipment, including trained and experienced staff to provide comprehensive catalyst handling services.



COMPREHENSIVE
CATALYST HANDLING
SERVICES

PLANT TECHNOLOGY SERVICES GROUP

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

CATALYST UNLOADING

We offer catalyst unloading services from reactor (Fixed bed reactor, CCR reactor, Ammonia Synthesis convertor, Tubler reactor and Reformer tubes) in Ambient and Inert conditions through dump nozzle, Side Man-ways, vacuuming and bucketing (only for skimming). Reactor entry in inert / Hazardous atmosphere is achieved using the best Industrial practices and advanced LSS System. With our controlled Vacuum system we can pneumatically convey catalyst with least attrition. Our vacuum systems are designed to recycle the spent nitrogen by filtering, cooling and returning it back into the reactor in order to avoid the air ingress and to minimize the purging requirements. Catalyst is unloaded in a controlled manner to achieve zero dust and minimum attrition.



**COMPREHENSIVE
CATALYST HANDLING
SERVICES**

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

CATALYST LOADING

Through our experienced Technicians and Equipment's we can deliver desired density and uniformity of loading in Inert and Ambient conditions. Our Equipment's are designed to minimize catalyst attrition during catalyst loading operations. With our Associates worldwide we could also provide all type of Dense loading services if required.



CATALYST SCREENING

Mechanical Segregation using vibratory screens of catalyst under Inert and Ambient conditions with minimum attrition up to a maximum of 6 fractions at a time. Our Screening equipment's are designed for easy handling of catalyst. The screening drums, speed and vibrations can be adjusted depending on the site conditions.



**COMPREHENSIVE
CATALYST HANDLING
SERVICES**

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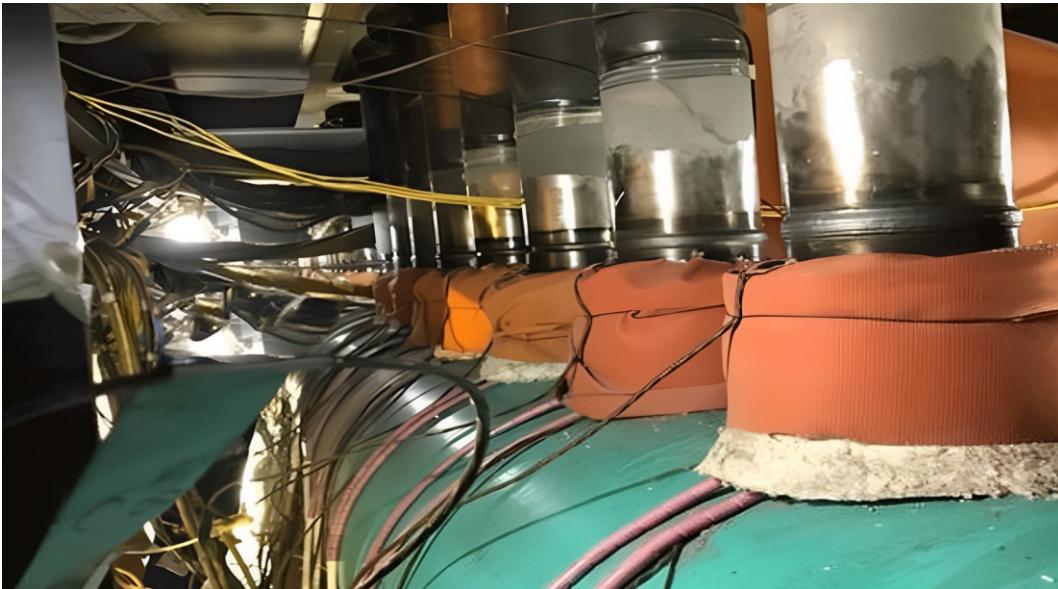
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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

REFORMER & TUBLER REACTOR SERVICES

Our Services include Delta pressure measurement, Tube Internal / external cleaning, Boroscope Inspection, Tube replacement, spring balancing, Template Loading and Air Lance vacuuming.



