

PLANT TECHNOLOGY SERVICES GROUP

[Formerly known as POWER TECHNOLOGY SERVICES LIMITED, UK]



PTS INDUSTRIAL & PIPELINE TECHNOLOGIES (INDIA) PRIVATE LIMITED

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PIPELINE SERVICES NO SHUTDOWN AND ON-SITE MAINTENANCE SOLUTIONS



Hot / Cold Tapping | Line / Flow Stopping / Plugging | Pipe Freezing | Online Valve Inserting | Manufacturing & Supply of Hot Tap / Line Stop Fittings, Equipments & Accessories

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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES



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

Is a wholly owned Subsidiary of a world renowned Pipeline & Industrial 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

From Scunthorpe, United Kingdom (UK) is managed by highly professional engineers who have decades of experience in the field of Pipeline Services in the Oil and Gas, Utility and allied sectors since 1980. Our business has established an extensive manufacturing unit based in North Lincolnshire covering an area of 60,000 sq. feet and a service centre covering an area 20,000 sq. feet. Our Products, Equipment's and Field services are designed to keep pipeline system on stream and to prevent shutdowns for our customers. Our Manufacturing design Comply with domestic and foreign codes and standards and our quality control system assures that the highest industry requirements are met and maintained through our quality procedures. **PTS** operates in Europe as a standalone firm and in the Middle East, Africa, India, South East Asia and other regions either through a JV or

Associations

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ADMIN OFFICE

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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES



FIELD SERVICES

- Hot Tapping
- Line Stopping / Line Plugging
- Pipe Freezing
- Online Valve Insertion
- Online Leak Sealing
- Valve Repair

DESIGN AND ENGINEERING

- In-House Design Machines, Equipments, Accessories and Fittings

INNOVATIONS & PRODUCTS

- Power Stop
- Combined Valve Tee
- Power Valve (Insert Valve)

MANUFACTURING

State-of-the-art Manufacturing Facility in the UK and India for Producing:

- Hot Tap Machines
- Hot Tap / Line Stop Equipments and Accessories such as Sandwich Valve, Line Stop Actuators, Articulating Heads, Cutters, Pilot Drills, Sealing Elements, Cutter Housings, Line Stop Housings Etc.
- Split Tees (Welding and Mechanical Bolting Types), Nozzles etc. Accessories and Fittings for the Onsite Field Service.
- Special Purpose Machines Equipments and accessories for high pressure & high Temperature Line.
- Specialized Pipeline Fittings such as Dismantling Joints, Restraining Couplings, End Restraints Couplings, Flange Adaptors, Self Sealing Leak Repair Clamps Flanges and Valves etc.



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HOT TAPPING

**HOT
TAPPING**

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- **Hot Tapping** or Under Pressure drilling is the method of attaching a branch connection to existing pipelines or vessels or any other process equipment while the existing system is under pressure.
- This method employs a Tapping Machine and a full bore valve and either a nozzle or a full encirclement fitting (Split Tee) welded to the existing pressurized system.
- The Tapping (drilling) machine, generally consists of a telescopic boring bar mechanically driven by our specially designed gear box which advances a cutting tool.
- **PTS** can hot tap from $\frac{1}{2}$ " to 96" sizes; from vacuum to 1480 psi pressure with a temperature limit of 700 deg. F. The flange rating is in range of 150 Lbs. through 900 Lbs. ANSI ratings.
- **PTS** Tank/Sump/reservoir Hot Tapping (drilling) services can drill through all the main tank walls with reinforcement bars in place. Being under pressure allows for a new line to branch from the digester/reservoir with a valve in place for flow control. We can drill through a concrete wall of thickness ranging from 200 MM to 1500 MM, with the option to drill in various nominal bore sizes, PTS can undertake such projects on Turnkey basis from Site Survey, Design, Manufacture and Installation.

HOT TAPPING

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Line stopping is a means of stopping the flow and providing an optional bypass (in case the line medium needs to be supplied downstream) while repairs or alteration works are in progress. Line stopping can be performed on various piping materials and for a variety of media such as gas, oil, water, steam, process piping & sewage, etc.

Why use Line Stopping?

- Service to consumers of process industries and sensitive services is maintained.
- Contamination and / or loss of fluid or gas does not occur.
- Toxic or harmful product is not released. Fire protection not affected.
- No time wasted draining the systems.
- Personnel are used efficiently on effecting repair.
- Eliminates need for bulk transfer and storage of harmful fluids.

PTS can provide Stopping services on DN80 to DN1500 lines at 150 bar pressure on multiple mediums.



LINE
STOPPING/PLUGGING

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POSITIVE SEALING FOR SMALL DIAMETERS

Power Stop is a popular and proven expanding Line Stopping equipment in sizes of 3" to 12" used mainly on gas utilities and water lines world wide.