**COMPREHENSIVE
CATALYST HANDLING
SERVICES**

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

INERT & TOXIC ATMOSPHERE SERVICES

We provide Internal Reactor services such as Passivation, Hydro jetting, welding, Heat Treatments, Removal and Re-instatement of reactor internals, Repair, Modification, NDT and Video Inspection of reactor under Inert and Ambient Conditions. Our Trained Technicians are well equipped with all the necessary tools and PPE's required for executing these jobs in inert and toxic atmosphere.



INERT & TOXIC
ATMOSPHERE SERVICES

PLANT TECHNOLOGY SERVICES GROUP

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

HEAT EXCHANGER BUNDLE PULLING AND SERVICING

We are capable of restoring Exchangers to its original design capacity with the help of In-house resources like Hydraulic Ariel Bundle Pullers, Retubing set, Insitu Machine and Experienced Technicians and qualified Welders. We handle all types of exchangers such as Shell, Tube, U-Tube, Fixed Head, Heat / Floating head type, Re-boiler, Double pipe heat, Plate heat, Breech lock and Fin Fan cooler.

TUBE BUNDLE EXTRACTOR

We extract bundle safely by using a Bundle extractor or a Trolley mounted chain blocks when there is a provision. Different Bundle Pullers are used depending on the dimensions, elevation and weight of the bundle that has to be removed. We have Skilled and Experienced Technicians for these high precision jobs.



**HEAT EXCHANGER
BUNDLE PULLING
MAINTENANCE SERVICES**

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

CLEANING BY HYDRO JETTING

We offer hydro jetting services for the removal of surface Debris, Oxidation, Residue and Deposits to clean Tubes Bundle (External/Internal) and Shell. To efficiently clean the Bundles, we use Hydro Jetting Machine of various pressure as per the Tube conditions. Automatic Triple Lancing could also be provided for safe and fast cleaning.



RETUBING SERVICES

We offer a complete range of On-Site and Off-Site Heat Exchanger Retubing & Refurbishment services. We are equipped with the entire range of Heat Exchanger Retubing Equipment such as Tube Pullers, Cutters, Installation Tools, Hydraulic Tube Expanders, Seal Welding Accessories, Tube Cleaning, Facing and Testing Tools. With our Experienced team we can execute all Retubing jobs with Premium Quality and Minimum Time.



**HEAT EXCHANGER
BUNDLE PULLING
MAINTENANCE SERVICES**

PLANT TECHNOLOGY SERVICES GROUP

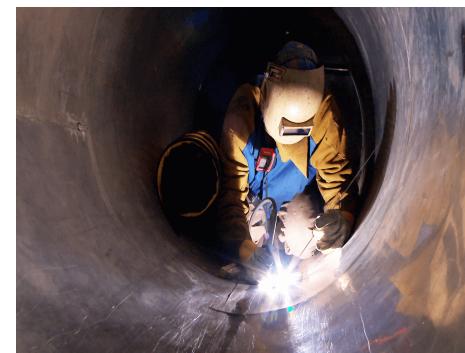
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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

MECHANICAL REPAIR SERVICES

Our services include external activities like Blinding/De-blinding, Scaffolding Erection, Pipeline Modification, Tapping, Structural Modification/Repair, Manways Opening, Valve Replacement, LG (level gauge removal cleaning), Safety Valve Removal & Calibration and LT (Level Transmitter Removal and Calibration). We Also Provide Internal Activities Such as Tray/Demister Pad Removal & Installation, Inlay Patch work, removal & installation, Internal repair, NDT, Inspection, Column Internal Doubling ,Packing Replacement, Internal Shell and Trays cleaning. Our experienced crew can execute internal work in most difficult to reach positions. Automatic Triple Lancing could also be provided for safe and fast cleaning.



CONFINED CONSTRANT PLACE INSPECTION

We provide the next gen method for inspection in confined spaces using drones. This method eliminates the need of human presence in harmful and confined environment. It Could also 3D map the its surroundings in high resolution



MECHANICAL
REPAIR SERVICES

PLANT TECHNOLOGY SERVICES GROUP

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

HIGH / ULTRA HIGH PRESSURE HYDRO BLAST CLEANING AND DEMOLITION

Hydro-Blasting, also known as Water Blasting, Hydro Jetting or Water Jetting, is the act of using High-Pressure water to clean and remove surface Debris, Oxidation, Residue and Deposits from the Heat Exchanger Tube Bundle (Internal & External), Tanks, Boilers, Reactors, Vessels, Columns and Pipelines. Highly experienced and trained technicians along with advanced equipment's enable us to deliver efficient cleaning.

We offer following Hydro jetting services

- Lancing Machine and Triple lance cleaner for Exchanger Tube Cleaning.
- Outside Bundle Cleaner
- Cold Cutting (Abrasive cutting) by HP Water Jetting
- Hydro Milling or Rotomol cleaning for chocked pipelines.



**HYDRO BLAST CLEANING
AND DEMOLITION**

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

CHEMICAL CLEANING

We offer a wide range of chemical cleaning services for pre-commissioning and post-operational / maintenance of plants and systems. The pumps, temporary piping, fittings, etc. are selected depending up on the circuit flow requirements, pressure drops, velocities, metallurgy, scale, preservation and other parameters. Our chemical cleaning solutions increase your operational effectiveness, resulting in lower operating costs



ONSITE CHEMICAL CLEANING

We offer Onsite chemical cleaning by circulation method for Plate exchanger, Tube exchanges, Evaporators ,condensers, Filters, Process pipe lines, Columns, Cooling towers, Air coolers, Fin Fan coolers, Fire protection water systems, Cooling and lubrication oil circuits.



CHEMICAL CLEANING

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

FOAM CLEANING

We use Environmental friendly solvent to generate Foam through specially designed Foam generators. Our Foam Cleaning method allows better surface contact to penetrate and clean deep inside fin fan cooler thereby increasing airflow by upto 50%.



OIL FLUSHING

Moisture contamination and other foreign particles in Hydraulic and Lubrication oils have Damaging effect's on the components of Rotary Equipment's and may cause Premature replacement as well as Downtime on Critical Equipment. With our Bidirectional Flow Circulation Pumps we can achieve efficient Oil Flushing, there by reducing Maintenance required on Rotary Equipment's.



CHEMICAL CLEANING

PLANT TECHNOLOGY SERVICES GROUP

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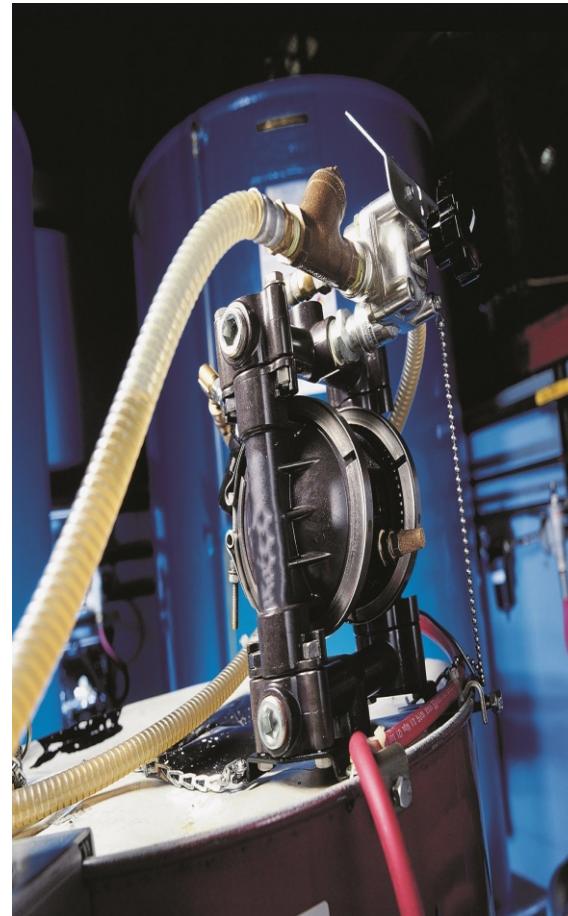


HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

DECONTAMINATION

We use in-house developed solvents, to Decontaminate and De-oiling Equipment from Pyrophoric Iron Sulfide (FeS), Hydrogen Sulfide (H₂S), Benzene and other Explosive Gases (LELs) within 8-12 Hours.