The positive seal provides two distinct advantages

- The rubber seals expand 20 mm in range and takes up ovals or build up within the pipeline.
- The Mechanical Special seal allows new section of pipe to be pressure tested between the stops.

POWER STOP is a unique patented equipment and process of our **PTS (SA) LTD. UK.**



POWER STOP

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Pipe freezing (Cryogenic) for temporary pipe isolation has become the safest, cheapest and most effective method for allowing valve replacement and general pipework modifications.

Fluid in the system no longer needs to be drained down. Therefore valuable time can be saved, and the costly process of refilling and venting can be avoided. Toxic fluids do not have to be drained and stored or at worst disposed of and then replaced.

Direct Liquid Nitrogen Pipe Freezing

Direct Liquid Nitrogen pipe freezing is the most common procedure used to establish isolation on a pressurized pipeline, requiring the application of Liquid Nitrogen to the external surface of the pipe. This transfers the low-temperature Liquid Nitrogen through the pipe reducing the pipe fluid temperature below its freezing point and developing a freeze plug. The technology as described above affords us the ability to control the area of the pipe to be frozen.

Once a plug has formed it is capable of withholding pressures up to 4000 psi and this is maintained to allow pipework modifications to be undertaken with confidence. Freeze time is dependent upon many factors. Primarily it is the size of the pipe although system conditions and ambient temperatures are contributing factors. Once we know the particulars of your Application we can predict the actual Freezing time.

The Pipeline materials that can be subjected to cryogenic temperatures include

Carbon steels, aluminum alloys, Cast iron, Stainless steel, Epoxy coated pipes, Nickel alloys, Copper base alloys.

Pipeline fluids that have been crystallized to form an ice plug include: Fresh water, Glycol solutions, Sea water, Effluents / Sewage, Produced water, Sludge's, contaminated water, Alcohol, Crude oil, Bunker C oils, Fuel oils, Methanol, Lubrication oils, various chemical products.



PIPE FREEZING

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Online Valve Inserting is the installation of a unique **Power Valve** into a pressurized system, either mechanical or welded.

Power Valve is a new development in the Oil & Gas, Water and process pipeline field wherein a fully functional valve is inserted into a pipeline. Standard valve operating devices can operate the valve rated up to 16 bar pressure. Sizes 3 Inches to 36 Inches The valve rated to 16 Bar is capable of being operated with a standard valve operating the key.

The unique **Power Valve** will work on any pipelines and can be installed in one excavation. Since there is only a requirement for one excavation instead of the traditional five excavations associated with replacing a large diameter valves using Line Stopping and Bypass the cost savings are immediately apparent Sizes Ranging from 300 mm through to 700 mm 16 Bar Sizes Ranging from 700 mm through 900 mm 10 Bar.



ONLINE VALVE
INSERTION

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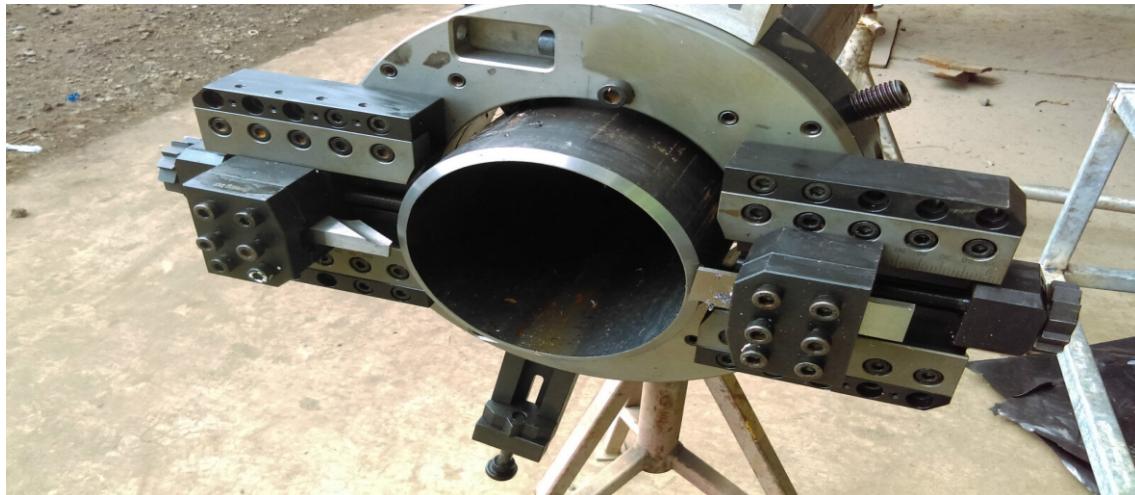


HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

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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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

PIPE REPAIR CLAMPS

At **PTS** our repair clamps have been designed to withstand all standard pipeline pressure applications and offer a quick yet professional solution to a leaking pipe.