- 100% Bio Degradeable
- Safe on All Metallurgy
- Eliminates Personnel Exposure Hazards
- Cleans the Piping Associated with the Process Equipment
- Virtually Eliminates Steam-Out of the Equipment
- Reduces Waste Generation and Waste Treatment
- Enhances Productivity by Allowing Crews to Enter and Work Inside the Equipment Immediately
- Safely Removes Pyrophoric Iron Sulphide and Residual H₂S
- Significantly Reduces Hydro-blast and Hydro-jetting Time



CHEMICAL CLEANING

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

WET / DRY SUPER SUCKER VACUUM CLEANING SERVICES

Our Super Sucker Vacuum Trucks offer a Safe and Reliable Solution for cleaning up Dry and Wet Industrial Material like Sludge, Slurries, Oil, Solids in the form of Granules and Powder in a Environment friendly way. Our systems are Designed in such a manner that there will be Minimum Exposure and No Spillage while Handling the Catalyst. It can also handle, Viscous, High Density and Pyrophoric Materials. The mobile is designed to manoeuvre in difficult to reach locations. It has a suction capacity of 3500m³ of air/hour and Vacuum Substances from a height of 140m. Our Vacuum Trucks are equipped with strong Stainless-Steel Tanks with Safety Devices & Accessories that are capable of Handling Corrosive & Inflammable Fluids. It is built to safely operate in Potential Hazardous Atmospheres. Our Filtration system ensures that there will be no exhaust of Fumes, Dust and Smoke during Vacuum Operation.



**SUPER SUCKER VACUUM
CLEANING SERVICES**

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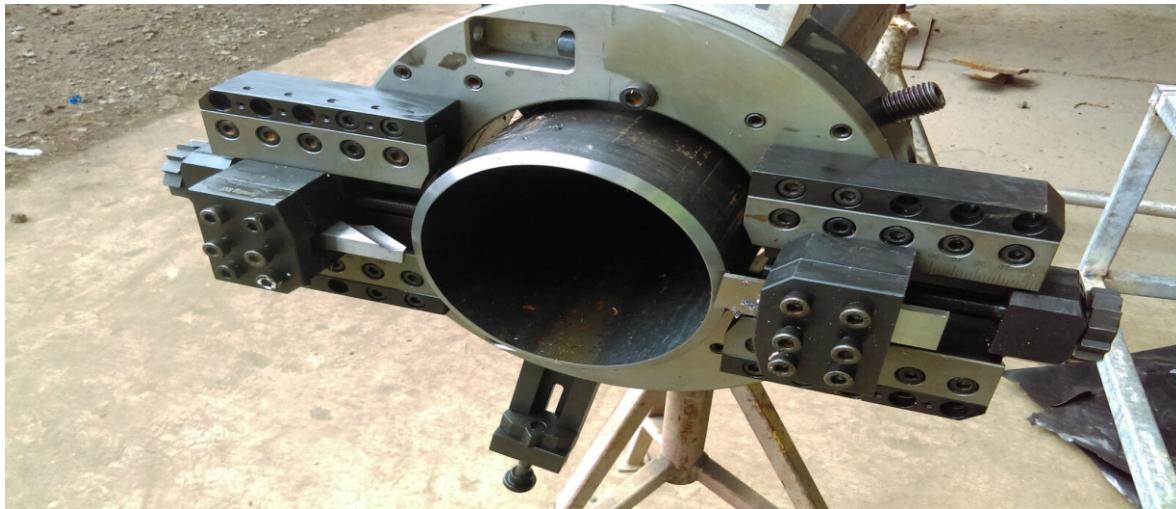


HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

PTS with its range of onsite machine tools has the capability to achieve machine shop repairs on-site

ON - SITE MACHINING

- Cold Cutting & Weld End Preparation
- Flange Facing
- In-Situ Milling
- Line Boring
- Cutting Activities during Decommissioning of Platforms & Installations with Diamond Wire Saws, Casting Slitters and Pinning Machines