Fabricated at our workshop, the clamps can be supplied with a ring seal for localized damage or WRAS approved sealing mat with side restraint options for a full solution. Installed mechanically using captive bolts in bespoke size ranges to suit your pipeline needs.



PIPE REPAIR CLAMPS

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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

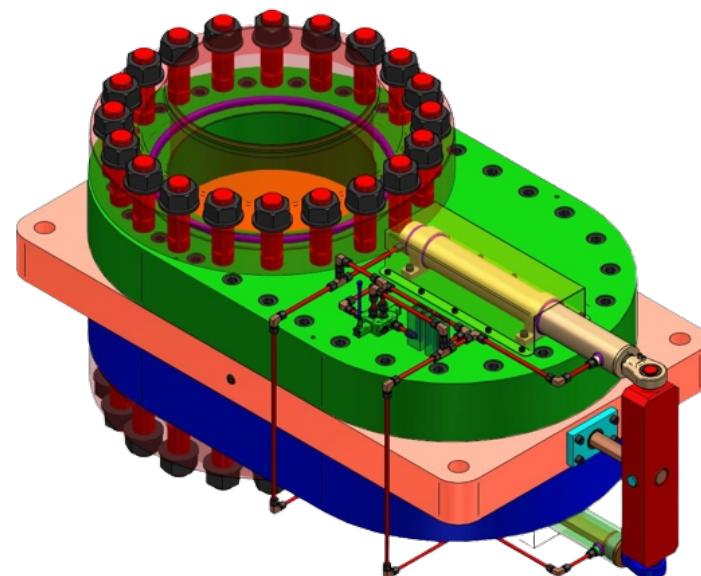
PTS INDUSTRIAL & PIPELINE TECHNOLOGIES (INDIA) PVT. LTD.

has its own in-house set up for design and engineering and is based in Scunthorpe, UK and India

A team of qualified engineers employed at **PTS, UK & INDIA** design the process of online service as per the condition of the site, the requirement of the client, technical parameters, statutory and standard essential and develop a solution that is specific and customized to the case at hand.

For the onsite service and for retail sales, machine and equipment's are designed in-house. Also, the accessories, fittings, spares and components are engineered to the requirements to achieve optional result and cost effectiveness.

We are able to supply and source the best Technologies, Components, Accessories and Engineering Facilities to our client / site of work.



DESIGN AND
ENGINEERING

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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

Power Valve, Power Stops and Combined Valve Tee are our innovative contribution to the pipeline field

and are special patented technology offered to the clients.



INNOVATIONS

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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

Hot Tapping Machines & Associated Equipment

We have state of art manufacturing facilities set up at UK and INDIA. We have tie-ups and association with high end specialized machining workshops, component and material suppliers and a good logistical network for sourcing and supplies.

Some of our prominently manufactured items:

Hot Tapping Machines

Hydraulic Power Units

Hot Tapping / Line Stopping Products, Accessories and Fittings

Accessories and Fittings for the Onsite Field Services.

Other special purpose Machines & Equipments for High Pressure and High Temperature lines.



PIPELINE SERVICES
EQUIPMENTS/PRODUCTS

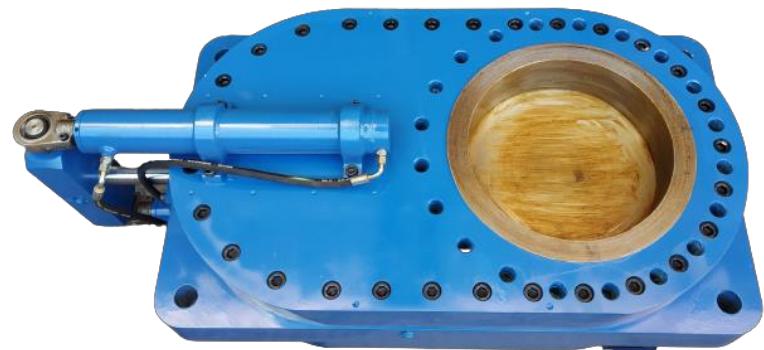
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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

- Line Stop Cylinders (Actuators) Various sizes
- Line Stop Heads and Sealing elements
- Line Stop Housings
- Sandwich Valves



LINE STOP EQUIPMENT

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HIGHLY SPECIALIZED PIPELINE REPAIR & MAINTENANCE SERVICES

PTS can design and manufacture specialized pipeline fittings such as Dismantling Joints, Restraint Couplings, End Restraint Couplings, Flange Adaptors, Self Sealing Leak Repair Clamps, flanges, valves, etc.



SPECIALIZED PIPELINE
PRODUCTS

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OUR GLOBAL PRESENCE

UK (HEAD OFFICE)

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