ON - SITE
MACHINING

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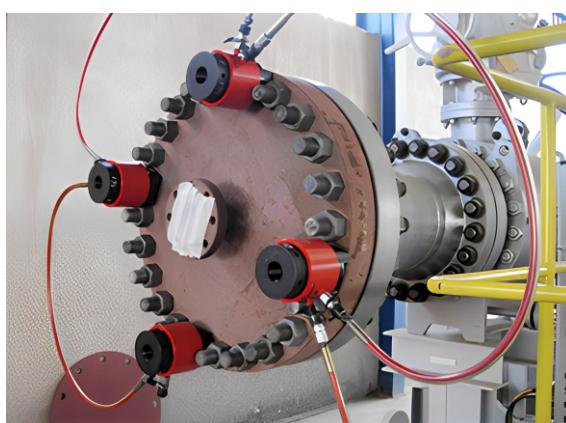
BOLT TORQUEING

We ensure leak free systems for all Bolted Joints through applying uniform torque to all bolts. Bolt tensioning is performed by providing shear force to the Nut. As the force is applied the threading draws the Nut Face and Bolt Head closer together, stretching the Bolt and Creating the Clamping Force.



BOLT TENSIONING

Tensioning is performed through stretching studs by applying tensile force. The tensioner is clamped to the bolt's threads and pushes against the flange in the surface being bolted. This provides a very consistent amount of stretch to the bolt, after desired stretch is achieved the nut is hand tightened.



**BOLT TENSIONING AND
TORQUEING SERVICES**

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

STATIC & ROTATING EQUIPMENT MAINTENANCE

We offer complete Mechanical Maintenance and Overhauling services for Rotary equipment's like Pumps, Air Compressors, Blowers, ID/FD Fans and Valves. We carry out High Precision work using Advanced Measuring Instruments and skilled Millwright Technicians.



STATIC AND ROTATING
EQUIPMENT
MAINTENANCE

PLANT TECHNOLOGY SERVICES GROUP

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

FABRICATION/WELDING AND ERECTION SERVICES

We have experienced Manpower for carrying out Structural and Pipeline Fabrications/Modification jobs. Our welding crew is well Experienced and Certified for executing in a wide variety of different projects involving different Metallurgies, Including Inconel. We maintains a team of construction staff together with the inventory of heavy equipment and advanced construction management systems and techniques, offering reliable services with control in Schedule, Material, Quality and Safety. Our capabilities include fabrication of Pipeline, Tanks, Pressure Vessels, Heat Exchangers, Heater Coils fabrications, Reformer tube Fabrication, Structural Fabrication flare tip stack etc.. We have in-house capabilities for providing allied services required for these jobs such as scaffolding, Grit Blasting, Painting, Coating, NDT, Heat treatment and Insulation services.



**FABRICATION/WELDING
AND
ERECTION SERVICES**

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HIGHLY SPECIALIZED INDUSTRIAL MAINTENANCE SERVICES

MECHANICAL DECOOKING AND DE SCALING SERVICES

We offer Environment Friendly Heater Coil Cleaning System that can clean Two passes at a time without use of any Chemical. The Decoking process employs a Closed Loop Recirculation of Pig Driven by water for the Cleaning Operation. The Protruding Metal studs on the Poly Foam Pig will scrape and remove the Coke Deposits while passing through the Tube. The controlled Amount of water flows around the Pig and Past the Cleaning Heads thereby flushing the loose coke deposits ahead of the moving pig and to bring into the collection tank. Our 2000 gallons Double Pumper driven by Diesel Engine is Designed for bidirectional operation. Our Decoking systems Increases Efficiency and productivity by cleaning the coke and scales inside the fired heater tubes. Our systems clean heater tubes with radius bends, plug headers and box headers. Our tracking system allows us to identify exact location of the pig.



MECHANICAL
DECOOKING AND
DESCALING SERVICES

PLANT TECHNOLOGY SERVICES GROUP

[Formerly known as POWER TECHNOLOGY SERVICES LIMITED, UK]

OUR GLOBAL PRESENCE

UK (HEAD OFFICE)

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[[Middle East](#) - GCC | North Africa | West Asia]

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